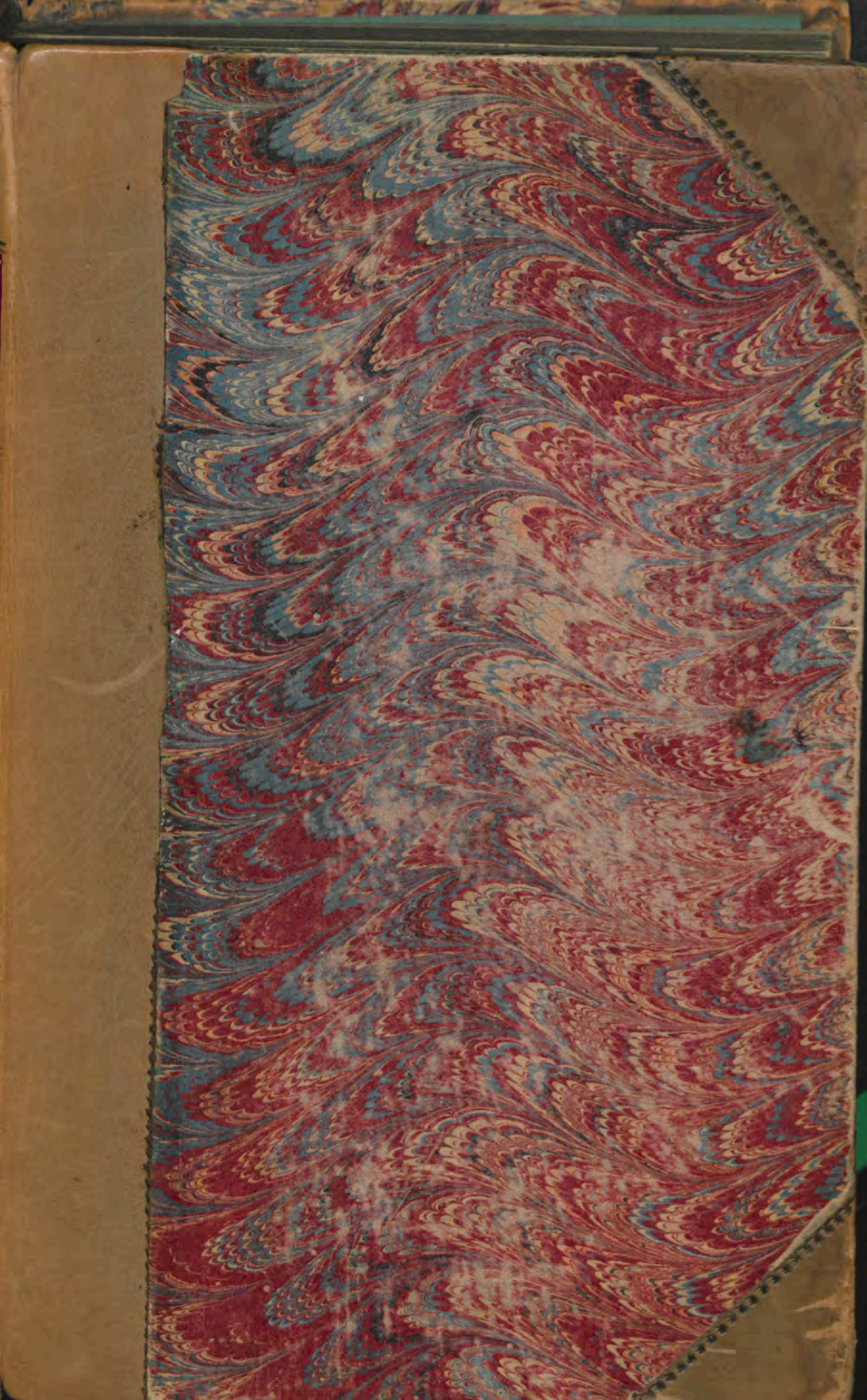

XL, B

BRUCE DONATION

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BRUCE DONATION

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING MARCH 31, 1871.

Remarks on the Weather during the Quarter ending March 31st, 1871.

By James Glaisher, Esq., F.R.S., *&c., Secretary of The Meteorological Society.*

The exceedingly cold weather at the end of the last quarter continued till the 5th day of January, then somewhat moderated, but continued cold to the 13th; a few days of temperature a little above the average of the season followed. On the 19th the cold weather returned and continued to February 2nd; taking the temperature for the 33 days ending this day the average deficiency of daily temperature was $3\frac{3}{4}°$. From the 3rd of February to the 14th of March the weather was mostly mild and occasionally spring-like; the average excess of these 40 days was $4\frac{3}{4}°$ daily; from March 14th to the end of the quarter the weather was very changeable, the temperature being for two and three days together considerably in excess, and then for two or three days much in defect of its average. Upon the last 17 days the temperature was in excess averaging $1\frac{1}{2}°$ daily.

The frost and snow in January stopped all out-door farm work; the mild weather in February melted the snow, and being accompanied by rain caused rivers and streams to overflow and in some cases to destroy a portion of the crops. Field work was all but stopped till towards the end of the month; vegetation was very backward; pastures and grass lands were bare, and the scarcity of fodder was severely felt. Towards the end of February, under the influence of the higher temperature, shrubs, hedges, and early fruit-trees began to bud, and early spring flowers to bloom. All kinds of vegetables were scarce.

During the month of March agricultural operations progressed vigorously; the land was found to be unusually free from insects, and at the end of the quarter a very large breadth of land was under cultivation, but vegetation was still backward, having been checked by the frequent bleak north and east winds. The corn was spoken of as healthy, but forage and vegetables were very scarce.

The mean temperature of January was 33°·2, being 3°·1 lower than the average of 100 years, and lower than in any year back to 1842, when 32°·9 was recorded.

The mean temperature of February was 42°·4, being 3°·9 higher than the average of 100 years, and higher than in 1870 by 6°·2, but lower than in 1869 by 2°·9.

The mean temperature of March was 44°·9, being 4°·0 higher than the average of 100 years, and higher than in the corresponding month in any year back to 1859, when 46°·4 was recorded.

The mean high day temperatures of January were 5°·8 lower, and of February and March 2°·9 and 5°·4 higher than their respective averages.

The mean low night temperatures of January were 4°·2 lower than their averages; and of February and March 3°·5 and 1°·6 higher respectively.

Therefore the month of January was cold, and those of February and March warm both by day and night.

The daily ranges of temperature were less than their respective averages in January and February by 1°·6 and 0°·7 respectively, and greater in March by 3°·7.

The fall of rain was 0·2 in. in excess in January and 0·5 in. in defect in both February and March.

1871. Months.	Temperature of Air. Mean.	Air. Diff. from average of 100 years.	Air. Diff. from average of 30 years.	Evaporation. Mean.	Evaporation. Diff. from average of 30 years.	Dew Point. Mean.	Dew Point. Diff. from average of 30 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 30 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 30 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 30 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	grs.
Jan. -	33·2	−3·1	−5·0	32·0	−4·9	29·7	−5·2	8·1	−1·6	..	0·165	−0·037	2·0	−0·4
Feb. -	42·4	+3·9	+3·2	40·5	+3·0	38·1	+3·2	10·7	−0·7	40·1	0·230	+0·025	2·7	+0·3
Mar. -	44·9	+4·0	+3·5	42·0	+2·9	38·7	+2·5	18·2	+3·7	45·3	0·235	+0·021	2·7	+0·2
Mean -	40·2	+1·6	+0·6	38·2	+0·3	35·5	+0·2	12·3	+0·5	42·7	0·210	+0·003	2·5	0·0

1871. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 30 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 30 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 30 years.	Rain. Amount.	Rain. Diff. from average of 56 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
Jan. -	87	− 1	29·646	−0·106	558	+ 4	2·1	+0·2	260	23	8	0	12·0	34·5
Feb. -	86	+ 1	29·847	+0·051	551	− 2	1·1	−0·5	319	5	22	1	23·0	44·3
Mar. -	79	− 3	29·875	+0·129	549	− 1	1·1	−0·5	282	17	12	2	21·4	44·0
Mean -	84	− 1	29·789	+0·025	553	0	Sum 4·3	Sum −0·7	Mean 287	Sum 45	Sum 42	Sum 3	Lowest 12·0	Highest 44·3

NOTE.—In reading this table it will be borne in mind that the minus sign (−) signifies below the average, and that the plus sign (+) signifies above the average.

E. & S.—500.—5/71.

The mean temperature of the air in the three months ending February, constituting the three winter months, was 36°·4, being 1°·6 lower than the average of 100 years.

The mean readings of the barometer oscillated above and below the average several times during the first few days of January, but on the 13th a rapid fall commenced and reached its minimum, 28°·73, at 9 h. a.m. of the 16th; a steady increase was recorded after this, and with but few interruptions continued till the end of the month; the range of reading for the month was 1·36 in. During February the mean daily readings were principally above the average, the minimum for the month 29·06 in. occurring on the 10th. The range of reading amounted to 1·20 in.

The principal movements of the barometric column during March were as follows:—A decrease from 30·35 in. on the 1st to 29·42 in. on the 6th, an increase to 30·00 in. on the 10th, a decrease to 29·12 in. on the 16th, an increase to 30·15 in. on the 18th, a decrease to 29·59 in. on the 24th, and an increase to 30·28 in. on the 28th.

The range of reading amounted to 1·24 in.

Thunderstorms occurred on the 16th of January at Somerleyton Rectory; and on the 17th at Portsmouth and Weybridge Heath. On the 5th of February at Boston; on the 27th at Somerleyton Rectory; and on the 28th at Wisbech. On the 5th of March at Miltown; on the 8th at Silloth and Carlisle; on the 13th at Stonyhurst; on the 15th at Guernsey; on the 25th at Holkham, Eccles, and Stonyhurst; on the 26th at Nottingham and Hawarden; and on the 30th at Liverpool.

Thunder was heard, but lightning was not seen, on the 7th of January at Park Road Observatory, Halifax; and on the 16th at Osborne and Norwich. On the 5th of February at Park Road Observatory. On the 8th of March at Taunton, Llandudno, and Park Road Observatory; on the 13th at Eccles, Park Road Observatory, and Willow Hall; on the 14th at Park Road Observatory; on the 25th at Wisbech and Hull; and on the 26th at Guernsey, Wisbech, Llandudno, and Stonyhurst.

Lightning was seen, but thunder was not heard, on the 6th of January at Culloden. On the 5th of February at Hawarden and Stonyhurst; and on the 22d at Culloden. On the 8th of March at Hawarden and Eccles; on the 25th at Hawarden, Willow Hall, and Allenheads; and on the 29th at Liverpool.

Solar halos were seen on the 10th of January at Oxford, Willow Hall, and Cockermouth; and on the 22d, 23d, and 27th, at Culloden. On the 11th of February at Oxford and Lampeter; on the 13th at Hawarden, Liverpool and Stonyhurst; and on the 17th at Hawarden. On the 9th of March at Oxford and Park Road Observatory; and on the 14th at Oxford.

Lunar halos were seen on the 1st of January at Hawarden; on the 2d at Stonyhurst and Culloden; on the 4th at Strathfield Turgiss; on the 12th at Eccles; and on the 31st at Guernsey. On the 1st of March at Royston, Wisbech, Stonyhurst, Silloth, and North Shields; on the 4th at Park Road Observatory, Stonyhurst, and North Shields; on the 24th at Allenheads; and on the 30th at Park Road Observatory.

Auroræ Boreales were seen on the 11th, 13th 16th, and 18th of January; on the 12th, 13th, 19th, 21st, 24th, 25th, and 28th of February; and on the 10th, 11th, 16th, 17th, 21st, and 27th of March.

Snow fell on 27 days in January, 10 in February, and 9 in March.

Hail fell on 20 days in January; 8 in February, and 9 in March.

Fog prevailed on 24 days in January, on 22 in February, and 16 in March.

Horse Chesnut, first appearance of leaf buds on the, at Helston on the 18th of February; and at Halifax on the 23d. At Strathfield Turgiss, on the 1st of March; at Llandudno on the 7th; and at Guernsey on the 11th. *In leaf* at Strathfield Turgiss on the 14th of March; at Guernsey on the 26th; at Eastbourne on the 28th; and at Chislehurst on the 30th.

Hawthorn, first appearance of leaf buds on the, at Chislehurst on the 14th of February; at Halifax on the 20th; and at Weybridge on the 21st. At Guernsey on the 1st of March; at Llandudno on the 7th; and at Hull on the 18th. *In leaf* at Helston on the 11th of March; at Halifax on the 20th; at Guernsey on the 26th; at Llandudno on the 27th; and at Eastbourne on the 31st.

Sycamore, first appearance of leaf buds on the, at Weybridge on the 2d of February; at Chislehurst on the 14th, and at Halifax on the 23d. At Strathfield Turgiss on the 6th of March; and at Guernsey on the 26th. *In leaf*, at Halifax on the 26th of March; at Eastbourne on the 27th; and at Chislehurst on the 30th.

Snowdrop in blossom on the 18th of January at Helston; on the 8th of February at Lampeter; on the 10th at Marlborough College; and on the 25th at Culloden.

Peach in blossom on the 4th of March at Helston; on the 9th at Oxford; on the 17th at West Harptre; on the 22d at Wisbech; and on the 26th at Chislehurst.

Plum in blossom on the 20th of March at Strathfield Turgiss; on the 22d at West Harptre; on the 24th at Helston; on the 25th at Oxford and Silloth; on the 26th at Chislehurst; and on the 30th at Weybridge Heath.

Pear in blossom on the 12th of March at Helston; on the 25th at Oxford and Llandudno; and on the 30th at West Harptre.

Cherry in blossom on the 20th of March at Helston; on the 23d at Llandudno; on the 25th at Oxford; on the 26th at Chislehurst; and on the 28th at Weybridge Heath.

The Swallow arrived at Taunton on the 15th of March and at Helston on the 21st.

The Thrush arrived at Culloden on the 15th of February, and at Guernsey on the 28th of March.

The Brimstone Butterfly was seen at Bournemouth on the 10th of February.

January.

Bournemouth.—*T. A. Compton, Esq., M.D.* An extraordinary change of temperature occurred early on the morning of the 5th; at about 6 h. a.m., the reading of the dry-bulb thermometer was 13°·7 Fahrenheit, and by 10 h. a.m. it had risen to 39°.4, a rise of upwards of 25½° in about four hours.

Strathfield Turgiss.—*Rev. C. H. Griffith, M.A.* Between the 18th and 25th a little ploughing was done, but during the severe frost nothing could be attempted on the land but carting manures. Serious damage has been done to swedes and turnips by the intense frost; bulbs are everywhere rotten, a serious matter with flock masters, especially as hay is so scarce and dear.

The young wheat is not so severely damaged by the frost, nor yet the young clover, but vetches on wet lands are very bad. In the gardens every plant of brocoli, cabbage, and cauliflower has been killed by the frost.

The ponds have been frozen so deeply as to kill hundreds of frogs, who could not get deep enough into the mud to escape its effects.

Willow Hall, Halifax.—*L. J. Crossley, Esq.* Although the weather has been so very severe during the past month vegetation has scarcely suffered, even the more delicate shrubs have been well preserved by being covered with snow.

Hawsker.— *Rev. F. W. Stow, M.A.* The frost which began on December 20th still maintains its hold. The ground has never been soft enough for ploughing. The inner harbour was completely frozen over till the 5th, except where the ice was broken by the tide. The ice on the river broke up on the 6th, but on still water it has continued to increase in thickness, and is now about a foot thick. The temperature of the sea is now 38°·5 (February 1st).

Culloden.—*A. Forbes, Esq.* Temperature about 2°·4 above that of the previous month, but still considerably under the average, and 1°·6 below the mean of January 1870. Frost, continued and severe, having penetrated the ground to the depth of 11 inches. The Caledonian canal partly frozen over, and some rivers (such as the Nairn) entirely so.

A great and remarkable depression in the readings of the barometer occurred at 1 h. 15 m. p.m. on the 16th, when the reading was 28·031 in. On the 13th of December 1869 the mercury fell to 28·039 in., or within ·008 in. of the lowest reading on this occasion; but the depression of the 16th is absolutely the greatest that has taken place since the 27th of December 1852, when the extraordinary low reading of 27·872 in. was recorded.

February.

Strathfield Turgiss.—*Rev. C. H. Griffith, M.A.* The severe frosts of the past winter have chiefly injured the wheat plant on heavy soils of the woodland districts where the previous crop has been clover, but the prospect at present is decidedly in favour of the heavy soils with regard to the growing crop of wheat as compared with the various sorts of light land, on nearly all of which a great loss of plant has taken place, some indeed being obliged to be ploughed up and resown with wheat, oats, or barley.

The fine dry weather at the end of the month has been most suitable for ploughing and putting in the various spring crops, the land having been in very excellent working order, and the general work of the farm is in a forward state. Food for farm stock is very scarce, the price of hay and straw is very high, and will yet get higher.

Wisbech.—*Samuel H. Miller, Esq.* On the 27th of this month a horse was killed by lightning at Tyd St. Mary, a village 6 miles north of Wisbech.

Hawsker.—*Rev. F. W. Stow, M.A.* On the whole a fine pleasant month, and the ground, towards the end, was in fine condition for ploughing. A severe storm occurred on the 10th, and very deeply-drifted snow on the 12th, followed by so sudden a change that it was all melted by the 23d, though in many places 6 feet and 8 feet deep. The mean velocity of the wind was 21·8 miles an hour.

Bywell. *Thos. Sopwith, Esq., M.A.* The latter part of the month has been very favourable for ploughing the land.

March.

Strathfield Turgiss.—*Rev. C. H. Griffith, M.A.* The past month has been a very favourable one for agricultural work, which is, in consequence, as fully advanced as usual. On some farms in the heavy districts the sowing of oats has been finished, even where root crops were grown, as the deficiency in this crop has enabled the feeding off to be completed early. Complaints of continued loss of plant in the growing wheat crop are still made, so that with the loss from frost, and now from wireworm, the prospect as regards this cereal is not satisfactory on most light soils, but on the heavy woodland soils there has been much less injury, although the plant is backward.

The clover of last year's sowing is very backward, and if mown at all will be late, so that hay will be as high priced as at present or even higher. Winter vetches are strong and early.

The recent cold winds and low temperature have much checked vegetation, indeed it has been a trying winter for farmers. Wheat hoeing has already commenced, so that all will soon be in full work. Pear, apple, and other garden fruit trees seem to have much more bloom buds than usual.

Cockermouth.—*Henry Dodgson, Esq., M.D.* A slight shock of earthquake was felt here at a little after 11 o'clock on the night of the 17th instant. It was not so severe as to cause any damage, although in a few instances articles of furniture were displaced or thrown down.

North Shields.—*Robert Spence, Esq.* A shock which is said to have been an earthquake was noticed about 10 minutes past 11 o'clock p.m. on the 17th. We were moving about at the time and thus did not notice the oscillation, but the windows rattled very clearly. My sister living in Newcastle was roused from sleep by the shaking of the bed. Two of our clerks living there also felt the shock clearly, and another clerk living in Gateshead was awakened by all his bells ringing; a small glass ornament was thrown down and broken in one of his rooms.

Bywell.— *Thomas Sopwith, Esq., M.A.* — The temperature of the month has been very variable, field work is well forward, grass is also springing well. Lambs are plentiful, and if no severe weather sets in they will do well.

Meteorological Table, Quarter ending March 31st, 1871.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING MARCH 31st, 1871.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the fifth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Months.	Pressure of Atmosphere in Month: Mean.	Pressure: Range.	Temperature of Air in Month: Highest.	Lowest.	Range.	Mean: Of all Highest.	Mean: Of all Lowest.	Mean: Daily Range.	Mean Temperature: Air.	Mean Temperature: Dew Point.	Vapour: Elastic Force.	Vapour in a cubic foot of Air: Mean.	Vapour: Short of Saturation.	Mean Degree of Humidity. Sat^n. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer: Maximum in Rays of Sun.	Minimum on Grass.	Wind: Estimated Strength.	Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain: Number of Days it fell.	Amount collected.
	feet		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.R.C.P., F.M.S.	204	Jan.	29·590	1·312	49·0	28·0	21·0	41·7	35·1	6·6	38·3	33·4	·191	2·2	0·5	83	551	—	—	1·6	7	6	9	9	4·4	6·6	24	5·91
		Feb.	29·844	1·156	55·0	33·0	22·0	48·8	41·6	7·2	44·8	42·0	·267	3·1	0·3	90	548	—	—	1·6	3	4	11	10	4·3	6·0	17	2·05
		Mar.	29·835	0·950	60·5	35·5	25·0	50·8	42·0	8·8	45·4	40·9	·256	2·9	0·6	85	547	—	—	1·6	7	8	9	7	4·2	4·9	7	1·13
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	103	Jan.	29·729	1·400	52·0	26·0	26·0	45·8	37·3	8·5	41·1	35·5	·208	2·4	0·6	81	550	50·6	35·0	2·4	10	7	5	9	—	6·5	22	4·95
		Feb.	29·954	1·103	57·0	33·0	24·0	52·3	43·2	9·1	47·7	41·9	·266	3·1	0·7	81	547	62·0	40·9	2·3	4	3	7	14	6·3	6·7	14	1·67
		Mar.	29·960	1·150	65·0	32·0	33·0	55·6	42·5	13·1	48·4	41·1	·258	2·9	0·9	76	546	76·1	38·4	2·7	8	10	6	7	4·9	4·2	8	1·14
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	Jan.	29·789	1·419	51·0	18·0	33·0	44·0	34·5	9·5	38·9	35·9	·211	2·5	0·3	90	554	—	—	2·2	10	7	6	8	—	7·4	20	4·29
		Feb.	30·001	1·027	57·0	31·0	26·0	51·5	43·4	8·1	46·6	43·2	·279	3·2	0·5	89	549	—	—	2·6	4	3	8	13	—	7·7	18	2·19
		Mar.	30·012	1·097	65·0	30·0	35·0	54·0	40·9	13·1	47·2	41·5	·262	3·0	0·7	81	548	—	—	2·9	8	9	7	7	—	6·1	10	1·57
SIDMOUTH (Devon), J. Ingleby Mackenzie, Esq., M.B., F.M.S.	30	Jan.	29·786	1·408	46·4	23·3	23·1	40·8	31·9	8·9	36·6	32·0	·181	2·1	0·5	84	556	—	—	1·1	9	9	3	10	—	3·9	17	3·20
		Feb.	30·012	1·210	56·2	29·5	26·7	49·5	39·5	10·0	44·0	42·2	·269	3·1	0·2	94	552	—	—	0·9	8	2	6	12	—	5·5	19	2·19
		Mar.	30·030	1·038	61·0	30·8	30·2	50·3	40·4	9·9	44·6	41·6	·263	3·0	0·4	89	551	—	—	1·3	6	7	8	10	—	4·5	9	0·99
EASTBOURNE (Sussex), Miss W. L. Hall.	12	Jan.	29·819	1·274	46·8	21·8	25·0	39·8	30·3	9·5	35·2	32·9	·187	2·2	0·3	91	559	47·9	25·0	0·6	8	6	10	7	5·2	—	22	2·60
		Feb.	30·043	1·014	51·1	26·6	24·5	46·8	38·8	8·0	42·9	40·5	·252	3·0	0·2	91	554	67·0	33·4	0·5	2	3	10	13	3·6	—	17	1·71
VENTNOR (National Consumption Hospital), Isle of Wight, Arthur D. Parsons, Esq., M.R.C.S.E.		Jan.	29·777	1·140	48·2	24·2	24·0	40·8	32·4	8·4	38·8	34·7	·201	2·4	0·2	93	556	—	—	—	—	—	—	—	—	—	16	3·20
		Feb.	29·990	0·948	52·9	27·1	25·8	48·9	39·9	9·0	43·6	41·0	·257	3·0	0·3	90	552	—	—	—	—	—	—	—	6·0	—	16	1·54
		Mar.	30·020	0·705	67·3	31·5	35·8	54·1	40·7	13·4	46·3	43·6	·284	3·2	0·4	91	549	—	—	—	—	—	—	—	6·0	—	11	0·93
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	Jan.	29·629	1·314	46·8	18·7	28·1	39·2	30·8	8·4	35·0	34·3	·198	2·8	0·1	97	555	48·5	29·0	0·1	10	5	9	7	5·7	8·3	15	3·30
		Feb.	29·851	1·222	54·7	24·8	29·9	48·6	37·9	10·7	43·0	41·7	·264	3·0	0·2	95	550	70·6	36·6	0·2	2	3	11	12	—	8·4	14	1·53
		Mar.	29·864	1·114	63·5	29·7	33·8	53·1	38·4	14·7	45·0	42·8	·275	3·1	0·3	92	548	86·4	35·7	0·2	6	8	9	8	—	5·2	10	1·24
BOURNEMOUTH (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	128	Jan.	29·699	1·460	46·4	13·7	32·7	38·9	31·1	7·8	35·1	31·5	·177	2·1	0·3	86	557	49·0	28·2	—	14	5	5	7	3·2	5·7	15	2·54
		Feb.	29·924	1·100	55·1	27·7	27·4	47·6	39·0	8·6	43·1	40·7	·254	2·9	0·3	91	552	75·0	37·1	—	4	3	10	11	3·2	6·5	19	1·61
		Mar.	29·935	1·080	60·7	29·7	31·0	50·9	38·9	12·0	44·5	39·5	·242	2·8	0·6	83	550	90·0	35·1	—	8	8	7	8	4·9	3·8	11	1·34
PORTSMOUTH, William C. Ellis, Esq., F.M.S.	16	Jan.	29·819	1·318	48·2	19·2	29·0	41·4	28·4	13·0	35·1	32·1	·182	2·1	0·3	88	559	48·5	22·8	0·7	11	6	8	6	2·0	8·4	14	2·59
		Feb.	30·029	1·278	57·2	24·2	33·0	52·0	35·5	16·5	43·0	39·0	·238	2·7	0·5	86	554	67·6	28·7	0·7	3	5	10	10	1·5	7·6	16	0·99
WORTHING (Sussex), W. J. Harris, Esq. M.R.C.S.E., L.S.A., F.M.S.	31	Jan.	29·778	1·285	45·1	20·9	24·2	39·1	30·7	8·4	34·9	32·1	·182	2·1	0·3	89	558	57·2	27·5	1·0	10	7	8	6	4·1	7·8	18	3·36
		Feb.	29·997	1·265	53·4	23·2	27·2	46·2	38·2	8·0	41·7	39·9	·246	2·9	0·2	94	554	81·5	35·5	1·0	4	3	8	13	4·0	8·0	16	1·58
		Mar.	30·015	1·183	62·7	30·4	32·3	50·9	40·0	10·9	44·6	39·6	·243	2·8	0·6	83	551	108·1	35·2	1·1	6	7	8	10	4·4	4·6	11	0·84
TAUNTON (Somerset), Rev. W. Tuckwell, F.M.S.	80	Jan.	29·704	1·524	47·5	4·0	43·5	39·8	29·0	10·8	35·0	31·4	·176	2·1	0·3	86	557	44·0	28·6	0·3	6	6	7	12	4·0	6·0	16	3·29
		Feb.	29·943	1·252	58·4	29·0	29·4	50·5	39·5	11·0	44·9	40·8	·255	2·9	0·5	86	550	57·1	35·1	0·2	6	4	8	10	6·0	6·5	13	1·06
		Mar.	29·950	1·069	69·8	28·0	41·8	55·0	37·6	17·4	45·5	39·1	·238	2·8	0·8	79	549	64·6	31·3	0·3	9	8	6	8	6·0	5·0	9	1·43
WILTON HOUSE, near Salisbury, T. Challis, Esq.	186	Jan.	29·617	1·396	47·5	9·5	38·0	39·0	26·8	12·2	33·2	30·9	·173	2·1	0·2	91	557	60·4	25·3	1·3	7	12	7	5	5·1	7·2	15	2·89
		Feb.	29·836	1·066	57·5	27·5	30·0	50·1	36·6	13·5	43·2	40·6	·253	2·9	0·3	90	549	75·9	35·4	1·5	6	3	11	8	4·8	6·3	19	1·82
		Mar.	29·844	1·134	69·2	25·5	43·7	56·3	35·2	21·1	44·7	40·6	·253	2·9	0·5	86	548	98·0	33·1	1·6	8	8	7	8	4·4	4·0	10	1·61
BARNSTAPLE (Devon), [illegible]	[illegible]	Jan.	29·755	1·450	50·0	14·0	36·0	41·3	32·4	8·9	37·0	34·1	·196	2·3	0·3	89	555	—	—	1·1	8	11	7	5	—	4·9	16	3·78
		Feb.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5·8	22	2·68
		Mar.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	1·74
ALDERSHOT CAMP (Hants), John Arnold, M.S.C., F.M.S.	325	Jan.	29·444	1·306	46·6	17·0	29·6	37·2	28·6	8·6	33·8	32·5	·184	2·0	0·2	95	553	49·6	25·9	1·4	8	7	10	6	2·8	8·5	18	2·41
		Feb.	29·649	1·208	53·8	25·8	30·0	48·3	36·7	11·6	42·0	39·6	·243	2·8	0·3	91	548	69·2	33·8	1·4	3	4	9	12	2·5	8·5	15	1·46
		Mar.	29·661	1·196	70·0	28·0	42·0	55·5	36·5	19·0	45·2	37·9	·228	2·6	0·8	76	544	77·4	33·3	1·3	7	5	11	8	2·4	6·5	14	1·50
WEST HARPTRE VICARAGE (near Bristol), Rev. R. Tyas, M.A., LL.D., F.M.S.	273	Jan.	29·527	1·418	46·1	19·4	26·7	37·6	29·8	7·8	33·7	30·9	·173	2·0	0·3	89	555	49·4	20·2	0·5	6	5	13	7	2·7	7·3	14	2·95
		Feb.	29·729	1·065	55·2	27·0	28·2	49·1	38·7	10·4	44·0	40·3	·250	2·9	0·4	86	547	77·8	31·3	1·3	1	4	9	14	5·4	7·2	17	2·30
		Mar.	29·755	1·076	65·3	28·8	36·5	54·2	36·8	17·4	45·1	39·3	·240	2·8	0·7	80	546	103·1	25·4	1·0	4	6	10	11	2·6	6·1	10	2·10
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	Jan.	29·608	1·339	44·3	2·7	41·6	37·1	27·0	10·1	32·3	31·1	·174	2·0	0·1	95	558	56·0	25·1	4·1	7	9	8	7	3·7	8·3	12	1·89
		Feb.	29·813	1·254	57·3	25·6	31·7	48·0	36·9	11·1	42·3	39·4	·242	2·8	0·4	90	550	76·2	33·1	6·2	3	4	8	13	8·0	8·4	14	1·22
		Mar.	29·840	1·183	70·0	25·3	44·7	54·9	35·4	19·5	44·4	37·9	·228	2·6	0·7	77	548	100·9	29·2	6·1	6	6	9	10	4·6	4·5	7	1·03
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	Jan.	29·692	1·371	43·8	12·5	31·3	36·8	28·9	7·9	32·8	29·8	·166	1·9	0·2	88	559	48·1	28·6	0·9	8	9	10	4	1·5	7·4	17	2·22
		Feb.	29·900	0·768	56·5	25·0	31·5	49·8	37·9	11·9	43·8	40·3	·250	2·9	0·4	87	550	70·3	37·1	1·0	4	3	11	10	2·3	7·5	11	0·97
		Mar.	29·915	1·166	71·0	26·5	44·5	55·6	35·8	19·8	44·3	39·7	·244	2·8	0·5	84	550	90·9	33·1	0·8	7	8	10	6	2·1	5·5	10	1·31
BATH ROYAL LITERARY AND SCIENTIFIC INST. (Somerset), Chas. P. Russell, Esq.	86	Jan.	29·712	1·500	47·7	12·4	35·3	38·9	31·1	7·8	34·9	31·6	·178	2·0	0·4	87	557	—	—	1·2	8	9	5	9	4·5	8·4	18	2·28
MARLBOROUGH COLLEGE (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	453	Jan.	29·336	1·392	46·1	6·0	40·1	36·4	26·6	9·8	31·6	30·7	·172	2·1	0·1	98	554	51·5	25·3	—	8	8	9	6	4·8	8·1	15	2·92
		Feb.	29·536	1·228	57·6	25·3	32·3	47·4	37·0	10·4	41·8	39·6	·243	2·9	0·2	93	546	73·4	34·8	—	6	3	7	12	5·5	9·0	16	1·56
		Mar.	29·565	1·129	67·7	27·4	40·3	52·5	36·0	16·5	43·4	38·2	·231	2·7	0·6	81	545	97·2	33·1	—	6	7	9	9	4·6	6·8	11	1·35
CHISLEHURST (Heathfield Lodge, Kent), Francis Nunes, Esq., M.A., F.M.S.	295	Jan.	29·465	1·350	45·7	14·3	31·4	37·2	27·5	9·7	32·4	29·6	·164	1·9	0·2	89	555	56·3	26·1	—	7	8	10	6	—	—	16	2·42
		Feb.	29·700	0·926	55·8	23·2	32·6	48·1	36·3	11·8	41·7	39·5	·242	2·8	0·2	92	550	78·7	33·8	—	2	4	10	12	—	—	13	1·09
		Mar.	29·729	1·221	71·7	27·6	44·1	54·8	35·9	18·9	44·4	38·3	·231	2·7	0·7	79	546	106·0	31·6	—	5	6	9	11	—	—	16	1·37
ROYAL OBSERVATORY (Kent), The Astronomer Royal.	160	Jan.	29·646	1·359	46·7	18·3	28·4	37·4	29·3	8·1	33·2	29·7	·165	2·0	0·2	87	558	50·2	25·6	0·3	7	8	9	7	—	8·0	18	2·05
		Feb.	29·847	1·195	57·0	25·0	32·0	48·3	37·5	10·8	42·4	38·1	·230	2·7	0·5	86	551	70·3	33·1	0·5	2	4	11	11	—	7·8	14	1·09
		Mar.	29·875	1·235	70·9	28·9	42·0	55·0	36·7	18·2	44·9	38·7	·235	2·7	0·7	79	549	95·2	30·1	0·4	6	6	11	8	—	5·7	10	1·10
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.A.S., F.M.S.	150	Jan.	29·662	1·371	47·0	11·8	35·2	38·4	29·2	9·2	34·1	32·2	·182	2·2	0·1	92	557	43·1	26·4	1·1	8	7	8	8	—	8·1	19	1·83
		Feb.	29·880	1·103	56·1	27·3	28·8	48·5	38·2	10·3	43·2	41·0	·257	2·9	0·3	92	550	54·4	33·7	1·9	3	3	11	11	—	8·0	10	0·98
		Mar.	29·895	1·064	70·0	29·3	40·7	55·4	37·5	17·9	45·6	40·9	·256	2·9	0·6	84	548	65·5	31·9	1·9	8	5	9	9	—	6·0	6	1·83
MARYLEBONE (London), Henry E. Segrave, Esq., F.M.S.	146	Jan.	29·666	1·366	45·5	17·7	27·8	37·6	28·9	8·7	33·6	31·4	·176	2·1	0·2	90	561	—	—	—	7	9	6	9	—	8·2	17	2·38
		Feb.	29·866	1·009	56·0	22·6	33·4	48·3	36·5	11·8	43·0	38·6	·234	2·7	0·5	84	553	—	—	—	3	4	8	13	—	8·7	18	1·48
		Mar.	29·889	1·209	72·0	28·0	44·0	55·7	36·8	18·9	45·7	39·6	·243	2·8	0·8	79	551	—	—	—	5	6	10	10	—	6·9	12	1·10
CAMDEN TOWN (London), G. J. Symons, Esq., F.M.S.	123	Jan.	29·698	1·399	45·2	19·7	25·5	37·4	29·5	7·9	33·8	32·5	·184	2·1	0·2	95	558	41·6	27·4	—	9	6	9	7	—	8·4	17	1·99
		Feb.	29·901	0·978	56·2	25·8	30·4	48·1	37·5	10·6	42·9	39·2	·239	2·8	0·4	86	551	58·1	35·2	—	4	4	9	11	—	7·5	14	1·27
		Mar.	29·907	1·125	68·7	29·0	39·7	54·7	37·3	17·4	45·4	40·0	·247	2·8	0·6	82	549	80·0	34·2	—	7	10	7	7	—	5·5	12	1·19
OXFORD (Oxfordshire), Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	Jan.	29·588	1·409	46·4	17·2	29·2	36·9	29·8	7·1	33·4	30·0	·167	2·0	0·2	87	557	58·0	27·5	0·9	9	7	10	5	2·2	8·0	14	1·11
		Feb.	29·785	1·208	55·8	26·9	28·9	48·2	38·9	9·3	43·4	38·8	·236	2·8	0·5	84	549	—	34·8	1·1	4	3	11	10	2·5	8·5	17	0·97
		Mar.	29·802	1·051	65·7	28·1	37·6	53·4	37·7	15·7	45·6	37·8	·228	2·6	0·9	74	546	98·5	31·4	1·4	6	4	11	10	2·8	6·5	10	0·95
GLOUCESTER (Gloucester), E. Toller, Esq., M.D.	100	Jan.	29·793	1·512	45·5	6·0	39·5	38·1	29·6	8·5	33·7	29·8	·166	1·9	0·4	86	560	49·4	24·5	0·6	8	8	6	9	0·9	5·8	7	1·28
		Feb.	29·931	1·178	63·0	28·0	35·0	51·0	38·9	12·1	44·2	38·1	·230	2·7	0·7	79	551	69·2	34·0	0·7	4	3	8	13	0·8	8·0	14	1·35
		Mar.	29·966	1·074	73·0	27·0	46·0	58·5	38·2	20·3	46·4	40·2	·249	2·9	0·7	80	549	94·9	34·0	0·7	7	5	8	11	0·7	4·5	9	1·26
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S. F.M.S.	261	Jan.	29·539	1·362	45·9	15·7	30·2	36·3	28·3	8·0	32·3	31·1	·174	2·0	0·1	95	557	—	—	—	6	6	13	6	—	7·3	14	0·67
		Feb.	29·733	1·066	55·8	22·8	33·0	47·4	36·3	11·1	41·7	38·3	·231	2·7	0·4	89	550	—	—	—	2	4	10	12	—	7·7	12	1·30
		Mar.	29·766	1·005	72·2	27·3	44·9	55·9	36·0	19·9	44·8	39·4	·241	2·8	0·6	82	547	—	—	—	6	3	12	10	—	5·1	10	1·32
CARDINGTON (near Bedford), J. MacLaren, Esq., F.M.S., Assist. to S.C. Whitbread, Esq., F.R.S., F.M.S.	100	Jan.	29·733	1·500	44·0	11·0	33·0	35·8	27·5	8·3	31·9	28·7	·158	1·9	0·2	87	561	36·2	23·1	0·7	9	6	11	5	—	7·5	11	0·90
		Feb.	29·894	1·080	57·0	25·4	31·6	47·7	36·5	11·2	42·0	38·9	·237	2·7	0·4	89	552	53·1	31·5	1·1	5	3	10	10	—	8·5	10	1·10
		Mar.	29·946	1·080	67·0	26·4	40·6	54·1	35·3	18·8	44·7	38·6	·234	2·7	0·7	79	550	70·5	28·1	0·9	6	5	11	9	—	5·0	5	1·30
ST. DAVID'S COLLEGE, LAMPETER (Cardiganshire), Rev. Prof. J. Matthews, M.A.	420	Feb.	29·534	1·116	55·0	26·8	28·2	48·8	39·0	9·8	43·3	41·1	·258	3·0	0·3	92	544	65·0	—	0·8	2	4	12	10	6·5	9·0	18	3·05
		Mar.	29·562	1·134	71·4	26·0	45·4	55·1	38·1	17·0	45·6	38·9	·237	2·7	0·8	78	542	91·7	—	0·9	5	6	12	8	5·7	6·3	12	2·63
LEAMINGTON (Warwickshire), S. Urwick Jones, Esq., F.M.S.	195	Jan.	29·608	1·480	45·0	10·8	34·2	36·4	28·4	8·0	32·5	30·1	·168	2·0	0·2	91	558	—	—	0·7	9	11	5	6	—	—	10	0·85
		Feb.	29·774	1·106	54·6	27·0	27·6	47·7	37·9	9·8	42·5	40·1	·253	2·9	0·3	91	549	—	—	0·8	3	4	6	15	—	8·8	14	1·01
		Mar.	29·844	1·050	67·3	28·2	39·1	54·0	37·3	16·7	44·4	39·8	·245	2·8	0·5	84	548	—	—	0·8	6	11	6	8	—	—	9	1·10
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	30	Jan.	29·782	1·378	47·4	20·1	27·3	37·4	27·8	9·6	32·6	31·8	·179	2·0	0·1	98	561	56·6	22·2	0·9	5	7	11	8	7·9	7·2	8	1·01
		Feb.	29·945	1·034	56·5	14·4	42·1	46·8	34·5	12·3	40·5	39·4	·241	2·9	0·1	96	555	73·2	29·2	1·1	2	4	10	12	8·2	7·5	11	1·93
		Mar.	29·997	1·032	70·4	27·5	42·9	53·9	35·3	18·6	43·8	40·3	·250	2·9	0·4	87	552	—	28·4	1·0	4	8	12	7	8·0	4·4	11	1·13

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1871. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
NORWICH (Norfolk), C. M. Gibson, Esq., F.M.S.	42	Jan.	29·782	1·430	43·2	18·0	25·2	35·7	27·9	7·8	31·8	25·8	·140	1·5	0·6	78	562	—	—	—	4	8	13	6	—	—	7	0·60
		Feb.	29·945	1·020	55·0	20·0	35·0	45·7	35·2	10·5	40·4	37·7	·226	2·6	0·3	90	555	—	—	—	2	6	10	10	—	—	11	2·13
		Mar.	29·990	1·024	68·2	28·5	39·7	52·3	35·8	16·5	43·6	37·5	·225	2·6	0·7	79	552	—	—	—	5	4	13	9	—	—	9	0·89
WISBECH (Cambridgeshire), S. H. Miller, Esq., F.R.A.S., F.M.S.	14	Jan.	29·798	1·104	44·2	8·5	35·7	36·3	27·8	8·5	31·8	28·9	·159	1·9	0·2	88	562	52·8	25·7	0·4	6	9	8	8	2·3	7·4	13	0·87
		Feb.	29·960	1·042	57·0	24·3	32·7	47·7	37·2	10·5	42·0	39·1	·238	2·7	0·4	90	553	69·7	35·1	0·6	3	7	8	10	3·7	8·1	12	2·07
		Mar.	30·008	1·056	69·8	29·0	40·8	55·4	36·7	18·7	45·7	39·3	·240	2·8	0·8	79	550	95·9	33·1	0·7	5	7	10	9	3·1	4·8	12	1·15
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Monia Dalton, Esq., M.D.	100	Jan.	29·679	1·716	51·4	23·0	28·4	40·1	31·8	8·3	36·1	32·1	·182	2·1	0·4	86	555	—	—	0·9	4	11	2	14	—	6·2	16	1·87
		Feb.	29·827	0·990	58·5	28·7	29·8	49·6	39·0	10·6	44·3	39·9	·246	2·8	0·5	85	548	—	—	0·9	2	2	3	21	—	7·1	15	2·02
		Mar.	29·867	1·174	67·6	32·5	35·1	54·3	41·0	13·3	47·1	39·7	·244	2·8	0·9	76	546	—	—	1·0	4	5	3	19	—	5·5	9	0·77
DERBY (Derbyshire), John Davis, Esq.	174	Jan.	29·595	1·514	45·0	10·0	35·0	36·9	27·6	9·3	33·1	29·0	·160	1·9	0·3	84	557	—	—	—	7	8	6	10	—	—	12	0·82
		Feb.	29·734	1·053	58·0	27·0	31·0	48·2	37·3	10·9	43·1	40·0	·247	2·8	0·4	89	548	—	—	—	3	6	7	12	—	—	14	1·51
		Mar.	29·793	0·960	66·0	27·0	39·0	53·3	36·7	16·6	45·8	37·0	·220	2·6	1·0	72	546	—	—	—	6	4	9	12	—	—	12	1·15
NOTTINGHAM (Notts), M. O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	241	Jan.	29·530	1·518	44·7	11·0	33·7	35·9	26·9	9·0	31·6	28·6	·157	1·8	0·3	87	557	49·7	20·3	0·3	9	6	9	7	0·7	7·5	10	0·80
		Feb.	29·677	1·058	56·2	25·8	30·4	47·5	36·9	10·6	42·0	39·6	·243	2·8	0·3	91	548	68·4	30·0	0·7	5	3	7	13	1·5	8·1	12	1·40
		Mar.	29·748	0·986	70·4	25·1	45·3	54·7	36·7	18·0	44·7	39·7	·245	2·8	0·5	83	546	89·5	28·3	0·5	6	5	6	14	1·2	5·5	11	1·49
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	39	Jan.	29·772	1·502	50·2	3·5	46·7	37·0	26·4	10·6	32·2	28·4	·156	1·9	0·3	85	561	45·1	23·1	1·0	6	7	13	5	—	7·4	9	0·50
		Feb.	29·936	0·946	57·2	19·8	37·4	46·4	35·2	11·2	41·0	36·9	·219	2·5	0·5	86	554	69·1	31·5	1·6	5	5	11	7	—	8·3	6	1·50
		Mar.	29·981	1·018	66·4	26·5	39·9	52·1	35·9	16·2	44·4	36·8	·218	2·5	0·8	74	551	95·2	30·2	1·5	7	3	12	9	—	5·1	5	0·68
BOSTON (Lincolnshire), A. Mercer Adam, Esq., M.D., F.M.S.	20	Jan.	29·782	1·538	48·0	4·0	44·0	35·8	27·4	8·4	31·6	29·0	·160	1·9	0·2	89	562	40·8	24·1	1·4	3	7	10	11	1·2	7·8	16	0·89
		Feb.	29·922	0·968	56·0	24·2	31·8	46·6	36·6	10·0	41·4	38·7	·235	2·7	0·3	91	553	55·0	33·8	1·6	4	3	7	14	1·3	6·8	12	1·61
HAWARDEN (Flint), T. Moffat, Esq., M.D., F.R.A.S., F.G.S.	270	Jan.	29·507	1·638	49·0	13·0	36·0	36·7	29·1	7·6	32·9	30·9	·173	1·9	0·3	93	556	42·8	14·7	1·9	5	7	11	8	1·0	6·4	11	2·29
		Feb.	29·614	1·390	56·0	28·0	28·0	47·7	28·9	18·8	39·5	36·1	·213	2·5	0·4	88	550	73·1	23·6	2·6	5	3	10	10	1·7	8·0	17	2·07
		Mar.	29·705	1·120	66·0	30·0	36·0	51·6	40·2	11·4	44·9	39·7	·244	2·8	0·6	83	545	90·0	22·0	2·7	9	5	9	8	1·6	6·3	12	1·25
LIVERPOOL OBSERVATORY, John Hartnup, Esq., F.R.A.S.	197	Jan.	29·580	1·626	49·9	17·0	32·0	37·7	29·0	8·7	33·5	29·6	·164	2·0	0·3	86	556	—	—	1·1	5	11	9	6	—	6·6	11	1·31
		Feb.	29·722	1·307	54·3	27·9	26·4	46·7	36·5	8·2	42·5	38·6	·234	2·7	0·5	86	548	—	—	1·6	2	6	8	12	—	7·7	14	1·53
		Mar.	29·781	1·126	65·7	30·3	35·4	52·2	39·3	12·9	45·0	37·5	·225	2·6	0·8	75	547	—	—	1·4	4	6	9	12	—	5·3	13	0·86
ECCLES, near Manchester, T. Mackereth, Esq., F.R.A.S., F.M.S.	145	Jan.	29·632	1·610	47·0	10·9	36·1	37·1	26·1	11·0	32·2	28·7	·158	1·9	0·3	86	559	39·4	21·0	0·4	5	11	10	5	2·2	6·8	10	1·41
		Feb.	29·779	1·200	55·5	26·2	29·3	47·4	36·8	10·6	42·5	39·0	·238	2·7	0·4	88	550	51·5	35·0	0·8	2	5	9	12	3·9	7·7	16	2·93
		Mar.	29·832	1·078	72·9	19·9	53·0	53·6	36·2	17·4	44·6	39·2	·239	2·8	0·6	81	548	63·1	29·9	0·8	6	7	10	8	3·2	5·3	9	1·33
WILLOW HALL OBSERVATORY (Halifax, Yorkshire), Louis J. Crossley, Esq., F.M.S.	630	Jan.	29·087	1·622	45·5	9·0	36·5	34·8	24·9	9·9	30·9	27·6	·151	1·8	0·3	87	550	58·5	22·8	1·1	6	7	9	9	1·9	6·9	17	1·50
		Feb.	29·234	1·042	52·0	21·5	30·5	44·7	34·3	10·4	39·1	38·0	·229	2·6	0·1	96	543	68·8	33·2	1·0	2	5	9	12	3·9	8·9	22	2·59
		Mar.	29·298	1·061	64·5	25·5	39·0	49·8	38·2	11·6	42·9	34·5	·199	2·3	0·9	72	540	94·3	31·1	1·2	5	4	11	11	2·5	6·5	14	1·94
PARK ROAD OBSERVATORY (Halifax, Yorkshire), Edward Crossley, Esq., F.R.A.S. and Joseph Gledhill, Esq., F.G.S., F.M.S.	618	Jan.	29·095	1·584	43·0	9·0	34·0	35·4	27·3	8·1	31·4	28·7	·158	1·8	0·3	88	549	47·4	19·7	0·5	4	9	6	12	—	7·1	10	1·91
		Feb.	29·273	1·040	52·5	23·5	29·0	43·5	35·2	8·3	39·0	37·2	·222	2·6	0·2	94	544	62·7	32·5	0·9	2	8	6	12	—	8·6	18	5·13
		Mar.	29·283	1·026	64·0	22·0	42·0	50·5	35·2	15·3	42·2	37·1	·221	2·6	0·6	83	541	83·7	28·6	0·7	4	6	9	12	—	6·5	14	1·77
THE PARK, HULL (Yorkshire), Mr. E. Peak.	12	Jan.	29·795	1·620	42·0	5·0	37·0	35·6	24·2	11·4	31·3	27·1	·148	1·7	0·4	83	563	45·7	23·9	—	—	—	—	—	1·5	—	17	0·90
		Feb.	29·923	0·918	55·0	22·0	33·0	45·9	34·2	11·7	40·6	35·4	·207	2·4	0·6	82	554	58·0	34·3	—	—	—	—	—	2·0	—	12	1·79
		Mar.	29·990	1·082	67·0	23·0	44·0	52·7	32·8	19·9	42·7	37·9	·228	2·6	0·5	84	553	75·8	32·4	—	—	—	—	—	3·2	—	11	0·91
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.A.S., F.M.S.	381	Jan.	29·330	1·688	47·4	16·6	30·8	36·9	27·5	9·4	32·0	28·0	·153	1·8	0·3	84	554	60·1	24·5	—	8	11	7	5	—	6·6	20	1·73
		Feb.	29·500	1·186	51·3	27·8	23·5	45·6	37·7	7·9	41·3	38·3	·231	2·7	0·4	90	546	71·5	35·2	—	3	5	10	10	—	8·6	24	4·55
		Mar.	29·558	1·131	68·0	21·7	46·3	52·2	37·8	14·4	44·0	39·4	·241	2·8	0·5	83	544	99·8	34·5	—	5	4	12	10	—	6·5	21	1·97

Note.—Hawarden.—The afternoon observations taken at this station during the months of January and February are not included in the above results.

Names of Stations and Observers.	Height of Station above Sea Level.	Months.	Pressure Mean.	Pressure Range.	Highest.	Lowest.	Range.	Of all Highest.	Of all Lowest.	Daily Range.	Air.	Dew Point.	Elastic Force.	Vapour Mean.	Short of Saturation.	Humidity.	Weight of cubic foot of Air.	Maximum in Rays of Sun.	Minimum on Grass.	Estimated Strength.	N.	E.	S.	W.	Ozone.	Cloud.	Number of Days it fell.	Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S., F.M.S.	366	Jan.	29·385	1·616	45·8	6·7	39·1	35·7	27·5	8·2	32·5	28·0	·153	1·8	0·4	84	554	42·6	—	1·3	7	5	6	8	—	7·7	7	0·75
		Feb.	29·544	1·082	54·4	26·2	28·2	46·5	37·3	9·2	41·9	36·7	·218	2·5	0·6	83	546	56·2	—	1·8	2	5	4	11	—	1·8	11	1·72
		Mar.	29·593	1·052	63·0	26·6	36·4	51·6	37·3	14·3	43·2	36·6	·217	2·5	0·7	78	545	71·9	—	1·1	8	4	5	10	—	6·3	9	0·89
OTLEY (Yorkshire), H. W. Thorns, Esq.	205	Jan.	29·532	1·614	46·0	6·7	39·3	35·3	28·6	6·7	31·9	28·9	·159	1·9	0·2	88	557	—	—	1·0	2	12	1	16	—	7·9	?	?
		Feb.	29·698	0·746	52·0	27·5	24·5	44·8	38·0	6·8	41·0	37·6	·225	2·6	0·4	88	550	—	—	1·6	0	13	3	12	—	8·3	14	4·07
YORK (Yorkshire), Fielden Thorpe, Esq.	13	Feb.	29·836	0·921	56·0	27·5	28·5	46·3	39·4	6·9	41·8	40·3	·250	3·0	0·2	94	551	—	—	—	3	6	10	9	—	—	14	2·50
		Mar.	29·900	1·090	64·5	29·0	35·5	51·2	39·6	11·6	44·2	39·8	·246	2·8	0·5	84	550	—	—	—	4	6	12	9	—	—	12	1·10
HAWSKER (near Whitby, Yorkshire), Rev. F. W. Stow, M.A., F.M.S.	341	Jan.	29·399	1·635	42·8	16·5	26·3	35·6	27·4	8·2	31·6	27·2	·148	1·7	0·4	83	555	62·4	22·5	—	3	9	11	8	8·1	6·7	11	1·75
		Feb.	29·520	0·884	54·0	23·6	30·4	44·3	35·8	8·5	40·0	35·9	·211	2·4	0·5	86	548	79·1	32·2	2·1	2	5	10	11	8·6	8·2	13	2·23
		Mar.	29·589	1·174	64·4	26·3	38·1	50·8	37·1	13·7	43·5	37·0	·220	2·6	0·7	78	545	94·8	31·4	—	5	3	12	11	8·5	5·3	11	1·11
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.R.A.S., F.M.S.	148	Jan.	29·585	1·798	47·8	10·5	37·3	39·3	29·2	10·1	33·7	30·6	·171	2·0	0·3	83	556	41·2	22·9	0·7	6	6	9	10	2·5	5·1	12	3·98
		Feb.	29·702	1·051	53·9	21·9	32·0	46·6	38·5	8·1	42·5	39·6	·243	2·8	0·3	90	548	57·0	32·5	0·6	2	5	13	8	3·7	7·8	19	3·52
		Mar.	29·775	1·350	69·7	21·0	48·7	52·8	37·4	15·4	44·3	38·9	·237	2·7	0·6	81	547	84·3	31·4	0·6	4	4	9	14	2·5	5·4	12	2·95
ALLENHEADS (Durham), T. Sopwith, Esq., M.A., F.R.S., F.G.S., F.M.S.	1360	Jan.	28·237	1·662	42·8	10·5	32·3	34·2	23·4	10·8	28·5	27·2	·148	1·8	0·1	96	536	57·4	19·0	1·6	5	12	7	7	—	7·6	25	3·17
		Feb.	28·374	0·854	48·5	22·0	26·5	41·8	33·6	8·2	37·1	35·4	·207	2·4	0·2	94	529	73·8	30·4	2·3	1	5	8	14	—	8·0	27	4·49
		Mar.	28·447	1·158	63·0	16·0	47·0	48·4	34·2	14·2	40·1	34·8	·202	2·4	0·6	82	528	93·6	28·3	2·0	4	3	10	14	—	6·4	19	2·60
SILLOTH RECTORY (Cumberland), Rev. Francis Redford, M.A.	28	Jan.	29·715	1·824	47·7	14·9	32·8	38·5	28·1	10·4	33·0	29·1	·160	1·9	0·3	85	559	55·7	24·4	1·3	2	15	5	9	8·2	5·5	13	2·29
		Feb.	29·836	1·084	53·0	25·5	27·5	46·4	37·6	8·8	41·8	38·7	·235	2·7	0·3	90	551	63·0	33·1	1·5	2	5	7	14	12·9	7·8	16	2·66
		Mar.	29·898	1·368	70·0	22·1	47·9	53·8	37·1	16·7	44·2	39·4	·241	2·8	0·5	83	550	85·7	32·0	1·5	4	6	7	14	9·8	5·6	12	1·75
CARLISLE (Cumberland), I. Cartmell, Esq., F.M.S.	114	Jan.	29·617	1·800	49·0	12·5	36·5	39·8	27·6	12·2	33·1	31·9	·180	2·1	0·1	95	557	38·6	20·9	0·3	3	9	13	6	5·0	6·7	7	1·56
		Feb.	29·748	1·050	53·0	27·3	25·7	47·7	38·0	9·7	42·3	39·2	·239	2·8	0·4	89	549	54·6	32·7	0·3	3	4	11	10	6·5	7·8	16	1·81
		Mar.	29·813	1·310	68·0	15·0	53·0	54·7	36·9	17·8	44·4	40·0	·247	2·8	0·5	85	548	76·5	31·1	0·6	3	4	11	13	6·1	5·6	12	1·14
BYWELL (Northumberland), Mr. John Dawson, under the direction of T. Sopwith, Esq., M.A., F.R.S., F.G.S., F.M.S.	87	Jan.	29·632	1·752	51·0	18·0	33·0	38·7	28·6	10·1	33·2	30·0	·167	2·0	0·2	88	557	42·7	20·5	1·2	2	4	3	14	—	6·8	18	1·50
		Feb.	29·752	0·900	57·0	27·0	30·0	47·3	37·7	9·6	41·5	36·3	·214	2·5	0·6	83	550	51·8	31·1	1·4	5	7	4	12	—	6·9	16	2·46
		Mar.	29·831	1·226	66·0	23·0	43·0	53·0	38·0	15·0	43·4	37·3	·223	2·6	0·7	79	550	63·5	30·6	1·3	6	9	4	12	—	5·5	14	1·20
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	Jan.	29·685	1·748	47·0	12·0	35·0	37·9	29·5	8·4	33·0	30·0	·167	2·0	0·2	89	559	—	26·6	1·5	7	4	7	13	—	5·5	17	1·13
		Feb.	29·805	0·999	53·1	25·6	27·5	44·0	36·6	7·4	40·6	36·1	·213	2·5	0·5	85	552	—	35·2	2·1	5	4	6	13	—	7·4	18	1·97
		Mar.	29·874	1·235	57·6	21·3	36·3	49·1	37·6	11·5	42·5	37·0	·220	2·6	0·6	82	551	—	35·4	1·9	6	4	8	13	—	5·8	13	0·69
MILTOWN (Banbridge, Ireland), John Smyth, Esq., Jun., M.A., M.I.C.E.I., F.M.S.	200	Jan.	29·486	1·960	50·0	22·0	28·0	39·5	31·2	8·3	35·4	32·8	·186	2·1	0·3	90	552	49·8	25·3	2·0	5	4	14	8	4·4	6·7	21	3·11
		Feb.	29·650	1·038	54·0	31·0	23·0	48·4	39·6	8·8	43·7	40·4	·251	2·9	0·3	88	546	66·5	35·1	2·5	3	3	16	6	6·2	6·3	18	2·81
		Mar.	29·702	1·366	65·0	22·0	43·0	51·1	37·2	13·9	43·5	38·7	·235	2·7	0·5	83	547	84·5	32·2	2·8	6	3	17	5	5·2	5·3	13	1·48
CULLODEN (Inverness, Scotland), A. Forbes, Esq., F.M.S.	104	Jan.	29·528	2·193	46·1	25·7	20·4	36·8	32·6	4·2	34·7	31·5	·177	2·1	0·2	87	553	52·0	24·3	0·5	2	2	18	9	8·9	5·4	14	1·74
		Feb.	29·632	1·174	52·0	26·6	25·4	43·9	38·3	5·6	41·1	37·3	·222	2·5	0·4	83	548	69·1	30·9	0·5	2	3	12	11	8·7	6·2	17	0·99

Second Rain-gauges are placed—At Strathfield Turgiss, at the height of 38 feet *above the ground*, the amount collected was 2·44 inches; at Aldershot Camp, 25 feet, 3·53 inches; at Marlborough College, 8 inches, 5·68 inches; at Oxford, 22 feet, 2·70 inches; at Cardington, 36 feet, 2·54 inches; at Wisbech, 8 feet, 3·80 inches; at Nottingham, 25½ feet, 3·51 inches; at Eccles, 34 feet, 3·69 inches; at Cockermouth, 6½ feet, 10·22 inches; at Allenheads, 6⅔ feet, 9·96 inches; and at Miltown (Banbridge, Ireland), 40 feet, 5·55 inches. The amount collected at Bann Reservoir (Miltown, Ireland), 440 feet, *above the level of the sea*, was 13·10 inches.

Note.—*The Barometer Reading*, January 16th, 9h. A.M., Ventnor, 29·704 inches has been altered to 28·704 inches.

"	" 18th, 3h. P.M.,	Sidmouth,	29·864	"	28·864 "
"	" 16th, 10h. P.M.,	Bournemouth,	29·930	"	28·930 "
"	" 17th, 10h. A.M.,	"	29·950	"	28·950 "
"	" 16th, 3h. P.M.,	Otley,	29·492	"	28·492 "
"	" 24th, 9h. A.M.,	"	29·056	"	30·056 "
"	February 20th, 9h. A.M.,	Wilton,	30·712	"	29·712 "
"	March 18th, 9h. P.M.,	Derby,	29·077	"	30·077 "

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									
Guernsey - - -	29·740	60·5	28·0	32·5	47·1	39·6	22·7	7·5	42·8	38·8	·238	2·7	0·5	86	549	—	—	1·6	6	6	10	8	4·3	5·8	48	19·[illegible]
Helston - - -	29·754	65·0	26·0	39·0	51·2	41·0	27·7	10·2	45·7	39·5	·244	2·8	0·7	79	548	62·7	38·1	2·5	7	7	6	10	—	5·8	44	9·[illegible]
Truro - - -	29·730	65·0	18·0	47·0	49·8	39·6	31·3	10·2	44·2	40·2	·251	2·9	0·5	87	550	—	—	2·6	7	6	7	10	—	7·1	48	9·[illegible]
Sidmouth - - -	29·738	61·0	23·3	37·7	46·9	37·3	26·7	9·6	41·7	38·6	·238	2·7	0·4	89	553	—	—	1·1	8	6	6	10	—	4·6	45	9·[illegible]
Ventnor - - -	—	67·3	24·2	43·1	47·9	37·7	28·5	10·2	42·2	39·8	·247	2·9	0·3	91	552	—	—	—	—	—	—	—	—	—	43	9·[illegible]
Osborne - - -	29·727	63·5	18·7	44·8	47·0	35·7	30·6	11·3	41·0	39·6	·246	2·8	0·2	95	551	68·5	33·8	0·2	6	5	10	9	—	7·3	39	9·[illegible]
Bournemouth - -	29·767	60·7	13·7	47·0	45·8	36·3	30·4	9·5	40·9	37·2	·224	2·6	0·4	87	553	71·3	33·5	—	9	5	7	9	3·8	5·3	45	9·[illegible]
Worthing - - -	29·733	62·7	20·9	41·8	45·4	36·3	27·9	9·1	40·4	37·2	·224	2·6	0·4	89	554	82·3	32·5	1·0	7	6	8	9	4·2	6·8	45	9·[illegible]
Taunton - - -	29·732	69·8	4·0	65·8	48·3	35·4	38·2	12·9	41·8	37·1	·223	2·6	0·5	84	552	55·2	31·7	0·3	7	6	7	10	5·3	5·8	38	9·[illegible]
Wilton House - -	29·742	69·2	9·5	59·7	48·5	32·9	37·2	15·6	40·4	37·4	·226	2·6	0·3	89	551	78·1	31·3	1·5	7	8	8	7	4·8	5·8	44	9·[illegible]
Barnstaple - - -	29·699	67·5	14·0	53·5	49·1	38·4	32·5	10·7	43·5	39·7	·247	2·9	0·5	87	551	—	—	1·3	5	8	10	7	—	4·5	51	9·[illegible]
Aldershot Camp -	29·726	70·0	17·0	53·0	47·0	33·9	33·9	13·1	40·3	36·7	·218	2·5	0·4	87	548	65·4	31·0	1·4	6	5	10	9	2·6	7·8	47	9·[illegible]
West Harptre Vicge.	29·746	65·3	19·4	45·9	47·0	35·1	30·5	11·9	40·9	36·8	·221	2·6	0·5	85	549	76·8	25·6	0·9	4	5	11	10	3·6	6·9	41	9·[illegible]
Strathfield Turgiss -	29·754	70·0	2·7	67·3	46·7	33·1	39·3	13·6	39·7	36·1	·215	2·5	0·4	87	552	77·7	29·1	5·5	5	7	8	10	5·4	7·1	33	9·[illegible]
Weybridge Heath -	29·783	71·0	12·5	58·5	47·4	34·2	35·8	13·2	40·3	36·6	·220	2·5	0·4	86	553	69·8	32·9	0·9	6	7	10	7	2·0	6·8	38	9·[illegible]
Marlborough College	29·763	67·7	6·0	61·7	45·4	33·2	37·6	12·2	38·9	35·2	·215	2·6	0·3	91	548	74·0	31·1	—	7	6	8	9	5·0	8·0	42	9·[illegible]
Chislehurst - -	29·743	71·7	14·3	57·4	46·7	33·2	36·0	13·5	39·5	35·8	·212	2·5	0·4	87	550	80·3	30·5	—	5	6	9	10	—	—	45	9·[illegible]
Royal Observatory -	29·757	70·9	18·3	52·6	46·9	34·5	34·1	12·4	40·2	35·5	·210	2·5	0·5	84	553	71·9	29·6	0·4	5	6	10	9	—	7·2	42	9·[illegible]
Streatley Vicarage -	29·747	70·0	11·8	58·2	47·4	35·0	34·9	12·5	41·0	38·0	·232	2·7	0·3	89	552	54·3	30·7	1·6	6	5	9	10	—	7·4	35	9·[illegible]
Marylebone - -	29·751	72·0	17·7	54·3	47·2	34·1	35·1	13·1	40·8	36·5	·218	2·5	0·5	84	555	—	—	—	5	6	8	11	—	7·9	47	9·[illegible]
Camden Town - -	29·748	68·7	19·7	49·0	46·7	34·8	31·9	12·0	40·7	37·2	·223	2·6	0·4	88	553	59·9	32·3	—	7	7	8	8	—	7·1	43	9·[illegible]
Oxford - - -	29·747	65·7	17·2	48·5	46·2	35·5	31·9	10·7	40·8	35·5	·210	2·5	0·5	82	551	—	31·2	1·1	6	5	11	8	2·5	7·7	41	9·[illegible]
Gloucester - -	29·795	73·0	6·0	67·0	49·2	35·6	40·2	13·6	41·4	36·0	·215	2·5	0·6	82	553	71·2	30·8	0·7	6	5	8	11	0·8	6·1	30	9·[illegible]
Royston - - -	29·753	72·2	15·7	56·5	46·5	33·5	36·0	13·0	39·6	36·3	·215	2·5	0·4	89	551	—	—	—	5	4	12	9	—	6·7	36	9·[illegible]
Cardington - -	29·759	67·0	11·0	56·0	45·9	33·1	35·1	12·8	39·5	35·4	·210	2·4	0·4	85	554	53·3	27·6	0·9	7	5	10	8	—	7·0	26	9·[illegible]
Leamington	29·737	67·3	10·8	56·5	46·0	34·5	33·6	11·5	39·8	36·7	·222	2·6	0·3	89	552	—	—	0·8	6	9	6	9	—	—	35	9·[illegible]
Somerleyton Rectory	29·719	70·4	14·4	56·0	46·0	32·5	37·4	13·5	39·0	37·2	·223	2·6	0·2	94	553	—	26·6	1·0	4	6	11	9	8·0	6·4	30	9·[illegible]
Norwich - - -	29·737	68·2	18·0	50·2	44·6	33·0	33·3	11·6	38·6	33·7	·197	2·2	0·5	89	556	—	—	—	4	6	12	8	—	—	27	9·[illegible]
Wisbech - - -	29·725	69·8	8·5	61·3	46·4	33·9	34·4	12·6	39·8	35·8	·212	2·5	0·5	86	555	72·8	31·3	0·6	5	7	9	9	3·0	6·8	37	9·[illegible]
Llandudno - - -	29·678	67·6	23·0	44·6	48·0	37·3	31·1	10·7	42·5	37·2	·224	2·6	0·6	82	550	—	—	0·9	3	6	3	18	—	6·3	40	9·[illegible]
Derby - - -	29·689	66·0	10·0	56·0	46·1	33·9	35·0	12·2	40·7	35·3	·209	2·4	0·6	82	550	—	—	—	5	6	7	12	—	—	38	9·[illegible]
Nottingham - -	29·700	70·4	11·0	59·4	46·0	33·5	36·5	12·5	39·4	36·0	·215	2·5	0·4	87	550	69·2	26·2	0·5	7	5	7	11	1·1	7·0	33	9·[illegible]
Holkham - - -	29·741	66·4	3·5	62·9	45·2	32·5	41·3	12·7	39·2	34·0	·198	2·3	0·5	82	555	69·8	28·3	1·4	6	5	12	7	—	6·9	20	9·[illegible]
Hawarden - - -	29·693	66·0	13·0	53·0	45·3	32·7	33·3	12·6	39·1	35·6	·210	2·4	0·4	88	550	68·6	29·1	2·4	6	5	10	9	1·4	6·9	40	9·[illegible]
Liverpool - - -	29·701	65·7	17·0	48·7	45·5	35·6	31·3	9·9	40·3	35·2	·208	2·4	0·5	82	550	—	—	1·4	4	8	8	10	—	6·5	38	9·[illegible]
Eccles - - -	29·696	72·9	10·9	62·0	46·0	33·0	39·5	13·0	39·8	35·6	·212	2·5	0·4	85	552	51·3	28·6	0·7	4	8	10	8	3·1	6·6	35	9·[illegible]
Willow Hall, Halifax	29·714	64·5	9·0	55·5	43·1	32·5	35·3	10·6	37·6	33·4	·193	2·2	0·4	85	544	73·9	29·0	1·1	4	5	10	11	2·8	7·4	53	9·[illegible]
Park Road, Halifax -	29·705	64·0	9·0	55·0	43·1	32·6	35·0	10·6	37·5	34·3	·200	2·3	0·4	88	545	64·6	26·9	0·7	3	8	7	12	—	7·4	42	9·[illegible]
Hull - - -	29·717	67·0	5·0	62·0	44·7	30·4	38·0	14·3	38·2	33·5	·194	2·2	0·5	83	557	59·8	30·2	—	—	—	—	—	2·2	—	40	9·[illegible]
Stonyhurst - -	29·680	68·0	16·6	51·4	44·9	34·3	33·5	10·6	39·1	35·2	·208	2·4	0·4	86	548	77·1	31·4	—	5	7	10	8	—	7·2	65	9·[illegible]
Bradford - - -	29·716	63·0	6·7	56·3	44·6	34·0	34·6	10·6	39·2	33·8	·196	2·3	0·6	82	548	—	—	1·4	6	5	5	9	—	5·3	27	9·[illegible]
Hawsker - - -	29·680	64·4	16·5	47·9	43·6	33·4	31·6	10·1	38·4	33·4	·193	2·2	0·5	82	549	78·8	23·7	—	3	6	11	10	8·4	6·7	35	9·[illegible]
Cockermouth - -	29·633	69·7	10·5	59·2	46·2	35·0	39·3	11·2	40·2	36·4	·217	2·5	0·4	86	550	60·8	28·9	0·6	4	5	10	11	2·9	6·1	43	9·[illegible]
Allenheads - - -	29·662	63·0	10·5	52·5	41·5	30·4	35·3	11·1	35·2	32·5	·183	2·2	0·3	91	531	74·9	25·9	2·0	3	7	8	12	—	7·3	71	9·[illegible]
Silloth - - -	29·635	70·0	14·9	55·1	46·2	34·3	36·1	12·0	39·7	35·7	·212	2·3	0·4	86	553	68·1	29·8	1·4	3	6	6	12	10·0	6·3	41	9·[illegible]
Carlisle - - -	29·629	68·0	12·5	55·5	47·4	34·2	38·4	13·2	39·9	37·1	·222	2·6	0·3	90	551	56·6	28·2	0·4	3	6	12	9	5·9	6·7	35	9·[illegible]
Bywell - - -	29·634	65·0	18·0	48·0	46·3	34·8	35·3	11·6	39·4	34·5	·201	2·4	0·5	83	552	52·7	27·4	1·3	4	7	4	13	—	6·4	48	9·[illegible]
North Shields - -	—	57·6	12·0	45·6	43·7	34·6	32·9	9·1	38·7	34·4	·200	2·4	0·4	85	554	—	32·4	1·8	6	4	7	13	—	6·2	48	9·[illegible]
Miltown (Ireland) -	29·615	65·0	22·0	43·0	46·3	36·0	31·3	10·3	40·9	37·3	·224	2·6	0·4	87	548	66·9	30·9	2·4	5	3	16	6	5·3	6·1	52	9·[illegible]

The highest Temperatures of the Air were at Gloucester, 73°·0; Eccles, 72°·9; Royston, 72°·2; Marylebone, 72°·0; Chislehurst, 71°·[illegible]; Weybridge Heath, 71°·0; Royal Observatory, 70°·9; and at Somerleyton Rectory and Nottingham, 70°·4.

The lowest temperatures of the air were at Strathfield Turgiss, 2°·7; Holkham, 3°·5; Taunton, 4°·0; Marlborough College and Gloucester, 6°·0; Bradford, 6°·7; and Wisbech, 8°·5.

The greatest Daily Ranges of the air were at Wilton, 15°·6; Hull, 14°·3; Strathfield Turgiss and Gloucester, 13°·6; and Chislehurst and Somerleyton Rectory, 13°·5.

The least daily ranges of the air were at Guernsey, 7°·5; Worthing and North Shields, 9°·1; Bournemouth, 9°·5; Sidmouth, 9°·[illegible]; and Liverpool, 9°·9.

The greatest number of Rainy Days were at Allenheads, 71; Stonyhurst, 65; Willow Hall, Halifax, 53; Miltown, 52; and Barnstaple, [illegible].

The least number of rainy days were at Holkham, 20; Cardington, 26; Norwich and Bradford, 27; and Strathfield Turgiss, Leamington, [illegible] and Nottingham, 33.

The heaviest Falls of Rain were at Cockermouth, 10·45 inches; Allenheads, 10·26 inches; Guernsey, 9·09 inches; Park Road, Halifax, 8·81 inches; Stonyhurst, 8·25 inches; Barnstaple, 8·20 inches; and Truro, 8·05 inches.

The least falls of rain were at Holkham, 2·68 inches; Leamington, 2·96 inches; Oxford, 3·03 inches; Royston, 3·29 inches; Cardington, 3·30 inches; Bradford, 3·35 inches; and Derby, 3·48 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days on which it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									
Guernsey - - -	29·740	60·5	28·0	32·5	47·1	39·6	22·7	7·5	42·8	38·8	·238	2·7	0·5	85	549	—	—	1·6	6	6	10	8	4·3	5·8	48	19·[illegible]
Between the latitudes 50° and 51°	29·741	63·6	20·7	42·9	47·7	37·7	29·0	10·0	42·3	38·9	·239	2·8	0·4	88	552	71·2	34·5	1·5	7	6	7	10	—	6·1	44	9·[illegible]
Between the latitudes 51° and 52°	29·749	69·5	12·7	56·8	47·3	34·6	33·3	12·7	40·7	36·7	·220	2·6	0·4	86	551	69·5	30·6	1·4	6	6	9	9	3·6	6·9	41	9·[illegible]
Between the latitudes 52° and 53°	29·726	68·5	12·6	55·9	46·1	33·7	35·6	12·4	39·8	35·8	·213	2·5	0·4	87	553	—	—	0·9	5	6	9	10	—	6·4	32	9·[illegible]
Between the latitudes 53° and 54°	29·703	66·4	10·9	55·5	44·6	33·1	35·1	11·5	38·9	34·6	·203	2·3	0·4	85	549	65·9	27·5	1·3	5	6	9	10	—	6·8	49	9·[illegible]
Between the latitudes 54° and 55°	29·645	66·8	13·8	53·0	45·2	33·7	36·0	11·5	38·8	34·9	·205	2·4	0·4	86	548	65·3	28·1	1·1	3	7	9	11	6·9	6·6	45	9·[illegible]
North Shields - -	—	57·6	12·0	45·6	43·7	34·6	32·9	9·1	38·7	34·4	·200	2·4	0·4	85	554	—	32·4	1·8	6	4	7	13	—	6·2	48	9·[illegible]
Miltown, Banbridge (Ireland)	29·615	65·0	22·0	43·0	46·3	36·0	31·3	10·3	40·9	37·3	·224	2·6	0·4	87	548	66·9	30·9	2·4	5	3	16	6	5·3	6·1	52	9·[illegible]
Mean for the Quarter 50° to 55° — Year 1870	29·757	57·9	19·3	38·1	44·1	33·7	32·2	10·4	38·5	34·7	·202	2·4	0·4	86	554	63·8	29·1	1·1	8	7	7	8	4·6	6·8	41	9·[illegible]
Mean for the Quarter 50° to 55° — " 1871	29·713	67·0	14·1	52·8	46·2	34·6	34·2	11·9	40·1	36·2	·216	2·5	0·4	86	551	66·4	28·1	1·2	5	6	9	10	—	6·6	42	9·[illegible]

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING JUNE 30, 1871.

Remarks on the Weather during the Quarter ending June 30th, 1871.

By James Glaisher, Esq., F.R.S., &c., *Secretary of The Meteorological Society.*

With the exception of the period comprised between April 12th and 29th, the weather has been cold throughout the quarter, the temperature having been almost continuously below the average, and on some days to large amounts. The average daily excess of temperature during the exceptional period above mentioned was 4°, and the average daily deficiency for the remaining 73 days exceeded $2\frac{1}{2}$°. The direction of the wind from April 12th to 29th was generally S.W., and during the rest of the quarter was generally E. or N. or a compound of these directions. The low temperature was the most severe both at the beginning and at the end of June, and the deficiency of temperature for this month from the average of the preceding 30 years exceeded 4° daily. The month of June 1860 was of the same low temperature, but previous to that we must go back as far as the year 1821 for one of lower temperature.

The deficiency for the whole quarter amounted to more than $1\frac{1}{4}$° daily, from the average of 50 years, and there has been no corresponding quarter of as low a temperature at Greenwich since 1860, when April was much colder, but May was a little warmer, and as above stated, June was about the same value, so that the mean temperature of the same three months in 1860 was nearly 1° lower than in 1871. Taking the whole country the mean temperature for these three months is 50°·8, being very nearly of the same value as for the same three months in the year 1869, which was 50°·7.

The unseasonably cold weather which has for the most part prevailed throughout the quarter, together with the north winds, the cloudy sky, and scanty sunshine, have caused vegetation generally to be very backward. At the end of the quarter cornfields still looked green. The harvest in the southern counties was not expected to begin for five or six weeks, and in the more northern counties, the crops were not expected to ripen till towards the end of August. Hay-making had been frequently interrupted by rain, and much hay has been spoiled.

The mean temperature of April was 47°·7, being 1°·7 higher than the average of 100 years, but lower than the corresponding value in any year back to 1861, when 44°·3 was recorded.

The mean temperature of May was 51°·9, being 0°·7 below the average of 100 years, lower than in 1870 by 1°·5, but higher than in 1869 by 1°·4.

The mean temperature of June was 54°·8, being 3°·4 lower than the average of 100 years. The only instances in the period 1771–1871, in which the corresponding values were the same as this or of lower value are as follows:—1771, 54°·0; 1789, 54°·8; 1792, 54°·4; 1795, 53°·7; 1797, 54°·8; 1805, 54°·5; 1812, 54°·0; 1814, 53°·4; 1816, 53°·1; 1821, 54°·1; 1860, 54°·8.

The mean high day temperature of April was the same as its average, and of May and June lower than their respective averages.

The mean low night temperature of April was higher than its average; and of May and June lower than their respective averages.

Therefore the nights in the month of April were warm, and in May and June both the days and nights were cold.

1871. Months.	Temperature of Air. Mean.	Air. Diff. from average of 100 years.	Air. Diff. from average of 30 years.	Evaporation. Mean.	Evaporation. Diff. from average of 30 years.	Dew Point. Mean.	Dew Point. Diff. from average of 30 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 30 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 30 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 30 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	grs.
April -	47·7	+1·7	+0·6	45·2	+1·2	42·5	+1·2	16·6	−2·0	49·0	0·272	+0·018	3·1	+0·2
May -	51·9	−0·7	−1·1	47·8	−1·5	43·7	−1·2	21·3	+1·8	54·2	0·285	−0·019	3·3	−0·2
June -	54·8	−3·4	−4·3	51·5	−3·2	48·4	−2·3	18·3	−2·8	60·0	0·340	−0·032	3·9	−0·3
Mean -	51·5	−0·8	−1·6	48·2	−1·2	44·9	−0·8	19·1	−1·0	54·4	0·299	−0·011	3·4	−0·1

1871. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 30 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 30 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 30 years.	Rain. Amount.	Rain. Diff. from average of 56 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
	°	°	in.	in.	grs.	grs.	in.	in.	Miles.				°	°
April -	83	+3	29·647	−0·126	541	−2	3·0	+1·3	285	8	11	11	15·8	46·5
May -	74	−2	29·907	+0·131	541	0	0·7	−1·3	234	10	14	7	26·0	49·0
June -	78	+4	29·761	−0·055	535	+3	3·0	+1·1	246	1	8	21	28·8	56·6
Mean -	78	+2	29·772	−0·017	539	0	Sum 6·7	Sum +1·1	Mean 255	Sum 19	Sum 33	Sum 39	Lowest 15·8	Highest 56·6

Note.—In reading this table it will be borne in mind that the minus sign (−) signifies below the average, and that the plus sign (+) signifies above the average.

E. & S.—500.—8/71.

The daily ranges of temperature were less than their respective averages in April and June by 2°·0 and 2°·8, but greater in May by 1°·8.

The fall of rain was 1·3 in. and 1·1 in. in excess in April and June respectively, and 1·3 in. in defect in May.

The mean temperature of the air in the three months ending May, constituting the three spring months, was 48°·2, being 1°·7 higher than the average of 100 years.

The pressure of the atmosphere increased from 29·59 in. on the 3d of April to its maximum reading for the month, 30·050 in. on the 6th, and continued generally about 29·8 in. till the 13th. On the 14th it decreased and continued with slight exception to the 19th, when 29·008 in., the minimum for the month, took place. From the 20th there were increasing readings till the 25th, to a maximum of 29·90 in., and this was followed by readings decreasing to 29·34 in. on the 29th. The range of readings in the month was 1·042 in.

Throughout the month of May the mean daily values were with six exceptions above the average, and the range of readings were from 30·214 in. on the 7th, to 29·636 in. on the 25th, or 0·578 in. only.

In June the waves of oscillation were small, and during the month there were no large departures from the average. The readings varied from 30·097 in., the maximum, on the 26th, to 29·337 in., the minimum, on the 17th; the range was therefore 0·760 in.

Thunderstorms occurred at one or more of the different stations throughout the country, on the following days, viz.: April 10th, 16th, 17th, 19th, 27th, 28th, 29th, and 30th; May 2d, 7th, 8th, 19th, 24th, 25th, 26th, 27th, and 28th; and June 10th, 11th, 14th, 15th, 16th, 17th, 18th, 19th, 20th, 21st, 22d, 25th, and 30th.

Thunder was heard, but lightning was not seen, on the 3d of April at Halifax; on the 14th at Guernsey; on the 16th at Somerleyton; on the 17th at Cardington, Somerleyton, and Hull; on the 18th at Hull; on the 22d at Holkham; on the 25th at Stonyhurst; on the 26th at Streatley; on the 27th at Bournemouth, Weybridge, Camden Town, Gloucester, Cardington, Leamington, Norwich, and North Shields; on the 28th at Cardington, Leamington, Somerleyton, Halifax, and North Shields; on the 29th at Osborne, Wilton, Streatley, Cardington, Allenheads, and Carlisle; and on the 30th at Bournemouth, Portsmouth, Brighton, Somerleyton, and Norwich. On the 2d of May at Hawarden; on the 8th at Worthing; on the 9th at Boston; on the 16th at Worthing; on the 25th at Strathfield Turgiss, Marylebone, Cardington, and Stonyhurst; on the 26th at Strathfield Turgiss, Hull, and North Shields; on the 27th at Portsmouth, Chiselhurst, Royston, Somerleyton, Wisbech, Halifax, and Hull; and on the 29th at Allenheads. On the 10th of June at Marylebone; on the 11th at Carlisle; on the 14th at Marylebone; on the 15th at Aldershot, Strathfield Turgiss, and Cardington; on the 16th at Marylebone; on the 17th at Weybridge, Camden Town, Cardington, and North Shields; on the 18th at Leamington, Liverpool, Halifax, Hull, Stonyhurst, and Allenheads; on the 19th at Strathfield Turgiss, Chiselhurst, Gloucester, Lampeter, Leamington, Wisbech, Eccles, Halifax, Hull, Silloth, Bywell, and North Shields; on the 20th at Osborne, Leamington, Liverpool, Halifax, Hull, Stonyhurst, York, and Sillloth; on the 21st at Worthing, Aldershot, Weybridge, and Camden Town; on the 25th at Eccles, Stonyhurst, and Allenheads; on the 27th at Wisbech and on the 28th at North Shields.

Lightning was seen, but thunder was not heard, on the 19th of April at Halifax; on the 23d at Eccles; and on the 30th at Wisbech. On the 19th of May at Oxford; and on the 26th at Lampeter. On the 15th of June at Chiselhurst and Camden Town; on the 16th at Camden Town; on the 17th at Portsmouth and Allenheads; on the 18th at Strathfield and Marylebone; on the 21st and 22d at Portsmouth; and on the 30th at Gloucester.

Solar halos were seen on the 5th, 9th, and 30th of April; on the 2d, 3d, 19th, 23d, and 24th of May; and on the 1st, 2d, 3d, 5th, 6th, 10th, 11th, 15th, 16th, and 20th of June.

Lunar halos were seen on the 1st and 5th of April; and on the 2d and 19th of May.

Auroræ Boreales were seen on the 1st, 8th, 9th, 10th, 13th 16th, 17th, 18th, 19th, and 23d of April; on the 8th, 16th, 17th, 19th, 20th, 22d, and 26th of May; and on the 7th of June, or on 18 occasions during the quarter as against 31 during the corresponding quarter of 1870. The Observer at Oxford makes mention of a display of Aurora Australis on the 27th of June.

Snow fell on the 1st, 2d, 3d, 4th, 5th, 6th, 9th, 10th, 18th, and 19th of April; on the 1st, 4th, 10th, 16th, and 17th of May; and on the 3d of June.

Hail fell on 12 days in April, 6 in May, and 7 in June.

Fog was prevalent on 35 days during the quarter, viz.; 16 in April, 9 in May, and 10 in June.

Field Elm in leaf on the 6th of April at Oxford; on the 13th at Weybridge; on the 23d at Halifax; on the 27th at Helston and Osborne; and on the 30th at Miltown. On the 19th of May at Hull.

Wych Elm in leaf on the 10th of April at Guernsey; on the 23d at Strathfield Turgiss; and on the 27th at Somerleyton. On the 5th of May at Wisbech; and on the 24th at Hull.

Oak in leaf on the 10th of April at Guernsey; on the 16th at Weybridge Heath; on the 20th at Strathfield Turgiss; on the 27th at Llandudno; and on the 29th at Chiselhurst. On the 10th of May at Miltown; and on the 6th of June at Hull.

Lime in leaf on the 4th of April at Oxford and Wisbech; on the 10th at Guernsey; on the 14th at Weybridge Heath; on the 15th at Llandudno; on the 19th at Chiselhurst; on the 23d at Strathfield Turgiss; and on the 26th at Helston. On the 6th of May at Miltown; and on the 16th at Hull

Sycamore in leaf on the 27th of March at Eastbourne. On the 7th of April at Strathfield Turgiss; on the 9th at Weybridge Heath; on the 10th at Guernsey; on the 15th at Llandudno; on the 17th at Hull; on the 21st at Wisbech; on the 23d at Helston; and on the 28th at Miltown.

Horse chesnut in leaf on the 28th of March at Eastbourne. On the 4th of April at Weybridge Heath and Oxford; on the 9th at Wisbech; on the 12th at Llandudno; on the 16th at Halifax; and on the 21st at Miltown. On the 14th of May at Hull.

Common Poplar in leaf on the 10th of April at Strathfield Turgiss; on the 12th at Wisbech; on the 21st at Weybridge Heath and Chiselhurst; and on the 24th at Halifax. On the 4th of June at Hull.

Hawthorn in leaf on the 31st of March at Eastbourne. On the 7th of April at Weybridge and Miltown; on the 10th at Hull; and on the 16th at Helston. On the 19th of May at Silloth.

Hazel in leaf on the 9th of April at Miltown; and on the 18th at Weybridge. On the 24th of May at Hull.

Walnut in leaf on the 20th of April at Wisbech. On the 2d of May at Weybridge. And on the 16th of June at Hull.

Apple in blossom on the 8th of April at Helston; on the 13th at Oxford; on the 15th at Weybridge; on the 18th at Wisbech; on the 19th at Strathfield Turgiss and Llandudno; and on the 20th at Miltown. On the 8th of May at Stonyhurst; and on the 10th at North Shields.

Pear in blossom on the 7th of April at Culloden; on the 10th at Miltown; on the 13th at Weybridge; on the 15th at Bywell; on the 16th at Wisbech; on the 20th at Stonyhurst; and on the 27th at Hull.

Cherry in blossom on the 1st of April at Strathfield Turgiss; on the 4th at Silloth; on the 7th at Miltown; on the 8th at Culloden; on the 10th at Bywell; on the 11th at Wisbech; and on the 17th at Hull. On the 13th of May at North Shields. *Ripe* on the 20th of June at Miltown; on the 27th at Stonyhurst; and on the 30th at Silloth.

Peach in blossom on the 24th of March at Miltown; and on the 28th at Strathfield Turgiss. On the 3d of April at Weybridge; and on the 30th at Halifax.

Plum in blossom on the 1st of April at Weybridge, Miltown, and Culloden; on the 16th at Stonyhurst; and on the 30th at Halifax.

Lilac in blossom on the 10th of April at Guernsey and Helston; on the 19th at Llandudno; on the 27th at Oxford; on the 28th at Strathfield Turgiss; and on the 29th at Wisbech. On the 1st of May at Weybridge; on the 2d at Lampeter; on the 6th at Hawarden and Silloth; on the 7th at Miltown; on the 15th at Stonyhurst; and on the 27th at North Shields. On the 12th of June at Hull.

Laburnum in blossom on the 17th of April at Helston; on the 28th at Llandudno; on the 29th at Strathfield Turgiss; and on the 30th at Guernsey. On the 3d of May at Weybridge and Oxford; on the 5th at Lampeter; on the 8th at Chiselhurst and Hawarden; on the 12th at Wisbech; on the 13th at Silloth; on the 16th at Stonyhurst; on the 20th at Miltown; and on the 26th at Hull.

Yellow Broom in blossom on the 17th of April at Weybridge Heath; and on the 30th at Miltown. On the 8th of May at Hull.

White Broom in blossom on the 21st of April at Llandudno. On the 5th of May at Miltown; on the 8th at Chiselhurst; and on the 15th at Hull.

Mountain Ash in blossom on the 2d of May at Weybridge; on the 5th at Chiselhurst; on the 10th at Llandudno; on the 18th at North Shields and Miltown; and on the 21st at Hull.

Honeysuckle in blossom on the 2d of May at Strathfield Turgiss; on the 4th at Llandudno; and on the 8th at Chiselhurst. On the 5th of June at Hull; and on the 15th at Miltown.

Syringa in blossom on the 16th of May at Strathfield Turgiss; on the 25th at Chiselhurst and Oxford; and on the 29th at Lampeter. On the 12th of June at Miltown; and on the 14th at Weybridge Heath.

Acacia in blossom on the 17th of June at Chiselhurst; and on the 21st at Miltown.

Privet in blossom on the 17th of June at Chiselhurst; on the 21st at Strathfield Turgiss; on the 26th at Weybridge Heath; and on the 27th at Miltown.

Wheat in ear on the 1st of June at Wisbech; on the 13th at Helston; on the 15th at Cardington; on the 18th at Silloth; on the 20th at Weybridge; on the 26th at Boston; and on the 29th at Hawarden. *In flower* on the 9th of June at Taunton; on the 21st at Helston; on the 24th at Weybridge and Chiselhurst; on the 26th at Cardington; on the 27th at Silloth; and on the 28th at Hull.

Barley in ear on the 15th of June at Cardington; on the 21st at Weybridge; and on the 24th at Helston. *In flower* on the 26th of June at Cardington; and on the 30th at Weybridge and Hawarden.

Rye in ear on the 14th of June at Weybridge. *In flower* on the 18th of June at Weybridge; and on the 20th at Chiselhurst. And on the 1st of July at Hull.

Oats in ear on the 17th of June at Weybridge Heath and Helston; *and in flower* on the 23d at Weybridge Heath.

Cuckoo arrived on the 7th of April at Barnstaple; on the 10th at Guernsey; on the 12th at Llandudno; on the 13th at Truro and Strathfield Turgiss; on the 15th at West Harptre; on the 17th at Bournemouth and Weybridge; on the 18th at Hawarden; on the 19th at Holkham; on the 21st at Oxford; on the 22d at Chiselhurst, Greenwich, and Wisbech; on the 24th at Wilton and Cardington; on the 25th at Miltown; on the 26th at Halifax and Silloth; and on the 27th at Somerleyton, Hull, and Culloden. On the 1st of May at Lampeter and Stonyhurst; on the 2d at Boston and Bywell; on the 6th at Allenheads; and on the 20th at North Shields.

Swallow arrived on the 6th of April at Osborne; on the 8th at Cardington, Holkham, and Miltown; on the 9th at Wilton and Chiselhurst; on the 10th at Truro and Streatley; on the 12th at Hawarden; on the 13th at Helston, West Harptre, Weybridge, and Stonyhurst; on the 14th at Strathfield; on the 16th at Llandudno, Hull, and Silloth; on the 18th at Wisbech; on the 19th at Somerleyton; on the 21st at Carlisle; on the 22d at Bywell; on the 25th at Royston and Halifax; on the 26th at Lampeter; and on the 28th at Allenheads.

Nightingale arrived on the 7th of April at Holkham; on the 12th at Strathfield Turgiss; on the 13th at Royston; on the 16th at Streatley and Cardington; on the 17th at Weybridge; on the 19th at Chiselhurst; and on the 23d at Somerleyton. *Departed* on the 2d of June from Weybridge.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING JUNE 30TH, 1871.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the fifth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1871. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean of all Highest.	Temperature of Air in Month. Mean of all Lowest.	Temperature of Air in Month. Mean Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.=100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.R.C.P., F.M.S.	204	April	29·646	0·897	58·0	37·5	20·5	54·4	44·5	9·9	47·9	45·4	·304	3·4	0·4	92	537	–	–	1·9	6	4	10	10	5·6	5·0	17	3·45
		May	29·847	0·551	69·5	40·5	29·0	55·8	45·6	10·2	50·6	45·3	·302	3·4	0·7	82	541	–	–	1·3	13	10	2	6	4·8	3·0	4	0·73
		June	29·738	0·638	64·0	44·0	20·0	60·2	49·9	10·3	55·1	48·7	·344	3·9	0·7	85	537	–	–	1·5	9	7	5	9	4·8	4·8	15	2·51
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	103	April	29·770	1·023	64·0	32·0	32·0	58·4	45·5	12·9	50·4	45·1	·301	3·4	0·7	82	540	77·5	43·7	2·4	4	6	8	12	5·7	5·7	19	4·87
		May	30·038	0·641	77·0	37·0	40·0	63·5	46·2	20·3	54·9	43·2	·279	3·2	1·7	65	540	95·1	41·4	2·2	8	15	2	6	3·4	2·0	4	0·90
		June	29·903	0·767	76·0	42·0	34·0	68·1	50·0	18·1	57·4	49·2	·351	3·9	1·4	74	535	94·4	47·6	2·5	10	3	6	11	4·4	4·4	14	1·25
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	April	29·811	1·008	60·0	29·0	31·0	53·0	46·0	10·0	50·1	44·1	·289	3·3	0·8	81	541	–	–	3·1	5	6	5	14	–	7·2	17	4·14
		May	30·075	0·530	80·0	32·0	48·0	64·0	45·0	19·0	53·7	43·8	·285	3·2	1·4	69	542	–	–	2·2	11	11	5	4	–	4·6	5	0·55
		June	29·946	0·785	75·0	35·0	40·0	65·0	50·7	14·3	56·6	49·5	·355	4·0	1·1	77	536	–	–	2·7	13	3	6	8	–	6·6	16	1·19
SIDMOUTH (Devon), J. Ingleby Mackenzie, Esq., M.B., F.M.S.	30	April	29·832	1·012	59·5	32·3	27·2	54·5	44·3	10·2	49·1	42·7	·274	3·1	0·9	78	543	–	–	1·2	4	6	4	16	–	5·0	18	4·89
		May	30·067	0·604	72·7	36·3	36·4	59·2	44·4	14·8	51·0	43·2	·279	3·2	1·0	75	545	–	–	0·8	6	7	12	6	–	2·8	6	0·45
		June	29·914	0·740	68·7	38·0	30·7	63·0	48·8	14·2	54·4	49·3	·352	4·0	0·8	73	538	–	–	1·1	7	4	11	8	–	2·2	17	1·79
EASTBOURNE (Sussex), Miss W. L. Hall.	12	Mar.	30·101	0·750	63·6	29·8	34·1	51·9	38·7	13·2	44·9	38·3	·231	2·9	0·5	85	552	89·4	31·3	0·6	6	10	7	8	5·6	–	17	1·34
		April	29·846	0·834	62·6	32·7	29·9	55·6	41·9	13·7	48·1	43·3	·280	3·2	0·6	84	544	101·7	36·4	0·8	5	7	2	16	3·7	–	18	4·36
		May	30·079	0·515	72·6	35·3	37·0	61·9	43·4	18·3	52·0	43·1	·278	3·2	1·2	72	544	113·0	35·7	0·6	5	14	5	7	4·6	–	8	0·80
		June	29·928	0·645	72·2	37·8	34·4	64·7	47·3	17·4	55·0	47·6	·339	3·7	1·2	76	538	114·3	42·3	0·6	11	4	3	12	5·1	–	15	2·59
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	April	29·654	0·930	63·1	34·7	28·4	57·0	42·7	14·3	47·9	47·1	·324	3·7	0·1	97	541	95·7	41·1	0·2	3	6	9	12	–	6·6	19	4·12
		May	29·901	0·530	76·0	35·0	41·0	63·8	43·5	20·3	52·3	45·5	·355	4·0	0·4	91	540	108·2	39·1	0·4	10	10	4	7	–	4·6	5	0·35
		June	29·765	0·695	75·8	37·3	38·0	65·6	48·2	17·4	54·9	52·1	·389	4·4	0·5	90	535	101·9	46·2	0·5	11	3	6	10	–	7·6	11	2·31
BOURNEMOUTH (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	128	April	29·798	0·940	60·4	32·9	27·5	54·9	43·5	11·4	48·3	43·3	·280	3·2	0·6	84	541	98·4	41·0	–	4	7	5	14	5·2	6·2	19	4·26
		May	29·932	0·520	71·8	34·2	37·6	60·2	43·7	16·5	51·2	44·5	·283	3·2	1·0	75	543	127·0	–	–	13	7	4	7	4·5	3·0	5	0·91
		June	29·828	0·750	67·2	37·3	29·9	61·9	48·6	13·3	54·3	48·2	·338	3·8	0·9	81	537	125·0	–	–	11	5	5	9	2·8	4·7	12	2·39
PORTSMOUTH, William C. Ellis, Esq., F.M.S.	16	Mar.	30·053	1·180	67·0	29·0	38·0	55·9	38·7	19·2	45·1	39·3	·240	2·8	0·7	80	552	82·5	30·6	0·6	6	9	9	7	1·6	4·3	8	0·83
		April	29·821	0·945	65·4	30·0	35·4	60·0	41·5	18·5	48·8	43·0	·278	3·1	0·7	80	543	91·2	36·8	0·7	2	7	8	13	1·8	6·6	16	3·27
		May	30·067	0·555	78·9	36·2	42·7	68·1	41·5	26·6	52·0	44·9	·293	3·4	1·0	77	544	112·7	36·1	0·7	8	10	5	8	1·4	3·1	2	0·14
		June	29·920	0·685	74·2	35·2	39·0	65·5	46·4	22·1	54·7	48·6	·343	3·9	0·9	80	538	114·6	41·3	0·6	11	4	8	7	1·3	5·6	11	2·64
WORTHING (Sussex), W. J. Harris, Esq. M.R.C.S.E., L.S.A., F.M.S.	31	April	29·792	0·915	60·6	34·4	26·2	54·5	43·9	10·6	47·8	43·2	·279	3·2	0·6	85	544	112·9	40·1	1·4	3	5	6	16	5·5	6·5	17	3·96
		May	30·042	0·537	70·8	35·8	35·0	60·5	44·6	15·9	51·0	43·0	·273	3·1	1·1	74	545	125·2	39·4	0·9	7	10	7	7	5·5	4·7	4	0·46
		June	29·895	0·693	68·7	37·2	31·5	62·3	47·9	14·4	55·6	47·4	·328	3·7	0·9	79	539	124·7	45·7	0·9	10	3	7	10	5·0	5·2	16	2·62
BRIGHTON (Sussex), Frederick E. Sawyer, Esq., F.M.S.	200	Jan.	29·666	1·340	45·8	19·0	26·8	37·6	29·6	8·0	33·7	32·0	·182	2·1	0·2	92	557	–	26·3	1·1	10	5	7	6	1·6	8·3	21	2·87
		Feb.	29·855	1·120	52·0	24·5	27·5	46·3	37·5	8·8	41·6	40·0	·218	2·9	0·2	94	551	–	33·5	0·9	3	3	7	15	0·6	7·6	17	1·70
		Mar.	29·810	1·140	59·2	29·5	29·7	50·6	38·9	11·7	44·1	39·7	·244	2·8	0·5	84	558	–	33·4	1·0	8	8	4	11	1·8	5·6	13	0·81
		April	29·585	0·960	60·5	33·5	27·0	55·2	43·2	12·0	47·7	43·0	·277	3·1	0·6	85	540	–	40·4	1·3	3	6	7	14	2·2	8·1	18	4·09
		May	29·796	0·570	72·6	37·4	35·2	60·4	43·9	16·5	51·2	43·5	·283	3·2	1·0	75	540	–	41·9	1·3	8	9	5	9	1·9	5·0	4	0·16
		June	29·641	0·740	72·8	35·0	34·8	64·3	49·0	15·3	55·3	48·6	·343	3·9	1·1	78	532	–	47·0	1·1	11	5	6	8	3·7	7·4	15	3·75
TAUNTON (Somerset), Rev. W. Tuckwell, F.M.S.	80	April	29·720	0·966	65·7	28·2	37·5	58·1	43·4	14·7	49·5	44·3	·292	3·4	0·7	83	540	69·3	39·4	0·3	7	4	5	14	7·0	3·2	19	3·21
		May	30·005	0·618	83·5	32·5	51·0	65·1	41·4	23·7	52·2	44·5	·294	3·4	1·1	75	543	77·7	39·4	0·1	8	10	4	9	6·0	4·5	4	0·70
		June	29·627	1·115	87·7	37·2	50·5	69·3	46·6	22·7	56·6	48·9	·346	3·9	1·2	76	534	89·7	46·4	0·2	8	6	6	10	6·2	5·5	17	2·25
ALDERSHOT CAMP (Hants), John Arnold, M.S.C., F.M.S.	325	April	29·451	0·960	66·0	29·0	37·0	58·2	41·5	16·7	48·1	41·8	·265	3·0	0·8	79	537	100·2	38·1	1·5	6	5	6	13	2·6	7·4	14	3·31
		May	29·718	0·504	80·6	32·8	47·8	64·6	41·9	22·7	52·2	40·5	·252	2·7	1·6	65	538	115·5	39·3	1·3	12	9	3	7	2·5	5·9	8	0·58
		June	29·650	0·738	75·4	35·6	39·8	66·4	47·3	19·1	54·1	49·2	·335	4·0	0·8	83	534	118·7	45·0	1·4	11	4	6	9	2·8	8·0	18	3·41
WEST HARPTRE VICARAGE (near Bristol), Rev. R. Tyas, M.A., LL.D., F.M.S.	273	April	29·833	1·014	65·7	26·2	39·5	58·0	41·9	16·1	48·9	43·1	·278	3·1	0·7	80	538	110·6	30·7	0·6	0	4	10	16	4·1	6·8	17	5·01
		May	29·803	0·533	82·0	33·0	49·0	64·1	43·4	21·7	51·8	44·2	·290	3·3	1·0	75	540	125·9	30·7	0·4	4	12	3	11	2·5	5·7	5	0·95
		June	29·669	0·756	75·1	31·5	43·6	66·0	46·0	20·0	54·6	48·3	·338	3·9	1·0	79	534	127·4	35·0	0·4	6	7	5	12	2·7	7·0	16	2·64
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	April	29·619	0·945	63·3	22·9	42·4	58·1	41·1	17·0	48·2	41·5	·241	3·0	0·9	78	540	106·1	35·7	1·5	4	6	4	16	4·6	6·1	17	3·48
		May	29·882	0·527	80·1	32·0	48·1	63·7	39·4	24·3	50·6	41·2	·239	2·9	1·2	71	542	118·9	33·9	0·9	10	11	4	6	5·5	4·9	3	0·27
		June	29·735	0·705	75·6	31·2	44·4	64·7	46·0	18·7	53·6	48·3	·339	3·8	0·8	82	536	116·1	41·5	1·0	11	8	4	7	5·3	7·7	16	3·14
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	April	29·688	1·002	69·0	26·0	43·0	58·6	40·5	18·1	48·4	42·4	·271	3·1	0·8	80	541	96·9	37·8	0·8	5	7	10	8	2·0	7·6	16	3·78
		May	29·957	0·544	82·5	30·5	52·0	64·5	40·4	24·1	51·0	43·2	·279	3·2	1·0	75	543	106·3	37·0	0·8	13	9	4	5	2·2	4·4	5	0·37
		June	29·813	0·727	77·5	35·5	42·0	66·2	46·8	19·4	54·3	49·4	·353	4·0	0·7	84	536	109·3	44·5	0·8	10	6	7	7	2·1	7·6	17	2·99
BATH ROYAL LITERARY AND SCIENTIFIC INST. (Somerset), Chas. P. Russell, Esq.	86	Feb.	29·913	1·210	55·7	29·8	25·9	49·7	40·5	9·2	44·7	41·5	·232	3·0	0·4	89	549	–	–	1·7	4	2	8	14	5·0	8·5	17	1·34
		Mar.	29·940	1·090	68·0	29·0	39·0	54·3	39·4	14·9	45·9	41·0	·237	2·9	0·7	84	549	–	–	1·7	6	8	7	10	3·3	6·1	10	1·33
		April	29·712	0·910	62·0	31·3	30·7	57·2	44·0	13·2	49·3	44·5	·294	3·4	0·5	84	540	–	–	1·8	3	6	4	17	4·7	6·6	20	3·58
		May	29·997	0·540	78·0	34·6	43·4	63·5	44·3	19·2	52·7	42·1	·238	3·0	1·4	63	542	–	–	1·3	9	11	3	8	5·0	5·0	4	1·10
MARLBOROUGH COLLEGE (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	456	April	29·343	0·982	61·3	25·7	35·6	55·5	41·4	14·1	46·9	41·7	·264	3·0	0·7	83	536	107·5	38·7	–	7	5	5	13	4·6	7·5	18	3·83
		May	29·619	0·526	78·1	31·1	47·0	61·0	40·2	20·8	49·4	41·8	·236	3·0	1·0	75	539	136·4	34·4	–	8	14	3	6	3·7	6·0	7	1·17
		June	29·475	0·707	70·4	35·7	34·7	61·7	46·2	15·5	52·1	47·4	·328	3·7	0·7	84	533	125·4	38·8	–	9	9	5	7	2·8	8·4	15	2·99
CHISLEHURST (Heathfield Lodge, Kent), Francis Nunes, Esq., M.A., F.M.S.	295	April	29·502	1·002	65·1	26·1	39·0	57·5	40·3	17·2	47·4	41·7	·261	3·1	0·7	82	544	100·8	37·1	–	4	8	5	13	–	–	17	3·17
		May	29·768	0·538	81·1	32·8	48·3	68·6	40·7	27·9	51·9	43·7	·285	3·3	1·1	74	544	122·8	38·0	–	10	11	2	8	–	–	6	0·75
		June	29·612	0·752	78·7	37·0	41·7	67·4	46·6	20·8	54·8	48·7	·344	3·9	0·9	79	532	122·4	45·2	–	12	6	5	7	–	–	21	2·47
ROYAL OBSERVATORY (Kent), The Astronomer Royal.	159	April	29·647	1·012	63·5	29·1	37·4	57·8	41·2	16·6	47·7	42·5	·272	3·1	0·7	83	541	93·6	34·5	0·4	4	7	7	12	–	7·1	16	3·03
		May	29·907	0·578	79·5	34·0	45·5	64·4	42·1	22·3	51·9	43·7	·285	3·3	1·1	74	541	122·0	34·4	0·2	9	11	4	7	–	5·6	7	0·68
		June	29·761	0·760	77·2	38·7	38·5	66·3	47·9	18·4	54·8	48·4	·340	3·9	1·0	78	535	119·4	43·3	0·2	13	5	7	5	–	8·1	18	2·95
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.A.S., F.M.S.	150	April	29·673	0·998	67·0	29·5	37·5	58·8	42·2	16·6	49·5	42·5	·273	3·1	1·0	77	540	70·2	38·1	1·9	4	5	8	13	–	7·2	18	3·06
		May	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0·29
		June	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2·25
MARYLEBONE (London), Henry E. Segrave, Esq., F.M.S.,	146	April	29·652	1·001	64·3	–	–	56·8	–	–	49·4	–	–	–	–	–	–	–	–	–	5	3	8	14	–	6·5	16	2·77
		May	29·920	0·565	81·2	26·0	55·2	66·0	43·0	23·0	53·5	42·8	·275	3·1	1·5	67	543	–	–	–	10	8	4	9	–	4·8	7	1·28
		June	29·774	0·767	78·7	37·0	41·7	67·0	46·9	20·1	55·3	47·5	·327	3·7	1·2	75	535	–	–	–	10	6	6	8	–	8·2	18	3·26
CAMDEN TOWN (London), G. J. Symons, Esq., F.M.S.	123	April	29·680	1·048	66·0	28·3	37·7	58·1	41·6	16·5	48·5	42·5	·272	3·1	0·8	80	541	88·4	33·9	–	8	6	5	11	–	6·2	18	2·84
		May	29·952	0·550	79·0	35·0	44·0	65·5	42·5	23·0	52·6	43·8	·284	3·3	1·2	72	541	103·1	41·3	–	13	10	5	3	–	4·7	7	0·93
		June	29·809	0·745	76·0	39·0	37·0	67·1	48·3	18·8	55·5	51·4	·379	4·3	0·7	87	535	103·3	47·8	–	13	8	5	4	–	6·7	16	3·49
OXFORD (Oxfordshire), Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	April	29·583	1·077	64·6	24·8	37·8	58·2	42·9	15·3	48·8	41·7	·265	3·0	0·9	77	539	102·9	36·0	1·2	4	5	7	14	3·8	7·8	16	2·61
		May	29·836	0·554	80·4	34·5	45·9	64·6	44·0	20·6	52·5	43·0	·278	3·1	1·5	70	540	118·7	38·2	0·8	13	8	3	7	4·8	6·0	5	0·43
		June	29·709	0·746	73·2	33·9	36·3	63·4	48·1	15·3	54·9	48·1	·336	3·8	1·1	77	534	109·0	44·3	0·7	13	6	5	6	3·1	8·2	14	3·17
GLOUCESTER (Gloucester), E. Toller, Esq., M.D.	100	April	29·747	1·045	68·0	30·0	38·0	60·6	43·0	17·6	49·8	43·6	·285	3·3	0·8	80	540	101·8	41·7	0·8	6	4	6	14	2·2	6·6	13	2·35
		May	30·034	0·528	85·0	33·0	52·0	65·8	41·6	25·2	53·8	43·1	·278	3·1	1·5	67	542	105·4	43·1	0·6	8	10	5	8	3·6	5·2	4	1·19
		June	29·897	0·733	84·0	36·0	48·0	67·7	48·8	18·9	55·8	49·2	·351	3·9	1·0	79	536	109·4	49·6	0·5	9	9	5	7	4·6	7·7	15	2·92
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	April	29·549	1·022	66·4	23·4	43·0	57·9	39·3	18·6	46·8	42·1	·269	3·1	0·6	85	540	–	–	–	5	5	7	13	–	6·9	15	2·18
		May	29·822	0·699	81·7	32·4	49·3	65·4	41·1	24·3	51·5	44·2	·290	3·3	1·0	77	540	–	–	–	16	5	4	6	–	5·6	9	0·97
		June	29·693	0·733	80·3	35·0	45·3	66·3	46·5	19·8	53·5	49·3	·352	4·0	0·6	86	535	–	–	–	16	3	7	5	–	7·5	18	2·92
CARDINGTON (near Bedford), J. MacLaren, Esq., F.M.S., Assist. to S.C. Whitbread, Esq., F.R.S., F.M.S.	100	April	29·703	1·034	65·4	23·0	42·4	57·6	39·4	18·2	47·6	42·1	·268	3·1	0·7	82	542	76·0	34·1	0·9	7	6	7	10	–	7·0	14	2·00
		May	29·980	0·570	79·4	33·0	46·4	63·3	40·9	22·4	51·7	41·0	·237	2·6	1·5	64	543	88·0	35·2	0·7	13	7	4	7	–	5·5	8	1·20
		June	29·828	0·700	77·4	36·6	40·8	65·5	47·5	18·0	54·3	50·3	·365	4·1	0·6	86	537	92·1	42·9	0·7	13	7	4	6	–	7·4	16	3·25
ST. DAVID'S COLLEGE, LAMPETER (Cardiganshire), Rev. Prof. J. Matthews, M.A.	420	April	29·348	1·058	66·6	29·6	37·0	57·0	42·7	14·3	48·0	41·9	·265	3·0	0·8	80	535	97·8	–	1·0	4	6	7	13	6·6	7·3	16	4·62
		May	29·658	0·524	84·5	29·2	55·3	67·2	41·7	25·5	53·7	42·2	·269	3·0	1·6	65	535	117·3	–	0·6	11	9	5	6	4·7	4·4	6	0·88
		June	29·520	0·774	78·0	32·5	45·5	66·6	46·1	20·5	54·3	47·6	·339	3·7	1·0	78	531	111·4	–	0·7	10	5	7	8	4·9	7·4	14	4·19
LEAMINGTON (Warwickshire), S. Urwick Jones, Esq., F.M.S.	195	April	29·582	1·063	65·0	29·0	36·0	56·4	41·6	14·8	47·8	40·5	·252	2·9	0·9	76	540	–	–	0·9	7	5	6	12	–	–	18	3·07
		May	29·881	0·580	79·0	33·5	45·5	63·1	42·9	20·2	51·5	41·0	·257	2·9	1·4	67	541	–	–	0·8	11	8	3	9	–	–	7	1·22
		June	29·731	0·730	73·0	38·2	34·8	63·7	48·0	15·7	53·9	46·8	·321	3·6	1·1	77	536	–	–	0·8	9	7	5	9	–	–	16	2·55
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	30	April	29·750	1·114	66·4	26·2	40·2	54·8	39·1	15·7	45·5	42·9	·275	3·1	0·4	91	545	–	32·1	0·8	5	8	8	9	8·1	6·5	19	3·47
		May	30·024	0·632	68·7	30·3	38·4	58·6	41·3	17·3	48·5	44·0	·288	3·3	0·6	84	547	–	33·9	0·9	10	12	5	4	7·0	5·1	13	0·88
		June	29·876	0·646	74·2	38·0	36·2	61·9	46·5	15·4	52·4	50·2	·364	4·1	0·3	93	540	–	39·6	1·0	10	9	5	6	8·4	7·5	15	2·52

NOTE.—The Mean Temperature for the month of *April* at MARYLEBONE is deduced from the observations of the Dry-bulb Thermometer only, thus omitting the readings of the Maximum and Minimum Thermometers.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1871. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat^n. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of. N.	Wind. Relative Proportion of. E.	Wind. Relative Proportion of. S.	Wind. Relative Proportion of. W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
NORWICH (Norfolk), C. M. Gibson, Esq., F.M.S.	42	April	29·754	1·114	64·0	26·0	53·0	53·6	38·7	14·9	43·4	40·0	·248	2·8	0·6	82	546	–	–	–	5	8	6	11	–	–	17	3·07
		May	30·034	0·628	74·0	33·0	41·0	59·6	41·4	18·2	49·2	43·3	·281	3·2	0·9	81	547	–	–	–	14	6	4	7	–	–	9	1·33
		June	29·873	0·692	79·0	38·0	41·0	62·9	46·2	16·7	53·0	47·6	·330	3·7	0·8	82	539	–	–	–	14	4	6	6	–	–	18	2·20
WISBECH (Cambridgeshire), S. H. Miller, Esq., F.R.A.S., F.M.S.	14	April	29·774	1·110	66·0	28·0	38·0	56·4	39·9	16·5	47·1	41·8	·265	3·1	0·6	83	544	100·3	37·0	0·5	4	9	7	10	4·5	6·8	14	3·07
		May	30·062	0·608	77·5	34·1	43·4	63·6	42·3	21·3	52·0	43·7	·285	3·3	1·1	74	544	115·7	33·7	0·6	14	7	3	7	3·2	5·8	7	0·74
		June	29·908	0·720	75·2	39·3	35·9	64·7	47·7	17·0	54·0	49·8	·358	4·1	0·6	85	539	111·7	44·9	0·6	14	5	6	5	3·3	7·7	17	4·11
LLANDUDNO (Carcarvonshire), James Nicol, Esq., M.D., and Monia Dalton, Esq., M.D.	100	April	29·637	1·110	64·9	34·3	30·6	57·5	42·9	14·6	48·7	42·4	·273	3·1	0·8	79	540	–	–	0·6	5	7	4	14	–	6·5	15	2·57
		May	29·986	0·618	74·1	37·6	31·5	62·5	45·5	17·0	52·9	44·9	·298	3·4	1·2	75	542	–	–	0·6	5	9	2	15	–	5·2	6	1·19
		June	29·844	0·850	74·4	39·4	35·0	61·7	49·7	15·0	55·7	48·3	·339	3·8	1·2	77	535	–	–	0·4	7	8	3	12	–	6·3	9	2·27
DERBY (Derbyshire), John Davis, Esq.	174	April	29·571	1·111	64·0	28·0	36·0	55·4	40·9	14·5	47·3	41·8	·265	3·1	0·4	82	549	–	–	–	4	7	5	14	–	–	17	3·72
		May	29·868	0·559	77·0	35·0	42·0	61·7	43·7	18·0	52·1	37·4	·223	2·5	1·9	58	541	–	–	–	8	10	3	10	–	–	10	1·68
		June	29·736	0·773	72·0	40·0	32·0	62·6	48·5	14·1	56·0	46·3	·317	3·5	1·5	70	534	–	–	–	12	8	5	5	–	–	17	4·16
NOTTINGHAM (Notts), M. O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	241	April	29·509	1·074	66·6	26·8	39·8	56·6	39·7	16·9	46·9	40·3	·251	3·0	0·7	79	539	92·7	32·2	0·4	8	6	6	10	1·2	6·7	20	3·27
		May	29·812	0·622	79·5	33·6	45·9	63·7	41·9	21·8	51·4	42·2	·270	3·0	1·2	71	540	111·9	33·2	0·4	10	9	3	9	3·1	5·2	10	1·55
		June	29·635	0·750	75·6	36·8	38·8	65·5	47·2	18·3	54·2	47·9	·334	3·8	1·0	79	534	116·6	40·0	0·3	9	10	6	5	2·6	8·0	16	3·40
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	39	April	29·737	1·140	63·2	21·4	41·8	54·1	34·3	19·8	43·8	39·0	·239	2·8	0·5	83	546	103·8	34·1	1·4	8	4	8	10	–	7·1	16	3·05
		May	30·039	0·632	74·0	30·4	43·6	58·3	40·3	18·0	47·8	40·9	·258	3·0	1·0	75	548	122·3	35·8	1·3	19	3	4	5	–	5·9	8	1·05
		June	29·882	0·736	80·2	40·2	40·0	60·2	47·1	13·1	52·6	46·0	·318	3·6	0·9	81	540	121·1	40·2	1·3	18	3	4	5	–	8·2	13	2·06
BOSTON (Lincolnshire), A. Mercer Adam, Esq., M.D., F.M.S.	20	Mar.	29·960	1·018	65·4	29·3	37·1	53·9	37·4	16·5	44·0	40·0	·218	2·8	0·5	81	551	82·6	33·2	1·5	3	9	5	13	1·2	5·2	10	1·02
		April	29·7·0	1·105	64·5	29·5	35·0	53·8	40·5	13·3	45·9	41·2	·260	3·0	0·6	85	545	89·9	34·3	1·0	2	7	5	16	1·2	7·5	18	2·68
		May	30·057	0·562	77·7	35·0	42·7	61·7	42·7	19·0	49·9	42·3	·270	3·1	1·0	75	536	103·4	38·5	1·3	9	10	5	7	1·7	6·3	10	1·43
		June	29·883	0·684	77·2	39·5	37·7	64·3	47·4	16·9	53·2	49·6	·336	4·0	0·5	88	539	105·1	41·6	1·4	10	13	5	2	2·4	8·5	16	3·02
HAWARDEN (Flint), T. Moffat, Esq., M.D., F.R.A.S., F.G.S.	270	April	29·480	1·118	62·6	32·0	30·0	54·8	43·8	11·0	46·7	41·2	·259	3·0	0·7	82	539	19·3	27·1	1·9	6	3	9	12	1·8	7·4	18	2·13
		May	29·814	0·584	79·0	37·0	42·0	61·4	47·9	13·5	51·7	45·5	·305	3·5	0·9	79	540	121·9	27·0	2·4	14	4	5	8	1·1	5·2	13	1·56
		June	29·650	0·802	72·0	49·0	33·0	63·2	51·6	11·6	54·1	48·4	·340	3·9	0·8	81	534	122·8	51·5	2·2	10	5	7	8	0·9	6·8	16	2·80
LIVERPOOL OBSERVATORY, John Hartnup, Esq., F.R.A.S.	197	June	29·750	0·792	72·9	41·4	31·5	62·7	49·0	13·7	54·4	45·9	·309	3·5	1·3	73	536	–	–	1·0	8	7	5	10	–	6·5	12	2·34
ECCLES, near Manchester, T. Mackereth, Esq., F.R.A.S., F.M.S	145	April	29·614	1·114	60·5	30·1	30·4	55·0	39·6	15·4	46·6	39·7	·244	2·8	0·8	78	542	65·4	33·8	0·2	4	7	10	9	3·0	7·0	20	3·64
		May	29·922	0·598	78·9	33·8	45·1	61·6	42·2	19·4	51·4	42·7	·271	3·1	1·2	73	542	75·7	36·0	0·4	9	7	6	9	2·3	4·7	12	1·28
		June	29·7·5	0·738	71·4	36·6	34·8	64·5	46·9	17·6	54·5	45·7	·307	3·5	1·3	70	536	80·7	40·9	0·4	11	8	6	5	1·1	6·0	17	3·34
WILLOW HALL OBSERVATORY (Halifax, Yorkshire), Louis J. Crossley, Esq., F.M.S.	630	April	29·088	1·154	58·0	25·0	33·0	55·5	37·8	12·7	42·7	39·2	·239	2·8	0·4	87	536	95·8	32·1	0·8	4	8	7	11	2·7	7·9	24	4·35
		May	29·399	0·548	72·5	30·0	42·5	57·7	40·6	17·1	47·9	42·2	·239	3·1	0·7	83	536	104·6	35·7	0·7	10	8	4	9	2·9	5·9	12	1·79
PARK ROAD OBSERVATORY (Halifax, Yorkshire), Edward Crossley, Esq., F.R.A.S. and Joseph Gledhill, Esq., F.G.S., F.M.S.	618	April	29·079	1·118	59·0	23·5	35·5	51·1	37·8	13·3	42·6	38·9	·237	2·7	0·4	87	536	83·2	33·1	0·5	4	11	4	11	–	7·8	21	5·06
		May	29·394	0·680	74·5	30·0	44·5	58·6	39·9	18·7	47·6	42·5	·271	3·1	0·6	84	537	100·2	34·5	0·6	5	11	4	11	–	4·8	11	1·71
		June	29·283	0·790	70·0	36·5	33·5	60·4	44·5	15·9	50·2	44·7	·296	3·4	0·7	82	532	102·7	40·5	0·5	10	11	5	5	–	7·9	20	4·14
THE PARK, HULL (Yorkshire), Mr. E. Peak.	12	April	29·781	1·178	63·0	26·0	43·0	53·5	34·9	18·6	43·2	39·7	·245	2·8	0·4	87	549	76·7	34·9	–	–	–	–	–	2·6	–	16	3·06
		May	30·075	0·740	70·0	29·0	41·0	59·4	38·0	21·4	47·7	42·0	·267	3·1	0·7	82	549	88·9	37·5	–	–	–	–	–	4·6	–	8	1·12
		June	29·366	0·804	75·0	34·0	41·0	62·1	44·2	17·9	51·4	46·1	·312	3·5	0·8	82	542	92·4	43·6	–	–	–	–	–	5·0	–	16	2·91
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.A.S., F.M.S.	381	April	29·3·3	1·167	61·4	29·7	31·7	54·2	39·8	14·4	45·4	40·1	·248	2·8	0·6	82	538	100·6	36·8	–	4	8	5	13	–	8·3	24	3·60
		May	29·6·3	0·621	73·1	31·4	43·7	60·9	43·0	17·9	51·4	43·6	·284	3·3	0·9	78	538	117·6	38·3	–	5	7	2	17	–	5·5	16	1·80
		June	29·5·2	0·808	79·0	36·9	33·1	61·1	45·9	16·2	52·9	50·1	·362	4·1	0·4	91	533	118·0	42·9	–	8	9	4	9	–	7·4	18	3·36

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1871. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat^n. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of. N.	Wind. Relative Proportion of. E.	Wind. Relative Proportion of. S.	Wind. Relative Proportion of. W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S., F.M.S.	366	May	29·634	0·576	76·5	32·5	44·0	62·0	43·3	18·7	50·8	40·9	·256	2·9	1·3	69	538	89·5	–	1·0	6	2	3	13	–	5·6	5	0·93
		June	29·540	0·788	70·5	38·0	32·5	62·4	48·4	14·0	53·4	45·0	·299	3·4	1·2	73	533	84·2	–	1·0	7	5	3	9	–	8·1	10	3·20
LEEDS PHILOSOPHICAL HALL (Yorkshire), Louis C. Miall, Esq.	P.	Jan.	29·618	1·620	49·0	11·0	38·0	38·1	27·6	10·5	33·4	29·1	·160	1·9	0·3	85	557	42·8	–	1·5	10	7	6	8	–	8·8	8	0·63
		Feb.	29·769	1·056	58·0	25·0	33·0	47·3	37·2	10·1	42·1	39·2	·239	2·8	0·4	90	550	52·5	–	1·6	8	5	6	9	–	7·8	13	1·09
		Mar.	29·832	1·097	67·0	27·0	40·0	53·8	37·1	16·7	45·3	38·4	·232	2·7	0·8	77	547	67·2	–	1·3	9	5	7	10	–	5·7	6	0·43
		April	29·620	1·201	63·0	28·0	35·0	55·5	38·9	16·6	45·9	40·8	·255	2·9	0·7	83	543	67·9	–	1·2	8	8	7	7	–	7·3	17	3·15
		May	29·938	0·917	83·0	32·0	51·0	64·1	42·5	21·6	52·8	43·2	·279	3·2	1·3	70	541	76·9	–	1·4	12	7	3	9	–	6·2	6	1·00
		June	29·795	0·802	74·0	39·0	35·0	64·5	47·2	17·3	54·5	51·0	·374	4·2	0·6	88	536	74·4	–	1·4	14	6	5	5	–	7·2	16	4·08
OTLEY (Yorkshire), H. W. Thorns, Esq.	205	April	29·535	1·214	58·3	30·0	28·3	51·6	40·3	11·3	44·5	39·0	·238	2·8	0·6	81	543	–	–	1·2	–	–	–	–	–	7·3	9	2·72
YORK (Yorkshire), Fielden Thorpe, Esq.	50	April	29·686	1·213	63·0	31·0	32·0	54·2	41·5	12·7	45·2	42·6	·273	3·1	0·4	91	545	–	–	–	6	12	5	7	–	–	18	2·85
		May	29·987	0·718	76·0	34·0	42·0	61·0	45·1	15·9	50·8	46·5	·317	3·7	0·5	86	543	–	–	–	7	13	6	5	–	–	9	1·34
		June	29·865	0·848	70·0	40·0	30·0	62·7	48·0	14·7	52·9	48·7	·344	3·9	0·6	89	539	–	–	–	11	8	3	8	–	–	14	3·72
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.R.A.S., F.M.S.	148	April	29·607	1·148	63·3	29·7	33·6	54·4	40·3	14·1	46·2	40·2	·219	2·9	0·7	81	542	99·1	33·0	0·4	7	8	3	12	1·5	6·5	16	2·50
		May	29·914	0·696	78·7	28·8	49·9	62·1	42·7	19·4	51·5	42·1	·268	3·0	1·3	71	542	110·5	35·0	0·4	8	4	4	15	1·1	4·6	8	0·97
		June	29·784	0·839	73·9	31·6	39·3	66·5	47·3	19·2	55·2	47·0	·323	3·7	1·2	74	535	119·6	40·5	0·4	10	7	7	6	0·6	5·7	10	1·75
ALLENHEADS (Durham), T. Sopwith, Esq., M.A., F.R.S., F.G.S., F.M.S.	1360	April	28·279	1·094	55·0	27·0	28·0	47·9	34·1	13·8	39·4	35·7	·209	2·4	0·4	87	525	99·9	29·9	1·7	6	8	7	9	–	8·1	26	3·05
		May	28·583	0·714	73·0	22·0	51·0	57·5	39·2	18·3	46·5	39·9	·245	2·9	0·8	79	541	118·1	34·1	1·4	11	5	4	11	–	6·4	14	1·52
		June	28·477	0·779	68·0	33·5	35·5	59·8	43·0	16·8	48·9	43·3	·280	3·5	0·7	81	518	112·8	39·3	1·3	10	7	9	4	–	7·8	20	3·69
SILLOTH RECTORY (Cumberland), Rev. Francis Redford, M.A., F.R.A.S., F.M.S.	28	April	29·685	1·170	66·5	28·6	37·9	54·2	38·9	17·3	45·8	39·8	·265	2·8	0·7	80	545	88·1	34·0	1·0	4	14	5	7	10·0	6·7	15	3·29
		May	30·008	0·739	79·4	27·5	51·9	64·2	42·0	22·2	52·1	41·0	·288	3·3	1·1	74	543	102·0	42·1	1·1	3	8	5	15	7·9	4·3	7	0·85
		June	29·887	0·857	77·2	35·0	42·2	67·8	45·3	22·5	54·3	47·4	·328	3·7	1·1	77	538	104·8	41·1	0·9	6	14	3	7	6·8	5·8	11	1·23
CARLISLE (Cumberland), I. Cartmell, Esq., F.M.S.	114	April	29·630	1·220	68·0	26·5	41·5	55·5	38·2	17·3	45·1	41·4	·261	3·0	0·4	87	544	82·9	33·3	1·2	4	6	9	11	5·5	7·1	18	2·41
		May	29·921	1·010	74·8	25·0	49·8	62·7	41·2	21·5	51·4	42·2	·269	3·0	1·2	71	542	96·7	31·6	1·1	4	8	4	15	5·5	5·2	9	1·30
		June	29·820	0·854	72·0	31·8	40·2	64·7	44·3	20·4	53·1	46·5	·317	3·6	0·9	78	538	99·6	39·1	0·8	8	9	5	8	4·8	6·8	14	2·90
BYWELL (Northumberland), Mr. John Dawson, under the direction of T. Sopwith, Esq., M.A., F.R.S., F.G.S., F.M.S.	87	April	29·652	1·126	61·0	30·0	31·0	53·0	38·9	14·1	43·7	38·9	·237	2·7	0·5	83	546	62·1	32·9	1·0	4	15	2	9	–	6·1	20	3·40
		May	29·945	0·746	76·0	30·0	46·0	61·2	44·3	16·9	50·7	42·9	·276	3·2	1·0	76	543	76·8	37·8	1·1	5	15	3	8	–	1·1	12	0·90
		June	29·828	1·462	71·0	42·0	29·0	62·9	48·3	14·6	53·4	45·6	·306	3·5	1·1	75	538	80·6	41·9	1·1	5	17	3	5	–	5·3	14	3·60
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	April	29·697	1·200	58·0	30·6	27·4	48·7	37·5	11·2	41·7	37·9	·228	2·6	0·4	87	549	–	36·2	1·5	7	10	9	4	–	7·7	23	3·79
		May	30·006	0·738	66·0	29·0	37·0	56·8	41·0	15·8	47·0	42·6	·273	3·2	0·5	85	548	–	40·2	1·6	11	10	5	5	–	6·1	13	1·59
		June	29·885	1·813	68·0	39·5	28·5	56·8	48·3	8·5	51·2	44·7	·296	3·4	0·9	79	542	–	44·9	1·7	10	12	5	3	–	6·4	13	2·54
MILTOWN (Banbridge, Ireland), John Smyth, Esq., Jun., M.A., M.I.C.E.I., F.M.S.	200	April	29·514	1·184	61·0	26·0	35·0	54·2	40·3	13·9	46·2	40·0	·247	2·9	0·7	80	546	93·5	35·6	2·3	4	6	13	7	4·3	5·7	16	2·89
		May	29·869	0·697	72·0	29·0	43·0	61·8	42·9	18·9	51·3	43·2	·279	3·1	1·1	74	541	109·3	37·4	2·2	10	5	7	9	3·5	4·1	8	0·77
		June	29·721	0·874	73·0	37·0	36·0	63·2	48·2	15·0	55·5	48·1	·336	3·8	1·2	77	514	106·8	42·9	2·5	10	7	4	9	3·8	5·6	14	1·76
CULLODEN (Inverness, Scotland), A. Forbes, Esq., F.M.S.	104	Mar.	29·686	1·646	59·1	27·1	32·0	47·0	39·5	7·5	42·9	37·8	·225	2·6	0·5	83	547	81·8	31·8	0·4	2	3	13	13	8·7	5·0	21	1·72
		April	29·660	1·014	55·0	31·8	23·2	46·0	37·5	8·5	41·6	36·5	·217	2·5	0·5	84	548	82·4	30·2	0·2	5	11	6	8	8·8	6·8	17	1·96
		May	29·937	1·158	69·9	35·4	34·5	56·5	45·4	11·1	50·6	42·7	·274	3·1	1·0	77	544	102·5	35·6	0·3	6	3	7	15	8·1	4·9	11	0·45
		June	28·858	0·960	64·9	44·5	20·4	58·2	49·9	8·3	53·9	47·0	·322	3·6	0·9	78	538	98·2	41·7	0·2	9	12	3	6	8·4	5·8	11	0·92

Second Rain-gauges are placed—At Eastbourne, at a height of 4 feet *above the ground*, the amount collected was 7·77 inches; at Portsmouth, 20 feet, 5·94 inches; at Aldershot Camp, 25 feet, 5·75 inches; at Strathfield Turgiss, 38 feet, 5·64 inches; at Marlborough College, 8 inches and 1 foot, 7·76 inches, and 7·77 inches respectively; at Oxford, 22 feet, 6·17 inches; at Cardington, 36 feet, 5·40 inches; at Wisbech, 8 feet, 7·67 inches; at Nottingham, 25½ feet, 7·98 inches; at Eccles, 34 feet, 8·24 inches; at Cockermouth, 6½ feet, 4·84 inches; at Allenheads, 6¾ feet, 8·54 inches; and at Miltown (Ireland), 40 feet, 4·61 inches. The amount collected at Beachy Head, 610 feet, *above the level of the sea*, was 8·35 inches; and at the Bann Reservoir, Miltown (Ireland), 440 feet, was 7·60 inches.

Note.—*The Barometer Reading*, April 5th, at 9h. A.M., York, 30·940 inches has been altered to 29·940 inches.
" " May 18th, 5h. P.M., Hull, 29·082 " " 30·082 "
" " June 27th, 7h. P.M., Taunton, 29·062 " " 30·062 "

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Rain. Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·678	69·5	37·5	32·0	56·8	46·7	23·2	10·1	50·5	46·5	·317	3·6	0·6	86	538	—	—	1·6	9	7	6	8	5·1	4·3	36	6·69
Helston	29·707	77·0	32·0	45·0	64·3	47·2	35·3	17·1	54·2	45·8	·310	3·5	1·3	74	538	89·3	44·2	2·4	7	8	5	10	4·5	4·0	37	7·02
Truro	29·680	80·0	29·0	51·0	61·7	47·2	39·7	14·5	53·5	45·8	·310	3·5	1·1	76	540	—	—	2·7	10	7	5	9	—	6·1	38	5·88
Sidmouth	29·669	72·7	32·3	40·4	58·9	45·8	31·4	13·1	51·5	45·1	·302	3·4	0·9	77	542	—	—	1·0	6	6	9	10	—	3·3	41	7·13
Eastbourne	29·663	72·6	32·7	39·9	60·7	44·5	33·8	16·4	51·7	44·7	·296	3·4	1·0	77	542	109·7	38·1	0·7	7	8	3	12	4·5	—	41	7·75
Osborne	29·656	76·0	34·7	41·3	62·1	44·8	35·1	17·3	51·7	49·6	·356	4·0	0·3	93	539	101·9	42·1	0·4	8	6	6	10	—	6·3	35	6·78
Bournemouth	29·674	71·8	32·9	38·9	59·0	45·3	31·7	13·7	51·3	45·0	·300	3·4	0·8	80	540	116·8	—	—	9	6	5	10	4·2	4·6	36	7·56
Portsmouth	29·646	78·9	30·0	48·9	65·5	43·1	39·0	22·4	51·8	45·5	·307	3·5	0·9	79	542	106·2	38·1	0·7	7	7	7	9	1·5	5·1	29	6·05
Worthing	29·649	70·8	34·4	36·4	59·1	45·5	30·9	13·6	50·8	44·5	·295	3·3	0·9	79	543	120·3	41·7	1·1	7	6	7	11	5·3	5·5	37	7·00
Brighton	29·589	72·8	33·5	39·3	60·0	45·4	32·3	14·6	51·4	45·0	·301	3·4	0·9	79	537	—	43·1	1·2	7	7	6	10	2·6	6·8	37	8·00
Taunton	29·623	87·7	28·2	59·5	64·2	43·8	46·3	20·4	52·8	45·9	·311	3·6	1·0	78	539	75·9	41·7	0·2	8	7	5	11	6·4	4·4	40	6·16
Barnstaple	29·624	79·0	33·0	46·0	63·6	48·5	34·8	15·1	54·9	47·5	·323	3·6	1·2	75	538	—	—	1·2	6	6	8	10	—	3·4	37	7·03
Aldershot Camp	29·673	89·6	29·0	51·6	63·1	43·6	41·5	19·5	51·5	43·8	·284	3·2	1·1	76	536	111·5	40·8	1·4	10	6	5	10	2·6	7·1	40	7·20
West Harptree Vicge.	29·653	83·0	29·2	55·8	62·7	45·4	44·0	19·3	51·8	45·2	·302	3·4	0·9	78	537	121·3	32·1	0·5	3	8	6	13	3·1	6·5	38	8·60
Strathfield Turgiss	29·672	89·1	22·9	57·2	62·2	42·2	45·0	20·0	50·8	43·7	·285	3·2	1·0	77	539	113·7	37·0	1·1	8	8	4	10	5·1	6·2	36	6·89
Weybridge Heath	29·681	82·5	26·0	56·5	63·1	42·6	45·7	20·5	51·2	45·0	·301	3·4	0·8	80	540	104·2	39·8	0·8	9	7	7	7	2·1	6·5	38	7·14
Marlborough College	29·685	78·1	25·7	52·4	59·4	42·6	39·1	16·8	49·5	43·6	·285	3·2	0·8	81	536	123·4	37·3	—	8	9	4	9	3·7	7·3	40	7·99
Chiselhurst	29·648	81·1	23·1	55·0	64·5	42·5	43·0	22·7	51·4	44·7	·298	3·4	0·9	78	540	118·3	40·1	—	9	8	4	9	—	—	44	6·39
Royal Observatory	29·649	79·5	29·1	50·4	62·8	43·7	40·5	19·1	51·5	44·9	·299	3·4	0·9	78	539	113·3	37·4	0·3	9	8	6	8	—	6·9	43	6·68
Marylebone	—	81·2	—	—	63·3	—	—	—	52·7	—	—	—	—	—	—	—	—	—	8	6	6	10	—	6·5	41	7·31
Camden Town	29·634	79·0	28·3	50·7	63·6	44·1	39·6	19·5	52·2	45·9	·312	3·6	0·9	80	539	98·3	42·7	—	11	8	5	6	—	5·9	41	7·26
Oxford	29·650	80·4	26·8	53·6	62·1	45·0	40·0	17·1	52·1	44·3	·293	3·3	1·1	75	538	110·2	39·5	0·9	10	6	5	9	3·9	7·3	35	6·21
Gloucester	29·698	85·0	30·0	55·0	65·0	44·5	46·0	20·5	53·1	45·3	·305	3·4	1·1	75	539	105·9	44·8	0·6	8	8	5	10	3·5	6·5	32	6·46
Royston	29·675	81·7	22·4	58·3	63·2	42·3	45·9	20·9	50·6	45·2	·304	3·5	0·7	83	538	—	—	—	12	4	6	8	—	6·7	42	6·07
Cardington	29·650	79·4	23·0	55·4	62·7	42·6	43·2	19·5	51·2	44·4	·297	3·3	0·9	78	541	85·4	37·4	0·8	11	7	5	8	—	6·6	38	6·45
Lampeter	29·675	84·5	29·2	55·3	63·6	43·5	40·3	20·1	52·0	43·9	·288	3·2	1·1	74	533	108·8	—	0·8	8	7	6	9	5·4	6·4	36	9·69
Leamington	29·665	79·0	29·0	50·0	61·1	44·2	38·8	16·9	51·1	42·8	·277	3·1	1·1	73	539	—	—	0·8	9	7	5	10	—	—	41	6·84
Somerleyton Rectory	29·607	74·2	26·2	48·0	58·4	42·3	38·3	16·1	48·8	45·7	·309	3·5	0·4	89	544	—	35·2	0·9	8	10	6	6	7·8	6·4	47	6·87
Norwich	29·647	79·0	23·0	53·0	58·7	42·1	40·0	16·6	49·2	43·6	·286	3·2	0·8	82	544	—	—	—	11	6	5	8	—	—	44	6·69
Wisbech	29·627	77·5	28·0	49·5	61·6	43·3	39·1	18·3	51·0	45·1	·303	3·5	0·8	81	542	109·2	40·2	0·6	11	7	5	7	3·7	6·8	38	7·92
Llandudno	29·636	74·4	34·3	40·1	61·6	46·0	34·0	15·6	52·4	45·2	·303	3·4	1·1	77	539	—	—	0·5	6	8	3	14	—	6·0	30	6·03
Derby	29·647	77·0	28·0	49·0	59·9	44·4	36·7	15·5	52·8	41·9	·268	3·0	1·3	70	538	—	—	—	8	8	4	10	—	—	44	9·56
Nottingham	29·642	79·5	26·8	52·7	61·9	42·9	41·5	19·0	50·8	43·5	·285	3·3	1·0	76	538	107·1	35·1	0·4	9	8	5	8	2·3	6·6	46	8·22
Holkham	29·657	80·2	21·4	58·8	57·5	40·6	41·8	16·9	48·1	42·0	·272	3·1	0·8	80	545	115·7	36·7	1·3	15	3	5	7	—	7·1	37	6·16
Boston	29·624	77·7	29·5	48·2	59·9	43·5	38·5	16·4	49·7	44·4	·289	3·4	0·7	83	547	98·8	39·8	1·2	7	10	5	8	1·8	7·4	44	7·13
Hawarden	29·647	79·0	32·0	47·0	59·8	47·8	35·0	12·0	50·8	45·0	·301	3·5	0·8	81	538	114·7	28·5	2·2	10	4	7	9	1·3	6·5	47	6·49
Eccles	29·661	78·9	30·1	48·8	60·4	42·9	36·8	17·5	50·8	42·7	·275	3·1	1·1	74	540	73·8	36·9	0·3	8	7	7	8	2·1	5·9	49	8·96
Park Road, Halifax	29·620	74·5	23·5	51·0	56·7	40·7	37·8	16·0	46·8	42·0	·268	3·1	0·6	84	535	95·4	36·0	0·5	6	11	4	9	—	6·8	52	10·91
Hull	29·669	75·0	20·0	55·0	58·3	39·0	41·7	19·3	47·8	42·6	·275	3·1	0·6	84	547	85·0	38·7	—	—	—	—	—	4·1	—	49	7·09
Stonyhurst	29·632	75·1	29·7	45·4	59·4	43·2	36·2	16·2	49·6	44·6	·298	3·4	0·6	84	536	112·1	39·3	—	6	8	4	13	—	7·1	58	8·76
Leeds	—	83·0	28·6	55·0	61·4	42·9	40·3	18·5	51·1	45·0	·303	3·4	0·9	80	540	76·4	—	1·3	11	7	5	7	—	6·9	39	8·23
York	29·591	76·0	31·0	45·0	59·3	44·9	34·7	14·4	49·6	45·9	·311	3·6	0·5	88	542	—	—	—	8	11	5	7	—	—	41	7·91
Cockermouth	29·650	78·7	28·8	49·9	61·0	43·4	40·9	17·6	51·0	43·1	·280	3·2	1·1	75	540	109·7	36·2	0·4	8	6	5	11	1·1	5·6	34	5·22
Allenheads	29·566	73·0	22·0	51·0	55·1	38·8	38·2	16·3	44·9	39·6	·245	2·9	0·6	82	528	110·3	34·4	1·5	9	7	7	8	—	7·4	60	8·26
Silloth	29·597	79·4	27·5	51·9	62·7	42·1	44·0	20·6	50·8	43·7	·294	3·3	1·0	77	542	98·3	39·1	1·0	4	12	4	10	8·2	5·6	33	5·37
Carlisle	29·633	74·8	25·0	49·8	61·0	41·2	43·8	19·8	49·9	43·4	·282	3·2	0·8	79	541	93·1	34·7	1·0	5	8	6	11	5·3	6·4	41	6·61
Bywell	29·629	76·0	30·0	46·0	59·0	43·8	35·3	15·2	49·3	42·5	·273	3·1	0·9	78	542	73·2	37·5	1·1	5	16	3	7	—	4·2	46	7·90
North Shields	—	68·0	29·0	39·0	54·1	42·3	31·0	11·8	46·6	41·7	·266	3·4	0·6	84	—	—	40·4	1·6	9	11	6	4	—	6·7	49	7·92
Miltown (Ireland)	29·630	73·0	26·0	47·0	59·7	43·8	38·0	15·9	51·0	43·8	·287	3·3	1·0	77	542	103·2	38·6	2·3	8	6	8	8	3·9	5·1	38	5·42

The highest temperatures of the air were at Taunton, 87°·7; Gloucester, 85°·0; Lampeter, 84°·5; Leeds, 83°·0; Weybridge Heath, 83°·5; West Harptre Vicarage, 82°·0; Royston, 81°·7; Marylebone, 81°·2; and at Chiselhurst, 81°·1.

The lowest temperatures of the air were at Hull, 20°·0; Holkham, 21°·4; Allenheads, 22°·0; Strathfield Turgiss, 22°·9; Cardington, 23°·0; Royston, 23°·4; Park Road Observatory, 23°·5; Carlisle, 25°·0; and at Marlborough College, 25°·7.

The greatest daily ranges of the air were at Portsmouth, 22°·4; Chiselhurst, 22°·0; Royston, 20°·9; Silloth, 20°·6; and at Weybridge Heath and Gloucester, 20°·5.

The least daily ranges of the air were at Guernsey, 10°·1; North Shields, 11°·8; Hawarden, 12°·0; Sidmouth, 13°·1; Worthing, 13°·6; and at Bournemouth, 13°·7.

The greatest number of rainy days were at Allenheads, 60; Stonyhurst, 58; Park Road Observatory, 52; Eccles and North Shields, 49; and at Somerleyton Rectory and Hawarden, 47.

The least number of rainy days were at Portsmouth, 29; Llandudno, 30; Gloucester, 32; Silloth, 33; Cockermouth, 34; and at Osborne and Oxford, 35.

The heaviest falls of rain were at Park Road Observatory, 10·91 inches; Lampeter, 9·69 inches; Derby, 9·56 inches; Eccles, 8·96 inches; Stonyhurst, 8·76 inches; West Harptre Vicarage, 8·60 inches; Allenheads, 8·26 inches; Leeds, 8·23 inches; Nottingham, 8·22 inches; and at Brighton, 8·00 inches.

The least falls of rain were at Cockermouth, 5·22 inches; Silloth, 5·37 inches; Miltown, 5·42 inches; Truro, 5·88 inches; Llandudno, 6·03 inches; Portsmouth, 6·05 inches; Royston, 6·07 inches; and at Taunton and Holkham, 6·16 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Rain. Mean Amount of Cloud.	Rain. Mean Number of Days it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·678	69·5	37·5	32·0	56·8	46·7	23·2	10·1	50·5	46·5	·317	3·6	0·6	86	538	—	—	1·6	9	7	6	8	5·1	4·3	36	6·69
Between 50° and 51°	29·654	74·7	32·4	42·3	61·3	45·4	34·4	15·9	52·0	45·7	·309	3·5	0·9	79	540	—	41·2	1·3	8	7	6	10	3·8	5·2	37	7·02
Between 51° and 52°	29·657	81·3	27·5	53·8	63·0	43·9	42·2	19·1	51·9	45·0	·301	3·4	1·0	78	539	—	38·4	0·5	8	8	5	9	—	6·1	39	7·01
Between 52° and 53°	29·646	78·7	27·1	51·6	60·8	43·1	40·3	17·7	50·6	44·0	·290	3·3	0·9	79	541	—	37·4	0·8	10	7	5	9	—	6·7	41	7·30
Between 53° and 54°	29·637	77·4	27·8	49·6	59·3	43·1	37·5	16·2	49·5	44·0	·290	3·3	0·7	82	540	—	35·9	—	8	8	5	9	—	6·6	47	8·26
Between 54° and 55°	29·627	77·2	27·8	49·4	60·9	42·6	41·0	18·3	50·2	43·2	·282	3·2	0·9	77	541	—	36·9	0·9	5	10	5	10	—	5·5	39	6·28
Miltown, Banbridge (Ireland)	29·630	73·0	26·0	47·0	59·7	43·8	38·0	15·9	51·0	43·8	·287	3·3	1·0	77	542	—	38·6	2·3	8	6	8	8	3·9	5·1	38	5·42
Mean for the Quarter 50° to 55° — Year 1868	29·709	83·5	28·5	55·0	65·3	45·8	41·4	19·5	54·4	47·3	·333	3·7	1·1	78	538	109·2	39·7	1·0	5	6	8	11	—	4·6	27	4·27
Mean for the Quarter 50° to 55° — „ 1869	29·686	79·0	30·7	48·3	59·9	43·7	38·3	16·2	50·7	44·1	·291	3·3	0·9	80	540	—	39·5	1·3	8	8	6	8	—	6·0	38	6·77
Mean for the Quarter 50° to 55° — „ 1870	29·792	82·6	28·1	54·5	63·9	44·4	44·1	19·3	52·8	44·9	·303	3·4	1·1	75	541	107·0	37·7	1·2	7	4	6	13	—	5·2	25	3·57
Mean for the Quarter 50° to 55° — „ 1871	29·644	77·9	28·5	49·4	61·1	43·6	39·1	17·5	50·8	44·4	·294	3·3	0·9	79	540	—	38·0	0·7	8	8	5	9	—	6·0	41	7·19

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING SEPTEMBER 30, 1871.

Remarks on the Weather during the Quarter ending September 30th, 1871.

By James Glaisher, Esq., F.R.S., *&c., Secretary of The Meteorological Society.*

The cold weather which had been generally prevalent throughout the preceding quarter continued with the slight exception of the few days, July 14th to 21st, till August 5th. This was followed by a period of 42 days of warm and genial weather, extending from August 6th to September 16th, during which interval the mean excess of temperature above the average, was $4\frac{1}{2}$° daily. From this time to the end of the quarter the weather was again cold, and heavy rain fell everywhere, the average deficiency of temperature was $3\frac{1}{4}$° daily.

In the middle of August all crops were backward, but the fine and forcing weather which followed, brought them rapidly to maturity, almost simultaneously, but the gathering in of the harvest was much delayed by the scarcity of labour. By the end of August a large portion of the crops had been stacked. At the end of the quarter the rain was very beneficial to the south of England, but interfered with the completion of the harvest in Scotland, and also in some backward Irish districts. There were considerable complaints about the spread of the potato disease at different times during the quarter, by the completely rotting away of the tuber, so that the stems were left without tubers attached. Generally the wheat crop was considered deficient.

For the whole country the temperature for the quarter was lower, both in its high day, low night, and mean value, than in the corresponding quarter in the three preceding years, whilst the amount of water mixed with the air was the same as that in the years 1869 and 1870, and therefore the humidity of the air was the same as that in the years 1869 and 1870, and therefore the fall of rain was nearly double of that in the same period in 1870, and exceeds both that in 1868 and 1869 by $2\frac{1}{4}$ inches, and $2\frac{3}{4}$ inches respectively.

The changes of atmospheric pressure were small in amount but frequent during July, the tendency, however, being towards higher values in the middle than at the beginning and end of the month. The maximum value, 30·06 in. occurred on the 6th, and the minimum, 29·24 in. on the 25th, thus giving a range of 0·82 in.

In August, the oscillations were larger than in July, the principal movements being an increase to 30·02 in. on the 10th, a decrease to 29·26 in. on the 18th, an increase to 29·80 in. on the 21st, a decrease to 29·56 in. on the 24th, an increase to 30·31 in. on the 28th, and a decrease to 29·82 in. on the 30th. The maximum value recorded was 30·31 in., and the minimum 29·26 in., the range being 1·05 in.

The mean daily values in September were generally below the average from the 1st to the 11th, and from the 20th to the end of the month, the means for the remaining days being in excess. During the last few days several large movements were recorded, and on the 27th the minimum for the month occurred, viz. 28·85 in. The highest reading was 30·12 in. on the 14th, and the range 1·27 in.

The mean temperature of July was 61°·7, being 0°·1 higher than the average of 100 years, but lower than the corresponding values in 1870, 1869, and 1868.

1871. Months.	Temperature of Air. Mean.	Temperature of Air. Diff. from average of 100 years.	Temperature of Air. Diff. from average of 30 years.	Temperature of Evaporation. Mean.	Temperature of Evaporation. Diff. from average of 30 years.	Temperature of Dew Point. Mean.	Temperature of Dew Point. Diff. from average of 30 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 30 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 30 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 30 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	grs.
July	61·7	+ ^	−0·3	57·5	0·0	53·9	+0·1	18·6	−2·5	63·8	0·416	+0·001	4·6	0·0
Aug.	64·8	+4·0	+3·5	59·1	+1·8	54·4	+0·7	21·3	+4·7	66·7	0·424	+0·008	4·7	+0·1
Sept.	57·4	+0·9	+0·1	53·5	−0·6	49·9	−1·3	17·5	−1·2	61·3	0·360	−0·021	4·0	−0·2
Mean	61·3	+1·7	+1·1	56·7	+0·4	52·7	−0·3	20·1	+0·3	63·9	0·400	−0·004	4·4	0·0

1871. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 30 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 30 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 30 years.	Rain. Amount.	Rain. Diff. from average of 56 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
	°	°	in.	in.	grs.	grs.	in.	in.	Miles.				°	°
July	76	+ 1	29·690	−0·117	526	− 2	3·3	−0·7	292	0	1	30	39·3	60·7
Aug.	69	− 8	29·855	+0·063	526	− 3	0·9	−1·5	215	0	4	27	36·4	60·5
Sept.	76	− 5	29·719	−0·035	532	− 1	4·1	+1·7	238	2	8	20	27·3	52·7
Mean	74	− 4	29·755	−0·050	528	− 2	Sum 8·3	Sum −0·5	Mean 248	Sum 2	Sum 13	Sum 77	Lowest 27·3	Highest 60·7

Note.—In reading this table it will be borne in mind that the minus sign (−) signifies below the average, and that the plus sign (+) signifies above the average.

E. & S.—500.—11/71.

The mean temperature of August was 64°·8, being 4°·0 higher than the average of 100 years, and in the period 1771–1870, the only instances in which the corresponding values have been the same as, or in excess of this value are :—1780, 65°·7; 1802, 64°·8; 1842, 65°·4; and 1857, 65°·8.

The mean temperature of September was 57°·4, being 0°·9 higher than the average of 100 years, and higher than in 1870 by 1°·7.

The mean high day temperatures of July and September were lower, and of August higher, than their respective averages.

The mean low night temperatures of July, August, and September were higher than their respective averages.

Therefore the days in July and September were cold, and in August warm, while the nights were warm during the whole three months.

The daily ranges of temperature were less than their respective averages in July and September by 2°·5 and 1°·2 respectively, but greater in August by 4°·7.

The fall of rain was 0·7 in. and 1·5 in. respectively, in defect in July and August, and 1·7 in. in excess in Sptember.

The mean temperature of the air in the three months ending August, constituting the three summer months, was 60°·4, being 0°·2 higher than the average of 100 years.

Thunderstorms occurred on the 1st of July at Liverpool, Hull, Bywell, North Shields, and Miltown; on the 2d at Carlisle; on the 3d at Weybridge, Chislehurst, and Culloden; on the 4th at Lampeter, Boston, Hawarden, Stonyhurst, Allenheads, Carlisle, Bywell, and Culloden; on the 5th at Norwich, Holkham and Boston; on the 6th at Holkham; on the 8th at Willow Hall, Hull, and Stonyhurst; on the 9th at Boston, Willow Hall, Park Road Observatory, Hull, Bradford, and Miltown; on the 10th at Portsmouth, Hawarden, Liverpool, Stonyhurst, Allenheads, Bywell, and North Shields; on the 14th at Stonyhurst, North Shields, and Miltown; on the 22d at Boston, and Culloden; on the 23d at Strathfield, Camden Town, Gloucester, Norwich, Carlisle, North Shields, Culloden, and Leamington; on the 24th at Boston; on the 25th at Eastbourne, Camden Town, Liverpool, and Stonyhurst; on the 26th at Eastbourne and Holkham; on the 28th at Hull and Culloden; on the 29th at Truro, Taunton, West Harptre, Marlborough College, Oxford, Holkham, Boston, Liverpool, Eccles, and North Shields; on the 30th at Truro, Oxford, Somerleyton, Holkham, Allenheads, Carlisle, and Bywell; on the 5th of August at Marylebone; on the 13th at Truro, Osborne, Taunton, West Harptre, Marlborough College, Gloucester, and Cardington; on the 14th at Helston, Truro, Taunton, and Gloucester; on the 16th at Leamington; on the 17th at Truro, Royston, Cardington, Wisbech, Boston, Hull, York, Cockermouth, and Silloth; on the 18th at Cardington, Eccles, York, Cockermouth, Allenheads, and Silloth; on the 19th at Carlisle; on the 20th at Miltown; on the 25th at Park Road Observatory, Cockermouth, and Carlisle; on the 2d of September at Camden Town, Norwich, and Leamington; on the 6th at Osborne, Portsmouth, Marlborough, Norwich, Hull, York, and North Shields; on the 9th at Marlborough College, and Wisbech; on the 10th at Osborne and Portsmouth; on the 23d at Guernsey; on the 26th at Wisbech and Silloth; on the 27th at Cardington; on the 30th at Stonyhurst.

Thunder was heard, but lightning was not seen, on the 12th of July at Allenheads; on the 13th at Osborne, Streatley, Oxford, and Royston; on the 14th at Guernsey; on the 16th at Cardington; on the 17th at Guernsey, Liverpool, Eccles, and Park Road; on the 18th at Royston and Stonyhurst; on the 19th at Marylebone and Wisbech; on the 25th at Marylebone and Willow Hall; on the 1st of August at Stonyhurst and Allenheads; on the 2d at Oxford and North Shields; on the 3d at Strathfield Turgiss and Stonyhurst; on the 5th at Chislehurst, Oxford, Llandudno, Silloth, and Carlisle; on the 7th at Lampeter; on the 8th at Oxford, Liverpool, and North Shields; on the 9th at Oxford and Allenheads; on the 10th at Portsmouth; on the 12th at Liverpool; on the 15th at Stonyhurst; on the 16th at Bywell; on the 21st at Liverpool; on the 22d at Hull; on the 23d at Chislehurst, Oxford, Gloucester, Somerleyton, Hull, Silloth, and Bywell; on the 24th at Hull; on the 26th at North Shields; on the 28th at Boston and Stonyhurst; on the 29th at Hull, Stonyhurst, Bywell, and Culloden; on the 30th at Gloucester and Hull; on the 31st at Hull; on the 2d of September at Osborne and Chislehurst; on the 3d at Silloth; on the 6th at Guernsey; on the 9th at Hull; on the 23d at Wisbech; on the 30th at Chislehurst.

Lightning was seen, but thunder was not heard, on the 3d of July at Brighton; on the 12th at Guernsey, Eastbourne, Worthing, Oxford, and Brighton; on the 13th at Worthing, Weybridge, Streatley, Oxford, Royston, Cardington, Llandudno, and York; on the 14th at Eastbourne, Weybridge, Streatley, Oxford, Cardington, Strathfield Turgiss, Llandudno, Liverpool, Cockermouth; on the 15th at Worthing, Llandudno, and Brighton; on the 16th at Streatley, Oxford, Cardington, Boston, and Hull; on the 17th at Stonyhurst and Carlisle; on the 22d at Portsmouth; on the 23d at Brighton; on the 24th at Worthing; on the 28th at Hull; on the 29th at Gloucester; on the 5th of August at Guernsey and Brighton; on the 6th at Camden Town, Cardington, and Stonyhurst; on the 10th at Helston; on the 11th at Osborne and Portsmouth; on the 15th at Guernsey; on the 17th at Strathfield Turgiss; on the 21st at Hull; on the 26th at Silloth; on the 28th at Wisbech; on the 30th at Taunton, Llandudno, and Carlisle.

Solar halos were seen on the 5th, 8th, 10th, and 18th of August; and on the 25th, 27th, and 30th of September.

Lunar halos were seen on the 3d, 28th, and 29th of July; on the 27th of August; and on the 24th, 25th, and 26th of September.

Auroræ Boreales were seen on the 3d, 15th, 19th, 26th, and 31st of July; on the 7th, 10th, 13th, 21st, 23d, and 24th of August; and on the 1st, 4th, 5th, 7th, 9th, 15th, 22d, and 24th of September.

Hail fell on the 3d, 8th, 23d, 25th, 26th, and 29th of August; and on the 9th, 22d, 24th, and 29th of September.

Fog prevailed on the 11th, 12th, 13th, 14th, 15th, 16th, 17th, 19th, 21st, and 31st of July; on the 6th, 7th, 8th, 9th, 11th, 12th, 13th, 14th, 16th, 17th, 18th, 20th, 21st, 22d, 29th, 30th, and 31st of August; and on the 7th, 11th, 16th, and 23d of September.

July.

Helston. *Harvest Prospects.*—The report of the coming wheat crop is not encouraging, it is said to be generally thin. Barley is also thin. Oats are better, but not abundant. Hay though a fair crop has been badly saved and much destroyed. Mangolds and turnips germinated well, and the latter promises to be a good crop. Disease has made its appearance in the potatoes since the hot weather set in. There was a fair show of apple blossom in the beginning of the year, promising a fair gathering, but the greater portion has fallen off and the crop will be slight. A bad season altogether for fruit.

Strathfield Turgiss, Hants.—At this time last year farmers in this district were busy carting wheat, whereas this year none is as yet ripe nor will be so for another week even upon the earliest soils, whilst in the woodland districts it will be still later, and will be the latest harvest since 1860. We trust too the weather may be suitable, for should the weather be wet there is a probability of the corn crops being seriously injured. This year's wheat crop will certainly be under the average for quantity, although barley and oats may reach an average. Peas will not turn out so well as we expected; but beans are undoubtedly a better crop than has been grown for years. The second growth of clover is better than could have been expected, and may make up for the damage done to the first cut by the heavy rains. All sorts of lean sheep are bare and will probably remain so, and the increased value of wool will keep up prices of lean sheep.

August.

Halifax.—In this locality the grain crops are good, some has been gathered in, though much is yet uncut. The weather has been very suitable for harvest operations. In many cases a second crop of grass has been cut and well got in. Turnip crop plentiful and healthy.

Carlisle.—There is still a continuance of unsettled weather; heavy showers of rain have fallen every day except the 3d, 5th, and 6th during July and so far in August. There was an agreeable change in the weather after the south-westerly gale of the 4th, which up to the 17th has been very fine and summer-like. There is now a marked change in the appearance of corn all through the district, which is ripening very fast. Heavy showers have again prevailed with remarkably strong winds; hail, thunder, and lightning doing considerable damage to both life and property with so much rain. The potato disease has again made its appearance. We have had a fine clear atmosphere for a few days, and harvest operations are now progressing favourably.

Strathfield Turgiss.—The weather during the last half of the past month has been most favourable for harvest operations; but the greatest portion of the oats and a considerable moiety of the wheat is still uncut in the woodland districts, and as the young clover is unusually strong, the corn it was sown amongst will require a long exposure in the field before it becomes fit for carting; nearly the whole of the beans are yet uncut, wheat straw will be more bulky than was expected, but it is sadly full of weeds. The wheat will vary more than usual, both in quantity and quality, and the crop as a whole is below the average. Some of the barley will not turn out so good for malting purposes as was expected, as it died off too quickly during the hot weather, but the crop is a good one; the second growth of clover is very good, and all sorts of root crops are also good; the potato disease which was remarked at the close of July, has been somewhat checked by the recent dry and hot weather, and will not we trust do much further mischief.

Miltown Banbridge, Ireland.—The harvest is very good this year. Wheat is a fair crop. Oats extremely good, and green crops abundant. The disease has, however, visited the potato crop, which has already suffered severely. The flax in this neighbourhood has almost altogether failed, as, owing to the dry weather early in the season, it did not spring up fast enough to escape the fly, but was eaten up, so the ground was ploughed up and other crops, such as turnips, put in; in later districts, however, it did better.

September.

Strathfield Turgiss.—The past month has been favourable for harvest operations, the rain at the commencement not only assisted the growth of roots but also that of trifolium, which is now a good plant. Some of the corn crops have been carried too soon, and a few stacks have required turning to stop heating; the crops, however, have been got together in a most satisfactory state, considering the lateness of the harvest. A few beans are still standing in the woodland district, and will be greatly damaged by the late rains. Beans are, however, the best crop of the year, and are much more free from weevil than for years past. Both oats and barley are an average crop, the former also a good sample, but the latter has ripened too quickly to produce a good maltster's grain; what wheat has been thrashed varies in quality and quantity, the sample varies from 60 to 65 lbs. per bushel, and the yield reaches from 40 bushels per acre to as low as 6 bushels. Lean sheep fully maintain their high prices, and from the abundance of keep and roots, are likely to do so; it seems to us that consumption has overtaken the supply, and that we shall for the future have the same high prices. The second clover crop is better than the first, and has been mostly made into hay. The hops are so light a crop that the picking has only lasted 10 days, instead of the usual three weeks. Swedes and turnips are very good, but there has not been enough rain for the mangolds.

Cumberland.—Harvest work well nigh completed. Cereal crops rather below the average. Turnips, swedes, and mangolds saved. Potatoes much diseased on strong heavy land, fully five sixths of the crops destroyed, on peaty and sandy soil the result is more favourable.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING SEPTEMBER 30TH, 1871.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the fifth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.=100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY. Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.R.C.P., F.M.S.	204	July	29·713	0·810	74·0	50·5	23·5	63·4	53·7	9·7	59·3	54·2	·421	4·7	0·9	84	529	–	–	1·7	3	3	10	15	4·4	4·6	15	3·98
		Aug.	29·817	1·165	76·3	52·8	23·5	63·6	56·9	9·7	62·6	56·7	·461	5·1	1·2	81	527	–	–	1·0	8	10	5	8	4·0	3·5	9	1·43
		Sept.	29·633	1·116	71·8	45·3	26·5	62·0	53·7	8·3	58·6	52·9	·401	4·5	1·0	82	529	–	–	1·5	8	11	5	6	5·0	3·9	16	5·31
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	105	July	29·816	0·813	80·0	46·0	34·0	67·5	51·8	15·7	60·6	52·6	·397	4·4	1·5	75	530	90·7	50·3	2·4	4	3	8	16	3·3	5·4	17	5·25
		Aug.	29·970	1·028	86·0	47·0	39·0	74·8	54·8	20·0	64·5	58·3	·487	5·3	1·4	80	528	105·1	51·5	1·9	4	11	7	9	2·7	4·0	9	1·35
		Sept.	29·785	1·285	76·0	42·0	34·0	66·2	50·4	15·8	58·4	51·2	·421	4·7	0·8	86	531	84·8	46·9	2·2	5	15	4	6	3·3	5·7	16	8·27
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	July	29·874	0·668	78·0	45·0	33·0	65·1	53·9	11·2	59·0	54·3	·422	4·7	0·9	85	532	–	–	2·6	6	2	6	17	–	6·5	20	5·24
		Aug.	30·008	1·363	85·0	46·0	39·0	71·9	54·7	17·2	62·8	56·5	·457	5·1	1·3	80	530	–	–	2·0	8	10	7	6	–	4·4	11	1·85
		Sept.	29·834	1·344	75·0	39·0	36·0	64·3	49·8	14·5	56·8	51·8	·385	4·3	0·9	84	531	–	–	2·3	10	11	4	5	–	6·1	18	8·50
SIDMOUTH (Devon), J. Ingleby Mackenzie, Esq., M.B., F.M.S.	30	July	29·768	0·754	73·6	46·0	27·6	63·9	52·3	11·6	58·5	50·9	·373	4·2	1·3	76	533	–	–	1·2	7	0	7	17	–	3·6	22	3·55
		Aug.	30·014	1·130	80·7	46·0	34·7	68·4	53·6	14·8	61·6	57·9	·480	5·3	0·8	88	532	–	–	1·0	4	5	10	12	–	1·7	8	0·63
		Sept.	29·852	1·234	70·9	38·4	32·5	61·6	49·3	12·3	56·0	54·9	·416	4·7	0·3	92	535	–	–	1·4	8	10	5	7	–	2·9	13	4·88
EASTBOURNE (Sussex), Miss W. L. Hall.	12	July	29·888	0·864	76·6	49·5	27·1	67·5	53·2	14·3	61·9	55·4	·439	5·0	1·3	80	529	120·9	48·5	0·7	4	2	8	17	4·8	–	15	3·88
		Aug.	30·048	0·971	84·5	49·5	35·0	72·5	54·8	17·7	65·6	56·9	·464	5·1	1·8	74	528	123·2	48·7	0·5	6	10	10	5	2·8	–	8	1·11
		Sept.	29·865	0·947	79·6	39·9	39·7	65·6	50·2	15·4	58·8	51·2	·377	4·3	1·3	76	533	96·6	43·3	0·8	9	11	4	6	3·0	–	12	3·88
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	July	29·795	0·754	81·4	47·8	33·6	67·8	51·8	16·0	59·9	57·3	·470	5·2	0·6	92	528	108·0	52·0	0·2	3	3	14	11	–	5·7	18	4·07
		Aug.	29·854	1·147	88·2	46·5	41·7	74·6	51·2	20·4	64·4	56·6	·459	5·0	1·7	75	526	113·2	52·9	0·2	4	10	10	7	–	3·8	6	1·44
		Sept.	29·697	1·128	78·8	39·9	38·9	65·5	49·6	15·9	57·4	53·8	·415	4·6	0·7	88	531	95·4	48·8	0·1	8	10	5	7	–	6·5	18	6·12
BOURNEMOUTH (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	128	July	29·761	0·860	71·5	48·5	23·0	64·6	53·3	11·3	59·6	54·9	·431	4·7	0·9	85	530	125·3	–	–	2	2	10	17	2·2	4·5	17	3·45
		Aug.	29·913	1·100	82·2	46·7	35·5	69·2	53·5	15·7	62·7	55·8	·446	5·0	1·4	79	529	134·7	–	–	–	–	–	–	2·0	2·2	6	1·75
		Sept.	29·744	1·330	74·3	39·2	35·1	62·8	49·3	13·5	56·4	50·0	·361	4·1	1·0	79	53[illegible]	110·0	–	–	9	10	3	8	2·8	4·3	11	5·45
PORTSMOUTH, William C. Ellis, Esq., F.M.S.	16	July	29·890	0·755	81·4	47·4	34·0	70·6	51·2	19·4	60·6	53·4	·409	4·6	1·4	77	531	119·9	49·4	0·8	2	3	12	14	1·9	4·8	17	3·69
		Aug.	30·035	1·132	86·2	47·2	39·0	75·7	53·1	22·6	64·4	55·8	·446	4·9	1·8	74	530	119·6	49·1	0·7	2	11	12	6	2·3	2·7	3	0·90
		Sept.	29·889	1·151	78·2	35·2	43·0	66·2	47·7	18·5	57·5	50·2	·334	4·1	1·2	77	534	99·8	44·6	0·8	8	11	6	5	2·3	5·5	15	4·99
WORTHING (Sussex), W. J. Harris, Esq. M.R.C.S.E., L.S.A., F.M.S.	31	July	29·844	0·825	75·2	43·2	27·0	64·4	54·3	10·1	59·8	54·4	·424	4·7	1·0	83	531	127·8	52·6	1·4	2	2	10	17	6·5	5·2	12	2·89
		Aug.	29·990	1·128	83·1	48·2	36·9	70·1	54·3	15·8	63·1	55·7	·413	4·6	1·8	72	530	131·4	52·3	0·9	2	8	11	10	4·8	3·3	6	1·54
		Sept.	29·837	1·319	77·8	40·2	37·6	64·6	51·5	13·1	58·3	51·3	·379	4·2	1·2	78	533	119·9	48·2	1·1	6	11	6	7	5·4	5·4	10	3·07
BRIGHTON (Sussex), Frederick E. Sawyer, Esq., F.M.S.	200	July	29·635	0·750	74·5	49·5	25·0	67·1	53·9	13·2	60·7	55·4	·439	5·0	1·0	84	526	115·3	53·8	1·5	1	3	10	17	1·3	6·4	17	3·34
		Aug.	29·920	0·960	82·5	49·8	32·7	70·6	55·9	14·7	63·5	56·7	·461	5·1	1·4	79	528	117·1	54·7	1·1	3	9	9	10	1·3	3·5	8	1·42
		Sept.	29·639	1·335	75·9	41·8	34·1	63·8	51·2	12·6	57·5	52·0	·388	4·3	1·0	82	530	101·9	49·9	1·4	9	9	6	6	1·5	5·9	13	3·19
TAUNTON (Somerset), Rev. W. Tuckwell, F.M.S.	80	July	29·733	0·988	84·8	44·0	40·8	69·0	52·6	16·4	61·0	53·0	·403	4·5	1·5	76	528	81·2	54·7	0·5	3	0	7	21	7·9	5·7	23	3·49
		Aug.	29·918	1·1[illegible]0	91·0	42·5	48·5	76·4	50·9	25·5	63·7	57·7	·477	5·3	1·2	81	528	89·3	52·3	0·2	7	6	10	8	5·8	3·4	9	1·22
		Sept.	29·743	1·259	80·0	35·2	44·8	64·6	46·1	18·5	55·4	52·0	·388	4·4	0·6	89	534	76·2	46·5	0·2	4	8	11	7	6·5	5·6	14	4·82
BARNSTAPLE (Devon), T. Mackrell, Esq.	43	July	29·813	0·694	79·5	44·0	35·5	66·9	53·9	13·0	60·7	54·9	·432	4·9	1·0	82	529	–	–	1·3	1	2	14	14	–	3·5	22	6·20
		Aug.	29·943	1·189	86·0	49·0	37·0	74·0	56·4	17·6	66·0	54·6	·427	4·7	2·3	67	527	–	–	1·1	1	7	15	8	–	1·4	7	1·69
		Sept.	29·814	1·460	73·4	38·8	34·6	64·6	49·9	14·7	57·5	51·2	·377	4·2	1·1	80	533	–	–	1·2	2	12	9	7	–	3·5	14	4·37

Names of Stations and Observers.	Height of Station above Sea Level.	Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.=100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
ALDERSHOT CAMP (Hants), John Arnold, M.S.C., F.M.S.	325	July	29·503	0·795	83·2	46·2	37·0	70·3	51·3	19·0	60·5	54·2	·421	4·7	1·2	80	524	121·7	50·5	1·6	2	1	12	16	3·0	6·8	15	3·76
		Aug.	29·678	1·015	90·0	45·0	45·0	76·3	57·5	21·8	63·9	55·1	·434	4·8	1·8	74	524	123·0	49·7	1·2	5	8	9	9	2·3	5·6	8	1·80
		Sept.	29·513	1·131	81·4	39·8	41·6	65·2	48·3	16·9	56·5	52·0	·388	4·4	0·7	85	529	105·3	47·2	1·4	8	10	6	6	2·4	7·4	12	4·36
WEST HARPTRE VICARAGE (near Bristol), Rev. R. Tyas, M.A., LL.D., F.M.S.	273	July	29·584	0·741	82·3	41·7	40·6	68·3	50·9	17·4	59·6	55·3	·437	4·9	0·8	87	526	126·8	43·6	0·7	1	1	9	20	3·4	7·5	25	6·28
		Aug.	29·729	1·095	83·6	42·2	44·4	74·4	50·3	24·1	62·9	56·4	·456	5·0	1·3	80	526	136·2	41·9	0·4	2	6	11	12	2·1	3·8	8	2·01
		Sept.	29·601	1·373	80·2	36·2	44·0	62·9	46·2	16·7	55·5	49·2	·352	3·9	1·0	80	532	109·4	35·6	0·4	3	12	5	8	3·2	7·0	15	5·79
STRATHFIELD TURGISS (Hants) Rev. C. H. Griffith, M.A., F.M.S.	197	July	29·661	0·792	81·5	42·0	39·5	69·9	50·5	19·4	60·5	52·1	·390	4·4	1·5	74	527	125·2	49·2	0·9	3	2	7	19	4·7	6·2	19	3·40
		Aug.	29·829	1·052	89·1	41·3	47·8	75·6	48·6	27·0	62·9	52·7	·399	4·4	1·9	69	528	126·5	47·5	0·7	3	10	8	10	3·9	3·2	6	0·91
		Sept.	29·689	1·181	82·5	33·8	48·7	65·0	46·6	18·4	56·0	49·8	·358	4·0	1·0	80	532	110·4	43·2	0·6	4	14	5	7	4·8	6·4	14	3·79
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	July	29·735	0·795	82·0	43·3	38·7	71·0	50·5	20·5	60·7	54·9	·431	4·9	1·1	82	528	114·9	50·4	0·7	2	2	16	11	1·3	5·6	18	3·66
		Aug.	29·907	1·002	90·0	43·7	46·3	76·5	50·1	26·4	63·2	55·2	·436	5·0	1·5	78	528	117·9	48·8	0·5	7	8	9	7	0·9	3·0	8	0·97
MARLBOROUGH COLLEGE (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	456	July	29·398	0·760	77·7	43·3	34·4	65·0	50·4	14·6	57·9	51·9	·386	4·3	1·0	81	525	130·6	44·8	–	4	1	9	17	2·4	6·8	24	4·33
		Aug.	29·559	1·093	85·3	40·4	44·9	72·0	49·8	22·2	61·0	53·9	·416	4·7	1·3	78	525	137·4	43·8	–	5	7	11	8	2·1	3·8	7	1·16
		Sept.	29·426	1·233	78·0	34·0	41·0	61·3	46·7	14·6	54·4	50·0	·361	4·1	0·7	85	529	109·5	41·8	–	4	12	7	7	2·7	7·5	15	6·22
CHISLEHURST (Heathfield Lodge, Kent), Francis Nunes, Esq., M.A., F.M.S.	295	July	29·532	0·822	83·5	46·0	37·5	72·2	50·7	21·5	61·3	53·8	·415	4·6	1·4	77	524	130·6	50·8	–	3	2	11	15	–	–	18	3·46
		Aug.	29·698	1·002	91·7	45·2	46·5	78·5	51·3	27·2	66·3	53·6	·412	4·6	2·5	64	522	131·9	49·1	–	3	12	8	8	–	–	8	0·77
		Sept.	29·586	1·283	84·0	38·0	46·0	66·6	48·1	18·5	57·5	49·9	·360	4·0	1·3	76	529	114·0	45·8	–	5	13	5	7	–	–	16	4·77
ROYAL OBSERVATORY (Kent), The Astronomer Royal.	159	July	29·690	0·825	82·6	46·8	35·8	72·6	54·0	18·6	61·7	53·9	·416	4·6	1·5	76	526	127·9	49·3	0·3	2	2	14	13	–	6·8	17	3·25
		Aug.	29·855	1·054	89·2	46·1	43·1	78·1	53·8	24·3	64·8	54·4	·424	4·7	1·5	69	526	133·9	45·7	0·2	4	10	9	8	–	3·9	6	0·86
		Sept.	29·719	1·264	82·0	39·0	43·0	67·5	50·3	17·2	57·4	49·9	·360	4·0	1·3	76	532	107·3	41·8	0·2	8	11	6	5	–	6·8	15	4·12
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.A.S., F.M.S.	150	July	29·740	0·780	81·6	44·5	37·1	70·5	50·1	20·4	60·9	53·3	·407	4·5	1·4	76	528	85·8	–	2·0	4	2	10	15	–	6·7	20	3·00
		Aug.	29·906	1·021	92·3	42·8	49·5	77·3	50·3	27·0	64·3	56·1	·451	5·0	1·7	75	527	92·9	50·0	1·6	4	11	5	11	–	2·6	7	1·02
		Sept.	29·649	1·323	79·2	37·5	41·7	64·8	45·7	19·1	55·6	49·8	·358	4·0	0·9	82	532	75·0	45·3	1·6	9	9	5	7	–	7·0	12	4·67
CAMDEN TOWN (London), G. J. Symons, Esq., F.M.S.	123	July	29·732	0·823	82·2	45·8	36·4	70·9	52·7	18·2	61·6	53·2	·406	4·5	1·6	75	527	114·0	53·5	–	5	4	9	13	–	6·4	18	4·13
		Aug.	29·898	1·207	90·0	46·2	43·8	76·1	52·5	23·6	65·0	54·3	·422	4·6	2·2	68	527	117·6	52·2	–	12	11	3	5	–	2·0	7	0·86
		Sept.	29·755	1·276	81·0	38·1	42·9	66·7	49·3	17·4	58·0	49·8	·358	4·0	1·4	74	532	99·2	49·2	–	11	11	4	4	–	5·5	13	5·28
OXFORD (Oxfordshire), Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	July	29·622	0·775	80·3	44·8	35·5	68·0	51·5	16·5	60·0	52·5	·395	4·4	1·4	76	527	120·4	50·0	0·9	3	2	11	15	2·0	7·3	23	3·78
		Aug.	29·793	1·078	85·2	45·3	39·9	73·2	51·7	21·5	63·4	53·7	·413	4·6	1·9	71	527	128·6	49·2	0·7	4	5	12	10	2·4	4·9	7	0·51
		Sept.	29·657	1·346	77·3	36·2	41·1	62·8	47·9	14·9	56·2	49·4	·355	3·9	1·0	78	532	107·1	45·1	0·9	8	9	6	7	4·7	7·8	16	4·66
GLOUCESTER (Gloucester), E. Toller, Esq., M.D.	100	July	29·787	0·761	81·0	46·5	34·5	69·3	52·2	17·1	60·9	53·7	·413	4·6	1·4	78	529	115·7	54·5	0·8	6	1	9	15	1·9	6·1	22	4·36
		Aug.	29·937	1·110	92·5	45·0	47·5	77·7	52·7	25·0	65·2	55·4	·439	4·8	2·0	71	527	132·5	54·5	0·6	6	5	8	12	3·0	3·5	8	1·65
		Sept.	29·854	1·341	79·5	39·5	40·0	64·2	48·2	16·0	56·3	49·8	·358	4·0	1·0	79	535	97·5	49·1	0·7	7	10	5	8	3·4	5·7	13	5·75
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	July	29·580	0·808	80·6	45·6	35·0	70·2	50·1	20·1	59·7	53·5	·410	4·6	1·2	81	526	–	–	–	2	1	11	17	–	5·9	16	3·10
		Aug.	29·745	1·021	91·7	46·4	45·3	77·7	51·7	26·0	64·1	53·9	·442	5·0	1·7	75	525	–	–	–	5	9	10	7	–	3·6	3	0·43
		Sept.	29·625	1·266	82·9	39·8	43·1	63·5	48·6	19·9	57·4	51·5	·381	4·3	1·0	81	530	–	–	–	11	7	5	7	–	6·1	11	4·90
CARDINGTON (near Bedford), J. MacLaren, Esq., F.M.S., Assist. to S.C. Whitbread, Esq., F.R.S., F.M.S.	100	July	29·736	0·803	82·4	44·0	38·4	70·9	50·5	20·4	61·3	55·3	·437	4·9	1·2	81	527	94·9	46·4	0·8	4	2	7	18	–	5·7	17	3·25
		Aug.	29·912	1·059	88·4	43·0	45·4	74·8	50·0	24·8	63·5	54·3	·422	4·7	1·8	73	528	103·5	43·6	0·8	6	5	10	10	–	3·5	6	0·60
		Sept.	29·799	1·224	80·0	35·0	45·0	64·9	47·3	17·6	56·6	50·8	·371	4·2	1·0	81	534	87·5	43·1	0·9	8	10	4	8	–	5·8	12	4·90
ST. DAVID'S COLLEGE, LAMPETER (Cardiganshire), Rev. Prof. J. Matthews, M.A.	429	July	29·398	0·693	74·0	44·5	29·5	67·4	49·9	16·5	57·7	53·0	·403	4·5	0·8	84	525	112·5	–	1·0	1	1	13	16	5·5	8·0	23	4·47
		Aug.	29·565	1·089	87·5	39·5	48·0	74·1	49·9	24·2	62·0	55·0	·433	4·8	1·4	78	524	121·0	–	0·7	4	3	14	10	5·3	4·8	10	1·65
LEAMINGTON (Warwickshire), S. Urwick Jones, Esq., F.M.S.	195	July	29·620	0·802	78·8	46·9	31·9	67·0	51·2	15·8	59·6	51·3	·378	4·2	1·5	74	528	–	–	0·8	4	0	11	16	–	6·9	24	4·24
		Aug.	29·822	1·048	88·0	46·0	40·0	74·3	52·2	22·1	63·4	53·8	·415	4·6	1·9	71	527	–	–	0·9	4	9	6	12	–	3·9	8	0·61
		Sept.	29·704	1·102	75·5	37·7	37·8	61·9	47·7	14·2	54·8	48·3	·339	3·9	1·0	78	534	–	–	0·9	7	11	4	8	–	6·9	14	5·57
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	30	July	29·765	0·869	81·8	46·2	35·6	69·3	53·3	19·0	60·0	55·1	·434	4·8	1·0	84	529	–	44·0	1·0	3	4	11	13	7·1	5·3	18	2·66
		Aug.	29·970	1·029	85·7	43·5	42·2	73·0	51·1	21·9	62·7	54·0	·449	5·0	1·3	79	530	119·7	43·9	0·7	2	11	11	7	7·1	3·1	5	0·62
		Sept.	29·842	1·168	79·1	38·2	40·9	65·5	48·9	16·6	57·4	53·0	·403	4·5	0·8	85	533	104·3	40·9	0·9	6	11	7	6	7·7	5·6	13	3·80
NORWICH (Norfolk), C. M. Gibson, Esq., F.M.S.	42	July	29·775	0·838	81·2	48·0	33·2	69·5	50·2	19·3	60·4	53·9	·416	4·6	1·3	79	529	–	–	–	4	1	14	12	–	–	19	2·34
		Aug.	29·969	1·055	81·5	46·0	40·5	72·7	51·6	21·1	63·1	53·9	·416	4·6	1·8	72	530	–	–	–	3	12	6	10	–	–	2	0·75
		Sept.	29·851	1·160	77·5	38·5	39·0	62·8	48·3	14·5	56·1	49·9	·360	4·1	1·0	80	535	–	–	–	8	9	5	8	–	–	10	4·02
WISBECH (Cambridgeshire), S. H. Miller, Esq., F.R.A.S., F.M.S.	14	July	29·794	0·819	82·0	43·3	35·7	69·3	50·5	18·8	60·4	54·4	·424	4·7	1·1	81	530	120·7	49·3	0·7	1	3	12	15	3·6	6·6	22	3·52
		Aug.	29·992	1·064	86·2	46·0	40·2	73·5	51·9	21·6	63·7	54·7	·428	4·8	1·8	74	530	127·7	49·0	0·5	3	10	10	8	2·1	3·9	5	1·36
		Sept.	29·884	1·249	76·5	35·0	41·5	63·5	47·6	15·9	55·7	51·4	·379	4·3	0·7	86	536	106·7	45·4	0·5	9	8	8	5	2·2	5·9	13	3·92

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1871. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Monia Dalton, Esq., M.D.	100	July	29·696	0·819	73·6	49·0	24·6	66·1	51·5	14·6	58·7	53·0	·403	4·5	1·1	82	530	–	–	0·6	2	2	3	24	–	7·5	19	3·35
		Aug.	29·884	1·147	83·4	46·6	36·8	70·5	53·4	17·1	62·8	55·2	·436	4·9	1·5	76	528	–	–	0·7	3	6	5	17	–	4·9	11	1·24
		Sept.	29·795	1·551	72·3	39·7	32·6	61·4	47·8	13·6	55·1	47·3	·327	3·7	1·2	75	536	–	–	0·8	3	14	5	8	–	6·3	15	3·59
DERBY (Derbyshire), John Davis, Esq.	174	July	29·588	0·832	75·0	47·0	28·0	65·6	50·7	14·9	58·8	53·5	·410	4·5	1·0	82	527	–	–	–	2	1	8	20	–	–	27	4·68
		Aug.	29·790	1·059	82·0	42·0	40·0	70·8	52·1	18·7	62·4	53·9	·416	4·6	1·7	74	527	–	–	–	2	7	7	15	–	–	8	1·35
		Sept.	29·671	1·252	73·0	38·0	35·0	60·5	50·4	10·1	55·6	49·2	·351	3·9	1·0	80	533	–	–	–	8	12	4	6	–	–	16	4·92
NOTTINGHAM (Notts), M. O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	241	July	29·535	0·846	78·0	45·5	32·5	68·8	49·5	19·3	59·6	53·2	·406	4·5	1·1	80	526	124·1	43·5	0·4	2	3	13	13	1·3	6·4	26	4·42
		Aug.	29·748	1·057	87·4	40·9	46·5	74·1	51·2	22·9	63·0	56·9	·464	5·1	1·3	80	526	124·6	43·0	0·4	2	8	10	11	1·2	4·1	7	1·24
		Sept.	29·639	1·124	77·6	37·9	39·7	63·9	46·5	17·4	55·4	51·1	·376	4·2	0·7	86	532	104·6	39·9	0·3	10	8	8	4	4·0	5·7	10	4·72
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	39	July	29·765	0·844	76·2	47·0	29·2	67·1	51·3	15·8	59·9	51·4	·379	4·4	1·5	74	530	130·5	46·0	1·4	4	1	15	11	–	5·9	16	3·01
		Aug.	29·967	1·061	83·0	42·4	40·6	70·0	51·3	18·7	62·0	52·7	·399	4·4	1·8	72	531	128·0	46·2	1·3	9	6	9	7	–	3·7	3	0·60
		Sept.	29·852	1·205	76·8	39·8	37·0	62·5	47·6	14·9	55·6	49·4	·353	4·0	1·0	80	536	98·3	42·1	1·3	14	7	4	5	–	6·7	9	4·42
BOSTON (Lincolnshire), A. Mercer Adam, Esq., M.D., F.M.S.	20	July	29·788	0·840	81·3	47·0	34·3	69·2	50·4	18·8	59·3	54·0	·418	4·7	1·0	84	530	110·5	49·3	1·6	2	0	5	24	1·4	6·6	22	3·58
		Aug.	29·981	1·043	84·0	47·0	37·0	72·4	53·0	19·4	62·1	59·0	·454	5·1	1·1	81	531	113·1	51·0	1·4	1	10	7	13	1·7	4·5	7	1·13
		Sept.	29·815	1·365	77·8	39·2	38·6	62·4	48·1	14·3	55·9	46·6	·318	3·6	1·4	71	535	94·0	44·5	1·7	7	10	2	11	2·4	6·8	12	3·52
HAWARDEN (Flint), T. Moffat, Esq., M.D., F.R.A.S., F.G.S.	270	July	29·506	0·804	73·0	52·0	21·0	64·5	53·9	10·6	59·2	52·6	·397	4·5	1·2	79	526	127·2	35·5	2·5	6	0	8	17	0·9	7·3	24	3·23
		Sept.	29·626	1·368	72·0	41·0	31·0	59·9	49·4	10·5	54·7	49·0	·347	3·9	0·9	81	533	103·4	28·6	1·8	6	12	6	6	0·2	6·2	14	4·29
LIVERPOOL OBSERVATORY, John Hartnup, Esq., F.R.A.S.	197	July	29·598	0·823	72·3	48·9	33·4	64·5	53·1	11·4	58·8	52·5	·396	4·4	1·2	80	528	–	–	1·3	3	2	9	17	–	5·7	28	3·78
		Aug.	29·790	1·049	82·5	47·3	35·2	69·0	53·9	15·1	62·0	53·3	·407	4·5	1·6	74	528	–	–	1·1	3	6	8	14	–	4·2	9	1·12
		Sept.	29·711	1·318	72·3	41·8	30·5	60·4	47·5	12·9	54·2	47·5	·329	3·7	1·0	78	535	–	–	1·2	5	14	4	7	–	5·5	15	3·92
ECCLES, near Manchester, T. Mackereth, Esq., F.R.A.S., F.M.S.	145	July	29·634	0·901	76·2	45·5	30·7	65·0	48·8	16·2	57·8	51·4	·379	4·3	1·1	79	529	80·9	44·1	0·2	5	1	12	13	1·5	6·6	26	2·87
		Aug.	29·838	1·084	85·6	40·4	45·2	71·9	50·9	21·0	62·1	53·6	·412	4·5	1·7	74	529	87·7	45·0	0·3	4	1	10	16	1·0	4·3	13	1·93
		Sept.	29·755	1·368	73·8	34·0	39·8	60·8	44·4	16·4	53·4	45·9	·309	3·5	1·1	76	537	71·7	38·0	0·3	4	15	7	4	1·3	5·0	18	3·93
WILLOW HALL OBSERVATORY (Halifax, Yorkshire), Louis J. Crossley, Esq., F.M.S.	630	June	29·266	0·763	68·6	38·0	30·0	57·2	43·5	13·7	50·7	45·8	·308	3·5	0·6	84	531	112·6	40·2	0·6	10	10	5	5	1·2	7·7	20	3·55
		July	29·120	0·932	71·0	45·6	25·4	61·1	49·2	11·9	55·6	50·6	·369	4·1	0·8	84	523	114·8	46·5	0·9	5	1	10	15	1·5	7·4	29	3·42
		Aug.	29·320	1·074	80·4	39·5	40·9	67·2	49·9	17·3	59·2	52·8	·400	4·5	1·1	80	522	117·6	44·9	0·7	5	4	8	14	1·5	5·6	10	1·12
		Sept.	29·231	1·256	70·9	35·1	35·8	57·4	45·2	12·2	51·6	47·6	·330	3·7	0·6	87	519	102·3	40·7	0·7	6	10	5	9	0·5	7·3	16	4·93
PARK ROAD OBSERVATORY (Halifax, Yorkshire), Edward Crossley, Esq., F.R.A.S. and Joseph Gledhill, Esq., F.G.S., F.M.S.	618	July	29·105	0·886	71·0	43·5	27·5	63·1	48·0	15·1	55·7	49·3	·352	4·0	1·0	80	522	107·0	46·1	0·6	–	–	–	–	–	7·4	23	3·80
		Aug.	29·316	1·074	82·0	39·0	43·0	68·7	48·5	20·2	59·0	50·1	·362	4·1	1·5	73	523	111·4	44·0	0·5	–	–	–	–	–	5·0	14	2·19
		Sept.	29·231	1·255	72·0	34·0	38·0	57·7	44·3	13·4	51·4	45·5	·305	3·5	0·8	81	529	92·8	40·4	0·4	5	14	4	7	–	7·4	14	3·36
THE PARK, HULL (Yorkshire), Mr. E. Peak.	12	July	29·781	0·872	80·0	45·0	35·0	67·5	49·6	17·9	58·5	53·8	·415	4·6	0·9	84	531	98·8	48·8	–	–	–	–	–	–	–	22	3·83
		Aug.	29·984	1·111	84·0	40·0	44·0	70·1	50·3	19·8	61·2	54·7	·428	4·8	1·3	79	532	99·3	49·3	–	–	–	–	–	–	–	4	1·17
		Sept.	29·906	1·339	74·0	37·0	37·0	60·6	47·0	13·6	54·4	49·2	·351	4·0	0·8	82	538	85·3	45·0	–	–	–	–	–	–	–	14	4·90
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.A.S., F.M.S.	381	July	29·451	0·884	71·2	44·0	27·2	63·5	49·4	14·1	56·6	52·2	·391	4·4	0·7	85	527	118·2	48·1	–	2	1	12	16	–	8·2	29	8·08
		Aug.	29·572	1·069	83·0	41·5	41·5	69·3	52·0	17·3	60·8	54·3	·422	4·7	1·2	80	525	–	49·6	–	3	5	8	15	–	5·8	22	2·07
		Sept.	29·495	1·360	71·7	34·5	37·2	59·7	45·3	14·4	52·7	46·4	·316	3·6	0·9	80	533	–	42·4	–	6	11	4	9	–	6·6	20	3·70
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S., F.M.S.	366	July	29·383	0·840	74·7	50·0	24·7	65·9	51·9	14·0	59·0	49·4	·353	4·0	1·6	71	524	92·3	–	1·1	2	1	10	18	–	7·0	24	2·35
		Aug.	29·564	1·049	84·0	46·0	38·0	70·6	53·2	17·4	62·2	50·6	·369	4·1	2·2	65	524	100·5	–	1·0	4	9	9	9	–	4·4	7	1·01
LEEDS PHILOSOPHICAL HALL (Yorkshire), Louis C. Miall, Esq.	?	July	29·632	0·875	81·0	46·0	35·0	68·8	50·2	18·6	60·0	55·7	·444	5·0	0·8	86	527	79·2	–	1·4	7	0	11	13	–	7·1	24	3·22
		Aug.	29·820	1·107	89·0	44·0	45·0	73·6	52·0	21·6	65·5	53·8	·415	4·6	1·9	71	527	85·8	–	1·4	5	5	11	10	–	6·4	10	0·99
YORK (Yorkshire), J. F. Fryer, Esq.	*50*	*July*	*29·719*	*0·902*	*74·0*	*49·0*	*25·0*	*64·6*	*52·3*	*12·3*	*58·9*	*53·8*	*·415*	*4·4*	*1·2*	*82*	*530*	–	–	–	4	3	11	13	–	–	20	2·78
		Aug.	*29·927*	*1·035*	*82·0*	*44·0*	*38·0*	*68·9*	*53·2*	*15·7*	*61·5*	*54·6*	*·427*	*4·7*	*1·4*	*78*	*531*	–	–	–	–	–	–	–	–	–	8	1·05
		Sept.	*29·844*	*1·232*	*74·0*	*38·0*	*36·0*	*58·2*	*47·1*	*11·1*	*53·3*	*48·7*	*·344*	*3·9*	*0·7*	*84*	*538*	–	–	–	8	12	5	5	–	–	12	6·37
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.R.A.S., F.M.S.	146	July	29·573	0·841	73·2	44·9	28·3	65·1	52·0	13·1	58·0	52·5	·396	4·4	1·0	82	528	112·5	42·1	0·6	3	1	11	16	2·0	6·7	25	2·78
		Aug.	29·801	1·059	80·3	43·5	36·8	68·7	51·6	17·1	60·7	53·5	·410	4·6	1·4	77	529	108·9	45·7	0·6	2	2	10	17	2·1	5·2	11	3·32
		Sept.	29·747	1·275	75·5	30·9	44·6	61·4	45·6	15·8	54·0	46·9	·322	3·6	1·1	76	536	95·4	38·6	0·5	7	7	9	7	1·9	5·2	9	2·23
ALLENHEADS (Durham), T. Sopwith, Esq., M.A., F.R.S., F.G.S., F.M.S.	1360	July	28·285	0·888	69·0	43·0	26·0	61·8	46·5	15·3	53·8	48·3	·339	3·8	0·8	81	510	118·2	44·0	2·3	4	0	12	15	–	6·7	30	4·46
		Aug.	28·495	1·115	79·2	40·8	38·4	66·0	48·7	17·3	57·3	49·4	·353	3·9	1·3	75	510	126·8	43·8	1·8	3	1	16	11	–	4·3	14	2·34
		Sept.	28·451	1·018	70·7	32·4	38·3	56·3	42·6	13·7	48·9	44·6	·295	3·3	0·6	85	508	100·7	40·1	1·6	6	8	10	6	–	6·2	19	6·76
SILLOTH RECTORY (Cumberland), Rev. Francis Redford, M.A., F.R.S.E., F.M.S.	28	July	29·706	0·859	74·4	45·1	29·3	67·3	50·2	17·1	58·9	52·8	·400	4·4	1·1	81	530	107·7	46·3	1·3	2	3	13	13	8·2	6·3	23	3·28
		Aug.	29·913	1·256	81·1	42·0	39·1	70·4	50·5	19·9	60·6	53·7	·413	4·6	1·3	78	531	107·8	46·2	1·1	3	5	9	14	7·8	5·0	11	2·97
		Sept.	29·880	1·277	72·1	34·1	38·0	62·0	44·8	17·2	53·4	46·8	·319	3·6	1·0	78	539	93·8	40·3	1·2	2	16	6	6	10·1	5·0	12	2·58
CARLISLE (Cumberland), I. Cartmell, Esq., F.M.S.	114	July	29·603	0·886	72·9	43·4	29·5	65·6	49·1	16·5	57·7	51·8	·385	4·2	1·0	81	529	104·2	47·1	1·7	1	1	11	18	5·6	6·8	27	3·83
		Aug.	29·819	1·241	83·3	41·7	41·6	70·2	49·3	20·9	60·3	55·4	·439	5·0	0·9	85	530	103·8	46·8	1·5	1	2	8	20	5·6	5·3	11	2·78
		Sept.	29·786	1·237	75·7	30·0	45·7	62·5	43·4	19·1	52·7	47·0	·323	3·7	0·8	81	538	91·8	39·4	1·2	5	11	6	8	4·5	5·6	11	2·37
BYWELL (Northumberland), Mr. John Dawson, under the direction of T. Sopwith, Esq., M.A., F.R.S., F.G.S., F.M.S.	87	July	29·598	0·908	74·0	48·0	26·0	65·9	52·5	13·4	59·2	50·5	·367	4·1	1·5	73	528	85·9	48·2	1·1	4	2	4	21	–	4·7	25	4·40
		Aug.	29·805	1·259	84·0	46·0	38·0	70·8	53·2	17·6	61·7	51·9	·386	4·3	1·9	70	529	97·7	48·6	1·3	–	–	–	–	–	3·0	8	0·77
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	July	29·661	0·884	70·3	47·4	22·9	62·1	49·8	12·3	57·0	49·3	·351	3·9	1·3	75	531	–	50·1	1·6	8	2	7	14	–	6·1	27	3·79
		Aug.	29·892	1·127	76·0	45·0	31·0	65·6	51·3	14·3	59·0	51·0	·374	4·2	1·4	75	533	–	51·6	2·0	6	2	8	15	–	4·4	6	0·96
		Sept.	29·866	1·189	71·0	38·0	33·0	57·2	46·8	10·4	52·4	46·2	·313	3·6	0·9	80	540	–	46·6	1·5	8	7	8	7	–	6·2	18	4·01
MILTOWN (Banbridge, Ireland), John Smyth, Esq., Jun., M.A., M.I.C.E.I., F.M.S.	200	July	29·494	0·775	70·0	42·0	28·0	63·5	49·0	14·5	57·1	51·1	·375	4·2	1·0	80	528	110·7	46·5	2·7	3	2	17	9	3·4	5·6	15	3·30
		Aug.	29·725	1·010	76·0	42·5	33·5	64·2	49·5	16·7	59·4	53·0	·403	4·5	1·1	80	529	110·4	47·7	1·8	5	3	17	6	2·4	4·4	11	3·40
		Sept.	29·692	1·138	67·0	29·0	38·0	57·8	43·8	14·0	51·7	45·9	·309	3·5	0·8	81	527	97·4	41·1	1·9	11	6	9	4	3·4	3·9	15	3·63
CULLODEN (Inverness, Scotland), A. Forbes, Esq., F.M.S.	104	July	29·532	0·836	68·9	49·2	19·7	61·9	53·6	8·3	57·9	52·1	·390	4·3	1·1	82	527	104·7	46·2	0·3	1	2	13	15	8·0	6·3	21	4·02
		Aug.	29·766	1·604	71·0	49·5	21·5	63·7	55·1	8·6	59·2	52·9	·402	4·5	1·1	80	530	104·7	46·3	0·3	1	3	14	13	7·9	4·8	14	1·82

Second Rain-gauges are placed—

At Eastbourne, at the height of 4 feet *above the ground*, the amount collected was 8·00 inches.
„ Portsmouth, „ 20 feet „ „ 9·19 „
„ Marlborough, „ 8 inches „ „ 11·24 „
„ Oxford, „ 22 feet „ „ 8·88 „
„ Boston, „ 6 feet „ „ 5·38 „
„ Eccles, „ 34 feet „ „ 8·39 „
„ Carlisle, „ 3 feet „ „ 9·90 „
„ Miltown, Ireland, „ 40 feet „ „ 10·29 „

NOTE.—*The Barometer Reading*, August 4th, 3h. P.M., York, 29·200 inches has been altered to 29·700 inches.
„ „ Sept. 19th, 3h. P.M., „ 30·992 „ „ 29·992 „
„ „ „ 28th, 3h. P.M., Holkham, 30·426 „ „ 29·426 „

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey - - -	29·509	76·3	45·3	31·0	64·0	54·8	25·2	9·2	50·2	54·6	·428	4·8	1·0	82	528	—	—	1·4	6	8	7	10	4·5	4·0	40	10·72
Helston - - -	29·534	86·0	42·0	44·0	69·5	52·3	35·7	17·2	61·2	53·0	·435	4·8	1·2	80	530	95·5	49·6	2·2	4	10	6	10	3·1	5·0	42	14·87
Truro - - -	29·530	85·0	39·0	46·0	67·1	52·8	36·0	14·3	59·5	54·2	·421	4·7	1·0	83	532	—	—	2·3	8	8	6	9	—	5·7	49	15·39
Eastbourne - - -	29·520	80·7	38·4	42·3	64·6	51·7	31·6	12·9	58·7	54·6	·423	4·7	0·8	85	533	—	—	1·2	6	5	7	12	—	2·7	43	9·06
Osborne - - -	29·520	81·5	39·9	44·6	68·5	52·7	33·9	15·8	62·1	54·5	·427	4·8	1·5	77	530	113·6	46·8	0·7	6	8	7	9	3·5	—	35	8·87
Bournemouth - -	29·486	88·2	39·9	48·3	69·7	51·8	38·1	17·4	60·5	55·9	·448	4·9	1·0	85	528	105·5	51·2	0·2	5	8	10	8	—	5·3	42	11·65
Portsmouth - -	29·529	82·2	39·2	43·0	65·5	52·0	31·2	13·5	59·6	53·6	·413	4·6	1·1	81	531	123·3	—	—	—	—	—	—	2·3	3·7	34	10·65
Worthing - - -	29·546	83·2	35·2	51·0	70·8	50·7	38·7	20·1	60·8	53·1	·403	4·5	1·5	76	532	113·1	47·7	0·8	4	8	10	8	2·2	4·3	35	9·38
Brighton - - -	29·516	82·5	41·8	40·7	67·2	53·7	30·6	13·5	60·6	54·7	·429	4·8	1·1	82	531	123·4	51·0	1·1	3	7	9	11	5·6	4·6	28	7·30
Taunton - - -	29·461	91·0	35·2	55·8	70·0	49·9	43·7	20·1	60·0	54·2	·423	4·7	1·1	82	528	111·4	52·8	1·3	4	7	8	11	1·4	5·3	38	7·20
Barnstaple - - -	29·491	86·0	38·8	47·2	68·5	53·4	35·7	15·1	61·4	53·6	·412	4·6	1·5	76	530	82·2	51·2	0·3	5	5	9	12	6·7	4·9	46	9·53
Aldershot Camp -	29·501	90·0	39·8	50·2	70·6	50·4	41·2	20·2	60·3	53·8	·414	4·6	1·2	80	528	116·7	49·1	1·4	5	6	9	10	2·6	6·6	35	9·92
West Harptre Viege.	29·521	86·6	36·2	50·4	68·5	49·1	43·0	19·4	59·3	53·6	·415	4·6	1·0	82	528	124·1	40·3	0·5	2	7	8	13	2·9	6·1	48	14·08
Strathfield Turgiss -	29·556	89·1	33·8	55·3	70·2	48·6	45·3	21·6	59·8	51·5	·382	4·3	1·5	74	529	120·7	46·6	0·7	3	9	7	12	4·5	5·3	39	8·10
Marlborough College	29·559	85·3	34·0	51·3	66·1	49·0	41·1	17·1	57·8	51·9	·388	4·4	1·0	81	526	125·8	43·5	—	4	7	9	11	2·4	6·0	46	11·71
Chiselhurst - - -	29·521	91·7	38·0	53·7	72·4	50·0	43·3	22·4	61·7	52·4	·396	4·4	1·7	72	525	125·5	48·5	—	4	9	8	10	—	—	42	9·00
Royal Observatory -	29·527	89·2	39·0	50·2	72·7	52·7	40·6	20·0	61·3	52·7	·400	4·4	1·4	74	528	123·0	45·6	0·2	5	8	9	9	—	5·8	38	8·25
Streatley Vicarage -	29·518	92·3	37·5	54·8	70·9	48·7	42·4	22·2	60·3	53·1	·405	4·5	1·3	78	529	84·6	—	1·7	6	7	7	11	—	5·4	39	8·69
Camden Town - -	29·530	90·0	38·1	51·9	71·2	51·5	41·0	19·7	61·5	52·4	·395	4·4	1·7	72	529	110·3	51·6	—	9	9	5	7	—	4·6	38	10·22
Oxford - - -	29·526	85·2	36·2	49·0	68·0	50·4	33·8	17·6	59·9	51·9	·388	4·3	1·4	75	529	118·7	48·1	0·8	5	5	10	11	3·0	6·7	46	8·95
Gloucester - - -	29·550	92·5	39·5	53·0	70·4	51·0	40·7	19·4	60·8	53·0	·403	4·5	1·5	76	530	115·2	52·7	0·7	6	5	7	12	2·8	5·1	43	11·79
Royston - - -	29·523	91·7	39·8	51·9	72·1	50·1	41·1	22·0	60·4	53·6	·413	4·6	1·3	79	527	—	—	—	6	6	9	10	—	5·2	30	8·45
Cardington - - -	29·518	88·4	35·0	53·4	70·2	49·3	42·9	20·9	60·5	53·5	·410	4·6	1·3	78	530	95·3	44·4	0·8	6	6	7	12	—	5·0	35	8·75
Leamington - - -	29·548	86·0	37·7	48·3	67·7	50·4	36·6	17·3	59·3	51·1	·377	4·2	1·5	74	530	—	—	0·9	5	7	7	12	—	5·9	46	10·42
Somerleyton Rectory	29·462	85·7	38·2	47·5	69·3	48·7	39·6	19·2	60·0	54·7	·429	4·8	1·0	83	531	—	42·0	0·9	4	8	10	9	7·3	4·7	36	7·08
Norwich - - -	29·514	86·5	38·5	48·0	68·3	50·0	37·6	18·3	59·9	52·6	·397	4·4	1·4	77	531	—	—	—	5	7	8	10	—	—	31	7·11
Wisbech - - -	29·495	86·2	35·0	51·2	68·8	50·0	39·1	18·8	59·9	53·5	·410	4·6	1·2	80	532	118·4	47·9	0·6	4	7	10	9	2·6	5·5	40	8·80
Llandudno - - -	29·511	83·4	39·7	43·7	66·0	50·9	31·3	15·1	58·9	51·8	·389	4·4	1·3	78	531	—	—	0·7	3	7	4	16	—	6·2	45	8·18
Derby - - -	29·476	82·0	38·0	44·0	65·6	51·0	34·3	14·6	58·9	52·2	·392	4·3	1·2	79	529	—	—	—	4	7	6	14	—	—	51	10·93
Holkham - - -	29·530	83·0	39·8	43·2	66·5	50·1	35·6	16·4	59·2	51·2	·377	4·3	1·4	75	532	118·9	44·8	1·3	9	5	9	8	—	5·4	28	8·00
Boston - - -	29·483	84·0	39·2	44·8	68·0	50·5	36·6	17·5	59·1	53·2	·397	4·5	1·2	79	532	105·9	48·3	1·6	3	7	5	16	1·8	6·0	41	8·28
Liverpool - - -	29·538	82·5	41·8	40·7	64·6	51·5	33·8	13·1	58·3	51·1	·377	4·2	1·3	77	530	—	—	1·2	4	7	7	13	—	5·1	52	8·82
Eccles - - -	29·539	85·0	34·0	51·0	65·9	48·0	38·6	17·9	57·8	50·3	·357	4·1	1·3	76	532	80·1	42·4	0·3	4	6	10	11	1·3	5·3	57	8·73
Willow Hall, Halifax	29·532	80·4	35·1	45·3	61·9	48·1	34·0	13·8	55·5	50·3	·366	4·1	0·8	84	521	101·6	44·0	0·8	5	5	8	13	1·3	6·8	55	9·47
Park Road, Halifax -	29·527	82·0	34·0	48·0	63·2	46·9	36·2	16·3	55·4	48·3	·340	3·9	1·1	78	525	103·7	43·5	0·5	—	—	—	—	—	6·6	51	9·33
Hull - - -	29·505	84·0	47·0	47·0	66·1	49·0	38·7	17·1	58·9	52·6	·398	4·5	1·0	82	534	94·5	47·7	—	—	—	—	—	—	—	40	9·20
Stonyhurst - - -	29·538	83·0	34·5	48·5	64·2	48·9	35·3	15·3	56·7	51·0	·376	4·2	0·9	82	528	—	46·7	—	4	6	8	13	—	6·9	71	13·83
York - - -	29·490	82·0	38·0	44·0	63·9	50·9	33·0	13·0	57·9	52·4	·395	4·3	1·1	81	533	—	—	—	—	—	—	—	—	—	40	10·20
Cockermouth - -	29·489	80·3	30·9	49·4	65·1	49·7	36·6	15·4	57·6	51·0	·376	4·2	1·2	78	531	105·6	42·1	0·6	4	3	10	13	2·0	5·7	45	8·33
Silloth - - -	29·486	81·1	34·1	47·0	66·6	48·5	35·5	18·1	57·6	51·1	·377	4·2	1·1	79	533	103·1	44·3	1·2	2	8	9	11	8·7	5·4	46	8·88
Carlisle - - -	29·476	83·3	30·0	53·3	66·1	47·3	38·9	18·8	56·9	51·4	·382	4·3	0·9	82	532	99·9	44·4	1·5	2	5	8	15	5·2	5·9	49	8·98
North Shields - -	29·592	76·0	38·0	38·0	61·6	49·3	29·0	12·3	56·1	48·8	·346	3·9	1·2	77	535	—	49·4	1·7	7	4	8	12	—	5·6	51	8·78
Miltown (Ireland) -	29·489	76·0	29·0	47·0	62·5	47·4	33·2	15·1	56·1	50·0	·362	4·1	1·0	80	528	106·2	45·1	2·1	6	4	14	6	3·1	4·6	41	10·33

The highest temperatures of the air were at Gloucester, 92°·5; Streatley Vicarage, 92°·3; Chislehurst and Royston, 91°·7; Taunton, 91°·0; Aldershot and Camden Town, 90°·0; Royal Observatory, 89°·2; and at Strathfield Turgiss, 89°·1.

The lowest temperatures of the air were at Miltown, 29°·0; Carlisle, 30°·0; Cockermouth, 30°·9; Strathfield Turgiss, 33°·8; Marlborough College, Eccles, and Park Road Observatory, 34°·0; and at Silloth, 34°·1.

The greatest daily ranges of the air were at Chislehurst, 22°·4; Streatley Vicarage, 22°·2; Royston, 22°·0; Strathfield Turgiss, 21°·6; Cardington, 20°·9; Aldershot, 20°·2; Portsmouth and Taunton, 20°·1; and at Royal Observatory, 20°·0.

The least daily ranges of the air were at Guernsey, 9°·2; North Shields, 12°·3; Sidmouth, 12°·9; Worthing and York, 13°·0; Liverpool, 13°·1; and at Brighton, 13°·5.

The greatest numbers of rainy days were at Stonyhurst, 71; Eccles, 57; Willow Hall, Halifax, 55; Liverpool, 52; Derby, Park Road Observatory, and North Shields, 51; and at Truro and Carlisle, 49.

The least numbers of rainy days were at Worthing and Holkham, 28; Royston, 30; Norwich, 31; Eastbourne, Portsmouth, Aldershot, and Cardington, 35; and at Somerleyton Rectory, 36.

The heaviest falls of rain were at Truro, 15·59 inches; Helston, 14·87 inches; West Harptre Vicarage, 14·08 inches; Stonyhurst, 13·85 inches; Barnstaple, 12·26 inches; Gloucester, 11·76 inches; Marlborough College, 11·71 inches; Osborne, 11·63 inches; and at Derby, 10·95 inches.

The least falls of rain were at Somerleyton Rectory, 7·08 inches; Norwich, 7·11 inches; Worthing, 7·50 inches; Brighton, 7·95 inches; Holkham, 8·03 inches; Strathfield Turgiss, 8·10 inches; and at Llandudno, 8·18 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone	Mean Amount of Cloud.	Rain. Mean Number of Days it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey - - -	29·509	77·3	45·3	31·0	64·0	54·8	25·2	9·2	60·2	54·6	·428	4·8	1·0	82	528	—	—	1·4	6	8	7	10	4·5	4·0	40	10·72
Between the latitudes 50° and 51°	29·521	84·8	39·5	45·3	67·9	52·4	34·4	15·5	60·5	54·1	·424	4·7	1·2	81	530	110·6	49·8	1·2	5	8	8	10	3·2	4·7	39	10·86
Between the latitudes 51° and 52°	29·523	89·1	37·2	51·9	70·0	50·4	41·0	19·6	60·3	52·7	·402	4·5	1·4	77	527	113·3	47·7	0·8	5	7	8	11	3·5	5·4	42	10·21
Between the latitudes 52° and 53°	29·506	85·7	38·1	47·6	68·2	50·2	37·5	18·0	59·6	52·7	·399	4·6	1·3	78	531	—	—	0·9	5	7	7	12	—	5·5	39	8·56
Between the latitudes 53° and 54°	29·523	82·5	36·3	46·2	64·3	49·1	35·6	15·2	57·2	50·9	·374	4·2	1·1	80	529	—	44·9	0·7	4	6	8	13	—	6·1	52	10·05
Between the latitudes 54° and 55°	29·511	80·2	33·3	46·9	64·8	48·7	36·7	16·1	57·1	50·6	·370	4·2	1·1	79	533	102·2	45·0	1·2	4	5	9	13	5·3	5·6	48	8·77
Miltown, Banbridge (Ireland)	29·489	76·0	29·0	47·0	62·5	47·4	33·2	15·1	56·1	50·0	·362	4·1	1·0	80	528	106·2	45·1	2·1	6	4	14	6	3·1	4·6	41	10·33
Mean for the Quarter 50° to 55° — Year 1868	29·516	88·9	42·1	46·8	72·3	53·7	41·3	18·6	61·9	54·3	·424	4·7	1·5	77	528	114·4	46·7	1·2	7	8	7	9	4·5	4·5	30	7·40
Mean for the Quarter 50° to 55° — 1869	29·547	81·8	37·6	49·2	69·4	51·8	40·7	17·6	59·5	52·3	·393	4·3	1·3	77	531	107·1	43·8	1·2	6	5	7	13	4·3	5·4	36	6·80
Mean for the Quarter 50° to 55° — 1870	29·619	86·1	37·2	48·9	70·1	51·3	33·5	18·8	59·6	52·0	·390	4·3	1·4	76	531	108·5	44·6	1·0	8	6	6	11	3·7	4·7	29	4·90
Mean for the Quarter 50° to 55° — 1871	29·517	84·5	36·9	47·6	67·0	50·2	37·0	16·9	58·9	52·2	·394	4·4	1·2	79	530	108·7	46·8	1·0	5	6	8	12	4·0	5·5	44	9·64

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING DECEMBER 31, 1871.

Remarks on the Weather during the Quarter ending December 31st, 1871.

By James Glaisher, Esq., F.R.S., *&c., Secretary of The Meteorological Society.*

Till the 16th day of October the temperature of the air was constantly below the average; this was followed by 5 warm days, then by 6 cold, and the month closed with a second period of 5 days of warm weather; upon the whole month the temperature was nearly a degree below the average, as found from the previous 30 Octobers. On the 2nd of November a period of cold weather set in of unprecedented length, continuing throughout the whole month. The mean temperature of this month was 37°·6, being $4\frac{3}{4}$° below its average, as found from 100 years observation, of $5\frac{1}{2}$° below the mean temperature of the 50 years ending 1863, and $6\frac{1}{4}$° below the average of the last 30 Novembers.

Since the year 1771 the following are all the instances of November with mean temperature below 40°:—

The year 1773 was 39°·2.	The year 1789 was 38°·7.	The year 1826 was 39°·9.
" 1774 " 39°·2.	" 1805 " 39°·9.	" 1829 " 39°·3.
" 1780 " 39°·5.	" 1807 " 38°·7.	" 1851 " 37°·9.
" 1782 " 34°·7.	" 1809 " 39°·5.	" 1858 " 39°·6.
" 1786 " 36°·7.	" 1815 " 38°·9.	" 1862 " 39°·8.
" 1787 " 39°·6.	" 1816 " 39°·3.	

So that in two instances only, viz., in the years 1782 and 1786, has the mean temperature been lower than 37°·6 since the year 1771, that is in the previous 100 years; and since the year 1786, that is in the last 85 years, there has not been any instance of such a cold November. The cold continued into December, and with severity till the 12th day; from the 1st of December to the 12th the average deficiency of mean daily temperature was $9\frac{1}{4}$°.

The mean departure of the 7th, 8th, and 9th of December was more than 14°, the 8th being as large as 19°·3; the mean temperature of this day was 22°·4, its average is 41°·7. The minimum temperature on the morning of this day was 18°·6. The following table gives the lowest readings at several stations on those days.

Table of Minimum Temperature of the Air on the 7th, 8th, and 9th of December 1871.

Names of Stations.	Minimum Temperature on the 7th.	8th.	9th.	Names of Stations.	Minimum Temperature on the 7th.	8th.	9th.	Names of Stations.	Minimum Temperature on the 7th.	8th.	9th.
	°	°	°		°	°	°		°	°	°
Guernsey - -	34·0	20·5	25·5	Weybridge - -	28·0	16·5	18·5	Derby - -	30·0	17·0	22·0
Helston - -	27·0	28·0	29·0	Greenwich - -	26·0	18·6	21·3	Nottingham - -	29·2	16·6	18·8
Truro - -	36·0	25·0	21·0	Marlborough - -	24·1	16·3	17·4	Hawarden - -	31·0	24·0	29·0
Sidmouth - -	25·5	25·0	25·4	Chislehurst - -	18·0	15·0	18·5	Liverpool - -	31·6	22·9	25·3
Eastbourne - -	29·1	20·0	21·1	Streatley - -	17·3	18·2	29·6	Eccles - -	29·5	17·7	17·4
Osborne - -	25·0	23·2	20·8	Camden - -	29·9	20·1	21·2	Moorside - -	29·5	18·0	28·0
Bournemouth - -	26·3	25·1	31·0	Oxford - -	21·6	22·0	29·2	Halifax - -	20·0	16·0	25·0
Portsmouth - -	24·4	21·2	23·2	Gloucester - -	22·5	21·7	18·7	Hull - -	31·0	19·0	28·0
Worthing - -	28·7	22·8	24·3	Royston - -	28·9	19·7	20·1	Stonyhurst - -	19·5	23·1	31·4
Brighton - -	28·4	22·0	21·9	Cardington - -	26·0	27·6	21·6	Cockermouth - -	20·3	30·5	35·8
Taunton - -	21·6	17·9	22·5	Leamington - -	28·5	23·0	22·5	Allenheads - -	22·2	21·7	28·8
Wilton - -	21·0	17·5	22·5	Somerleyton - -	23·4	9·7	12·9	Cumberland - -	25·7	30·2	36·2
Barnstaple - -	26·0	25·0	29·0	Norwich - -	24·0	9·0	13·0	Carlisle - -	23·8	28·7	33·5
Aldershot - -	27·4	18·4	20·8	Wisbech - -	29·7	12·5	14·1	Bywell - -	31·0	30·0	33·0
Tilbury - -	16·0	19·5	29·2	Llandudno - -	35·0	25·6	36·2	North Shields - -	34·0	25·0	32·2
Strathfield Turgis -	24·2	13·8	16·3	Holkham - -	27·2	7·6	16·4	Banbridge - -	27·0	22·0	27·0
Bath - -	22·2	20·8	23·8								

From the numbers in this table it will be seen that the cold was more severely felt in Norfolk than elsewhere; the lowest temperatures were 7°·6 at Holkham, 9° at Norwich, 9°·7 at Somerleyton, $12\frac{1}{2}$° at Wisbech; the temperatures were not particularly low at Guernsey, in Cornwall, near the west coast, and in Northumberland, but the cold was generally felt severely at a little distance from the south coast, and throughout the Midland Counties, but not extending so far north, as before stated, to Northumberland.

From the 13th of December to the end of the year the temperature was in excess to the amount on the average of $3\frac{1}{2}$° daily.

The mean temperature of October and November taken together was 43°·5, and we must travel back to the year 1829 for a mean temperature for these two months of so low a value, when it was 43°·4; in the year 1813 it was 43°·7, and 1808 was 43°·6; and there were no other instances in this century of similar temperature. The mean temperature of November and December taken together was 38°·0; in consequence of the severe weather last December the mean of these months was lower, 37°·5; in the year 1853 it was 38°·0, in 1829 was 37°·1, and in 1815 was 37°·9; and there are no other instances back to the beginning of this century.

The mean temperature of these 3 months was 41°·8, and since the year 1799, when the mean of the three months ending December was 41°·0, there have been only 7 similar instances, viz.,—

	Oct.	Nov.	Dec.	
1812 -	48°·8	40°·6	35°·1	Mean 41°·5
1813 -	47°·3	40°·2	36°·6	" 41°·4
1819 -	47°·5	40°·8	37°·0	" 41°·8
1829 -	47°·5	39°·3	34°·9	" 40°·6
1840 -	46°·8	43°·4	33°·3	" 41°·2
1853 -	50°·9	42°·1	34°·0	" 41°·8
1870 -	49°·8	41°·5	33°·6	" 41°·6

E. & S.—500.—2/72.

The quarter has therefore been remarkable for the longest continuance of low temperatures in November and first half of December in this century. The fall of rain in the month of October was only one half of its average fall; in November it was only one fourth, and in December three-fifths of its average, so that the fall of rain in each month was in defect. The monthly pressures of the atmosphere have been in excess.

On the 1st October the reading of the barometer at the height of 159 feet above sea level was 28·9 in. About midnight an increase set in and lasted, with the exception of a slight depression on the 7th, till the 13th, when the maximum 30·3 in. (being also the absolute maximum for the month) was reached. A decrease in the reading till the 19th was then registered, the value at 9h. p.m. of that day being 29·5 in. Another high wave then ensued, reaching its maximum (30·18) on the 25th, followed in its turn by decreasing readings till the 29th. The range of readings during October amounted to 1·4 in.

During November few movements of the barometric column of any magnitude were experienced; the principal being a steady fall from 29·97 in. on the 5th to 29·30 in. on the 8th, followed by a rise to 30·2 in. on the 13th. During the remainder of the month several small elevations and depressions were recorded, but to very small amounts, the readings being generally in excess of 29·7 in. till the last two days. The range of readings during November was 0·99 in.

From December 1st to 18th high values were recorded, the daily means without exception being in excess of the average, but on the 18th a fall set in, which reached its minimum (29·2 in.) on the 20th. Increasing readings were then registered till 9h. p.m. of the 23d, the value at that time being 30·0 in. Another decrease was then experienced, arriving at its minimum (29·2 in.) on the 28th. This was again followed by an increase till the end of the month, when the reading was again 30·0 in. The range of reading during the month amounted to 1·1 in.

The mean temperature of October was 49°·4, being 0°·2 lower than the average of 100 years, 0°·4 lower than the corresponding value in 1870, but higher than in 1869, 1868, and 1867, when 48°·9, 47°·9, and 48°·7 were recorded.

The mean temperature of November was 37°·6, being 4°·7 lower than the average of the preceding 100 years, and 3°·9 lower than in the year 1870.

The mean temperature of December was 38°·3, being 0°·8 below the average of 100 years, and 4°·7 higher than in 1870.

The mean high day temperature of October was higher, and of November and December lower, than their respective averages.

The mean low night temperatures of October, November, and December were respectively lower than their averages.

Therefore the days in October were warm while the nights were cold. In November and December both the days and nights were cold.

The daily ranges of temperature were greater than their averages in October, but less in November and December.

The fall of rain was 1·4 in., 1·8 in., and 0·8 in. in defect in October, November, and December respectively.

The mean temperature of the air in the three months ending November, constituting the three autumn months, was 48°·1, being 1°·3 lower than the average of 100 years.

1871. Months.	Temperature of Air. Mean.	Air. Diff. from average of 100 years.	Air. Diff. from average of 30 years.	Evaporation. Mean.	Evaporation. Diff. from average of 30 years.	Dew Point. Mean.	Dew Point. Diff. from average of 30 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 30 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 30 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 30 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	grs.
Oct. -	49·4	−0·2	−0·9	47·3	−1·1	45·1	−1·1	16·7	+2·0	52·3	0·361	−0·013	3·5	−0·2
Nov. -	37·6	−4·7	−6·2	35·8	−5·7	33·4	−6·3	10·4	−1·3	42·6	0·191	−0·038	2·2	−0·6
Dec. -	38·3	−0·8	−2·0	36·9	−1·9	35·0	−1·9	8·0	−1·5	37·1	0·204	−0·018	2·4	−0·2
Mean -	41·8	−1·9	−3·0	40·0	−2·9	37·8	−3·1	11·7	−0·3	44·0	0·232	−0·030	2·7	−0·3

1871. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 30 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 30 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 30 years.	Rain. Amount.	Rain. Diff. from average of 56 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
Oct. -	86	−1	29·785	+0·063	542	+3	1·4	−1·4	193	9	12	10	24·4	49·0
Nov. -	85	−3	29·816	+0·045	556	−8	0·6	−1·8	189	21	6	3	16·6	42·7
Dec. -	88	0	29·925	+0·119	557	+5	1·2	−0·8	254	17	14	0	11·0	39·5
Mean -	86	−1	29·842	+0·082	552	0	Sum 3·2	Sum −4·0	Mean 212	Sum 47	Sum 32	Sum 13	Lowest 11·0	Highest 49·0

NOTE.—In reading this table it will be borne in mind that the minus sign (−) signifies below the average, and that the plus sign (+) signifies above the average.

Thunderstorms occurred on six days in October, two in November, and two in December; viz., on October 1st at Guernsey and Leamington; on the 3d at Guernsey, Boston, and Leeds; on the 4th at Cockermouth; on the 5th at Cockermouth and Silloth; on the 8th at Hull; on the 19th at Chislehurst, Holkham, and Brighton; in November, on the 8th at Llandudno and Liverpool; on the 10th at Stonyhurst; in December, on the 3d at North Shields; and 30th at Llandudno and Park Road, Halifax.

Thunder was heard, but lightning was not seen, on 5th October at Silloth; and on the 8th at Eastbourne, Allenheads, and North Shields; on the 8th of November at Somerleyton; on the 9th at Stonyhurst; on the 11th at Guernsey; on the 26th at Helston; on the 7th of December at North Shields; on the 30th at Park Road, Halifax.

Lightning was seen, but thunder was not heard, on 1st October at Osborne; on the 2d at Osborne and Carlisle; on the 4th at Allenheads, Carlisle, and Silloth; on the 5th at Worthing; on the 8th at Strathfield, Cardington, Boston, and Allenheads; on the 18th at Norwich; on the 19th at Eastbourne; on the 7th of November at Carlisle; on the 8th at Cockermouth; on the 9th at Liverpool; on the 10th at Somerleyton, Liverpool, and Cockermouth; on the 11th at Guernsey; on the 26th at Helston.

Solar halos were seen on the 9th of October at Strathfield and Brighton; on the 23d at Strathfield; on the 24th at Oxford; on the 8th of November at Carlisle; on the 13th at Oxford and Liverpool; on the 14th at Oxford; on the 21st at Oxford; on the 5th of December at Weybridge; on the 25th at Cockermouth.

Lunar halos were seen on the 24th of October at Worthing; on the 28th at Marylebone; on the 19th of November at Eccles; on the 20th at Oxford; on the 21st at Weybridge, Cardington, and Hull; on the 22d at Hull; on the 23d at Hawarden, Liverpool, and Allenheads; on the 25th at Carlisle; on the 27th at Gloucester; on the 30th at Gloucester; on the 15th of December at Eccles; on the 17th at Marylebone; on the 18th at North Shields; on the 19th at Stonyhurst; on the 23d at Portsmouth, Oxford, and North Shields; on the 24th at Weybridge, Chislehurst, Marylebone, Wisbech; on the 27th at Weybridge and Stonyhurst.

Auroræ Boreales were seen on six days in October, viz., on the 10th, 11th, 17th, 20th, 24th, and 30th; on the 10th at Brighton; the 11th at Halifax; the 17th at Bournemouth; the 20th at Hull; the 24th at Silloth; and the 30th at Guernsey and Helston. On 9 days in November, on the 8th, 9th, 10th, and 11th, all over the country; on the 13th and 14th at Helston; on the 16th at Streatley; on the 19th at Oxford; and 23d at Portsmouth; and on three days in December; on the 9th at Allenheads; on the 16th at Cockermouth; and on the 30th at Aldershot.

Snow fell on the 9th of October at Halifax and on the 21st at Liverpool; it fell generally over the country, excepting Cornwall and the extreme south coast, on 17 days in November and 13 days in December.

Hail fell on three days in October, on the 3d at Halifax and Cockermouth; on the 5th and 8th at Halifax, Stonyhurst, York, and Allenheads. It fell on 10 days in November; on the 11th, 15th, 21st, and 30th at Guernsey; on the 9th, 10th, and 11th generally over the Midland Counties; and on the 8th, 17th, 27th, and 29th at a few places in the North of England; and on 12 days in December.

Fog was prevalent at different places on 26 days in October; 27 days in November; and 23 days in December; at stations mostly between the latitudes of 51° and 52°.

Field Elm divested of leaves on the 26th of October at Brighton; on the 20th of November at Oxford; and on the 15th at Hull.

Wych Elm divested of leaves on the 20th of October at Carlisle; on the 15th of November at Hull; and on the 10th of December at Guernsey.

Lombardy Poplar divested of leaves on the 6th of November at Brighton.

Oriental Plane divested of leaves on the 15th of November at Hull; and on the 30th at Brighton.

Beech divested of leaves on the 9th of November at Brighton; and on the 24th at Culloden.

Oak divested of leaves on the 30th of October at Guernsey; on the 24th of November at Hull.

Occidental Plane divested of leaves on the 24th of November at Hull.

Hazel divested of leaves on the 24th of November at Hull.

Lime divested of leaves on the 23d of October at Chislehurst; on the 26th at Llandudno; on the 27th at Hull; on the 30th at Guernsey; on the 10th November at Brighton and Weybridge; and on the 20th at Culloden.

Sycamore divested of leaves on the 8th of October at Helston; on the 22d at Carlisle; on the 27th at Chislehurst; on the 30th at Guernsey; on the 12th of November at Weybridge; and on the 17th at Brighton.

Horse Chestnut divested of leaves on the 2d of October at Carlisle; on the 24th at Hull; on the 30th at Guernsey and Llandudno; on the 5th of November at Culloden; on the 7th of November at Weybridge; and on the 9th at Brighton.

Common Poplar divested of leaves on the 16th of October at Helston; on the 30th at Chislehurst; on the 10th of November at Culloden; on the 15th at Hull and Culloden; and on the 16th at Oxford.

Ash divested of leaves on the 11th at Culloden.

Hawthorn divested of leaves on the 19th of October at Helston; and on the 12th of November at Weybridge.

Walnut divested of leaves on the 22d of October at Carlisle; on the 27th at Chislehurst; on the 10th of November at Weybridge; on the 15th at Hull.

Larch divested of leaves on the 6th of November at Culloden.

Swallow departed on the 1st of October from Hawarden; on the 5th from Brighton; on the 12th from Weybridge; on the 13th from Helston; on the 6th of December from Osborne.

Woodcock arrived on the 16th of October at Helston; and on the 31st at Hawarden.

Cuckoo left Hull on the 22d of October.

Redwing arrived on the 8th of December at Brighton.

Fieldfare arrived on the 9th of October at Culloden; and on the 2d of November at Cardington.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING DECEMBER 31ST, 1871.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the fifth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1871. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Lowest.	Range.	Mean of all Highest.	Mean of all Lowest.	Mean Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour in a cubic foot of Air. Mean.	Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Minimum on Grass.	Wind. Estimated Strength.	Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Amount collected.
	feet		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S.	204	Oct.	29·715	1·088	63·4	43·5	19·9	59·0	50·4	8·6	54·1	49·0	·348	3·9	0·8	82	535	–	–	1·3	4	8	11	8	3·8	5·5	14	5·56
		Nov.	29·730	0·859	56·5	32·0	24·5	47·7	40·3	7·4	43·9	38·7	·227	2·6	0·7	78	547	–	–	1·5	10	11	5	4	3·0	5·6	13	1·57
		Dec.	29·919	1·232	51·5	25·5	26·0	46·6	38·2	8·4	42·6	37·1	·221	2·6	0·6	82	552	–	–	1·4	8	5	8	10	4·3	5·5	18	2·60
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	Oct.	29·843	1·056	66·0	40·0	26·0	62·2	48·6	13·6	54·6	50·1	·362	4·1	0·7	84	537	71·8	45·9	2·0	5	7	9	10	4·2	6·3	20	5·38
		Nov.	29·899	0·817	60·0	30·0	30·0	53·5	39·7	13·8	45·9	38·8	·238	2·7	0·9	77	548	60·6	35·7	2·1	10	11	6	3	4·7	6·3	17	3·41
		Dec.	30·057	1·365	58·0	26·0	32·0	52·3	36·3	16·0	44·2	38·0	·226	2·6	0·7	77	553	59·4	32·3	1·9	11	3	6	11	4·4	5·9	14	3·16
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	Oct.	29·890	1·107	63·0	36·0	27·0	59·0	48·0	11·0	52·8	47·6	·330	3·7	0·8	83	540	–	–	2·5	7	4	11	9	–	6·9	23	5·19
		Nov.	29·949	0·796	57·0	22·0	35·0	50·0	39·3	10·7	43·7	37·1	·221	2·6	0·7	77	551	–	–	2·3	13	10	4	3	–	6·6	10	2·28
		Dec.	30·093	1·348	53·0	21·0	32·0	48·4	38·7	9·7	42·9	36·9	·229	2·5	0·7	80	555	–	–	1·9	11	4	7	9	–	6·4	15	2·86
SIDMOUTH (Devon), J. Inglebly Mackenzie, Esq., M.B., F.M.S.	30	Oct.	29·916	1·232	61·0	39·3	21·7	57·3	48·5	8·8	52·6	49·8	·358	4·0	0·4	91	540	–	–	1·3	5	4	7	15	–	4·1	16	3·50
		Nov.	29·972	0·847	54·3	25·5	28·8	46·1	37·2	8·9	41·7	37·9	·228	2·6	0·4	87	554	–	–	–	9	13	3	5	–	3·4	7	1·77
		Dec.	30·111	1·317	50·4	23·5	26·9	44·9	33·5	11·4	39·9	37·8	·227	2·7	0·2	93	558	–	–	0·7	14	2	1	14	–	3·6	8	1·94
EASTBOURNE (Sussex), Miss W. L. Hall.	12	Oct.	29·959	1·211	64·1	33·0	31·1	58·9	44·8	14·1	52·2	46·8	·321	3·6	0·8	82	542	84·7	37·2	0·4	5	6	11	9	1·1	–	13	1·70
		Nov.	29·976	0·976	55·3	22·3	33·0	46·2	35·1	11·1	40·9	36·8	·218	2·5	0·5	86	555	54·1	27·4	0·4	11	10	3	6	2·3	–	10	0·60
		Dec.	30·123	0·968	49·8	20·0	29·8	43·9	35·2	8·7	40·2	39·1	·240	2·8	0·1	97	558	48·2	27·8	0·4	11	3	7	10	5·0	–	12	1·88
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	Oct.	29·772	1·268	67·1	36·5	30·6	59·5	45·0	14·5	51·5	48·4	·342	3·9	0·5	89	539	75·9	42·7	0·1	5	7	10	9	–	6·5	14	1·92
		Nov.	29·807	0·913	55·4	23·8	31·6	45·8	34·5	11·3	39·8	35·3	·208	2·4	0·5	85	553	51·8	32·5	0·4	11	8	5	6	–	6·0	7	0·49
		Dec.	29·934	1·159	49·7	20·8	28·9	43·6	33·2	10·4	38·6	37·2	·222	2·6	0·1	95	557	45·7	31·1	0·4	8	2	9	12	–	6·0	14	2·20
BOURNEMOUTH (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	128	Oct.	29·829	1·360	61·5	37·8	23·7	57·2	46·8	10·4	51·6	46·4	·316	3·5	0·8	82	543	85·0	–	–	7	3	9	12	1·3	4·7	16	2·56
		Nov.	29·850	0·920	53·6	24·7	28·9	45·6	35·6	10·0	40·3	35·7	·210	2·5	0·5	84	556	57·0	–	–	13	10	3	4	1·6	4·6	9	1·32
		Dec.	29·993	1·160	49·0	23·6	25·4	43·2	34·6	8·6	38·8	35·3	·207	2·5	0·5	88	556	–	–	–	11	2	5	3	–	4·3	12	2·02
PORTSMOUTH, William C. Ellis, Esq., F.M.S.	16	Oct.	29·948	1·286	68·8	36·2	32·6	59·8	44·0	15·8	51·6	45·6	·306	3·5	0·9	80	542	79·7	40·5	1·3	4	7	12	8	1·9	6·2	15	1·78
		Nov.	29·986	0·954	55·8	25·4	30·4	46·6	32·8	13·8	39·9	32·8	·188	2·2	0·7	76	556	54·0	29·8	1·6	10	8	4	8	0·7	5·7	8	1·24
		Dec.	30·127	1·140	50·6	21·2	29·4	44·5	31·8	12·7	39·0	34·9	·203	2·5	0·5	86	560	50·5	28·6	1·4	8	3	7	13	1·7	6·6	12	1·73
WORTHING (Sussex), W. J. Harris, Esq. M.R.C.S.E., L.S.A.	31	Oct.	29·907	1·290	64·5	38·4	26·1	59·1	47·0	12·1	52·4	47·0	·323	3·6	0·8	82	541	106·8	41·8	0·9	4	5	12	9	4·2	4·9	14	1·36
		Nov.	29·936	0·956	54·3	26·4	27·9	46·0	35·7	10·3	40·2	34·0	·196	2·3	0·6	79	555	78·3	31·0	1·0	12	9	3	6	2·3	5·6	7	0·62
		Dec.	30·073	1·135	50·2	22·3	27·9	43·9	34·5	9·4	39·4	35·2	·206	2·4	0·4	85	558	74·4	29·6	0·8	11	1	7	12	2·8	6·5	12	1·38
BRIGHTON (Sussex), Frederick E. Sawyer, Esq., F.M.S.	200	Oct.	29·736	1·419	64·2	40·0	24·2	57·0	46·2	10·8	50·7	46·6	·318	3·7	0·5	87	539	94·0	41·6	1·6	4	8	11	8	1·2	6·2	15	1·20
		Nov.	29·747	0·871	52·6	27·0	25·6	43·4	35·1	8·3	38·9	34·2	·198	2·3	0·5	85	553	73·1	30·9	0·9	14	8	4	4	0·5	6·0	8	0·67
		Dec.	29·902	1·112	48·4	21·9	26·5	42·1	34·5	7·6	38·7	35·4	·208	2·4	0·3	89	556	66·0	29·2	1·1	11	2	7	11	0·9	6·9	12	1·26
TAUNTON (Somerset), Rev. W. Tuckwell, F.M.S.	80	Oct.	29·843	1·410	65·5	30·7	34·8	58·1	43·0	15·1	50·3	47·6	·330	3·7	0·4	91	541	67·7	40·5	0·2	7	3	10	11	0·6	6·5	17	3·00
		Nov.	29·913	0·898	53·9	20·3	33·6	47·0	33·8	13·2	39·9	36·7	·218	2·6	0·3	89	555	52·5	29·8	1·9	10	11	5	4	4·5	5·2	5	0·73
		Dec.	30·002	1·346	53·0	17·9	35·1	45·1	31·8	13·3	39·4	37·4	·224	2·6	0·2	93	559	51·7	28·6	0·2	11	7	1	12	5·0	6·0	10	2·02
WILTON HOUSE (near Salisbury), T. Challis, Esq.	186	May	29·892	0·533	81·5	30·5	51·0	66·9	40·6	26·3	52·7	45·7	·307	3·5	1·0	77	541	114·4	41·4	1·2	12	9	6	4	3·5	4·1	4	0·72
		June	29·759	0·702	77·5	31·0	46·5	67·9	44·8	23·1	55·1	49·4	·353	4·0	1·0	81	536	110·1	29·8	1·2	13	4	6	7	4·5	5·7	12	1·99
		July	29·680	0·772	84·0	44·0	40·0	72·5	52·6	19·9	60·6	57·1	·467	5·2	0·8	88	528	114·9	47·7	1·3	3	2	13	3	5·4	6·5	23	4·88
		Aug.	29·841	1·044	94·5	41·5	53·0	77·6	50·6	27·0	63·2	58·1	·478	5·3	1·1	83	528	120·3	49·1	1·2	5	3	12	11	3·3	2·6	7	2·04
		Sept.	29·690	1·326	79·0	32·0	47·0	66·4	47·4	19·0	55·7	51·6	·385	4·3	0·7	89	532	100·6	45·3	1·2	8	6	11	5	4·8	4·8	15	4·75
		Oct.	29·751	1·263	67·5	29·0	38·5	59·6	40·3	19·3	49·2	46·1	·313	3·6	0·5	90	543	89·1	38·9	1·1	4	6	12	9	5·4	5·9	18	2·77
		Nov.	29·792	0·965	56·0	21·0	35·0	46·1	30·9	15·2	38·0	34·2	·197	2·3	0·4	86	556	69·2	29·2	1·1	12	9	6	3	3·3	6·3	8	0·67
		Dec.	29·961	1·255	50·5	17·5	33·0	45·5	29·9	13·6	36·9	35·1	·204	2·4	0·2	94	560	61·7	27·7	1·2	14	8	7	7	3·3	6·2	15	2·92
BARNSTAPLE (Devon), T. Mackrell, Esq.	43	Oct.	29·868	1·318	64·4	35·8	28·6	59·1	47·0	12·1	53·0	48·2	·337	3·8	0·7	84	539	–	–	1·3	2	4	15	10	–	4·4	27	6·12
		Nov.	29·938	0·845	54·0	25·5	28·5	47·1	37·4	9·7	42·5	37·4	·224	2·6	0·6	83	552	–	–	0·1	10	10	4	6	–	2·6	11	1·79
		Dec.	30·060	1·381	52·0	22·5	29·5	45·9	34·9	11·0	41·0	38·0	·229	2·6	0·4	90	556	–	–	0·1	4	7	11	9	–	3·7	20	2·54
ALDERSHOT CAMP (Hants), John Arnold, M.S.C., F.M.S.	325	Oct.	29·583	0·217	66·0	31·8	34·2	57·9	41·1	16·8	49·6	46·5	·317	3·6	0·6	88	544	86·2	38·8	1·1	5	6	12	8	1·9	7·6	16	1·51
		Nov.	29·622	0·913	52·0	21·0	31·0	44·0	31·9	12·1	37·8	33·6	·192	2·2	0·5	85	552	66·3	29·5	1·1	11	9	3	7	1·5	7·3	12	0·37
		Dec.	29·735	1·123	49·4	18·4	31·0	42·9	33·0	9·9	38·0	35·1	·204	2·4	0·3	89	554	57·0	29·0	1·3	6	1	8	16	2·1	7·8	17	1·44
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	Oct.	29·748	1·297	70·2	27·0	43·2	59·8	44·0	19·8	49·4	46·1	·312	3·6	0·4	89	541	97·9	35·8	0·5	4	7	8	12	3·0	6·4	11	1·34
		Nov.	29·792	0·955	53·3	15·0	38·3	44·1	30·5	13·6	37·5	32·5	·185	2·1	0·5	83	555	69·4	25·3	0·6	9	12	4	5	3·5	5·7	10	0·40
		Dec.	29·901	1·142	49·3	13·8	35·5	42·3	30·9	11·4	37·6	34·1	·196	2·3	0·3	87	557	62·1	25·4	0·7	6	5	8	12	3·5	6·8	12	1·38
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	Oct.	29·922	0·915	68·0	27·7	40·3	58·4	41·4	17·0	48·3	43·3	·281	3·2	0·6	84	545	83·1	37·6	0·3	–	–	–	–	0·8	5·2	11	1·11
		Nov.	29·856	0·884	54·8	18·5	36·3	43·7	31·7	12·0	36·8	33·0	·187	2·2	0·4	86	557	62·0	28·4	0·6	8	9	8	5	0·9	5·7	7	0·37
		Dec.	29·977	1·108	49·3	16·5	32·8	42·0	33·2	8·8	37·6	34·6	·200	2·3	0·3	89	559	50·2	29·1	0·6	6	5	12	8	1·1	6·8	12	1·22
BATH ROYAL LITERARY AND SCIENTIFIC INST. (Somerset), Chas. P. Russell, Esq.	86	June	29·845	0·787	71·0	37·8	33·2	64·4	49·2	15·2	55·5	49·7	·357	4·0	0·9	82	536	–	–	1·5	11	5	4	10	4·6	7·5	15	1·94
		July	29·813	0·745	79·0	46·8	32·2	69·0	55·1	13·9	60·4	55·2	·437	4·9	1·0	84	530	–	–	1·3	–	–	–	–	5·1	7·0	21	5·16
		Aug.	29·935	1·064	85·2	45·2	40·0	75·0	55·1	19·9	63·9	58·7	·494	5·5	1·1	83	528	–	–	1·2	7	8	6	10	4·4	3·5	6	1·15
		Sept.	29·798	1·327	78·0	37·8	40·2	64·6	50·1	14·5	56·2	51·3	·378	4·2	0·8	83	534	–	–	1·3	8	10	6	6	4·3	6·8	13	5·91
		Oct.	29·843	1·333	66·0	32·8	33·2	58·2	44·3	13·9	50·3	46·8	·321	3·6	0·5	88	542	–	–	1·2	4	5	10	12	3·5	7·0	16	1·58
		Nov.	29·908	0·977	54·6	23·6	31·0	45·2	37·4	7·8	39·7	36·3	·214	2·5	0·4	88	555	–	–	–	10	10	3	7	3·9	7·8	10	0·70
		Dec.	30·008	1·227	51·7	20·8	30·9	44·6	33·1	11·5	38·8	36·6	·217	2·6	0·2	94	558	–	–	1·0	6	2	11	12	2·5	7·9	16	1·96
MARLBOROUGH COLLEGE (Wilts), Rev. Thomas A. Preston, M.A.	456	Oct.	29·474	1·319	65·1	28·0	37·1	56·7	41·2	15·5	48·7	45·9	·311	3·5	0·4	91	537	85·8	35·4	7·4	5	4	13	19	2·0	7·4	18	1·82
		Nov.	29·522	0·909	51·9	18·2	33·7	43·6	30·9	12·7	37·0	33·5	·193	2·2	0·4	88	551	55·4	27·2	6·5	6	15	5	6	2·2	6·0	9	0·70
		Dec.	29·637	1·352	55·2	16·3	38·9	43·0	31·2	11·8	37·3	35·4	·207	2·4	0·3	93	553	50·2	25·8	–	7	6	9	9	2·9	6·0	15	2·47
EAST TILBURY (Essex), Rev. R. Tyas, M.A., LL.D.		Nov.	29·969	0·994	54·5	21·7	32·8	48·4	31·7	16·7	39·4	36·3	·214	2·5	0·4	89	556	–	–	–	5	11	10	4	–	5·9	10	0·51
		Dec.	30·085	1·077	54·5	16·0	38·5	46·0	32·9	13·1	39·4	33·1	·189	2·2	0·6	79	559	62·6	–	0·6	–	–	–	–	–	6·8	13	0·81
CHISLEHURST (Heathfield Lodge, Kent), Francis Nunes, Esq., M.A., F.M.S.	295	Oct.	29·640	1·368	69·5	31·0	38·5	59·3	41·3	18·0	49·8	44·2	·290	3·4	0·8	82	545	97·3	36·2	–	4	5	11	11	–	–	13	1·03
		Nov.	29·656	0·957	52·0	20·0	32·0	43·0	31·5	11·5	38·4	33·0	·188	2·2	0·6	81	558	68·5	26·7	–	–	–	–	–	–	–	16	0·55
		Dec.	29·780	1·102	48·5	15·0	33·5	41·7	32·8	8·9	37·7	34·9	·203	2·4	0·3	90	561	57·5	28·4	–	8	2	8	13	–	–	17	1·46
ROYAL OBSERVATORY (Kent), The Astronomer Royal.	159	Oct.	29·785	1·394	68·4	31·2	37·2	58·6	41·9	16·7	49·4	45·1	·301	3·5	0·6	86	542	84·2	35·2	0·1	3	7	14	7	–	5·9	12	1·37
		Nov.	29·816	0·985	51·0	20·3	30·7	43·2	32·7	10·4	37·6	33·4	·191	2·2	0·5	85	576	58·0	27·1	0·3	7	9	6	8	–	5·9	10	0·57
		Dec.	29·925	1·096	48·8	18·6	30·2	42·2	34·2	8·0	38·3	35·0	·204	2·4	0·4	88	557	49·7	27·9	0·5	6	2	8	15	–	6·8	17	1·23
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.A.S.	150	Oct.	29·863	1·240	69·0	30·6	38·4	59·6	42·9	16·7	50·0	45·5	·305	3·6	0·5	87	542	69·4	39·7	1·1	9	5	7	10	–	6·0	11	1·18
		Nov.	29·881	0·963	54·8	19·4	35·4	45·2	31·2	14·0	37·8	33·8	·194	2·3	0·3	86	557	53·5	26·8	1·2	10	9	5	6	–	5·3	10	0·43
		Dec.	29·990	1·132	49·2	17·3	31·9	43·8	31·7	12·1	38·6	34·3	·202	2·3	0·4	85	558	50·3	27·4	1·3	9	3	8	11	–	6·7	13	1·33
ST. JOHN'S COLLEGE, BATTERSEA, Rev. J. P. Faunthorpe, B.A., F.R.G.S.	13	Oct.	29·921	1·353	68·0	30·0	38·0	57·4	39·1	18·3	48·3	45·6	·300	3·3	0·4	91	545	76·3	31·5	0·9	0	1	22	8	–	7·4	14	1·72
		Nov.	30·040	0·997	53·0	18·5	34·5	44·0	30·7	13·3	37·8	31·2	·175	2·1	0·7	77	551	51·8	25·1	1·2	2	6	14	8	–	6·2	8	0·55
MARYLEBONE (London), Henry E. Segrave, Esq., F.M.S.	146	Oct.	29·963	1·382	70·0	33·0	37·0	58·9	41·1	17·8	49·2	45·2	·303	3·5	0·6	87	545	–	–	–	5	8	9	9	–	7·8	13	1·63
		Nov.	29·996	0·993	52·0	20·0	32·0	44·2	31·7	12·5	37·2	34·8	·202	2·3	0·3	91	560	–	–	0·7	10	11	3	6	–	–	12	0·64
		Dec.	30·103	1·106	51·0	20·2	30·8	42·8	33·4	9·4	38·4	34·6	·197	2·4	0·4	87	560	–	–	3·5	7	4	7	13	–	8·3	14	1·28
CAMDEN TOWN (London), G. J. Symons, Esq., F.M.S.	123	Oct.	29·827	1·505	67·0	31·2	35·8	58·5	41·4	17·1	49·3	44·9	·298	3·4	0·6	86	543	78·1	38·5	–	8	8	8	7	–	6·0	11	1·22
		Nov.	29·859	0·989	52·5	21·0	31·5	43·6	32·8	10·8	37·8	33·6	·192	2·2	0·5	85	556	53·9	29·7	–	13	7	3	7	–	6·0	8	0·60
		Dec.	29·971	1·106	49·0	20·1	28·9	42·7	34·2	8·5	38·7	35·7	·209	2·4	0·3	90	557	47·0	30·6	–	7	2	7	15	–	6·9	16	1·13
OXFORD (Oxfordshire), Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	Oct.	29·728	0·951	64·6	29·0	35·6	57·3	42·8	14·5	49·9	45·0	·299	3·4	0·6	84	540	97·5	39·2	0·9	5	4	14	8	1·5	7·0	13	1·19
		Nov.	29·769	0·966	53·3	8·0	45·3	43·0	31·6	11·4	37·6	32·9	·188	2·1	0·5	83	555	77·1	29·2	–	7	7	8	8	1·5	6·5	9	0·70
		Dec.	29·867	1·193	49·9	22·0	27·9	42·9	33·6	9·3	38·5	35·0	·207	2·4	0·3	89	555	66·4	29·5	1·0	6	1	12	12	1·2	7·5	11	0·89
GLOUCESTER (Gloucester), E. Toller, Esq., M.D.	100	Oct.	29·871	1·438	66·8	33·0	33·8	58·9	44·8	14·1	51·4	46·9	·323	3·6	0·7	81	541	85·9	43·5	0·5	4	4	10	13	1·7	5·6	15	1·48
		Nov.	29·954	0·923	54·5	21·0	33·5	45·0	32·5	12·5	38·9	33·2	·191	2·2	0·6	82	557	60·6	34·4	0·4	11	9	4	6	1·2	5·3	8	0·67
		Dec.	30·037	1·235	53·2	18·7	34·5	44·2	32·6	11·6	38·8	34·7	·203	2·4	0·4	86	558	51·4	31·6	0·7	6	3	9	13	0·7	5·7	12	1·92
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	Oct.	29·671	1·407	68·7	30·0	38·7	58·7	42·1	16·6	49·1	44·7	·296	3·4	0·6	85	540	–	–	–	3	4	15	9	–	5·7	11	0·51
		Nov.	29·736	0·937	54·5	23·2	31·3	43·8	30·5	13·3	37·0	33·2	·189	2·2	0·4	86	555	–	–	–	–	–	–	–	–	5·4	13	0·88
		Dec.	29·814	1·109	49·0	19·7	29·3	42·6	33·7	8·9	38·0	34·7	·201	2·3	0·4	88	555	–	–	–	5	1	10	15	–	6·5	20	0·88
CARDINGTON (near Bedford), Mr. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	100	Oct.	29·834	1·371	65·4	28·6	36·8	57·2	40·1	17·1	49·0	43·6	·286	3·2	0·8	82	543	70·2	34·1	0·6	4	4	12	11	–	5·6	12	0·84
		Nov.	29·901	0·980	55·0	19·0	36·0	43·7	30·5	13·2	36·9	32·1	·182	2·1	0·5	84	558	46·7	24·4	0·6	8	9	4	9	–	5·4	8	0·90
		Dec.	29·986	1·175	50·0	18·0	32·0	42·4	32·2	10·2	37·7	35·2	·203	2·4	0·2	91	558	42·8	25·6	0·8	6	2	8	15	–	6·7	13	0·60
ST. DAVID'S COLLEGE, LAMPETER (Cardiganshire), Rev. Prof. J. Matthews, M.A.	420	Oct.	29·598	1·030	63·0	28·5	34·5	59·4	43·2	16·2	50·4	48·3	·340	3·8	0·2	96	537	82·0	–	0·6	–	–	–	–	5·5	7·2	23	5·74
		Nov.	29·564	0·798	54·5	20·0	34·5	47·7	34·2	13·5	40·1	33·5	·192	2·2	0·7	77	548	69·7	–	0·7	9	10	5	6	4·0	6·1	12	1·37

Marylebone.—The readings of the barometer are apparently too high by 0·1 in.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1871. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
LEAMINGTON (Warwickshire), S. URWICK JONES, ESQ., F.M.S.	195	Oct.	29·746	1·237	64·5	32·0	32·5	57·3	42·7	14·6	48·7	45·0	·391	3·3	0·5	87	542	—	—	0·7	—	—	—	—	—	7·2	11	1·19
		Nov.	29·803	0·951	50·5	20·7	29·8	43·3	32·3	11·0	37·1	33·5	·192	2·2	0·4	87	556	—	—	0·3	—	—	—	—	—	6·0	13	0·45
		Dec.	29·877	1·202	50·0	22·3	27·7	43·1	33·1	10·0	38·3	34·8	·201	2·3	0·4	87	554	—	—	0·6	8	6	6	11	—	7·3	9	1·18
SOMERLEYTON RECTORY (Suffolk), REV. C. J. STEWARD, F.M.S.	50	Oct.	29·901	1·385	64·6	30·8	33·8	59·3	41·5	17·8	49·8	47·8	·333	3·7	0·3	93	543	96·0	32·5	0·8	4	4	15	8	8·0	4·2	9	1·67
		Nov.	29·937	1·025	53·0	22·8	30·2	45·6	33·4	12·2	39·0	36·2	·214	2·5	0·3	90	556	74·3	24·0	0·8	9	9	5	7	7·2	5·6	17	2·49
		Dec.	30·008	1·031	50·1	9·7	40·4	42·5	31·4	11·1	37·2	35·7	·210	2·5	0·1	92	559	61·1	24·1	0·9	4	4	8	15	7·1	6·1	17	1·27
NORWICH (Norfolk), C. M. GIBSON, ESQ., F.M.S.	42	Oct.	29·903	1·382	63·0	31·0	32·0	56·3	41·1	15·2	48·4	45·5	·305	3·4	0·4	90	545	—	—	—	4	4	14	9	—	—	8	1·65
		Nov.	29·950	1·037	52·0	24·0	28·0	43·2	32·0	11·2	37·5	34·0	·195	2·3	0·4	87	558	—	—	—	7	10	5	8	—	—	13	1·86
		Dec.	30·023	1·226	48·5	9·0	39·5	40·9	31·4	9·5	36·7	34·4	·198	2·3	0·2	91	560	—	—	—	5	2	11	13	—	—	20	1·52
WISBECH (Cambridgeshire), S. H. MILLER, ESQ., F.R.A.S., F.M.S.	14	Oct.	29·892	1·356	66·2	32·0	34·2	57·3	41·6	15·7	48·9	46·9	·322	3·6	0·4	93	545	91·2	36·9	0·3	3	9	12	7	1·7	5·6	11	1·35
		Nov.	29·968	1·011	52·5	22·0	30·5	43·7	32·1	11·6	37·6	33·8	·192	2·2	0·4	85	559	70·9	27·5	0·4	9	8	6	7	1·0	5·1	10	1·39
		Dec.	30·067	1·115	49·2	12·5	36·7	42·0	32·3	9·7	37·3	35·3	·207	2·3	0·2	93	560	59·7	29·3	0·4	6	3	13	9	2·3	6·9	15	1·28
LLANDUDNO (Carnarvonshire), JAMES NICOL, ESQ., M.D., and MONIA DALTON, ESQ., M.D.	100	Oct.	29·763	1·371	65·4	37·4	28·0	58·2	46·4	11·8	51·9	46·4	·316	3·6	0·8	82	539	—	—	0·4	2	5	7	17	—	6·4	19	6·17
		Nov.	29·894	0·874	55·2	32·9	22·3	47·5	38·4	9·1	43·1	37·0	·220	2·3	0·5	80	550	—	—	1·1	7	10	1	12	—	6·8	13	3·24
		Dec.	29·933	1·340	56·4	25·6	30·8	47·1	38·5	8·6	43·1	37·6	·225	2·6	0·6	81	552	—	—	0·8	5	3	3	20	—	6·5	17	2·29
DERBY (Derbyshire), JOHN DAVIS, ESQ.	174	Oct.	29·705	1·373	64·0	30·0	34·0	56·6	41·4	15·2	48·5	47·4	·328	3·7	0·2	96	541	—	—	—	2	3	13	13	—	—	18	2·37
		Nov.	29·799	0·987	52·0	21·0	31·0	43·6	32·7	10·9	38·0	34·7	·201	2·3	0·4	88	555	—	—	—	10	9	6	5	—	—	13	1·05
		Dec.	29·846	1·217	50·0	17·0	33·0	43·0	33·4	9·6	40·3	30·7	·172	2·0	1·0	68	554	—	—	—	6	2	9	14	—	—	15	1·29
NOTTINGHAM (Notts), M. O. TARBOTTON, ESQ., C.E., F.G.S., F.M.S.	241	Oct.	29·649	1·276	67·4	30·1	37·3	57·8	41·7	16·1	48·7	46·2	·314	3·5	0·2	96	540	84·1	31·9	0·3	1	6	14	10	0·7	5·8	17	2·00
		Nov.	29·731	0·973	53·3	20·5	32·8	43·5	31·6	11·9	37·4	35·7	·210	2·5	0·2	94	554	63·0	24·5	0·4	10	9	5	6	1·2	5·2	18	1·19
		Dec.	29·784	1·124	50·1	16·6	33·5	43·1	32·0	11·1	37·8	36·1	·212	2·4	0·3	93	555	50·9	26·6	0·3	4	4	12	11	1·2	6·6	17	1·33
HOLKHAM (Norfolk), JOHN DAVIDSON, ESQ., Assistant to the EARL of LEICESTER.	39	Oct.	29·895	1·389	65·4	29·2	36·2	56·8	41·5	15·3	49·2	44·8	·298	3·4	0·6	86	544	86·0	23·8	1·0	5	8	19	4	—	6·7	7	1·66
		Nov.	29·963	1·007	55·2	24·6	30·6	44·5	32·0	15·5	38·8	33·0	·188	2·2	0·6	81	557	52·1	25·6	1·1	—	—	—	—	—	6·1	10	1·61
		Dec.	30·028	1·198	50·5	7·6	42·9	42·5	32·4	10·1	38·0	34·4	·199	2·3	0·4	87	559	44·5	26·4	1·3	5	1	14	11	—	6·1	7	1·22
BOSTON (Lincolnshire), A. MERCER ADAM, ESQ., M.D., F.M.S.	20	Oct.	29·879	1·462	64·2	33·7	30·5	56·1	43·1	13·0	47·7	44·5	·294	3·3	0·5	90	545	80·9	38·8	1·5	5	2	12	12	1·2	6·1	12	1·37
HAWARDEN (Flint), T. MOFFAT, ESQ., M.D., F.R.A.S.	270	Oct.	29·614	1·399	63·5	39·0	24·5	56·2	46·3	9·9	49·6	46·5	·317	3·1	0·5	93	538	78·8	26·0	1·8	3	2	16	10	0·9	5·9	21	4·38
		Nov.	29·710	0·922	51·0	29·0	22·0	43·5	35·5	8·0	39·0	35·8	·210	2·4	0·4	89	552	54·8	16·7	1·9	9	4	10	7	0·7	6·2	15	1·61
		Dec.	29·737	1·347	55·0	24·0	31·0	52·9	37·0	15·9	42·6	38·2	·231	2·6	0·5	86	554	46·4	17·2	2·0	7	1	9	14	0·5	6·3	30	1·59
LIVERPOOL OBSERVATORY, JOHN HARTNUP, ESQ., F.R.A.S.	197	Oct.	29·685	1·368	62·1	38·2	23·9	56·3	45·4	10·9	50·2	45·7	·300	3·4	0·8	81	539	—	—	1·1	3	9	9	10	—	5·9	19	5·27
		Nov.	29·802	0·893	51·2	30·2	21·0	44·9	35·7	9·2	39·9	37·0	·201	2·3	0·6	88	553	—	—	0·1	8	10	6	6	—	6·0	12	1·93
		Dec.	29·833	1·299	53·6	22·9	30·7	44·6	35·7	8·9	40·6	36·1	·214	2·4	0·5	86	550	—	—	1·2	6	3	10	12	—	6·7	18	1·73
ECCLES, near MANCHESTER, T. MACKERETH, ESQ., F.R.A.S., F.M.S.	145	Oct.	29·731	1·376	66·5	30·2	36·3	57·1	41·5	15·6	49·0	43·8	·286	3·3	0·8	83	541	63·7	34·5	0·4	3	9	12	7	1·1	7·2	21	4·73
		Nov.	29·839	1·059	50·7	24·0	26·7	44·2	32·1	12·1	38·5	33·6	·193	2·2	0·5	83	555	48·3	24·9	0·5	10	8	6	6	1·1	5·8	11	1·52
		Dec.	29·877	1·237	53·0	17·4	35·6	43·8	31·5	12·3	38·1	34·5	·199	2·3	0·4	87	559	44·9	24·4	0·4	6	3	13	8	2·3	6·9	19	1·93
HALIFAX, (Yorkshire), LOUIS J. CROSSLEY, ESQ., F.M.S.	630 / 480 / 490	Oct.	29·208	1·375	64·8	30·1	34·7	52·5	42·5	10·0	47·6	44·7	·296	3·3	0·4	90	533	88·9	34·6	0·7	4	5	11	11	0·9	6·7	21	3·25
		Nov.	29·428	0·984	50·0	21·0	29·0	42·6	33·3	9·3	37·8	34·0	·195	2·3	0·4	86	548	68·2	28·1	1·0	12	7	3	8	0·7	7·6	21	0·92
		Dec.	29·460	1·124	51·0	18·0	33·0	42·4	35·1	7·3	39·1	36·1	·213	2·5	0·3	90	546	59·5	28·1	0·9	9	2	6	14	1·3	6·9	23	2·28
PARK ROAD OBSERVATORY (Halifax, Yorkshire), EDWARD CROSSLEY, ESQ., F.R.A.S.	618	Oct.	29·252	1·224	63·9	28·5	35·4	54·7	41·5	13·2	47·4	43·8	·286	3·2	0·5	89	534	78·0	35·9	0·3	2	8	11	10	—	5·5	19	4·07
		Nov.	29·316	0·978	49·0	21·0	28·0	41·7	32·8	8·9	36·8	32·7	·186	2·2	0·4	86	547	61·5	27·7	0·3	7	9	4	10	—	6·1	16	1·34
		Dec.	29·345	1·224	49·0	16·0	33·0	41·0	32·9	8·1	37·6	35·5	·208	2·4	0·2	92	547	51·5	28·3	0·4	—	—	—	—	—	7·9	17	2·17
THE PARK, HULL (Yorkshire), MR. E. PEAK.	12	Oct.	29·898	1·451	63·0	27·0	36·0	55·9	41·2	14·7	47·9	45·2	·301	3·4	0·4	91	545	74·0	39·0	—	—	—	—	—	0·2	—	13	1·41
		Nov.	29·964	1·066	51·0	21·0	30·0	43·4	32·6	10·8	38·2	33·9	·195	2·3	0·5	85	558	59·4	32·2	—	—	—	—	—	2·8	—	19	2·22
		Dec.	30·013	1·160	49·0	18·0	31·0	40·6	32·2	8·4	37·4	31·9	·180	2·1	0·5	81	560	50·8	30·1	—	—	—	—	—	2·8	—	19	1·77

HALIFAX.—The observations for October were made as usual at Willow Hall, 630 feet above the level of the sea. In November they were made at Stafford Road, 480 feet above sea level, and in December at Moorside

	Height of Station above Sea Level.	Year 1871. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
STONYHURST (Lancashire), REV. S. J. PERRY, F.R.A.S., F.M.S.	381	Oct.	29·472	1·424	65·2	30·7	34·5	55·4	43·8	11·6	48·5	40·1	·248	2·8	1·0	73	537	91·7	39·3	—	3	5	10	13	—	6·8	24	6·58
		Nov.	29·575	0·949	50·2	24·3	25·9	43·7	33·8	9·9	38·5	32·6	·185	2·2	0·6	80	550	81·5	29·1	0·8	9	11	4	6	—	6·2	23	2·98
		Dec.	29·395	1·268	53·1	19·5	33·6	43·6	34·5	9·1	39·1	36·1	·213	2·5	0·4	90	550	64·0	29·3	1·0	3	2	6	20	—	7·4	29	3·89
BRADFORD (Yorkshire), J. MCLANDSBOROUGH, ESQ., C.E., F.G.S.	366	Sept.	29·509	1·249	73·2	38·0	35·2	62·1	48·6	13·5	54·0	45·7	·307	3·5	1·2	73	532	84·8	—	1·0	—	—	—	—	—	6·5	12	4·30
		Nov.	29·571	0·864	51·6	25·5	26·1	45·6	34·8	10·8	39·4	33·2	·190	2·2	0·6	79	549	56·1	—	1·1	—	—	—	—	—	7·2	8	0·14
LEEDS PHILOSOPHICAL HALL (Yorkshire). LOUIS C. MIALL, ESQ.		Oct.	29·763	1·350	65·0	32·0	33·0	57·0	44·7	12·3	49·8	44·2	·290	3·3	0·7	82	541	67·6	—	1·3	5	6	12	8	—	8·0	24	2·95
		Nov.	29·863	1·008	51·2	22·0	29·2	44·3	33·3	11·0	39·0	32·7	·186	2·2	0·6	79	555	53·6	—	1·1	9	8	4	9	—	8·4	27	0·75
		Dec.	29·873	1·229	53·0	23·0	30·0	44·2	34·2	10·0	40·2	34·7	·202	2·3	0·6	81	554	49·6	—	1·4	7	1	9	14	—	8·3	25	1·21
YORK (Yorkshire), J. F. FRYER, ESQ.	50	Oct.	29·816	1·478	62·0	31·0	31·0	52·9	41·9	11·0	47·1	44·6	·295	3·4	0·4	91	545	—	—	—	—	—	—	—	—	—	13	2·90
		Nov.	29·938	1·035	50·0	14·0	36·0	40·5	32·2	8·3	36·6	35·2	·190	2·2	0·3	88	559	—	—	—	—	—	—	—	—	—	11	1·05
		Dec.	29·939	1·216	52·0	21·0	31·0	40·0	30·1	9·9	36·4	33·8	·195	2·3	0·3	91	559	—	—	—	4	5	13	9	—	—	11	2·32
COCKERMOUTH (Cumberland), H. DODGSON, ESQ., M.D., F.R.A.S., F.M.S.	148	Oct.	29·691	1·423	66·1	28·4	37·7	57·3	43·2	14·1	49·4	45·7	·307	3·5	0·5	86	540	74·7	36·0	0·6	3	6	13	9	2·1	6·0	16	3·54
		Nov.	29·831	0·948	54·5	21·5	33·0	45·7	33·7	12·0	39·0	35·6	·209	2·4	0·4	88	544	56·5	26·0	0·4	7	13	4	6	2·5	5·1	11	2·55
		Dec.	29·818	1·335	51·8	17·8	34·0	44·1	35·7	8·4	39·8	37·1	·222	2·5	0·3	90	553	45·5	27·9	0·5	5	3	13	10	3·2	6·9	18	6·01
ALLENHEADS (Northumberland), MR. M. VARTY, Assistant to W. B. BEAUMONT, ESQ., M.P.	1360	Oct.	28·380	1·347	59·5	27·2	32·3	51·4	40·1	11·3	44·7	41·7	·264	3·0	0·3	89	539	82·4	36·9	1·9	2	3	17	9	—	6·3	22	4·29
		Nov.	28·494	0·922	46·3	18·3	28·0	39·7	30·5	9·2	34·5	31·8	·180	2·1	0·3	90	553	62·5	28·6	1·5	8	7	9	6	—	6·8	23	3·00
		Dec.	28·483	1·175	48·0	19·0	29·0	39·6	30·5	9·1	35·1	33·0	·189	2·2	0·2	93	534	60·4	29·2	2·0	9	2	7	13	—	7·6	26	3·99
SILLOTH RECTORY (Cumberland), REV. FRANCIS BEDFORD, M.A., F.R.A.S., F.M.S.	28	Oct.	29·820	1·445	65·1	28·0	37·1	56·1	41·8	14·3	48·8	44·6	·297	3·3	0·6	86	544	91·4	38·8	1·1	2	10	8	11	10·3	6·0	18	3·46
		Nov.	29·948	0·945	52·9	22·0	30·9	44·9	32·8	12·1	38·6	35·1	·205	2·4	0·4	88	557	67·8	29·2	0·9	8	12	4	6	9·8	5·3	12	2·34
		Dec.	29·938	1·333	50·3	21·8	28·5	44·4	35·0	9·4	39·6	35·9	·211	2·5	0·4	87	556	60·1	31·0	1·4	5	5	7	14	10·7	7·0	16	3·94
CARLISLE (Cumberland), I. CARTMELL, ESQ., F.M.S.	114	Oct.	29·718	1·422	64·9	25·5	39·4	57·4	40·6	16·8	48·1	44·2	·290	3·3	0·5	87	542	74·4	35·1	1·3	1	4	20	6	5·7	6·4	20	1·48
		Nov.	29·860	0·945	57·2	18·8	38·4	45·8	31·1	14·7	37·6	34·9	·200	2·3	0·2	89	556	57·7	25·6	1·1	6	9	7	8	5·4	6·2	17	0·68
		Dec.	29·836	1·315	53·7	18·8	34·9	45·2	32·9	12·3	38·9	36·9	·218	2·6	0·3	93	554	49·2	28·2	1·3	3	4	10	14	7·0	6·5	18	0·64
BYWELL (Northumberland), MR. JOHN DAWSON, Assistant to W. B. BEAUMONT, ESQ., M.P.	87	Oct.	29·735	1·402	64·0	30·0	34·0	57·9	43·3	14·6	49·1	42·9	·276	3·1	0·9	79	541	67·5	35·7	1·1	4	5	7	15	—	5·3	20	3·30
		Nov.	29·889	0·950	52·0	22·0	30·0	45·2	34·3	10·9	38·8	33·4	·192	2·2	0·6	82	556	50·2	26·1	1·1	5	11	4	10	—	5·7	20	3·28
		Dec.	29·854	1·181	53·0	27·0	26·0	45·0	35·0	10·0	40·3	31·9	·180	2·1	0·8	72	554	48·0	30·1	1·3	—	—	—	—	—	5·5	21	2·24
NORTH SHIELDS (Northumberland), ROBERT SPENCE, ESQ.	124	Oct.	29·795	1·462	61·2	31·2	30·0	54·0	42·9	11·1	47·5	42·5	·272	3·1	0·6	84	544	—	40·1	1·3	5	5	10	11	—	6·4	17	1·96
		Nov.	29·935	1·004	51·0	26·0	25·0	44·6	34·8	9·8	38·8	33·9	·196	2·3	0·5	84	557	—	33·3	1·7	10	6	4	10	—	6·7	20	1·84
		Dec.	29·945	1·189	53·0	25·0	28·0	44·4	34·0	10·4	39·0	35·3	·206	2·4	0·4	87	555	—	32·5	1·7	9	3	6	13	—	7·1	19	1·90
MILTOWN (Banbridge, Ireland), JOHN SMYTH, ESQ., JUN., M.A., M.I.C.E.I.	200	Oct.	29·586	1·356	60·0	27·5	32·5	55·1	42·9	12·2	48·6	44·9	·298	3·3	0·5	87	539	82·8	38·4	1·8	4	5	16	6	4·0	5·0	17	2·34
		Nov.	29·769	0·811	52·0	26·0	26·0	45·8	35·7	10·1	40·1	36·2	·214	2·5	0·4	87	552	65·4	30·4	1·4	8	8	6	8	4·9	4·0	16	1·60
		Dec.	29·774	1·173	54·0	18·0	36·0	44·4	33·2	11·2	39·1	36·4	·215	2·5	0·3	89	553	55·6	27·1	1·6	5	5	15	6	4·1	5·7	18	1·63
CULLODEN (Inverness, Scotland), A. FORBES, ESQ., F.M.S.	104	Oct.	29·663	1·288	58·0	35·9	22·1	51·4	44·3	7·1	47·7	43·5	·283	3·2	0·5	87	541	81·5	34·6	0·4	1	5	14	11	8·3	5·5	16	1·01
		Nov.	29·872	0·987	53·2	31·0	22·2	41·3	36·4	4·9	38·8	35·8	·211	2·5	0·2	90	555	57·4	18·7	0·4	5	5	11	9	8·5	6·5	16	2·35
		Dec.	29·727	1·498	53·0	29·0	24·0	41·2	36·5	4·7	38·7	35·3	·207	2·4	0·3	88	553	47·8	27·3	0·5	2	0	16	13	8·8	5·4	15	0·88

Second Rain-gauges are placed—

		October.	November.	December.	Total during the Quarter,
At Eastbourne, at the height of 4 feet *above the ground*, the amount collected was		1·83 inches.	0·60 inches.	1·91 inches.	4·34 inches.
„ Portsmouth,	20 feet	1·78 „	1·17 „	1·56 „	4·51 „
„ Strathfield Turgiss,	30 feet	1·07 „	2·38 „	0·83 „	4·28 „
„ Radcliffe Observatory,	22 feet	1·10 „	0·58 „	0·89 „	2·57 „
„ Eccles, Manchester,	34 feet	4·07 „	1·15 „	1·93 „	7·15 „
„ Allenheads,	6¾ feet	4·67 „	3·33 „	3·99 „	11·99 „
„ Carlisle,	3 feet	1·48 „	0·68 „	0·64 „	2·80 „
„ Miltown, Ireland,	40 feet	2·01 „	1·31 „	1·63 „	4·95 „
„ Brighton,	35 feet	1·20 „	0·45 „	1·26 „	2·91 „
„ Marlborough College,	8 inches	1·82 „	0·67 „	2·47 „	4·96 „
„ „	1 foot	1·82 „	0·65 „	2·39 „	4·86 „
„ Cardington	36 feet	0·64 „	0·70 „	0·60 „	1·94 „
„ Boston,	6 feet	1·18 „	— —	— —	1·18 „
„ Nottingham,	25 feet	1·86 „	1·02 „	1·19 „	4·07 „
„ Wisbech,	8 feet	1·28 „	1·29 „	1·22 „	3·79 „
„ Aldershot,	25 feet	1·51 „	0·37 „	1·44 „	3·32 „
„ Cockermouth,	6½ feet	3·54 „	2·55 „	6·01 „	11·210 „
„ Holkham,	4 feet	1·66 „	1·61 „	— —	3·27 „

NOTE.—*The Barometer Reading*, October 8th, 4h. P.M., GLOUCESTER, 29·474 inches has been altered to 29·974 inches.
„ „ „ 27th, 9h. P.M., HULL, 29·000 „ „ 30·000 „
„ „ Nov. 24th, 3h. P.M., SIDMOUTH, 30·886 „ „ 29·886 „
„ „ „ 14th, 9h. A.M., LLANDUDNO, 29·360 „ „ 29·860 „

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey - - -	29·644	63·4	25·5	37·9	51·1	43·0	23·5	8·1	46·9	41·6	·265	3·0	0·7	81	545	—	—	1·4	7	8	8	7	3·7	5·5	45	9·75
Helston - - -	29·773	66·0	26·0	40·0	56·0	41·5	29·3	14·5	48·2	42·3	·275	3·1	0·8	79	546	63·9	38·0	2·0	9	7	7	8	4·4	6·2	51	11·95
Truro - - -	29·764	63·0	21·0	42·0	52·5	42·0	31·3	10·5	46·5	40·5	·260	2·9	0·7	80	549	—	—	2·2	10	6	7	7	—	6·6	48	10·35
Eastbourne - -	29·765	64·1	20·0	44·1	49·7	38·4	31·3	11·3	44·4	40·9	·265	3·0	0·5	88	552	62·3	30·8	0·4	9	6	7	8	2·8	—	35	4·25
Osborne - - -	29·772	67·1	20·8	46·3	49·6	37·5	30·4	12·1	43·3	40·3	·257	3·0	0·4	90	550	57·8	35·4	0·3	8	6	8	9	—	6·2	35	4·05
Bournemouth - -	29·788	61·5	23·6	37·9	48·7	39·0	26·0	9·7	43·6	39·1	·244	2·8	0·6	85	552	—	—	—	10	5	6	6	—	4·5	37	5·70
Portsmouth - -	29·806	68·8	21·2	47·6	50·3	36·2	30·8	14·1	43·5	37·8	·232	2·7	0·7	81	553	61·4	33·0	1·4	7	6	8	10	1·4	6·2	35	4·15
Worthing - - -	29·757	64·5	22·3	42·2	49·7	39·1	27·3	10·6	44·0	38·7	·242	2·8	0·6	82	551	86·5	34·1	0·9	9	5	7	9	3·1	5·7	33	3·70
Brighton - - -	29·774	64·2	21·9	42·3	47·5	38·6	25·4	8·9	42·8	38·7	·241	2·8	0·4	87	549	77·7	33·9	1·2	10	6	7	8	0·9	6·4	35	3·15
Taunton - - -	29·751	65·5	17·9	47·6	50·1	36·2	34·5	13·9	43·2	40·6	·257	3·0	0·3	91	552	57·3	33·0	0·8	9	7	5	9	3·7	5·9	32	5·70
Milton House - -	29·802	67·5	17·5	50·0	49·7	33·7	35·5	16·0	41·4	38·5	·238	2·8	0·4	90	553	73·3	31·9	1·1	10	6	8	6	4·0	6·1	41	6·70
Barnstaple - - -	29·739	64·4	22·5	41·9	50·7	39·8	28·9	10·9	45·5	41·2	·263	3·0	0·6	86	549	—	—	0·5	5	7	10	8	—	3·6	58	10·05
Aldershot Camp -	29·764	66·0	18·4	47·6	48·3	35·3	32·1	13·0	41·8	38·4	·238	2·7	0·5	87	550	69·8	32·4	1·2	7	5	8	10	1·8	7·6	45	3·75
Strathfield Turgiss -	29·803	70·2	13·8	56·4	48·7	33·8	39·0	14·9	41·5	37·6	·231	2·7	0·4	86	551	76·5	28·8	0·6	6	8	7	10	3·3	6·3	33	3·15
Weybridge Heath -	29·863	68·0	16·5	51·5	48·0	35·4	36·5	12·6	40·9	37·0	·223	2·6	0·4	86	554	65·1	31·7	0·5	—	—	—	—	0·9	5·9	30	2·75
Bath - - -	29·762	66·0	20·8	45·2	49·3	38·3	31·7	11·0	42·9	39·9	·251	2·9	0·4	90	552	—	—	—	7	6	8	10	3·3	7·6	42	4·75
Marlborough College	29·809	65·1	16·3	48·8	47·8	34·4	36·6	13·3	41·0	38·3	·237	2·7	0·4	91	547	63·8	29·5	—	6	8	9	11	2·4	6·5	42	4·95
Chislehurst - -	29·795	69·5	15·0	54·5	48·0	35·2	34·7	12·8	42·0	37·4	·227	2·7	0·6	84	555	74·4	30·4	—	—	—	—	—	—	—	46	3·10
Royal Observatory -	29·785	68·4	18·6	49·8	48·0	36·3	32·7	11·7	41·8	37·8	·232	2·7	0·5	86	552	64·0	30·2	0·3	5	6	9	10	—	6·2	39	3·75
Streatley Vicarage -	29·848	69·0	17·3	51·7	49·5	35·2	35·2	14·3	42·1	37·9	·234	2·7	0·4	86	552	57·7	31·3	1·2	9	6	7	9	—	6·0	34	2·95
Marylebone - -	—	70·0	20·0	50·0	48·6	35·4	33·3	13·2	41·6	38·2	·234	2·7	0·4	88	555	—	—	—	7	8	6	9	—	—	39	3·25
Camden Town - -	29·792	67·0	20·1	46·9	48·3	36·1	32·1	12·2	41·9	38·1	·233	2·7	0·5	87	552	59·7	32·9	—	9	6	6	10	—	6·3	35	2·75
Oxford - - -	29·791	64·6	8·0	56·6	47·7	36·0	36·3	11·7	42·0	37·6	·231	2·6	0·5	85	550	80·3	32·6	—	6	4	11	9	1·4	7·0	33	2·75
Gloucester - - -	29·827	66·8	18·7	48·1	49·4	36·6	33·9	12·8	43·0	38·3	·239	2·7	0·6	83	552	66·0	36·5	0·5	7	5	8	11	1·2	5·5	35	4·35
Royston - - -	29·807	68·7	19·7	49·0	48·4	35·1	33·1	12·9	41·4	37·5	·229	2·6	0·5	86	550	—	—	—	—	—	—	—	—	5·9	44	2·95
Cardington - -	29·795	65·4	18·0	47·4	47·8	34·3	34·9	13·5	41·2	37·0	·224	2·6	0·5	86	553	53·2	28·0	0·7	6	5	8	12	—	5·9	33	2·35
Leamington - -	29·762	64·5	20·7	43·8	47·9	36·0	30·0	11·9	41·4	37·8	·261	2·6	0·4	87	551	—	—	0·5	—	—	—	—	—	6·8	33	2·75
Somerleyton Rectory	29·773	64·6	9·7	54·9	49·1	35·4	34·8	13·7	42·0	39·9	·252	2·9	0·2	92	553	77·1	26·9	0·8	6	6	9	10	7·4	5·3	43	3·70
Norwich - - -	29·782	63·0	9·0	54·0	46·8	34·8	33·2	12·0	40·9	38·0	·233	2·7	0·3	89	554	—	—	—	5	5	10	10	—	—	41	5·70
Wisbech - - -	29·742	63·2	12·5	53·7	47·7	35·3	33·8	12·4	41·3	38·7	·240	2·7	0·3	91	555	73·9	31·2	0·4	6	7	10	8	1·7	5·9	36	4·30
Llandudno - - -	29·719	65·4	25·6	39·8	50·9	41·1	27·0	9·8	46·0	40·3	·254	2·8	0·6	81	547	—	—	0·8	5	6	4	16	—	6·6	49	11·75
Derby - - -	29·732	64·0	17·0	47·0	47·7	35·8	32·7	11·9	42·3	37·6	·234	2·7	0·5	84	550	—	—	—	6	5	9	11	—	—	46	4·75
Nottingham - -	29·739	67·4	16·6	50·8	48·1	35·1	34·5	13·0	41·3	39·3	·245	2·8	0·2	94	550	66·0	27·7	0·3	5	6	10	9	1·0	5·9	52	4·75
Hawarden - -	29·728	63·5	24·0	39·5	50·9	39·6	25·8	11·3	43·7	40·2	·253	2·7	0·5	89	548	60·0	19·9	1·9	6	2	12	10	0·7	6·1	66	7·95
Liverpool - - -	29·755	62·1	22·9	39·2	48·6	38·9	25·2	9·7	43·6	39·6	·238	2·7	0·6	85	547	—	—	0·8	6	7	8	9	—	6·2	49	8·75
Eccles - - -	29·749	66·5	17·4	49·4	48·4	35·0	32·9	13·4	41·9	37·3	·226	2·6	0·6	84	552	52·3	27·9	0·4	6	7	10	7	1·5	6·6	51	8·70
Park Road, Halifax -	29·774	63·9	16·0	47·9	45·8	35·7	32·1	10·1	40·6	37·3	·227	2·6	0·4	89	543	63·7	30·6	0·3	—	—	—	—	—	6·5	52	7·95
Hull - - -	29·740	63·0	18·0	45·0	46·6	35·3	32·3	11·3	41·2	37·0	·225	2·6	0·3	86	554	61·4	33·8	—	—	—	—	—	1·9	—	51	5·70
Stonyhurst - -	29·751	65·2	19·5	45·7	47·6	37·4	31·3	10·2	42·0	36·3	·215	2·5	0·7	81	546	79·1	32·6	—	5	6	7	13	—	6·8	78	12·75
Cockermouth - -	29·696	66·1	17·8	48·3	49·0	37·5	34·9	11·5	42·7	39·5	·246	2·8	0·4	88	546	58·9	30·0	0·5	5	7	10	8	2·6	6·0	45	12·15
Allenheads - -	29·752	59·5	18·3	41·2	43·6	33·7	29·8	9·9	38·1	35·5	·211	2·4	0·3	91	542	68·4	31·6	1·8	6	4	11	9	—	6·9	71	11·75
Silloth - - -	29·702	65·1	21·8	43·3	48·5	36·5	32·2	12·0	42·3	38·5	·238	2·7	0·5	87	552	73·1	33·0	1·1	5	9	6	10	10·3	6·1	46	9·75
Carlisle - - -	29·694	64·9	18·8	46·1	49·5	34·9	37·6	14·6	41·5	38·7	·236	2·7	0·3	90	551	60·4	29·6	1·2	3	6	12	9	6·0	6·4	55	2·95
North Shields - -	29·803	61·2	25·0	36·2	47·7	37·2	27·7	10·5	41·8	37·2	·225	2·6	0·5	85	552	—	35·3	1·6	8	5	7	11	—	6·7	56	3·70
Miltown (Ireland) -	29·687	60·0	18·0	42·0	48·4	37·3	31·5	11·1	42·6	39·2	·242	2·8	0·4	88	548	67·9	32·0	1·6	6	6	12	7	4·3	4·9	51	5·70

The highest temperatures of the air were at Strathfield Turgiss, 70°·2; London, 70°·0; Chislehurst, 69°·5; Streatley, 69°·0; and at Portsmouth, 68°·8.

The lowest temperatures of the air were at Holkham, 7°·6; Oxford, 8°·0; Norwich, 9°·0; Somerleyton, 9°·7; Wisbech, 12°·5; Strathfield Turgiss, 13°·8; and at Chislehurst, 15°·0.

The greatest daily ranges of the temperature of the air were at Wilton House, 16°·0; Carlisle, 14°·6; Strathfield Turgiss, 14°·9; Helston, 14°·5; Streatley Vicarage, 14°·3; Portsmouth, 14°·1; Taunton, 13°·9; Somerleyton Rectory, 13°·7; and at Cardington, 13°·5.

The least daily ranges of the temperature of the air were at Guernsey, 8°·1; Brighton, 8°·9; Bournemouth and Liverpool, 9°·7; Llandudno, 9°·8; and at Allenheads, 9°·9.

The greatest numbers of rainy days were at Stonyhurst, 78; Allenheads, 71; Hawarden, 66; Barnstaple, 58; North Shields, 56; Carlisle, 55; Park Road, Halifax, 52; and at Helston, Eccles, Hull, and Miltown, 51.

The least numbers of rainy days were at Weybridge Heath, 30; Taunton, 32; and at Worthing, Strathfield Turgiss, Oxford, Cardington, and Leamington, 33.

The heaviest falls of rain were at Stonyhurst, 12·55 inches; Cockermouth, 12·10 inches; Helston, 11·95 inches; Llandudno, 11·70 inches; Allenheads, 11·28 inches; Barnstaple, 10·45 inches; and at Truro, 10·33 inches.

The least falls of rain were at Royston, 2·27 inches; Cardington, 2·34 inches; Weybridge Heath, 2·70 inches; Oxford, 2·78 inches; Carlisle, 2·80 inches; Leamington, 2·82 inches; Streatley, 2·94 inches; and at Camden Town, 2·95 inches.

QUARTERLY METEOROLOGICAL TABLE for different PARALLELS of LATITUDE.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey - - - -	29·644	63·4	25·5	37·9	51·1	43·0	23·5	8·1	46·9	41·6	·265	3·0	0·7	81	545	—	—	1·4	7	8	8	7	3·7	5·5	45	9·75
Between the latitudes 50° and 51° -	29·775	64·7	21·5	43·2	49·7	38·7	28·9	11·0	44·0	39·4	·249	2·9	0·6	85	551	69·1	33·4	1·1	9	6	7	8	2·1	5·9	37	4·75
Between the latitudes 51° and 52° -	29·795	67·2	17·4	49·8	48·8	35·8	34·2	13·0	42·2	38·5	·238	2·7	0·5	87	552	67·3	31·8	0·7	7	6	8	9	2·4	6·2	39	4·75
Between the latitudes 52° and 53° -	29·762	65·5	16·5	49·0	48·3	35·9	32·7	12·4	42·0	38·5	·241	2·9	0·4	88	551	67·6	28·5	0·6	5	6	9	11	3·4	6·0	42	6·75
Between the latitudes 53° and 54° -	29·750	64·0	19·6	44·4	48·0	37·0	29·9	11·0	42·2	37·9	·231	2·6	0·5	86	548	63·3	29·0	0·9	6	6	9	10	1·4	6·4	58	7·75
Between the latitudes 54° and 55° -	29·729	63·4	20·5	43·1	47·7	35·9	32·4	11·8	41·3	37·9	·231	2·6	0·4	90	547	65·2	31·9	1·2	5	6	9	9	6·3	6·4	54	5·75
Miltown, Banbridge (Ireland)	29·687	60·0	18·0	42·0	48·4	37·3	31·5	11·1	42·6	39·2	·242	2·8	0·4	88	548	67·9	32·0	1·6	6	6	12	7	4·3	4·9	51	5·70
Mean for the Quarter 50° to 55° — Year 1868	29·502	64·5	25·9	38·6	51·8	39·9	31·7	11·9	45·7	41·3	·262	3·0	0·5	86	543	67·0	33·8	1·5	6	5	8	11	3·5	6·3	57	12·00
Mean for the Quarter 50° to 55° — " 1869	29·665	72·8	16·7	56·3	49·6	37·8	38·0	11·8	43·4	39·2	·243	2·8	0·5	86	547	66·2	32·7	1·3	8	4	6	13	—	6·3	53	9·75
Mean for the Quarter 50° to 55° — " 1870	29·571	67·8	11·1	56·7	47·7	35·4	36·4	12·3	41·3	37·4	·227	2·7	0·5	86	547	62·6	24·6	0·9	7	7	6	11	—	6·4	50	11·75
Mean for the Quarter 50° to 55° — " 1871	29·762	65·0	19·1	45·9	48·5	36·7	31·6	11·8	42·3	38·4	·238	2·7	0·5	87	550	68·1	31·2	0·9	6	6	8	10	3·1	6·2	46	8·00

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING MARCH 31, 1872.

REMARKS ON THE WEATHER DURING THE QUARTER ENDING MARCH 31ST, 1872.

By JAMES GLAISHER, ESQ., F.R.S., *&c., Secretary of The Meteorological Society.*

The warm weather which set in on December 13th, 1871, following that period of unprecedented cold which ended on the preceding day, continued with very few and very slight exceptions till the 18th day of March. The mean temperatures of the 97 days ending on this day were more than 5° in excess above their averages; the direction of the wind during this time was mostly from the S.W.; this was followed by eight days of severe cold weather, their average daily deficiency was $7\frac{1}{4}$°, the direction of the wind was mostly from the North, and snow fell over the country, even to the South Coast, and over the counties of Devonshire and Cornwall. This cold period was very severely felt, owing to its suddenness and great contrast to the long continued high temperature of the preceding 97 days. The mean temperature of the 17th day of March was $9\frac{1}{4}$° in excess above its average, whilst that of the 21st was as much as 12° in defect below its average, and therefore the latter day was $21\frac{1}{4}$° of lower mean temperature than the former. The remaining five days of the quarter were warm. I do not know any instance of so remarkable a cold period as that ending December 12th, 1871, being followed by as remarkable a warm one as that ending March 18th, 1872.

The mean temperature of January was 41°·3; since the year 1771 there have been nine Januaries of somewhat higher temperature, viz.,—

The year 1796 was 45°·3.	The year 1846 was 43°·7.	The year 1853 was 42°·4.
" 1804 " 43°·2.	" 1851 " 42°·9.	" 1863 " 41°·8.
" 1834 " 44°·4.	" 1852 " 42°·0.	" 1866 " 42°·6.

The mean temperature of February was 44°·8; the instances back to 1771, in which the mean temperature of February has exceeded 44°, are as follows:—

The year 1779 was 45°·3.	The year 1809 was 44°·1.	The year 1867 was 44°·7.
" 1792 " 44°·7.	" 1850 " 44°·7.	" 1869 " 45°·3.

So that in two instances only, viz., in the years 1779 and 1869, has the month of February been warmer than in this year.

The mean temperature of March was 44°·6; since the year 1771 the value has been exceeded nine times, viz., in the following years:—

The year 1779 was 47°·0.	The year 1822 was 47°·3.	The year 1842 was 44°·9.
" 1780 " 49°·2.	" 1830 " 45°·8.	" 1859 " 46°·4.
" 1815 " 45°·0.	" 1841 " 46°·2.	" 1871 " 44°·9.

The mean temperature of January and February was 43°·05; the mean of these two months in

The year 1796 was 42°·45.	The year 1849 was 41°·65.	The year 1863 was 41°·95.
" 1834 " 42°·30.	" 1851 " 41°·50.	" 1866 " 41°·55.
" 1846 " 43°·80.	" 1859 " 41°·75.	" 1869 " 43°·20.

So that the mean temperature of January and February 1872 has been but twice exceeded in the previous 100 years, viz., in 1846 and 1869.

The mean of the three months ending March 1872 is 43°·6, the corresponding mean for the same period in—

The year 1779 was 42°·4.	The year 1834 was 42°·9.	The year 1851 was 41°·9.
" 1819 " 41°·4.	" 1846 " 43°·6.	" 1859 " 43°·3.
" 1822 " 43°·5.	" 1849 " 41·9.	" 1863 " 42°·6.

So that back for 100 years the warmth of the past three months has been but once equalled, viz., in the year 1846, and has never been exceeded; in two instances there have been closely approximate values, viz., in the years 1822 and 1859.

The average temperature of the first three months in the year, as found from the previous 100 years, is 38°·6, and as found from the preceding 31 years is 39°·6; the excess of temperature for the quarter over the longer average is therefore 5°, and over that of 31 years is 4°.

The lengthened period of 97 days of warm weather has, however, been exceeded in a few instances. In the year 1821 a warm period set in at the end of October, and continued till the end of April 1822.

In 1833 a warm period began on October 21st, and continued to March 16th, 1834.

In 1858 a warm period set in on December 18th, and extended to April 11th, 1859.

In 1862 a warm period commenced at the beginning of December, and continued to the end of the March following.

The mean temperature of the *five* months ending March 1822 was 44°·6; that ending March 1834 was 43°·5, whilst that ending March 1872, owing to the severity of the cold in November and December, was 41°·3 only.

The mean temperature of the four months ending March was—

43°·8 in the year 1822.		42°·8 in the year 1863.
43°·3 " 1834.		42°·2 " 1872.
42°·7 " 1859.		

Therefore, remarkable as the quarter has been for its long continued high temperature, there are four instances of a more lengthened period, two of which, viz., in 1821–1822 and 1833–1834, were of nearly five months continuance at this season of the year.

The remarkable fact of this winter is the long continuance of high temperature, following immediately so remarkable a long continuance of weather of low temperature.

The high temperature of the quarter was general; taking the whole country, its mean temperature was 43°·3, exceeding that in 1869 by 1°·4, that in 1870 by $4\frac{3}{4}$°, and that in 1871 by $3\frac{1}{4}$°.

The fall of rain in February was only one half of its average, but in January and March it was in excess in both months. The average fall over the country in this quarter exceeded that in the corresponding quarter in 1869 by $2\frac{1}{4}$ inches, in 1870 by 4 inches, and in 1871 by $4\frac{1}{2}$ inches. The monthly pressures of the atmosphere were in defect in each month of the quarter.

On the 1st January the reading of the barometer at the height of 159 feet above sea level was 29·9 in. A decrease set in on this day and lasted till 9h. a.m. on the 5th, the value at that time being 28·87 in.; the mean reading for the 5th was eight-tenths of an inch below the average for that day. From the 6th to the 13th the movements were numerous, rise and fall following each other in rapid succession, but on the 14th an increase to 29·9 in. occurred, followed by a steady decrease to 28·9 in. on the 18th. From this day till the end of the month the mean daily values were with one exception below the average, on occasions the departures were large, notably so on the 23d and 24th, when the amounts were 1 in. and 1·1 in. respectively. The minimum value on the 24th, 28·21 in., is lower than any since 1843, Jan. 13, when it was 28·096 in., and on 1821, Dec. 24, the minimum reading as recorded at the Royal Observatory, Greenwich, was 27·89 in. Some other instances of low readings are:—1783, March 6, 28·22 in.; 1809, Dec. 17, 28·20 in., and 1824, Nov. 23, 28·37 in. Two series of meteorological observations are preserved in the Manuscript Room of the Royal Observatory, the one taken at Sion House in Middlesex, the other at Gordon Castle, near Edinburgh. The instances in those journals in which the reading of the barometer has been below 28·3 in., are the following:—

At Sion House,	1791, Jan. 20, 28·10 in.	At Gordon Castle,	1782, Jan. 3, 28·27 in.
		„	1789, Jan. 18, 28·08 „
„	1809, Dec. 18, 28·30 „	„	1791, Jan. 4, 28·22 „
		„	1791, Jan. 17, 28·24 „
„	1821, Dec. 25, 28·20 „	„	1796, Jan. 22, 28·23 „
		„	1798, Nov. 27, 28·23 „
		„	1805, Dec. 21, 28·23 „

The absolute range of readings in January 1872 was 1·8 in.

During February the changes of reading were small throughout, the absolute range in the month being but seven-tenths of an inch; the mean daily values were generally in defect of the average, the greatest departure being 0·46 in.

The principal movements during March were:—An increase to 30·4 in. on the 3d, a decrease to 29·2 in. on the 7th, an increase to 30·2 in. on the 10th, and a gradual decrease, though interrupted frequently by small oscillations, to 29·1 in. on the 30th. The range of reading during March amounted to one inch.

The mean temperature of January was 41°·3, being 5° higher than the average of 101 years, higher than the corresponding values in the years 1867–1871, but lower than in 1866 when 42°·6 was recorded.

The mean temperature of February was 44°·8, being 6°·3 higher than the average of 101 years, higher than in the corresponding months of 1871 and 1870, but lower than in 1869, the value in that year being 45°·3. There is no other instance in the period 1771–1871 when this value has been exceeded, but in the years 1867, 1850, and 1794, when 44°·7 was registered in each of those years.

The mean temperature of March was 44°·6, being 3°·7 higher than the average of 101 years. In 1871 the corresponding temperature was 44°·9, but no other instance of higher mean temperatures in March is recorded till as far back as 1859.

The mean high day temperatures of January, February, and March were higher than their respective averages by 3°·3, 6°·2, and 3°·9.

The mean low night temperatures of January, February, and March were higher than their averages by 3°·6, 5°·1, and 2°·6 respectively.

Therefore the days and nights in each of the three months were remarkably warm.

1872. Months.	Temperature of Air. Mean.	Air. Diff. from average of 101 years.	Air. Diff. from average of 31 years.	Evaporation. Mean.	Evaporation. Diff. from average of 31 years.	Dew Point. Mean.	Dew Point. Diff. from average of 31 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 31 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 31 years.	Weight of vapour in a Cubic Foot of Air. Mean.	Weight of vapour in a Cubic Foot of Air. Diff. from average of 31 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	grs.
Jan. -	41·3	+5·0	+3·3	39·9	+2·2	38·1	+3·4	9·3	−0·3	40·1	0·230	+0·029	2·7	+0·4
Feb. -	44·8	+6·3	+5·5	42·9	+5·3	40·7	+5·7	12·5	+1·1	44·2	0·254	+0·048	2·9	+0·5
Mar. -	44·6	+3·7	+3·1	42·4	+3·2	39·8	+3·6	15·8	+1·2	46·5	0·245	+0·030	2·8	+0·3
Mean -	43·6	+5·0	+4·0	41·7	+3·6	39·5	+4·2	12·5	+0·7	43·6	0·243	+0·036	2·8	+0·4

1872. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 31 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 31 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 31 years.	Rain. Amount.	Rain. Diff. from average of 57 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
Jan. -	89	+ 1	29·463	−0·286	545	− 9	3·6	+1·7	325	11	19	1	20·1	40·2
Feb. -	86	+ 1	29·645	−0·152	544	− 9	0·8	−0·8	392	6	21	2	24·2	42·4
Mar. -	84	+ 2	29·625	−0·125	544	− 6	2·1	+0·5	276	14	11	6	19·9	46·7
Mean -	86	+ 1	29·578	−0·188	544	− 8	Sum 6·5	Sum +1·4	Mean 301	Sum 31	Sum 51	Sum 9	Lowest 19·9	Highest 46·7

NOTE.—In reading this table it will be borne in mind that the minus sign (−) signifies below the average, and that the plus sign (+) signifies above the average.

The daily ranges of temperature were greater than their averages in February and March, but less in January.

The fall of rain was 1·7 in. and 0·5 in. respectively in excess of the average in January and March, but 0·8 in. in defect in February.

The mean temperature of the air in the three months ending February, constituting the three winter months, was 41°·5, being 3°·5 higher than the average of 101 years.

Thunderstorms occurred on the 2d of January at Guernsey; on the 3d at Eccles; on the 4th at Llandudno and Halifax; on the 5th at Guernsey, Osborne, Bournemouth, Portsmouth, Taunton, Lymington, and Oxford; on the 6th at Norwich and Llandudno; on the 8th at Helston and Llandudno; on the 22d at Guernsey; on the 23d at Osborne; and on the 24th at Salisbury. On the 23d of February at Wisbech. On the 1st of March at Holkham; on the 22d at Somerleyton Rectory; on the 24th at Eastbourne; and on the 30th at Stonyhurst and Hawarden.

Thunder was heard, but lightning was not seen, on the 3d of January at Stonyhurst; on the 24th at Truro; and on the 27th at Halifax. On the 23d of February at London and Holkham; and on the 28th at Holkham. On the 8th of March at Allenheads; and on the 21st at Aldershot.

Lightning was seen, but thunder was not heard, on the 2d of January at Oxford; on the 3d at Taunton; on the 4th at Helston and Strathfield Turgiss; on the 5th at Brighton, Strathfield Turgiss, and Cardington; on the 6th at Stonyhurst and Carlisle; and on the 8th at Liverpool. On the 14th of February at Portsmouth and Wilton House; on the 22d at Somerleyton; and on the 23d at Marylebone and Somerleyton. On the 28th of March at Halifax; and on the 30th at Strathfield Turgiss, Cardington, and Halifax.

Solar halos were seen on 13 days during the quarter.

Lunar halos were seen at different places on eight occasions in January, six in February, and eight in March.

Auroræ Boreales were seen on the 2d of February at Weybridge; on the 3d at Sidmouth and Brighton; on the 4th all over the country; on the 5th at Brighton; on the 6th at Brighton; on the 11th at Brighton; and on the 23d at Culloden. On the 19th of March at Halifax; and on the 20th at Norwich.

Snow fell in small quantities occasionally in January and February at northern and elevated stations, and from March 20th to the 26th all over the country.

Hail fell on 33 different days, during the quarter.

Fog was prevalent at one or other place on 19 days in January; on 20 in February; and on 15 in March.

Leaf Buds first appeared on the Field Elm on the 28th of February at Chislehurst; on the 3d of March at Strathfield Turgiss and Weybridge Heath; and on the 26th at Carlisle.

Leaf Buds first appeared on the Wych Elm on the 30th of January at Chislehurst.

Leaf Buds first appeared on the Oak on the 24th of March at Weybridge Heath.

Leaf Buds first appeared on the Lime on the 28th of January at Chislehurst. On the 10th of March at Weybridge Heath; on the 20th at Strathfield Turgiss; and on the 31st at Carlisle.

Leaf Buds first appeared on the Sycamore on the 4th of March at Brighton; on the 5th at Weybridge Heath; and on the 12th at Strathfield Turgiss.

Leaf Buds first appeared on the Horse Chestnut on the 28th of March at Carlisle.

Leaf Buds first appeared on the Common Poplar on the 25th of March at Carlisle.

Leaf Buds first appeared on the Hawthorn on the 30th of January at Chislehurst; on the 31st at Eastbourne. On the 12th of February at Weybridge Heath. On the 6th of March at Brighton; on the 15th at Carlisle.

Leaf Buds first appeared on the Hazel on the 1st of March at Strathfield Turgiss.

Leaf Buds first appeared on the Walnut on the 29th of March at Weybridge Heath.

Field Elm in leaf on the 7th of March at Oxford.

Lime in leaf on the 28th of March at Oxford.

Sycamore in leaf on the 19th of March at Helston.

Horse Chestnut in leaf on the 1st of March at Guernsey, on the 7th at Weybridge Heath; on the 13th at Strathfield Turgiss; on the 16th at Helston; on the 27th at Llandudno; on the 28th at Oxford and Culloden; on the 29th at Sidmouth; and on the 30th at Somerleyton Rectory.

Common Poplar in leaf on the 8th of March at Brighton.

Hawthorn in leaf on the 3d of March at Oxford; on the 10th at Guernsey; on the 17th at Brighton; on the 29th at Llandudno; and on the 31st at Osborne.

Hazel in leaf on the 29th of February at Eastbourne.

Rose Bushes in leaf on the 14th of February at Brighton.

Lilac in leaf on the 18th of March at Brighton.

Elder in leaf on the 11th of February at Brighton; and on the 13th at Strathfield Turgiss.

Lilac in blossom on the 12th of January at Strathfield Turgiss; on the 18th at Chislehurst.

Honeysuckle in blossom on the 18th of January at Chislehurst.

Yellow Broom in blossom on the 7th of March at Llandudno.

Primrose in blossom on the 30th of January at Eastbourne.

The Red Flowering Currant in blossom on the 8th of February at Brighton; and on the 26th at Culloden.

Hardy Pear in blossom on the 9th of March at Llandudno; on the 11th at Helston; on the 20th at Chislehurst; on the 24th at Carlisle; on the 26th at Weybridge; on the 28th at Oxford and Culloden; on the 29th at Eastbourne; on the 30th at London; on the 31st at Strathfield Turgiss.

Hardy Apple in blossom on the 20th of March at Helston; on the 30th at Oxford; on the 31st at Eastbourne.

Cherry in blossom on the 14th of March at Brighton; on the 22d at Oxford; and on the 31st at Carlisle.

Plum in blossom on the 7th of March at Strathfield Turgiss; on the 12th at Helston; on the 13th at Oxford; on the 24th at Weybridge Heath; on the 28th at Culloden; and on the 31st at Carlisle.

Rooks began to build on the 22d of March at Brighton.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING MARCH 31ST, 1872.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the fifth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1872. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean of all Highest.	Temperature of Air in Month. Mean of all Lowest.	Temperature of Air in Month. Mean Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S.	204	Jan.	29·442	1·820	53·0	37·5	15·5	48·4	41·5	6·9	44·9	40·6	·253	2·9	0·5	86	540	–	–	1·7	3	5	12	11	4·7	6·3	23	6·11
		Feb.	29·578	0·656	54·0	38·5	15·5	49·6	43·2	6·4	46·3	41·7	·265	3·1	0·5	84	541	–	–	1·3	2	7	12	8	3·4	6·2	18	2·97
		Mar.	29·583	1·048	57·5	31·5	26·0	51·0	42·8	8·2	46·2	43·7	·285	3·3	0·4	92	541	–	–	1·3	5	8	9	9	4·1	5·0	17	4·42
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	Jan.	29·568	1·449	58·0	30·0	28·0	52·6	42·3	10·3	47·7	41·3	·260	3·2	0·7	81	538	58·1	39·0	2·3	5	2	10	14	6·1	7·2	26	7·03
		Feb.	29·685	0·780	58·0	36·0	22·0	54·2	44·9	9·3	49·4	43·2	·279	3·4	0·8	79	540	64·5	39·6	2·3	4	5	13	7	5·2	7·0	27	6·25
		Mar.	29·742	1·189	64·0	30·0	34·0	55·8	44·3	11·5	49·3	42·0	·268	3·0	1·0	75	541	74·4	37·1	2·1	7	6	9	9	5·2	4·9	18	3·70
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	Jan.	29·574	1·439	54·0	25·0	29·0	50·5	40·2	10·3	45·1	41·0	·256	2·9	0·5	86	543	–	–	2·9	5	2	10	14	–	7·4	28	8·13
		Feb.	29·646	0·791	58·0	34·0	24·0	52·6	42·2	10·4	46·8	43·4	·282	3·2	0·4	88	542	–	–	2·6	3	6	11	9	–	7·6	26	6·98
		Mar.	29·685	1·157	58·0	26·0	32·0	53·0	42·0	11·0	46·4	40·9	·257	2·9	0·7	83	544	–	–	2·8	7	7	8	9	–	6·8	20	3·98
SIDMOUTH (Devon), J. Ingleby Mackenzie, Esq., M.B., F.M.S.	30	Jan.	29·586	1·692	53·3	30·0	23·3	48·0	37·7	10·3	43·2	39·9	·247	2·8	0·4	88	545	–	–	1·4	5	0	9	17	–	4·6	30	5·21
		Feb.	29·765	0·691	53·3	31·3	22·0	50·2	42·7	7·5	46·3	44·2	·290	3·3	0·3	93	544	–	–	1·1	2	5	10	12	–	4·6	20	3·42
		Mar.	29·758	1·099	57·1	26·3	30·8	50·2	40·4	9·8	44·9	42·9	·266	3·2	0·2	93	546	–	–	1·3	7	5	8	11	–	3·6	18	2·67
EASTBOURNE (Sussex), Miss W. L. Hall.	12	Jan.	29·662	1·429	51·4	28·4	23·0	46·8	37·5	9·3	42·8	39·5	·243	2·8	0·4	88	547	55·2	31·8	0·8	5	2	12	12	5·8	–	25	5·73
		Feb.	29·847	0·632	54·0	33·0	21·0	49·9	41·2	8·7	46·0	42·1	·269	3·2	0·4	87	546	73·8	36·4	0·5	1	5	15	8	6·5	–	21	2·57
		Mar.	29·817	1·024	66·1	26·8	39·3	54·5	39·3	15·2	46·2	42·8	·276	3·2	0·6	89	546	94·1	33·5	0·6	5	6	12	8	4·4	–	19	2·78
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	Jan.	29·456	1·448	53·7	26·6	27·1	47·5	36·0	11·5	41·6	39·4	·242	2·8	0·2	93	544	51·6	33·3	0·2	3	3	16	9	–	7·1	22	5·68
		Feb.	29·632	0·678	56·0	33·5	22·5	51·2	40·4	10·8	45·6	43·0	·280	3·2	0·4	93	543	67·0	37·9	0·1	3	4	16	6	–	8·1	17	2·28
		Mar.	29·628	1·044	59·7	22·3	37·4	52·7	38·7	14·0	44·8	42·0	·267	3·1	0·3	90	544	77·8	36·3	0·3	6	5	12	8	–	6·0	18	2·68
BOURNEMOUTH (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	128	Jan.	29·610	1·940	51·2	27·2	24·0	46·7	38·5	8·2	42·5	38·7	·238	2·8	0·5	87	548	–	–	–	6	3	8	14	–	5·1	23	6·87
		Feb.	29·780	0·670	53·2	35·2	18·0	49·4	42·4	7·0	45·7	43·8	·286	3·2	0·3	93	546	–	–	–	4	5	12	8	–	6·4	22	2·74
		Mar.	29·795	1·010	57·5	27·6	29·9	50·1	40·4	9·7	44·6	40·9	·257	2·9	0·4	86	547	–	–	–	9	5	10	7	–	4·5	16	3·06
PORTSMOUTH, William C. Ellis, Esq., F.M.S.	16	Jan.	29·657	1·455	59·4	27·4	32·0	48·6	35·1	13·5	42·3	38·4	·233	2·7	0·5	86	547	60·3	30·4	1·3	4	1	18	8	2·3	7·3	22	5·43
		Feb.	29·823	0·674	55·4	32·8	22·6	50·8	39·0	11·8	45·2	41·8	·264	3·0	0·5	88	547	67·0	35·2	1·3	2	7	15	5	1·9	7·9	15	1·66
WORTHING (Sussex), W. J. Harris, Esq. M.R.C.S.E., L.S.A.	31	Jan.	29·610	1·786	51·2	29·5	21·7	47·0	38·0	9·0	42·5	39·6	·244	2·8	0·3	90	546	76·9	33·8	1·2	4	2	13	12	6·4	7·0	23	5·05
		Feb.	29·780	0·678	54·8	34·4	20·4	49·9	42·3	7·6	45·4	43·0	·276	3·1	0·4	91	546	89·2	37·9	1·0	3	5	14	7	7·0	7·2	19	2·07
		Mar.	29·768	1·063	58·3	27·9	30·4	51·3	40·9	10·4	45·0	40·8	·254	3·0	0·4	87	546	105·1	35·8	1·0	7	5	11	8	5·8	5·4	16	2·19
BRIGHTON (Sussex), Frederick E. Sawyer, Esq., F.M.S.	200	Jan.	29·445	1·695	49·6	30·3	19·3	45·5	38·2	7·3	41·9	39·8	·246	2·9	0·2	94	544	70·5	31·8	1·4	4	3	14	10	1·0	7·3	23	5·19
		Feb.	29·620	0·750	51·9	35·0	16·9	48·8	41·4	7·4	44·7	43·2	·279	3·2	0·1	94	544	80·8	36·2	0·8	4	6	15	4	0·9	7·4	20	2·62
		Mar.	29·599	1·011	57·4	28·4	29·0	49·9	40·3	9·6	44·2	41·6	·263	3·0	0·3	91	544	94·1	35·9	0·9	6	6	11	8	0·9	6·3	17	2·16
LYMINGTON (Hants), George J. Jones, Esq.	77	Jan.	29·553	1·454	51·9	26·9	25·0	47·6	38·5	9·1	42·5	40·5	·252	2·9	0·2	93	545	–	–	0·8	3	4	12	12	–	6·2	22	5·83
		Feb.	29·722	0·632	53·7	33·1	20·6	50·5	41·8	8·7	45·6	42·5	·277	3·1	0·4	94	545	–	–	0·8	2	4	12	11	–	7·5	21	2·28
		Mar.	29·732	0·988	57·9	24·5	33·4	51·9	39·4	12·5	45·6	41·7	·265	3·0	0·5	88	545	–	–	0·2	7	6	10	8	–	5·8	14	2·52
TAUNTON (Somerset), Rev. W. Tuckwell, F.M.S.	80	Jan.	29·522	1·533	59·0	25·0	34·0	48·8	35·0	13·8	42·4	40·2	·250	2·9	0·3	92	545	53·3	33·9	0·3	4	3	6	18	5·5	5·9	21	4·86
		Feb.	29·674	0·679	56·8	30·8	26·0	51·9	38·3	13·6	45·2	43·0	·277	3·1	0·4	93	545	59·1	37·2	0·2	5	4	9	11	7·5	6·0	20	3·31
		Mar.	29·693	1·088	60·4	23·9	36·5	53·5	39·2	14·3	45·7	43·2	·280	3·1	0·4	89	544	61·8	36·8	0·3	4	2	11	14	5·5	6·6	15	2·05
WILTON HOUSE (near Salisbury), T. Chaplin, Esq.	186	Jan.	29·467	1·489	54·5	24·0	30·5	47·0	34·0	13·0	41·8	37·3	·225	2·6	0·5	86	543	65·7	32·5	1·5	5	3	17	6	4·3	6·7	25	7·42
		Feb.	29·584	0·750	56·7	28·2	28·5	51·1	37·6	13·5	44·7	43·2	·279	3·2	0·1	94	543	79·6	36·5	1·3	3	4	19	3	5·1	7·6	23	2·82
		Mar.	29·568	1·000	61·7	26·8	34·9	56·7	38·4	18·3	45·1	43·1	·279	3·2	0·2	93	545	97·0	34·8	1·4	7	5	16	3	4·4	5·8	14	2·05

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1872. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean of all Highest.	Temperature of Air in Month. Mean of all Lowest.	Temperature of Air in Month. Mean Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
BARNSTAPLE (Devon), T. Mackrell, Esq.	43	Jan.	29·528	1·456	54·0	30·0	24·0	48·8	39·4	9·4	44·4	42·0	·267	3·0	0·3	92	542	–	–	1·3	2	5	15	9	–	4·3	28	6·39
		Feb.	29·698	0·730	55·5	38·0	18·5	51·7	42·4	9·3	48·4	41·7	·264	3·0	0·8	78	542	–	–	1·1	1	3	16	9	–	4·7	24	4·64
		Mar.	29·720	1·180	61·0	29·0	32·0	53·3	42·0	11·3	47·0	41·7	·264	3·0	0·7	83	543	–	–	1·2	6	6	13	6	–	4·5	20	3·74
ALDERSHOT CAMP (Hants), John Arnold, M.S.C., F.M.S.	197	Jan.	29·301	1·560	54·4	28·8	25·6	46·1	34·8	11·3	40·2	37·1	·224	2·6	0·5	90	543	61·4	31·3	1·8	2	5	15	9	2·8	7·8	27	5·95
		Feb.	29·445	0·648	55·0	33·8	21·2	51·2	39·1	12·1	44·2	41·6	·363	3·0	0·3	91	541	76·2	35·6	1·4	3	6	13	7	2·4	8·1	20	2·25
		Mar.	29·440	0·974	60·6	24·8	35·8	53·2	37·7	15·5	44·3	39·7	·245	2·8	0·5	83	541	85·6	34·3	1·3	5	5	10	11	2·1	6·8	14	2·35
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	Jan.	29·422	1·474	53·7	21·8	31·9	45·7	34·0	11·7	40·2	36·8	·218	2·5	0·4	88	545	69·2	28·8	0·9	4	4	12	11	4·6	7·0	23	3·49
		Feb.	29·602	0·677	56·3	31·3	25·0	50·3	38·3	12·0	44·5	42·0	·264	3·0	0·3	90	544	83·0	33·4	0·9	3	6	13	7	5·0	7·5	19	1·67
		Mar.	29·594	1·040	61·2	21·8	39·4	53·4	37·3	16·1	45·5	37·7	·226	2·6	0·8	75	543	95·3	31·3	1·0	5	6	11	9	5·5	6·6	13	1·79
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	Jan.	29·492	1·401	53·5	27·5	26·0	46·0	36·2	9·8	40·9	38·4	·233	2·7	0·2	91	546	58·4	33·4	0·9	5	4	16	6	1·7	6·9	23	4·01
		Feb.	29·685	0·724	57·0	32·8	24·2	51·4	38·8	12·6	44·8	41·5	·262	3·0	0·4	88	545	76·4	36·1	0·9	3	7	17	2	2·1	7·1	20	1·12
		Mar.	29·674	1·011	63·0	23·0	40·0	53·7	37·2	16·5	44·2	40·7	·256	2·9	0·4	88	546	85·3	33·9	0·7	6	6	14	5	1·9	6·0	16	1·85
MARLBOROUGH COLLEGE (Wilts), Rev. Thomas A. Preston, M.A.	456	Jan.	29·138	1·481	57·3	25·2	32·1	46·5	34·1	12·4	40·0	39·7	·226	2·6	0·3	92	538	54·1	30·6	–	3	2	13	13	4·3	7·0	27	6·84
		Feb.	29·318	0·678	54·8	32·4	22·4	48·9	39·0	9·9	43·9	41·2	·259	3·0	0·3	91	539	75·3	35·7	–	2	3	13	11	3·9	8·1	23	2·65
		Mar.	29·319	1·040	58·9	22·5	36·4	50·8	37·2	13·6	43·2	39·7	·245	2·8	0·4	88	540	91·1	31·9	–	6	5	9	11	4·2	7·1	14	2·39
EAST TILBURY (Essex), Rev. R. Tyas, M.A., LL.D.		Jan.	29·616	1·539	56·5	25·7	30·8	48·3	35·0	13·3	41·7	39·3	·242	2·8	0·3	92	547	64·4	–	1·3	–	–	–	–	5·8	6·4	20	2·87
CHISLEHURST (Heathfield Lodge, Kent), Francis Nunes, Esq., M.A., F.M.S.	295	Jan.	29·283	1·501	53·3	26·5	28·8	48·7	34·9	13·8	40·9	32·8	·186	2·2	0·8	73	543	68·0	30·6	–	4	2	16	9	–	–	25	4·51
		Feb.	29·474	0·704	57·5	29·8	27·7	51·4	38·2	13·2	44·5	40·3	·251	2·8	0·6	86	542	88·9	33·5	–	2	5	16	6	–	–	21	0·93
		Mar.	29·459	1·006	61·2	22·2	39·0	53·6	36·8	16·8	44·4	39·0	·238	2·7	0·6	81	542	99·5	30·7	–	6	5	11	9	–	–	17	2·30
ROYAL OBSERVATORY (Kent), The Astronomer Royal.	159	Jan.	29·463	1·531	52·7	28·3	24·4	46·3	37·0	9·3	41·3	38·1	·230	2·7	0·4	89	545	61·0	31·3	0·8	3	3	14	11	–	6·9	20	3·63
		Feb.	29·645	0·710	57·9	32·4	25·5	51·7	39·2	12·5	44·8	40·7	·254	2·9	0·5	86	544	79·8	33·2	0·3	1	4	6	17	–	7·2	14	0·77
		Mar.	29·625	1·051	60·8	26·1	34·7	53·5	37·7	15·8	44·6	39·8	·245	2·8	0·5	84	544	89·9	32·5	0·4	6	4	11	10	–	6·5	16	2·13
THE GUILDHALL (London), William Haywood, Esq.		Jan.	29·475	1·522	53·0	36·0	17·0	47·3	40·3	7·0	43·7	39·1	·240	2·7	0·5	84	543	–	–	–	–	–	–	–	–	–	–	–	3·26
		Feb.	29·642	0·630	55·0	38·5	16·5	51·3	42·6	8·7	47·0	41·7	·264	3·1	0·6	83	542	–	–	–	–	–	–	–	–	–	–	–	0·85
		Mar.	29·563	1·000	60·0	31·3	28·7	51·4	41·8	9·6	46·1	39·7	·245	2·8	0·8	79	541	–	–	–	–	–	–	–	–	–	–	–	2·16
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.A.S.	150	Jan.	29·476	1·384	53·6	26·7	26·9	46·4	36·0	10·4	41·8	37·7	·227	2·6	0·5	86	544	52·2	32·2	1·6	2	5	13	11	–	8·1	23	5·47
		Feb.	29·681	0·732	57·6	30·8	26·8	52·1	39·3	12·8	45·2	42·0	·266	3·2	0·3	90	545	58·4	33·8	1·4	2	4	14	9	–	7·7	20	1·77
		Mar.	29·664	1·056	61·7	25·8	35·9	53·2	37·9	15·3	45·4	41·0	·256	3·0	0·5	86	544	61·9	31·9	1·3	7	6	11	7	–	6·7	15	2·14
ST. JOHN'S COLLEGE, BATTERSEA, Rev. J. P. Faunthorpe, B.A., F.R.G.S.	13	Jan.	29·395	1·536	54·5	25·0	29·5	47·7	34·5	13·2	41·3	37·9	·229	2·6	0·4	89	547	51·1	27·8	1·4	1	1	17	12	–	8·6	22	3·42
		Feb.	29·766	1·146	59·0	29·5	29·5	50·9	37·2	13·7	44·5	40·1	·250	2·9	0·6	81	547	62·0	31·9	1·5	0	2	23	4	–	7·7	20	1·17
		Mar.	29·762	1·044	68·0	24·0	44·0	54·4	36·2	18·2	44·4	42·3	·247	2·8	0·5	84	547	64·2	32·5	1·7	0	2	19	10	–	6·3	14	1·93
MARYLEBONE (London), Henry E. Segrave, Esq., F.M.S.	146	Jan.		1·522	55·5	27·0	28·5	46·3	35·3	11·0	41·9	38·3	·233	2·7	0·4	88	–	–	–	–	4	4	11	12	–	8·5	21	3·46
		Feb.		0·637	58·0	30·0	28·0	52·1	38·5	13·6	46·0	41·3	·261	3·0	0·8	85	–	–	–	–	3	5	12	9	–	7·3	19	1·18
		Mar.		1·036	63·0	24·5	38·5	53·7	35·5	18·2	44·1	43·2	·280	3·2	0·1	97	–	–	–	3·9	6	5	10	10	–	7·8	17	2·74
CAMDEN TOWN (London), G. J. Symons, Esq., F.M.S.	123	Jan.	29·502	1·551	52·8	27·4	25·4	46·1	36·3	9·8	41·6	38·5	·233	2·7	0·4	89	545	51·4	32·9	–	3	4	15	9	–	6·1	22	3·46
		Feb.	29·691	0·743	57·0	31·5	25·5	51·1	39·3	11·8	45·2	44·1	·258	2·9	0·5	86	545	46·8	35·3	–	5	4	16	4	–	6·6	25	0·96
		Mar.	29·674	1·016	61·1	26·1	35·0	53·5	37·9	15·6	45·2	40·9	·253	3·0	0·5	85	544	79·4	34·6	–	11	6	7	7	–	6·5	17	2·66
OXFORD (Oxfordshire), Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	Jan.	29·378	1·486	53·0	29·8	23·2	46·1	36·7	9·4	41·3	37·4	·225	2·6	0·4	87	543	68·3	33·5	1·2	1	4	18	8	1·5	7·9	23	4·06
		Feb.	29·576	0·744	56·0	34·0	22·0	50·3	40·4	9·9	45·0	40·5	·251	2·9	0·6	84	543	–	36·8	1·0	2	4	16	7	1·7	8·2	17	1·50
		Mar.	29·564	1·069	60·0	24·2	35·8	52·1	38·4	13·7	44·6	38·2	·232	2·7	0·6	78	543	–	33·1	1·1	4	5	13	9	2·8	8·1	16	1·93
GLOUCESTER (Gloucester), E. Toller, Esq., M.D.	100	Jan.	29·518	1·560	55·4	27·5	27·9	47·2	37·3	9·9	42·1	37·9	·228	2·6	0·5	86	545	59·0	36·2	1·1	3	2	13	13	1·4	6·5	23	3·70
		Feb.	29·704	0·724	57·3	34·0	23·3	50·8	41·1	9·7	46·0	40·5	·253	2·9	0·7	82	544	72·7	40·4	1·6	3	5	10	11	3·3	7·1	18	2·11
		Mar.	29·726	1·104	63·5	26·8	36·7	54·6	40·2	14·4	46·3	40·1	·249	2·9	0·7	80	545	89·3	37·7	0·8	6	5	9	11	2·6	5·9	13	2·13
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	Jan.	29·362	1·486	52·4	28·4	24·0	44·9	34·5	10·4	40·0	37·2	·222	2·5	0·4	90	544	–	–	–	–	–	–	–	–	6·4	22	2·92
		Feb.	29·548	0·692	55·6	29·4	26·2	49·9	37·2	12·7	43·5	40·2	·250	2·9	0·4	88	544	–	–	–	–	–	–	–	–	7·2	17	1·09
		Mar.	29·536	1·012	63·3	25·4	37·9	54·1	36·6	17·5	44·2	40·9	·257	2·9	0·5	89	543	–	–	–	6	2	16	7	–	6·4	13	2·11
CARDINGTON (near Bedford), Mr. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	100	Jan.	29·526	1·590	53·0	25·0	28·0	45·4	34·2	11·2	40·0	37·2	·222	2·5	0·4	90	547	45·7	28·5	1·1	3	1	21	6	–	7·0	19	2·60
		Feb.	29·720	0·630	56·0	30·4	25·6	50·3	38·0	12·3	44·0	40·9	·257	2·9	0·4	89	547	58·2	32·0	0·8	3	3	19	4	–	7·3	12	1·10
		Mar.	29·711	1·000	62·0	26·0	36·0	53·4	37·0	16·4	44·6	39·0	·258	2·9	0·6	88	546	71·0	29·4	0·7	6	5	11	9	–	5·7	12	1·75

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1872. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
LEAMINGTON (Warwickshire), S. Urwick Jones, Esq., F.M.S.	195	Jan.	29·366	1·606	53·3	28·2	25·1	45·6	36·9	8·7	41·0	38·3	·231	2·7	0·3	90	543	–	–	0·8	4	2	7	18	–	–	21	3·81
		Feb.	29·557	0·792	54·2	35·0	19·2	49·5	40·0	9·5	44·1	42·7	·273	3·2	0·4	93	543	–	–	0·1	2	9	10	8	–	8·3	15	2·17
		Mar.	29·544	1·032	59·8	26·0	33·8	52·9	38·5	14·4	44·0	41·8	·265	3·0	0·3	92	543	–	–	0·8	7	8	7	9	–	6·8	15	1·60
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	50	Jan.	29·565	1·646	51·0	28·0	23·0	44·3	34·5	9·8	39·6	38·7	·235	2·3	0·1	97	548	63·2	26·5	1·0	3	4	13	11	8·9	6·7	22	4·34
		Feb.	29·778	0·690	53·4	29·2	24·2	48·8	37·0	11·8	42·8	42·3	·269	3·1	0·3	97	548	70·4	27·6	1·0	1	7	12	9	7·9	7·1	17	0·96
		Mar.	29·739	1·038	60·0	26·6	33·4	52·8	36·5	16·3	43·9	42·1	·266	3·1	0·3	92	547	93·7	27·0	1·0	5	5	12	9	7·3	4·6	16	2·72
NORWICH (Norfolk), C. M. Gibson, Esq., F.M.S.	42	Jan.	29·576	1·682	51·0	28·0	23·0	44·2	34·8	9·4	39·5	37·9	·228	2·7	0·2	94	549	–	–	–	4	4	16	7	–	–	19	3·01
		Feb.	29·778	0·732	54·0	30·0	24·2	48·0	36·5	11·5	42·1	40·1	·248	2·8	0·3	86	549	–	–	–	1	7	16	5	–	–	12	0·75
		Mar.	29·743	1·072	59·0	25·5	33·5	50·9	36·7	14·2	43·4	39·5	·242	2·8	0·5	86	548	–	–	–	5	6	13	7	–	–	16	3·02
WISBECH (Cambridgeshire), S. H. Miller, Esq., F.R.A.S., F.M.S.	14	Jan.	29·571	1·752	53·6	20·8	25·6	45·0	35·2	9·8	39·8	38·2	·230	2·8	0·2	95	548	61·0	32·3	0·6	3	8	14	6	4·2	6·2	20	2·54
		Feb.	29·780	0·724	56·0	31·1	24·9	49·6	40·0	9·6	44·0	41·6	·264	3·0	0·3	91	548	74·5	34·7	0·4	3	11	11	4	2·4	7·2	18	1·31
		Mar.	29·756	1·026	62·0	26·8	35·2	53·8	38·0	15·8	45·0	41·1	·258	3·0	0·4	86	546	94·1	34·1	0·5	5	8	10	8	2·8	5·3	16	2·44
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Monia Dalton, Esq., M.D.	100	Jan.	29·354	1·362	56·6	33·5	23·1	48·4	38·2	10·2	43·5	39·3	·235	2·7	0·5	83	540	–	–	1·0	–	–	–	–	–	7·1	21	3·35
		Feb.	29·586	0·766	56·7	35·7	21·0	51·0	41·0	10·0	46·1	41·4	·262	3·1	0·5	85	542	–	–	0·6	–	–	–	–	–	7·0	17	3·04
		Mar.	29·637	1·210	63·3	30·0	32·6	52·7	40·4	12·3	46·2	40·2	·250	2·9	0·7	81	543	–	–	0·6	4	7	7	13	–	7·1	17	2·19
DERBY (Derbyshire), John Davis, Esq.	174	Jan.	29·360	1·617	54·0	28·0	26·0	45·7	35·1	10·6	40·2	38·9	·237	2·8	0·2	95	544	–	–	–	3	2	18	8	–	–	25	3·72
		Feb.	29·560	0·743	55·0	30·0	22·0	48·8	38·8	10·0	43·6	41·1	·267	3·0	0·7	89	544	–	–	–	2	4	13	10	–	–	22	2·87
		Mar.	29·555	1·119	60·0	26·0	34·0	51·8	37·6	14·2	44·1	40·6	·254	2·9	0·4	87	543	–	–	–	7	3	13	8	–	–	16	1·84
NOTTINGHAM (Notts), M. O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	241	Jan.	29·276	1·764	53·4	26·6	26·8	44·9	33·5	11·4	39·6	38·2	·231	2·7	0·1	95	543	52·8	26·5	0·7	2	3	18	8	2·3	7·0	22	3·32
		Feb.	29·489	0·712	56·3	30·7	25·6	49·3	37·7	11·6	43·4	41·6	·263	3·0	0·2	94	543	70·4	29·7	0·5	1	8	14	6	1·1	7·9	20	2·32
		Mar.	29·508	1·024	62·0	24·1	37·9	53·8	37·2	16·6	44·4	40·9	·256	2·9	0·5	88	542	91·9	27·8	0·5	7	5	10	9	2·6	6·1	16	1·70
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	39	Jan.	29·556	1·840	53·2	25·4	27·8	44·9	34·1	10·8	39·8	36·6	·217	2·5	0·4	89	548	53·8	27·3	1·2	4	1	23	3	–	6·6	11	1·71
		Feb.	29·760	0·714	56·2	25·2	31·0	49·1	36·4	12·7	42·8	39·2	·240	2·8	0·4	86	549	69·6	31·3	1·1	4	3	19	3	–	7·6	8	0·63
		Mar.	29·745	1·052	61·5	26·8	34·7	52·6	36·9	15·7	44·1	38·7	·235	2·7	0·6	81	547	99·7	31·9	1·3	7	4	14	6	–	5·5	12	1·51
HAWARDEN (Flint), T. Moffat, Esq., M.D., F.R.A.S.	270	Feb.	29·426	0·820	54·5	35·0	19·5	46·2	40·6	5·6	42·6	39·5	·242	2·8	0·3	89	543	72·7	21·7	1·8	2	2	14	11	1·6	7·6	24	2·65
		Mar.	29·440	1·192	61·5	30·0	31·5	50·7	40·0	10·7	43·6	42·1	·268	3·0	0·4	94	542	85·5	21·3	2·0	8	2	14	7	1·5	7·0	24	3·64
LIVERPOOL OBSERVATORY, John Hartnup, Esq., F.R.A.S.	197	Jan.	29·315	1·532	56·4	28·4	28·0	46·7	34·5	12·2	42·2	34·9	·203	2·4	0·7	76	541	–	–	1·3	2	7	15	7	–	6·7	22	3·43
		Feb.	29·528	0·821	55·3	35·0	20·3	48·9	38·4	10·5	44·2	39·8	·246	2·8	0·5	85	543	–	–	1·4	1	11	13	4	–	7·3	20	1·87
		Mar.	29·537	1·197	59·3	27·6	31·7	51·5	39·3	12·2	44·4	39·0	·238	2·7	0·6	81	543	–	–	1·2	5	9	9	8	–	6·5	19	2·65
ECCLES, near Manchester, T. Mackereth, Esq., F.R.A.S., F.M.S.	145	Jan.	29·347	1·622	55·2	23·0	32·2	45·8	34·3	11·5	40·6	36·7	·218	2·5	0·4	87	544	48·0	27·9	0·8	2	5	15	9	3·1	7·2	25	4·10
		Feb.	29·574	0·780	56·4	32·9	23·5	49·8	38·5	11·3	44·3	39·9	·249	2·2	0·5	85	543	55·8	31·1	0·3	1	6	15	7	1·7	7·8	24	2·85
		Mar.	29·590	1·228	63·7	25·5	38·2	52·0	37·5	14·5	44·4	38·7	·236	2·7	0·6	81	544	60·5	30·2	0·4	5	6	12	8	3·1	5·6	21	2·79
HALIFAX, (Yorkshire), Louis J. Crossley, Esq., F.M.S.	57	Mar.	29·201	1·167	61·8	22·0	39·8	49·8	36·7	13·1	41·9	39·9	·241	2·8	0·3	90	540	86·7	33·1	–	8	7	9	7	3·0	6·2	22	2·69
PARK ROAD OBSERVATORY (Halifax, Yorkshire), Edward Crossley, Esq., F.R.A.S.	618	Jan.	28·777	1·650	53·5	27·0	26·5	42·4	34·6	7·8	38·9	33·3	·191	2·2	0·6	82	535	52·4	30·1	0·5	2	5	10	14	–	7·8	20	5·26
		Feb.	29·032	0·659	52·0	31·0	21·0	45·1	36·6	8·5	40·9	38·0	·230	2·7	0·3	90	538	62·9	33·1	0·4	–	–	–	–	–	8·3	25	4·42
		Mar.	29·084	1·160	60·0	24·0	36·0	47·8	34·9	12·9	41·0	32·5	·184	2·2	0·9	72	538	77·4	30·8	0·3	5	7	9	10	–	6·5	17	3·65
THE PARK, HULL (Yorkshire), Mr. E. Peak.	12	Jan.	29·593	1·892	54·0	24·0	30·0	43·0	34·7	8·3	39·0	36·7	·218	2·5	0·3	92	549	50·9	33·8	–	–	–	–	–	2·6	8·3	12	2·20
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.A.S., F.M.S.	381	Jan.	29·064	1·622	56·2	29·2	27·0	45·0	36·7	8·3	40·6	37·5	·223	2·6	0·4	93	538	67·7	38·0	1·2	3	4	17	7	–	8·4	31	5·56
		Feb.	29·297	0·778	55·1	34·7	20·4	48·5	39·8	8·7	43·5	40·2	·250	2·9	0·4	88	539	80·6	34·7	1·0	2	7	14	6	–	8·2	27	4·58
		Mar.	29·310	1·198	60·0	22·4	37·6	50·1	38·6	11·5	43·4	39·3	·240	2·8	0·4	83	540	94·4	32·5	1·0	5	5	12	9	–	7·2	28	4·75
LEEDS PHILOSOPHICAL HALL (Yorkshire), Louis C. Miall, Esq.		Jan.	29·374	1·699	58·0	28·0	30·0	45·0	34·8	10·2	40·6	35·9	·210	2·4	0·5	84	544	49·3	–	1·5	2	3	14	12	–	7·7	25	3·41
		Feb.	29·609	0·757	56·0	32·0	24·0	49·7	37·3	12·4	43·7	38·5	·235	2·8	0·4	81	545	–	–	1·2	3	5	12	9	–	9·0	28	2·35
		Mar.	29·605	1·076	65·0	25·0	40·0	52·3	36·9	15·4	44·0	36·2	·213	2·5	0·8	73	545	66·0	–	1·3	7	4	8	12	–	7·6	19	2·29
YORK (Yorkshire), J. F. Fryer, Esq.	50	Jan.	29·306	1·820	58·0	24·0	34·0	42·9	34·7	8·2	39·2	36·9	·220	2·6	0·3	92	544	–	–	–	3	6	17	5	–	–	17	3·12
		Feb.	29·780	0·768	59·0	33·5	16·5	45·6	38·0	7·6	41·6	41·2	·259	3·0	0·0	98	550	–	–	–	3	4	17	5	–	–	21	2·34
		Mar.	29·670	1·092	58·5	26·0	32·5	49·6	37·3	12·3	42·6	41·1	·258	3·0	0·2	94	547	–	–	–	7	5	16	3	–	–	20	2·28
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.R.A.S., F.M.S.	148	Jan.	29·263	1·624	55·2	26·3	28·9	45·9	37·7	8·2	41·7	38·2	·231	2·6	0·3	88	541	53·1	29·9	0·9	2	4	21	4	4·1	7·2	23	7·00
		Feb.	29·525	0·912	57·3	33·2	24·1	49·6	39·8	9·8	44·3	40·0	·247	2·9	0·5	84	543	68·0	32·5	0·6	2	6	18	3	2·7	6·9	16	3·34
		Mar.	29·585	1·262	62·9	22·2	40·7	50·7	38·9	11·8	44·0	40·5	·252	2·9	0·4	77	544	79·1	32·3	0·5	6	7	15	3	3·3	6·9	19	3·57
ALLENHEADS (Northumberland), Mr. S. Stobbs, Assistant to W. B. Beaumont, Esq., M.P.	1360	Jan.	28·050	1·419	48·0	23·9	24·1	39·7	32·2	7·5	35·7	34·8	·196	2·3	0·2	94	525	53·8	30·7	2·9	–	–	–	–	–	8·0	24	6·21
		Feb.	28·424	0·761	49·0	28·3	20·7	44·0	35·5	8·5	38·5	36·6	·217	2·5	0·4	93	528	67·6	33·8	2·2	2	3	17	7	–	7·9	27	4·94
		Mar.	28·238	0·988	55·1	20·7	34·4	45·5	33·8	11·7	38·1	35·8	·209	2·4	0·3	91	526	71·3	32·6	1·9	–	–	–	–	–	6·6	24	5·44
SILLOTH RECTORY (Cumberland), Rev. Francis Bedford, M.A., F.R.A.S., F.M.S.	28	Jan.	29·344	1·688	55·0	26·0	29·0	46·3	36·5	9·8	41·0	38·2	·231	2·6	0·4	88	543	62·0	32·4	1·5	4	4	9	14	10·3	6·7	22	5·94
		Feb.	29·643	0·917	56·3	31·0	25·3	49·8	38·7	11·1	43·5	39·6	·244	2·8	0·4	86	546	71·2	34·5	1·2	1	12	9	7	9·1	6·4	20	3·02
		Mar.	29·682	1·241	65·0	26·6	38·4	52·4	37·9	14·5	44·2	39·8	·245	2·8	0·5	84	546	78·6	33·4	1·1	5	9	9	8	8·4	6·8	15	2·68
CARLISLE (Cumberland), I. Cartmell, Esq., F.M.S.	114	Jan.	29·307	1·517	55·8	24·5	31·3	46·4	35·0	11·4	40·5	38·3	·231	2·7	0·3	92	543	54·4	30·2	1·4	3	5	17	6	7·5	6·9	25	3·52
		Feb.	29·563	0·869	53·9	28·2	25·7	48·3	37·5	10·8	42·5	38·7	·236	2·7	0·4	87	545	64·3	32·1	1·4	1	9	15	4	6·9	6·9	28	2·42
		Mar.	29·594	1·181	61·3	23·8	37·5	50·2	37·4	12·8	42·8	39·0	·238	2·9	0·4	86	545	77·0	31·9	1·5	5	7	11	8	6·5	6·6	14	2·89
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	Jan.	29·342	1·582	56·0	27·0	29·0	44·9	36·4	8·5	40·1	34·4	·199	2·3	0·6	80	544	47·8	29·2	1·4	3	8	9	11	–	6·1	21	4·30
		Feb.	29·601	0·836	55·0	31·0	24·0	48·1	38·2	9·9	42·7	39·0	·220	2·5	0·6	89	546	53·0	31·2	1·1	2	6	8	13	–	6·5	24	3·72
		Mar.	29·614	1·106	60·0	27·0	33·0	49·4	37·7	11·7	42·1	36·3	·217	2·5	0·6	80	547	56·9	30·7	1·1	7	8	5	11	–	5·7	24	4·60
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	Jan.	29·379	1·576	56·0	28·2	27·8	46·0	35·3	10·7	40·5	36·8	·219	2·5	0·4	87	542	–	33·9	1·7	5	4	10	12	–	7·4	21	2·78
		Feb.	29·656	0·841	54·0	33·0	21·0	47·8	38·9	8·9	42·0	39·3	·241	2·7	0·6	91	547	–	37·0	1·6	3	4	13	9	–	7·7	23	2·39
		Mar.	29·692	1·165	55·6	25·0	30·6	47·2	37·4	9·8	41·4	37·5	·226	2·6	0·4	87	549	–	35·7	1·7	5	6	9	11	–	6·0	19	3·45
MILTOWN (Banbridge, Ireland), John Smyth, Esq., Jun., M.A., M.I.C.E.I.	200	Jan.	29·164	1·648	53·0	26·0	27·0	44·9	33·8	11·1	39·6	36·8	·219	2·6	0·3	90	541	56·8	30·1	2·4	3	6	18	4	4·7	4·6	23	4·09
		Feb.	29·375	1·008	53·0	29·0	24·0	48·2	37·8	10·4	42·7	39·3	·240	2·8	0·4	88	541	70·9	34·1	2·2	1	9	17	2	4·7	5·3	23	3·52
		Mar.	29·475	1·112	59·0	24·0	35·0	49·5	37·6	11·9	43·5	38·9	·237	2·7	0·4	83	543	81·6	33·7	2·2	8	6	14	3	4·4	5·1	19	2·39
CULLODEN (Inverness, Scotland), A. Forbes, Esq., F.M.S.	104	Jan.	29·161	1·888	50·6	30·8	19·8	41·7	36·6	5·1	37·4	35·5	·208	2·4	0·3	88	542	52·9	20·6	0·5	0	4	18	9	8·7	5·8	13	2·54
		Feb.	29·538	1·146	51·4	31·9	19·5	44·8	38·7	6·1	41·5	36·6	·217	2·5	0·4	84	546	90·8	20·6	0·3	1	5	16	7	8·3	5·1	11	0·52
		Mar.	29·584	1·071	56·6	29·5	27·1	46·0	39·1	6·9	39·8	36·8	·224	2·5	0·6	82	546	98·2	16·1	0·3	4	10	9	8	8·6	5·4	17	0·84

Second Rain-gauges are placed—

			January.	February.	March.	Total during the Quarter,
At Eastbourne, at the height of 4 feet *above the ground*, the amount collected was			5·73 inches.	2·24 inches.	2·97 inches.	10·94 inches.
" Portsmouth,	"	20 feet "	5·11 "	1·54 "	"	"
" Strathfield Turgiss,	"	38 feet "	3·49 "	1·05 "	1·11 "	5·65 "
" Eccles, Manchester,	"	34 feet "	3·02 "	2·21 "	2·17 "	7·40 "
" Allenheads,	"	6½ feet "	7·80 "	5·66 "	"	"
" Carlisle,	"	3 feet "	1·15 "	1·67 "	1·71 "	4·53 "
" Miltown, Ireland,	"	40 feet "	3·54 "	2·37 "	2·07 "	7·98 "
" Brighton,	"	35 feet "	3·82 "	2·15 "	1·72 "	7·69 "
" Radcliffe Observatory,	"	22 feet "	3·76 "	1·38 "	1·73 "	6·87 "
" Marlborough College,	"	8 inches "	6·46 "	2·55 "	2·30 "	11·31 "
" " "	"	1 foot "	6·41 "	2·49 "	2·26 "	11·16 "
" Cardington,	"	36 feet "	2·25 "	0·84 "	1·40 "	4·49 "
" Boston,	"	feet "	"	—	"	"
" Nottingham,	"	25½ feet "	3·03 "	2·21 "	1·58 "	6·82 "
" Wisbech,	"	8 feet "	2·38 "	1·16 "	2·22 "	5·76 "
" Aldershot,	"	25 feet "	4·26 "	1·72 "	1·59 "	7·57 "
" Cockermouth,	"	6½ feet "	6·78 "	3·25 "	3·41 "	13·44 "
Holkham,	"	4 feet "	1·71 "	0·63 "	1·51 "	3·85 "

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind: Mean Estimated Strength.	Wind: Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain: Number of Days on which it fell.	Rain: Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·488	57·5	31·5	26·0	49·7	42·5	19·0	7·2	45·8	42·0	·268	3·1	0·5	87	541	—	—	1·4	3	7	11	9	4·1	5·8	58	13·50
Helston	29·510	64·0	30·0	34·0	54·2	43·8	28·0	10·4	48·8	42·2	·269	3·2	0·8	78	540	65·7	38·6	2·2	5	4	11	10	5·5	6·4	71	16·98
Truro	29·417	58·0	25·0	33·0	52·0	41·5	28·3	10·5	46·1	41·8	·265	3·0	0·5	86	543	—	—	2·8	5	5	10	11	—	7·3	74	19·09
Sidmouth	29·468	57·1	26·3	30·8	49·5	40·3	25·4	9·2	44·8	42·3	·268	3·1	0·3	81	545	—	—	1·3	5	3	9	13	—	4·3	68	11·[illegible]
Eastbourne	29·525	66·1	26·8	39·3	50·4	39·3	27·8	11·1	45·0	41·5	·263	3·1	0·5	88	546	74·4	33·9	0·6	4	4	13	9	5·6	—	65	11·[illegible]
Osborne	29·496	59·7	22·3	37·4	50·5	38·4	29·0	12·1	44·0	41·5	·263	3·0	0·3	92	544	65·5	35·8	0·2	4	4	15	8	—	7·1	57	10·[illegible]
Bournemouth	29·609	57·5	27·2	30·3	48·7	40·4	24·0	8·3	44·3	41·1	·260	3·0	0·4	89	547	—	—	—	6	4	10	10	—	5·3	61	12·[illegible]
Worthing	29·488	58·3	27·9	30·4	49·4	40·4	24·2	9·0	44·3	41·1	·258	3·0	0·4	89	546	90·4	35·8	1·1	5	4	13	9	6·4	6·5	58	9·[illegible]
Brighton	29·510	57·4	28·4	29·0	48·1	40·0	21·7	8·1	43·6	41·5	·263	3·0	0·2	93	544	81·5	34·6	1·0	5	5	13	7	0·9	7·0	60	9·[illegible]
Lymington	29·487	57·9	24·5	33·4	50·0	39·9	26·3	10·1	44·6	41·6	·265	3·0	0·4	92	545	—	—	0·6	4	5	11	10	—	6·5	57	10·[illegible]
Taunton	29·448	60·4	23·9	36·5	51·4	37·5	32·2	13·9	44·4	42·1	·269	3·0	0·4	91	545	58·1	36·0	0·3	4	3	9	14	6·2	6·2	56	10·[illegible]
Wilton House	29·470	61·7	23·0	38·7	50·5	36·0	32·6	14·5	43·7	41·2	·261	3·0	0·3	92	543	77·4	34·6	1·4	5	4	17	4	4·6	6·7	62	13·[illegible]
Barnstaple	29·431	61·0	29·0	32·0	51·3	41·3	24·8	10·0	46·6	41·8	·265	3·0	0·6	84	542	—	—	1·2	3	5	15	8	—	4·5	72	14·97
Aldershot Camp	29·508	60·6	24·8	35·8	50·2	37·2	27·5	13·0	42·9	39·5	·244	2·8	0·4	88	542	74·4	33·7	1·5	3	5	13	9	2·4	7·6	61	10·[illegible]
Strathfield Turgiss	29·522	61·2	21·8	39·4	49·8	36·5	32·1	13·3	43·4	38·8	·236	2·7	0·5	84	544	82·5	31·2	0·9	4	5	12	9	5·0	7·0	55	6·[illegible]
Weybridge Heath	29·532	63·0	23·0	40·0	50·4	37·4	30·0	13·0	43·3	40·2	·250	2·9	0·3	89	546	73·4	34·5	0·8	5	6	16	4	1·9	6·7	59	7·[illegible]
Marlborough College	29·515	58·9	22·5	36·4	48·7	36·8	30·3	11·9	42·4	40·2	·243	2·8	0·3	90	539	73·5	32·7	—	4	3	12	12	4·1	7·4	64	11·[illegible]
Chislehurst	29·520	61·2	22·2	39·0	51·2	36·6	31·8	14·6	43·3	37·7	·225	2·6	0·7	80	542	85·5	31·6	—	4	4	14	8	—	—	63	7·[illegible]
Royal Observatory	29·509	60·8	26·1	34·7	50·5	38·0	28·2	12·5	43·6	39·5	·243	2·8	0·5	86	544	76·9	32·0	0·5	3	4	10	13	—	6·9	50	6·[illegible]
Streatley Vicarage	29·524	61·7	25·8	35·9	50·6	37·7	29·9	12·9	44·1	40·2	·250	2·9	0·4	87	544	57·5	32·6	1·4	4	5	13	9	—	7·5	58	9·[illegible]
St. John's Battersea	29·480	68·0	24·0	44·0	51·0	36·0	34·3	15·0	43·4	40·1	·242	2·8	0·5	85	547	59·1	30·7	1·5	0	2	20	9	—	7·5	56	6·52
Marylebone	—	63·0	24·5	38·5	50·7	36·4	31·7	14·3	44·0	40·9	·258	3·0	0·4	90	—	—	—	—	4	5	11	10	—	7·9	57	7·[illegible]
Camden Town	29·483	61·1	26·1	35·0	50·2	37·8	28·6	12·4	44·0	40·2	·248	2·9	0·5	87	545	65·2	34·3	—	6	5	13	7	—	6·4	64	7·[illegible]
Oxford	29·500	60·0	24·2	35·8	49·5	38·5	27·0	11·0	43·6	38·7	·236	2·7	0·5	83	543	—	34·5	1·1	2	4	16	8	2·0	8·1	56	7·[illegible]
Gloucester	29·513	63·5	26·8	36·7	50·9	39·5	29·3	11·3	44·8	39·5	·243	2·8	0·6	83	545	73·7	38·1	1·2	4	4	11	12	2·4	6·5	54	7·[illegible]
Royston	29·534	63·3	25·4	37·9	49·6	36·1	29·4	13·5	42·6	39·4	·243	2·8	0·4	89	544	—	—	—	—	—	—	—	—	6·7	52	6·12
Cardington	29·522	62·0	25·0	37·0	49·7	36·4	29·9	13·3	42·9	39·0	·239	2·8	0·5	89	547	58·3	30·0	0·9	4	3	17	6	—	6·7	43	5·45
Leamington	29·447	59·8	26·0	33·8	49·3	38·5	26·0	10·8	43·0	40·9	·256	3·0	0·3	92	543	—	—	0·6	4	6	8	12	—	—	51	7·[illegible]
Somerleyton Rectory	29·493	60·0	26·6	33·4	48·6	36·0	26·9	12·6	42·1	41·0	·257	3·0	0·2	95	548	75·8	27·0	1·0	3	5	12	10	8·0	6·1	55	8·[illegible]
Norwich	29·515	59·0	25·5	33·5	47·7	36·0	26·8	11·7	41·7	39·2	·239	2·8	0·3	89	549	—	—	—	3	6	15	6	—	—	47	6·[illegible]
Wisbech	29·466	62·0	26·8	35·2	49·5	37·7	28·6	11·8	42·9	40·3	·251	2·9	0·3	91	547	76·5	33·7	0·5	4	9	12	6	3·1	6·2	54	6·29
Llandudno	29·386	63·3	30·7	32·6	50·7	39·9	25·6	10·8	45·3	40·3	·249	2·9	0·6	83	542	—	—	0·7	—	—	—	—	—	7·1	55	8·[illegible]
Derby	29·428	60·0	26·0	34·0	48·8	37·2	27·3	11·6	42·6	40·3	·253	2·9	0·4	90	544	—	—	—	4	3	14	9	—	—	63	8·[illegible]
Nottingham	29·436	62·0	24·1	37·9	49·3	36·1	30·1	13·2	42·5	40·2	·250	2·9	0·3	92	543	71·7	28·0	0·6	3	5	14	8	2·0	7·0	58	7·[illegible]
Holkham	29·499	61·5	25·2	36·3	48·9	35·8	31·2	13·1	42·2	38·2	·231	2·7	0·5	85	548	74·4	30·2	1·2	5	3	19	4	—	6·6	31	3·85
Liverpool	29·457	59·3	27·6	31·7	49·0	37·4	26·7	11·6	43·6	37·9	·229	2·6	0·6	81	542	—	—	1·3	3	9	12	6	—	6·8	61	7·[illegible]
Eccles	29·429	63·7	23·0	40·7	49·2	36·8	31·3	12·4	43·1	38·4	·234	2·7	0·5	84	544	54·8	29·7	0·5	3	6	14	8	2·6	6·9	70	9·[illegible]
Park Road	29·462	60·0	24·0	36·0	45·1	35·4	27·8	9·7	40·3	34·6	·202	2·4	0·6	81	537	63·9	31·3	0·4	—	—	—	—	—	7·5	62	13·[illegible]
Stonyhurst	29·396	60·0	22·4	37·6	47·9	38·4	28·3	9·5	42·5	39·0	·238	2·8	0·4	88	539	80·9	35·1	1·1	3	5	14	7	—	7·9	86	14·89
Leeds	—	65·0	25·0	40·0	49·0	36·3	31·3	12·7	42·8	36·9	·219	2·6	0·6	79	545	—	—	1·3	4	4	11	11	—	8·1	72	8·[illegible]
York	29·394	58·5	24·0	34·5	46·0	36·7	27·7	9·4	41·1	39·7	·246	2·9	0·2	95	547	—	—	—	4	5	17	14	—	—	58	7·[illegible]
Cockermouth	29·377	62·9	22·2	40·7	48·7	38·8	31·2	9·9	43·3	39·6	·243	2·8	0·4	86	543	66·7	31·6	0·7	3	6	18	3	3·4	7·0	58	13·91
Silloth	29·347	65·0	26·0	39·0	49·5	37·7	30·9	11·8	42·9	39·2	·240	2·7	0·4	86	545	70·6	33·4	1·2	3	8	9	10	9·2	6·6	57	11·[illegible]
Carlisle	29·378	61·3	23·8	37·5	48·3	36·6	31·5	11·7	41·9	38·7	·235	2·8	0·4	88	544	65·2	31·4	1·4	3	7	14	6	7·0	6·8	67	8·[illegible]
Bywell	29·402	60·0	27·0	33·0	47·5	37·4	28·7	10·0	41·6	36·6	·212	2·4	0·6	83	546	52·6	30·4	1·2	4	7	7	12	—	6·1	69	12·[illegible]
North Shields	29·483	56·0	25·0	31·0	47·0	37·2	26·5	9·8	41·3	37·9	·229	2·6	0·5	88	546	—	35·5	1·7	4	5	11	11	—	7·0	63	8·[illegible]
Miltown (Ireland)	29·325	59·0	24·0	35·0	47·5	36·4	28·7	11·1	41·9	38·3	·232	2·7	0·4	87	542	69·8	32·6	2·3	4	7	16	3	4·6	5·0	65	10·[illegible]

The highest temperatures of the air were at St. John's, Battersea, 68°·0; Eastbourne, 66°·1; Leeds, 65°·0; Silloth, 65°·0; and at Helston, 64°·0.

The lowest temperatures of the air were at Strathfield Turgiss, 21°·8; Chislehurst, 22°·2; Cockermouth, 22°·2; Osborne, 22°·3; and at Stonyhurst, 22°·4.

The greatest daily ranges of the temperature of the air were at St. John's, Battersea, 15°·0; Chislehurst, 14°·6; Wilton House, 14°·5; Marylebone, 14°·3; and at Taunton, 14°·3.

The least daily ranges of the temperature of the air were at Worthing, 7°·0; Guernsey, 7°·2; Brighton, 8°·1; Bournemouth, 8°·3; Sidmouth, 9°·2; and at York, 9°·4.

The greatest numbers of rainy days were at Stonyhurst, 86; Truro, 74; Barnstaple, 72; Leeds, 72; and at Helston, 71.

The least numbers of rainy days were at Holkham, 31; Cardington, 43; Norwich, 47; Royal Observatory, 50; and at Leamington, 51.

The heaviest falls of rain were at Truro, 19·09 inches; Helston, 16·98 inches; Barnstaple, 14·97 inches; Stonyhurst, 14·89 inches; Cockermouth, 13·91 inches; and at Guernsey, 13·50 inches.

The least falls of rain were at Holkham, 3·85 inches; Cardington, 5·45 inches; Royston, 6·12 inches; Wisbech, 6·29 inches; and at St. John's, Battersea, 6·52 inches.

QUARTERLY METEOROLOGICAL TABLE for different PARALLELS of LATITUDE.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind: Mean Estimated Strength.	Wind: Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain: Mean Number of Days it fell.	Rain: Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·488	57·5	31·5	26·0	49·7	42·5	19·0	7·2	45·8	42·0	·268	3·1	0·5	87	541	—	—	1·4	3	7	11	9	4·1	5·8	58	13·5[illegible]
Between the latitudes 50° and 51°	29·502	60·1	26·5	33·6	50·7	40·6	26·7	10·1	45·3	41·6	·264	3·1	0·5	86	544	74·0	36·0	1·4	5	4	12	10	5·8	6·1	65	13·[illegible]
51° and 52°	29·497	61·3	24·7	36·6	50·3	37·8	29·3	12·5	43·9	40·2	·250	2·9	0·5	87	544	72·2	33·7	1·0	4	4	13	9	3·3	6·9	58	9·[illegible]
52° and 53°	29·472	61·3	26·1	35·2	49·2	37·0	28·2	12·2	42·8	39·9	·247	2·9	0·4	89	545	71·3	29·8	0·8	4	5	14	8	4·4	6·6	51	6·[illegible]
53° and 54°	29·427	61·1	24·3	36·8	47·7	36·8	28·5	10·9	42·2	37·7	·224	2·7	0·5	86	542	66·5	32·0	0·9	3	6	13	9	2·6	5·4	68	10·[illegible]
54° and 55°	29·373	62·3	24·7	37·6	48·5	37·6	30·6	10·9	42·4	38·5	·232	2·7	0·4	86	544	63·8	31·7	1·1	3	7	12	8	6·5	6·6	63	11·[illegible]
North Shields	29·483	56·0	25·0	31·0	47·0	37·2	26·5	9·8	41·3	37·9	·229	2·6	0·5	88	546	—	35·5	1·7	4	5	11	11	—	7·0	63	8·[illegible]
Miltown, Banbridge (Ireland)	39·325	59·0	24·0	35·0	47·5	36·4	28·7	11·1	41·9	38·3	·232	2·7	0·4	87	542	69·8	32·6	2·3	4	7	16	3	4·6	5·0	65	10·[illegible]
Mean for the Quarter 50° to 55°: Year 1869	29·678	58·8	25·0	33·8	47·9	36·8	28·1	11·1	41·9	37·6	·227	2·6	0·5	85	549	—	—	1·3	6	5	8	11	—	5·8	50	8·[illegible]
" 1870	29·757	57·9	19·3	38·1	44·1	33·7	32·2	10·4	38·5	34·7	·202	2·4	0·4	86	554	63·8	29·1	1·1	8	7	7	8	4·6	6·8	41	6·[illegible]
" 1871	29·713	67·0	14·1	52·8	46·2	34·6	34·2	11·9	40·1	36·2	·216	2·5	0·4	86	551	66·4	28·1	1·2	5	6	9	10	—	6·6	42	5·[illegible]
" 1872	29·454	61·2	25·2	36·0	49·3	38·0	28·7	11·3	43·3	39·4	·243	2·8	0·5	87	544	69·6	22·6	1·0	4	5	13	9	4·5	6·3	61	10·[illegible]

REMARKS ON THE WEATHER DURING THE QUARTER ENDING JUNE 30TH, 1872.

By JAMES GLAISHER, ESQ., F.R.S., *&c., Secretary of The Meteorological Society.*

The weather at the end of March and till the first week in May was very changeable, there were alternately a few days of warmth, and then a few days of cold, the warm periods preponderating both in duration and in excess of temperature over the defects of temperature and cold. Till May 5th the temperature was in excess to the amount of $2\frac{3}{4}°$ on the average daily. From the 6th of May to the 12th of June, with the exception of three or four days of moderate warm weather at the end of May, the weather was cold, the sky mostly cloudy, the nights of low temperature with hoar frost and frequent rain, the average deficiency of daily temperature was $3\frac{1}{2}°$. On June 13th a warm period set in, and for some days the weather was fine, bright, and hot, but towards the end of the month it was again changeable, there was an excess of daily temperature above these averages of $3\frac{3}{4}°$. Some heavy thunderstorms took place during the hot weather in June 17th, 18th, and 19th of June, principally over the Northern and Midland Counties.

The changeable weather which has thus prevailed nearly throughout the quarter, sometimes warm but frequently cold, till the middle of June, caused all cereal crops to be in a backward state, as they did not receive sufficient warmth and sunshine; their forward state in the early spring was entirely lost through the low temperature and harsh weather in the month of May. Under the influence of the bright sunshine and hot weather about the middle of June, everything progressed satisfactorily and rapidly; at the end of the quarter vegetation generally was about ten or twelve days later than in an average season. The wheat crop was generally in ear or in bloom. The storms in June had laid some and blown off the blossoms in some cases, but only to a small portion of the whole, and it was generally expected the yield would be that of a full average.

The hay crop was spoken of as generally very good, and the heaviest for many years.

The potatoe crop is also spoken of as good and abundant.

The average temperature of these three months differs less than $\frac{1}{4}$ of a degree from the average of the same month in the preceding 30 years.

On the 1st April the reading of the barometer at the height of 159 feet above sea level was 29·3 in. A slight decrease to 29·2 in. occurred on the 2d, but on the same day a decided increase set in, and by the 6th, 30·3 in. was reached. From the 7th to the 15th high values generally were recorded, but on the 16th a depression commenced and lasted till about noon of the 21st, when 28·9 in., the absolute minimum for the month was registered. From this date, with but slight exceptions, increasing values were recorded till the end of the month. The absolute range of reading during April was 1·4 in.

During May the movements were numerous, but not of very great magnitude, the principal being a decrease from 30·2 in. on the 1st to 29·2 in. on the 7th, (though broken by a slight increase on the 5th) and a general increase from 29·4 in. on the 18th to 30·2 in. on the 26th. The range of reading for the month was one inch.

The principal movements during June were a general decrease to 29·3 in. on the 9th, and an increase to 30·1 in. on the 16th. From the 17th the oscillations were numerous, and the mean daily values fluctuated above and below the average in periods of three or four days. The range of reading during the month was but 8 tenths of an inch.

For each of the three months the mean value was 29·7 in., and the departure from average, −0·03 in., −0·05 in., and −0·08 in. respectively.

The mean temperature of April was 48°·3, being 2°·3 higher than the average of 101 years, higher than the corresponding value last year, but lower than those in 1869 and 1870.

The mean temperature of May was 50°·9, being 1°·7 lower than the average of 101 years, lower than the temperature in the same month in 1871 and 1870, but higher than in 1869, when 50°·5 was recorded.

The mean temperature of June was 59°·2, being 1°·0 higher than the average of 101 years, 4°·4 higher than the corresponding value last year, but 1°·7 lower than in 1870.

The mean high day temperatures were 1°·5 and 0°·2 respectively higher than their averages in April and June, but 2°·5 lower in May.

The mean low night temperatures of April were 1°·5 higher, of June, the same as, and of May 1°·6 lower than their respective averages.

Therefore the days and nights of April were warm, and of May cold, while those of June were of equable temperature.

The daily ranges of temperature were greater than their respective averages in April and June, but less in May.

The fall of rain was 0·7 in. and 0·3 in. respectively in defect of the average in April and June, but 0·9 in. in excess in May.

The mean temperature of the air in the three months ending May, constituting the three spring months, was 47°·9, being 1°·4 higher than the average of 101 years.

1872. MONTHS.	Temperature of Air: Mean.	Air: Diff. from average of 101 years.	Air: Diff. from average of 31 years.	Evaporation: Mean.	Evaporation: Diff. from average of 31 years.	Dew Point: Mean.	Dew Point: Diff. from average of 31 years.	Air—Daily Range: Mean.	Air—Daily Range: Diff. from average of 31 years.	Water of the Thames.	Elastic Force of Vapour: Mean.	Elastic Force of Vapour: Diff. from average of 31 years.	Weight of vapour in a Cubic Foot of Air: Mean.	Weight of vapour: Diff. from average of 31 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	grs.
April	48·3	+2·3	+1·2	44·8	+0·7	41·0	+0·3	19·3	+0·7	50·7	0·287	+0·003	2·9	0·0
May	50·9	−1·7	−2·1	47·3	−1·9	43·6	−1·9	19·7	−0·8	54·5	0·284	−0·019	3·3	−0·1
June	59·2	+1·0	+0·2	54·9	+0·3	51·1	+0·4	21·3	+0·2	61·9	0·375	+0·005	4·2	+0·1
Mean	52·8	+0·5	−0·2	49·0	−0·3	45·2	−0·4	20·1	0·0	55·7	0·305	−0·004	3·5	0·0

1872. Months.	Degree of Humidity.		Reading of Barometer.		Weight of a Cubic Foot of Air.		Rain.		Daily Horizontal movement of the Air.	Reading of Thermometer on Grass.				
										Number of Nights it was			Lowest Reading at Night.	Highest Reading at Night.
	Mean.	Diff. from average of 31 years.	Mean.	Diff. from average of 31 years.	Mean.	Diff. from average of 31 years.	Amount.	Diff. from average of 57 years.		At or below 30°.	Between 30° and 40°.	Above 40°.		
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
April -	76	− 3	29·735	−0·034	542	− 1	1·0	−0·7	273	8	19	3	21·3	45·2
May -	76	0	29·736	−0·045	539	− 2	3·1	+0·9	257	5	15	11	25·8	47·4
June -	75	+ 1	29·735	−0·081	530	− 2	1·6	−0·3	264	1	8	21	28·5	54·8
Mean -	76	− 1	29·735	−0·053	537	− 2	Sum 5·7	Sum 0·0	Mean 265	Sum 14	Sum 42	Sum 35	Lowest 21·3	Highest 54·8

NOTE.—In reading this table it will be borne in mind that the minus sign (−) signifies below the average, and that the plus sign (+) signifies above the average.

Thunderstorms occurred on the 17th of April at Carlisle; on the 22d at Osborne; on the 23d at Stonyhurst, Allenheads, and Carlisle; on the 24th at Cardington, Stonyhurst, Wisbech, Bywell, and North Shields; on the 25th at Liverpool, Eccles, Halifax, Hull, Stonyhurst, and York; on the 26th at Stonyhurst. On the 6th of May at Somerleyton; on the 7th at Strathfield Turgiss, Weybridge Heath, London, and Norwich; on the 8th at Osborne, Marlborough, Streatley, Oxford, Gloucester, and Norwich; on the 9th at Guernsey, Portsmouth, Worthing, Salisbury, Chislehurst, London, Oxford, Eccles, and Stonyhurst; on the 15th at Oxford and Eccles; on the 20th at Helston; on the 22d at Truro, Wisbech, and North Shields; on the 23d at Helston, Taunton, and Somerleyton; and on the 31st at London. On the 2d of June at Royston and Wisbech; on the 3d at Brighton and Leamington; on the 7th at Helston, Marlborough, Gloucester, Cardington, Halifax, Stonyhurst, and Leeds; on the 8th at London and Stonyhurst; on the 9th at Eccles, Halifax, Stonyhurst, Silloth, and Carlisle; on the 10th at Worthing, Brighton, Leamington, and Silloth; on the 17th at Cardington, Wisbech, Hawarden, Halifax; on the 18th at Guernsey, Helston, Barnstaple, Gloucester, Cardington, Wisbech, Hawarden, Eccles, Halifax, Stonyhurst, Leeds, Silloth, Carlisle, and North Shields; on the 19th at Sidmouth, Taunton, Salisbury, Lymington, Marlborough, Gloucester, Royston, Cardington, Wisbech, Llandudno, Hawarden, Eccles, Cockermouth, and Carlisle; on the 20th at Silloth; on the 24th at Osborne, Strathfield Turgiss, Lymington, Marlborough, Chislehurst, London, Royston, Cardington, Leamington, Wisbech, Hawarden, Eccles, Halifax, Stonyhurst, Leeds, and North Shields; on the 25th at Wisbech, Eccles, Leeds, and North Shields; on the 26th at Salisbury, Wisbech, and Eccles; on the 27th at Stonyhurst and Silloth; and on the 28th at Carlisle.

Thunder was heard, but lightning was not seen, on the 5th of April at Halifax; on the 17th at Allenheads, Halifax, and Cockermouth; on the 18th at Hawarden and Helston; on the 19th at Gloucester; on the 21st at Oxford; on the 22d at Portsmouth and Hawarden; on the 23d at Cardington, Eccles, Halifax, Hawarden, Stonyhurst, and Bywell; on the 24th at Somerleyton, Eccles, Halifax, York, and Allenheads; and on the 26th at Eccles and Miltown. On the 6th of May at Hull; on the 7th at Chislehurst, Royston, Leamington, Somerleyton, Wisbech, Eccles, and Hull; on the 8th at Worthing, Brighton, Chislehurst, Leamington, Somerleyton, Hull, and Silloth; on the 9th at Weybridge, Streatley, London, Somerleyton, Silloth, and Carlisle; on the 10th at Chislehurst; on the 15th at Liverpool, Stonyhurst, Cockermouth, and Carlisle; on the 21st at Hull and Carlisle; on the 22d at Salisbury, Taunton, Gloucester, and Somerleyton; on the 23d at Hull and North Shields; and on the 24th at Worthing, Brighton, and Chislehurst. On the 2d of June at Chislehurst and Cardington; on the 3d at Norwich and Hull; on the 7th at Taunton, and Royston; on the 8th at Llandudno and North Shields; on the 9th at Llandudno and Hull; on the 10th at Royston, Cardington, and Hull; on the 17th at Osborne, London, Oxford, Halifax, Hull, and Stonyhurst; on the 18th at Weybridge, London, Landudno, Hull, and Cockermouth; on the 19th at Portsmouth, Worthing, Weybridge and Stonyhurst; on the 20th at North Shields; on the 21st at Marlborough and Stonyhurst; on the 24th at Portsmouth, Worthing, Weybridge, Streatley, Oxford, and Gloucester; on the 25th at Halifax; and on the 26th at Cardington and Halifax.

Lightning was seen, but thunder was not heard, on the 17th of April at Carlisle; on the 23d at Stonyhurst; on the 25th at Worthing, Brighton, Chislehurst, Cardington, and Somerleyton; on the 26th at Chislehurst and Somerleyton; and on the 28th at Royston. On the 8th of May at Marlborough; on the 9th at Chislehurst; and on the 16th at Portsmouth. On the 11th of June at Oxford; on the 18th at Oxford, Wisbech, and Llandudno; on the 19th at Truro; on the 24th at Brighton, Weybridge, and Oxford; and on the 27th at London.

Solar halos were seen on the 5th of April at Cockermouth; on the 6th at North Shields; on the 7th at Strathfield Turgiss, Weybridge, and Oxford; on the 9th at Brighton and Oxford; on the 10th at Halifax; on the 12th at Halifax and York; on the 21st at Strathfield Turgiss; on the 22d at Oxford; on the 26th at Oxford; on the 28th at Liverpool; on the 29th at Brighton, Weybridge, and Halifax; on the 30th at Oxford. On the 7th of May at Halifax; on the 12th at Halifax; on the 14th at Brighton; on the 15th at Wisbech; on the 30th at Oxford. On the 1st of June at North Shields; on the 15th at Oxford; on the 21st at Oxford; on the 27th at Oxford; on the 30th at Strathfield Turgiss.

Lunar halos were seen on 12 nights during the quarter.

Auroræ Boreales were seen on 9 days in April, on 6 days in May, and on 3 days in June.

Snow fell on 14 days during the quarter, mostly in the North.

Hail fell on 14 occasions in April, on 16 in May, and on 10 in June.

Fog was prevalent at some place on 10 days in April, 6 in May, and 10 in June.

Field Elm in leaf on the 2d of April at Brighton; on the 15th at Hull; on the 20th at Miltown; and on the 27th at Helston.

Wych Elm in leaf on the 6th of April at Chislehurst; on the 15th at Hull; on the 19th at Wisbech; and on the 21st at Somerleyton.

Oak in leaf on the 25th of April at Guernsey; on the 27th at Osborne; and on the 29th at Culloden and Chislehurst. On the 1st of May at Oxford; on the 3d at Wisbech; on the 10th at Strathfield Turgiss; on the 15th at Cockermouth; and on the 16th at Brighton. On the 6th of June at Hull.

Lime in leaf on the 7th of April at Wisbech; on the 8th at Llandudno; on the 13th at Strathfield Turgiss; on the 14th at Chislehurst; on the 15th at Culloden; on the 16th at Guernsey; on the 17th at Somerleyton; and on the 25th at Osborne. On the 2d of May at Brighton; and on the 3d at Hull.

Sycamore in leaf on the 8th of April at Llandudno; on the 13th at Brighton; on the 19th at Helston; on the 23d at Wisbech; and on the 30th at Miltown. On the 4th of May at Strathfield Turgiss; and on the 10th at Hull.

Horse Chestnut in leaf on the 7th of April at Guernsey, on the 9th at Wisbech; on the 13th at Osborne and Brighton; on the 14th at Chislehurst; on the 17th at Helston; on the 22d at Miltown; and on the 28th at Carlisle. On the 10th of May at Hull.

Common Poplar in leaf on the 9th of April at Wisbech; and on the 14th at Helston and Chislehurst. On the 6th of June at Hull.

Hawthorn in leaf on the 1st of April at Miltown; and on the 24th at Carlisle. On the 12th of May at Culloden. In blossom on the 29th of April at Helston.

Hazel in leaf on the 4th of April at Strathfield Turgiss; and on the 5th at Miltown.

Beech in leaf on the 14th of April at Brighton; on the 24th at Culloden; and on the 26th at Osborne.

Apple in blossom on the 1st of April at Llandudno; on the 2d at Wisbech; on the 10th at Hull; on the 12th at Wisbech; on the 13th at Brighton; on the 15th at Miltown; and on the 28th at North Shields. On the 2d of May at Stonyhurst.

Hardy Pear in blossom on the 6th of April at Wisbech; on the 8th at Miltown; on the 10th at Hull; on the 26th at North Shields; and on the 28th at Carlisle.

Cherry in blossom on the 3d of April at Silloth; on the 4th at Miltown; on the 12th at Hull; on the 18th at Carlisle; and on the 27th at North Shields.

Wild Cherry in blossom on the 13th of April at Brighton.

Cherry ripe on the 10th of May at Weybridge.

Plum in blossom on the 1st of April at Miltown; on the 3d at Wisbech; on the 11th at Hull; and on the 18th at Carlisle.

Lilac in blossom on the 12th of April at Helston; on the 14th at Guernsey; on the 17th at Osborne and Llandudno; on the 23d at Strathfield Turgiss, Chislehurst, and Wisbech; on the 24th at Weybridge; and on the 25th at Lampeter. On the 1st of May at Hawarden; on the 4th at Silloth; on the 6th at Miltown; on the 8th at Cockermouth and Carlisle; on the 9th at Hull; on the 10th at Culloden; and on the 21st at North Shields.

Laburnum in blossom on the 16th of April at Guernsey; on the 20th at Helston; on the 28th at Llandudno; on the 29th at Brighton, Weybridge, and Wisbech; and on the 30th at Oxford. On the 1st of May at Hawarden; on the 4th at Silloth; on the 6th at Chislehurst; on the 8th at Weybridge; on the 10th at Hull; on the 13th at Carlisle; and on the 17th at Strathfield Turgiss and Miltown; and on the 24th at North Shields.

Yellow broom in blossom on the 11th of April at Weybridge; on the 17th at Hull; and on the 28th at Miltown. On the 27th of June at Brighton.

White broom in blossom on the 17th of April at Weybridge. On the 8th of May at Chislehurst, Hull, and Miltown.

Mountain ash in blossom on the 27th of April at Weybridge. On the 2d of May at Strathfield Turgiss; on the 8th at Chislehurst; on the 10th at Hull; on the 15th at Miltown; on the 20th at North Shields; and on the 22d at Cockermouth.

Honeysuckle in blossom on the 16th of April at Helston; on the 29th at Chislehurst. On the 18th of June at Hull.

Privet in blossom on the 4th of June at Weybridge; on the 18th at Chislehurst; on the 22d at Strathfield Turgiss; and on the 30th at Hull.

Syringa in blossom on the 17th of May at Weybridge; on the 20th at Chislehurst; and on the 30th at Strathfield Turgiss.

Acacia in blossom on the 18th of June at Chislehurst.

Wheat in ear on the 17th of June at Cardington; on the 19th at Hull; on the 20th at Llandudno; on the 21st at Helston, Hawarden, and Cockermouth. *In flower* on the 20th of June at Chislehurst; on the 21st at Silloth; on the 24th at Taunton and Weybridge; on the 27th at Cardington; on the 28th at Hawarden; and on the 30th at Helston.

Barley in flower on the 20th of June at Llandudno.

Rye in flower on the 7th of June at Chislehurst.

Oats in flower on the 30th of June at Weybridge.

Cuckoo arrived on the 7th of April at Guernsey; on the 11th at Somerleyton; on the 12th at Osborne; on the 13th at Helston and (near) Brighton; on the 14th at Taunton; on the 15th at South Hill (near) Cardington; on the 18th at Lymington; on the 20th at Weybridge; on the 22d at Truro, Cardington, and Hawarden; on the 24th at Streatley; on the 25th at Llandudno and Miltown; on the 26th at Stonyhurst; on the 27th at Royston, Allenheads, and Silloth; on the 28th at Oxford, Lampeter, Wisbech, and Hull; on the 30th at Carlisle. *Departed* on the 28th of June from Silloth.

Swallow arrived on the 1st of April at Miltown; on the 11th at Helston; on the 14th at Weybridge and Silloth; on the 18th at Cardington; on the 22d at Carlisle; on the 24th at Truro; on the 25th at Hawarden; on the 27th at Royston, Wisbech, and Hull; on the 29th at Brighton and Oxford.

Nightingale arrived on the 11th of April at Lymington; on the 13th at Osborne, and (near) Brighton; on the 17th at Weybridge, Streatley, and Cardington; and on the 22d at Somerleyton. *Departed* on the 10th of June from Weybridge.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING JUNE 30TH, 1872.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the fifth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1872. Months.	Pressure of Atmosphere in Month. Mean.	Pressure Range.	Temperature of Air in Month. Highest.	Lowest.	Range.	Mean Of all Highest.	Mean Of all Lowest.	Mean Daily Range.	Mean Temperature. Air.	Dew Point.	Vapour. Elastic Force.	In a cubic foot of Air. Mean.	Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Minimum on Grass.	Wind. Estimated Strength.	N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Amount collected.
	feet		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S.	204	April	29·704	1·473	60·0	39·0	21·0	53·7	44·0	9·7	48·0	41·9	·265	3·0	0·8	80	542	—	—	1·4	9	7	6	8	4·8	4·2	11	2·33
		May	29·732	0·935	61·0	40·0	21·0	55·3	45·4	9·9	49·5	43·7	·285	3·2	0·7	81	541	—	—	1·2	10	4	6	11	5·7	4·6	15	4·05
		June	29·741	0·800	78·0	45·5	32·5	62·1	51·4	10·7	55·8	50·8	·373	4·2	0·8	84	534	—	—	1·3	7	4	8	11	5·3	4·9	17	3·13
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	April	29·911	1·621	70·0	34·0	36·0	59·0	43·9	15·1	50·1	44·3	·292	3·5	0·8	81	541	81·9	37·7	1·8	9	6	7	8	5·4	4·3	13	3·61
		May	29·947	0·931	68·0	36·0	32·0	60·9	46·1	14·8	52·5	42·4	·275	3·3	1·3	70	538	86·3	41·8	2·2	12	2	5	12	4·7	3·8	16	2·49
		June	29·894	0·935	80·0	46·0	34·0	65·7	52·6	13·1	58·2	48·3	·340	3·8	1·5	69	534	96·1	46·3	2·0	5	2	8	15	5·0	4·3	13	2·55
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	April	29·885	1·573	66·0	30·0	36·0	56·0	40·6	15·4	46·4	41·5	·262	3·1	0·6	84	547	—	—	2·8	13	2	9	6	—	5·8	12	2·77
		May	29·940	0·913	67·0	32·0	35·0	58·3	43·0	15·3	49·5	43·9	·287	3·2	1·0	82	544	—	—	2·6	13	3	2	13	—	6·2	19	2·79
		June	29·921	0·902	80·0	41·0	39·0	64·7	50·7	14·0	55·3	48·3	·340	3·8	1·2	77	538	—	—	2·5	8	4	5	13	—	6·7	16	2·77
SIDMOUTH (Devon), J. Ingleby Mackenzie, Esq., M.B., F.M.S.	30	April	29·900	1·456	61·0	29·7	31·3	54·2	42·0	12·2	47·1	43·3	·280	3·3	0·4	87	546	—	—	1·2	6	6	7	11	—	2·6	11	1·92
		May	29·923	0·971	66·5	34·7	31·8	57·1	43·1	14·0	49·0	44·6	·296	3·4	0·6	85	546	—	—	1·4	6	4	3	18	—	3·4	17	1·58
		June	29·921	0·953	74·2	43·3	30·9	62·9	50·1	12·8	55·6	52·1	·383	4·3	0·7	87	537	—	—	1·6	6	0	9	15	—	3·7	18	3·61
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	April	29·742	1·453	69·8	30·9	38·9	58·6	39·5	19·1	47·6	41·8	·265	3·0	0·7	81	546	94·2	36·6	0·5	7	6	8	9	—	5·1	11	1·05
		May	29·747	0·944	73·8	33·6	40·2	61·3	42·7	18·6	50·5	44·1	·289	3·4	0·8	79	540	100·5	40·7	0·3	8	4	7	12	—	5·8	20	2·28
		June	29·748	0·859	82·7	36·4	46·3	68·4	49·7	18·7	57·3	52·2	·391	4·4	0·9	83	532	106·7	48.6	0·3	3	5	11	11	—	6·4	17	2·40
PORTSMOUTH, William C. Ellis, Esq., F.M.S.	16	Mar.	29·815	1·039	58·0	21·8	36·2	52·2	37·6	14·6	44·6	39·6	·245	2·8	0·5	83	548	88·2	33·9	1·2	6	6	11	8	2·2	6·0	12	1·78
		April	29·924	1·540	67·6	30·4	37·2	58·0	38·5	19·5	47·1	39·5	·242	2·8	0·9	75	547	102·8	34·6	1·1	7	5	10	8	1·9	5·5	13	1·24
		May	29·928	0·947	72·4	32·0	40·4	61·2	41·1	20·1	50·0	41·6	·264	3·0	1·1	73	544	109·3	38·2	1·3	5	4	10	12	2·8	5·7	15	2·50
		June	29·928	0·874	79·0	38·4	40·6	67·9	47·7	20·2	56·4	49·3	·355	4·0	1·1	77	537	115·6	43·3	2·0	0	2	14	14	3·4	6·6	13	2·21
WORTHING (Sussex), W. J. Harris, Esq. M.R.C.S.E., L.S.A.	31	April	29·871	1·482	61·3	34·1	27·2	55·8	42·5	13·3	47·9	41·7	·262	3·0	0·8	80	545	116·6	37·5	1·0	7	5	8	10	4·6	4·6	9	0·51
		May	29·880	0·956	68·0	35·2	32·8	57·9	45·0	12·9	50·5	43·7	·286	3·2	0·9	78	543	121·4	39·7	1·0	7	6	4	14	4·6	5·1	15	2·86
		June	29·879	0·823	72·9	40·4	32·5	64·7	51·8	12·9	57·1	51·0	·367	4·1	1·1	80	535	130·3	47·4	1·3	2	2	11	15	5·2	5·5	13	2·15
BRIGHTON (Sussex), Frederick E. Sawyer, Esq., F.M.S.	200	April	29·704	1·491	62·7	33·6	29·1	54·9	42·4	12·5	47·4	42·2	·268	3·1	0·6	83	542	105·4	37·4	1·1	9	6	7	8	2·3	5·6	9	0·71
		May	29·705	0·933	71·5	32·0	39·5	59·1	45·0	14·1	50·4	45·3	·303	3·5	0·7	83	539	105·5	40·9	1·2	5	4	6	16	1·9	5·9	19	2·67
		June	29·717	0·806	78·0	42·6	35·4	67·7	52·4	15·3	58·1	52·8	·400	4·5	0·9	82	531	115·6	50·2	1·4	2	2	16	10	0·4	5·8	13	2·34
LYMINGTON (Hants), George J. Jones, Esq.	77	April	29·839	1·358	66·9	29·8	37·1	57·9	40·4	17·5	48·8	40·5	·253	2·9	1·0	73	544	—	—	1·0	9	6	10	5	—	3·7	8	1·34
		May	29·851	0·941	71·3	31·6	39·7	59·7	42·9	16·8	51·1	41·7	·264	3·0	1·2	71	541	—	—	0·8	9	5	6	11	—	5·8	16	3·01
		June	29·837	0·846	82·6	36·7	45·9	67·0	49·1	17·9	57·7	48·9	·347	3·8	1·5	72	534	—	—	0·2	3	2	11	14	—	5·2	14	2·80
TAUNTON (Somerset), Rev. W. Tuckwell, F.M.S.	80	April	29·835	1·570	69·9	26·9	43·0	56·8	38·3	18·5	47·1	43·1	·279	3·3	0·4	86	547	72·1	37·4	0·2	10	5	5	11	7·0	3·5	11	3·64
		May	29·857	1·085	73·2	32·2	41·0	60·5	42·0	18·5	50·1	44·7	·297	3·3	0·7	82	543	76·1	39·3	0·3	10	5	0	16	7·0	5·8	16	2·36
		June	29·844	1·124	84·2	36·1	48·1	68·2	47·7	20·5	56·2	51·4	·380	4·3	0·8	84	535	81·3	45·2	0·2	3	1	13	13	7·5	6·0	17	3·29
WILTON HOUSE (near Salisbury), T. Challis, Esq.	186	April	29·718	1·422	69·7	24·2	45·5	59·6	37·2	22·4	48·3	39·4	·244	2·8	1·2	69	541	102·5	34·4	1·2	8	5	9	8	4·6	5·0	11	2·22
		May	29·716	0·977	76·7	29·7	47·0	62·6	40·2	22·4	50·5	46·8	·321	3·7	0·5	88	539	107·2	38·3	1·3	11	4	6	10	4·6	6·4	16	2·81
		June	29·710	0·889	88·5	33·5	55·0	70·4	47·1	23·3	57·5	54·8	·430	4·7	0·6	91	531	114·9	45·3	1·4	7	0	14	9	5·1	6·3	17	3·50
BARNSTAPLE (Devon), T. Mackerell, Esq.	43	April	29·878	1·460	67·5	32·0	35·5	56·6	41·1	15·5	48·0	41·7	·263	3·0	0·8	79	545	—	—	1·2	6	4	10	10	—	4·1	13	2·68
		May	29·878	0·981	68·5	36·0	32·5	60·5	45·2	15·3	51·4	45·5	·306	3·5	0·8	81	541	—	—	1·1	4	2	9	16	—	2·8	12	1·93
		June	[illegible]	[illegible]	73·0	[illegible]	33·0	66·0	51·6	14·4	57·5	52·2	·391	4·3	0·9	83	534	—	—	1·3	0	3	12	15	—	4·9	19	5·32
ALDERSHOT CAMP (Hants), John Arnold, Esq., M.S.C., F.M.S.	325	April	29·545	1·296	69·8	31·4	38·4	58·7	39·3	19·4	47·3	40·8	·250	2·9	0·9	77	540	105·7	37·5	1·6	9	4	7	10	2·8	5·5	15	1·53
		May	29·553	0·974	73·2	32·0	41·2	61·5	43·4	18·1	50·5	42·5	·273	3·1	1·0	74	536	113·9	40·9	1·4	8	4	7	12	2·5	6·9	15	2·68
		June	29·549	0·868	85·4	40·8	44·6	70·8	50·3	20·5	58·7	51·3	·358	4·2	1·2	76	527	117·7	47·7	1·5	3	3	12	12	2·4	7·1	18	2·80
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	April	29·726	1·327	69·2	24·9	44·3	55·9	36·6	21·3	47·1	39·7	·244	2·8	0·9	79	543	109·9	31·5	1·1	9	5	7	8	5·1	5·2	16	2·08
		May	29·696	0·977	73·3	29·0	44·3	61·6	40·8	20·8	49·8	42·2	·269	3·1	1·0	75	540	114·9	35·8	0·8	8	6	5	12	4·8	6·0	19	2·67
		June	29·707	0·896	88·2	34·1	54·1	70·3	47·3	23·0	57·5	50·8	·371	4·2	1·0	79	531	124·4	45·2	0·9	4	3	11	12	5·1	6·0	14	2·26
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	April	29·790	1·361	72·0	26·5	45·5	59·7	38·3	21·4	48·1	40·6	·252	2·9	0·9	75	543	98·8	35·0	0·9	11	4	11	4	1·8	4·8	14	1·10
		May	29·792	0·939	73·5	30·5	43·0	62·4	41·0	21·4	50·6	44·5	·294	3·5	0·8	80	541	104·8	38·6	0·6	8	4	10	6	2·3	6·0	20	3·38
		June	29·788	0·828	88·8	37·3	51·5	71·9	47·5	24·4	58·6	50·7	·380	4·2	1·4	75	532	114·1	45·5	0·6	4	5	12	9	1·7	4·5	14	2·39
MARLBOROUGH COLLEGE (Wilts), Rev. Thomas A. Preston, M.A.	456	April	29·482	1·379	67·6	23·4	44·2	54·9	37·3	17·6	45·1	38·8	·236	2·7	0·7	79	540	113·5	30·7	—	10	6	5	9	3·7	6·3	13	2·00
		May	29·457	0·986	68·8	29·2	39·6	56·9	40·5	16·4	47·4	40·4	·251	2·9	0·9	77	538	123·8	35·0	—	10	5	3	13	3·9	7·5	18	2·30
		June	29·437	0·946	81·7	36·1	45·6	65·3	47·4	17·9	54·8	49·1	·349	4·0	0·9	81	529	130·8	40·8	—	6	0	9	15	2·1	7·2	17	3·41
CHISLEHURST (Heathfield Lodge, Kent), Francis Nunes, Esq., M.A., F.M.S.	295	April	29·558	1·335	73·3	25·5	47·8	59·9	38·7	21·2	47·8	39·8	·245	2·8	1·0	74	546	111·7	33·4	—	9	5	7	9	—	6·3	15	1·22
		May	29·572	0·951	76·4	32·0	44·4	62·9	41·4	21·5	50·6	43·0	·278	3·2	1·0	76	543	118·6	36·2	—	7	5	6	13	—	7·5	18	3·77
		June	29·570	0·827	89·8	37·8	52·0	73·5	48·7	24·8	59·3	52·5	·396	4·4	1·2	78	527	128·7	44·3	—	5	2	10	13	—	7·2	15	1·76
ROYAL OBSERVATORY (Kent), The Astronomer Royal.	159	April	29·735	1·357	69·9	29·6	40·3	59·3	40·1	19·2	48·3	41·0	·257	2·9	0·9	76	542	133·7	21·3	0·4	9	6	7	8	—	5·6	13	0·98
		May	29·736	1·003	73·2	32·6	40·6	62·1	42·5	19·6	50·9	43·6	·284	3·3	0·9	76	539	144·7	25·8	0·3	9	5	6	11	—	6·9	15	3·09
		June	29·735	0·836	86·0	40·6	45·4	71·3	50·0	21·3	59·2	51·1	·375	4·2	1·4	75	530	128·7	43·9	0·4	3	3	10	14	—	6·5	15	1·64
THE GUILDHALL (London), William Haywood, Esq.		April	29·686	1·285	68·2	37·0	31·2	57·3	44·5	12·8	50·1	40·7	·256	2·9	1·2	69	540	—	—	—	—	—	—	—	—	—	—	—
		May	29·661	1·004	70·0	38·0	32·0	60·3	48·5	11·8	53·4	42·5	·272	3·1	1·5	67	535	—	—	—	—	—	—	—	—	—	15	2·85
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.A.S.	150	April	29·809	1·470	70·9	27·5	43·4	59·2	38·0	21·2	48·1	39·6	·243	2·8	1·0	78	544	69·1	32·7	1·8	11	4	5	10	—	5·1	14	1·87
		May	29·795	0·988	74·0	31·6	42·4	61·7	42·0	19·7	51·0	44·4	·291	3·4	0·9	78	540	72·6	36·6	2·0	8	6	5	12	—	6·2	17	2·28
		June	29·763	0·954	85·4	37·8	48·6	70·4	47·4	23·0	58·5	49·7	·359	4·0	1·5	78	531	81·5	—	2·3	5	0	10	15	—	6·1	17	2·43
ST. JOHN'S COLLEGE, BATTERSEA, Rev. J. P. Faunthorpe, B.A., F.R.G.S.	13	April	29·852	1·365	68·0	27·0	41·0	57·7	38·1	19·6	47·1	42·0	·267	3·1	0·6	83	545	84·3	35·9	1·7	2	2	16	10	—	6·0	14	1·32
		May	29·876	1·006	70·4	31·7	38·7	59·6	40·4	19·2	49·3	44·9	·299	3·5	0·7	88	544	92·6	38·8	1·8	0	2	17	12	—	6·6	15	3·63
		June	29·843	1·772	85·0	38·0	47·0	68·6	48·5	20·1	57·5	52·7	·399	4·4	0·9	84	533	109·2	46·6	1·6	0	0	20	10	—	6·5	13	2·34
MARYLEBONE (London), Henry E. Segrave, Esq., F.M.S.	146	April	—	1·414	71·0	30·0	41·0	59·2	39·8	19·4	48·4	40·7	·254	2·9	1·0	75	545	—	—	0·4	10	1	8	11	—	5·8	17	1·55
		May	—	0·351	75·2	31·0	44·2	61·7	42·3	19·4	50·7	42·3	·271	3·1	1·0	75	543	—	—	0·3	9	5	6	11	—	6·5	20	3·74
		June	—	0·851	85·7	39·0	46·7	71·2	50·1	21·1	59·2	48·9	·347	3·9	1·8	69	533	—	—	—	4	1	11	14	—	5·8	15	3·01
CAMDEN TOWN (London), G. J. Symons, Esq., F.M.S.	123	April	29·782	1·355	70·2	29·4	40·8	60·1	40·4	19·7	49·3	51·4	·282	3·0	1·0	75	542	98·2	36·8	—	11	4	8	7	—	5·2	16	1·39
		May	29·784	0·991	75·9	33·2	42·7	62·9	43·6	19·3	51·9	44·1	·289	3·3	1·1	75	539	108·5	40·5	—	6	3	8	14	—	6·3	18	3·05
		June	29·778	0·865	85·9	40·6	45·3	71·7	50·1	21·6	59·2	49·3	·350	3·9	1·7	70	521	114·9	48·2	—	3	2	10	16	—	5·4	15	2·55
OXFORD (Oxfordshire), Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	April	29·699	1·379	67·8	28·6	39·2	57·1	40·0	17·1	47·3	39·7	·244	2·8	1·0	75	543	109·0	33·5	1·2	9	4	7	10	2·2	7·0	13	1·85
		May	29·684	1·014	71·6	31·0	40·6	59·4	42·7	16·7	50·0	41·8	·265	3·0	1·0	74	543	111·3	34·5	1·0	9	2	7	13	2·7	8·0	19	2·55
		June	29·664	0·933	85·4	37·8	47·6	68·7	50·3	18·4	58·0	50·8	·372	4·2	1·2	77	533	118·1	41·5	1·1	2	1	15	12	2·0	7·7	15	2·59
GLOUCESTER (Gloucester), E. Toller, Esq., M.D.	100	April	29·857	1·387	72·3	31·7	40·6	58·6	38·9	19·7	48·6	40·1	·269	3·1	0·8	79	545	103·7	39·4	0·9	9	5	6	10	2·5	5·3	15	2·95
		May	29·844	1·033	75·2	31·5	43·7	63·5	43·2	20·3	50·3	41·5	·262	3·0	1·0	72	544	111·6	45·4	0·8	9	5	5	12	1·6	6·9	16	1·24
		June	29·838	1·012	89·0	37·0	52·0	70·6	50·3	20·3	57·6	49·2	·332	3·9	1·1	73	534	116·3	50·9	0·7	5	2	8	15	3·4	6·8	18	4·07
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	April	29·618	1·352	74·8	26·8	48·0	59·2	38·3	20·9	47·4	39·8	·245	2·9	0·9	76	541	—	—	—	8	3	10	9	—	5·3	15	1·81
		May	29·648	0·995	77·8	31·3	46·5	63·1	41·0	22·1	49·8	43·8	·286	3·3	0·8	80	539	—	—	—	9	2	6	14	—	6·6	19	2·75
		June	29·647	0·890	88·0	38·6	49·4	71·2	48·4	22·8	57·8	51·2	·376	4·2	1·1	79	530	—	—	—	0	2	13	15	—	6·6	17	2·70
CARDINGTON (near Bedford), Mr. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	100	April	29·806	1·380	72·0	26·0	46·0	58·3	38·7	19·6	48·0	42·8	·273	3·2	0·6	83	544	81·8	31·1	0·9	11	6	7	6	—	6·0	13	1·90
		May	29·814	1·041	74·0	31·0	43·0	62·4	42·0	20·4	50·7	45·0	·300	3·4	0·7	80	541	97·4	35·8	1·0	10	1	6	14	—	6·8	13	2·08
		June	29·771	0·917	88·0	37·0	49·0	71·8	48·8	23·0	59·2	51·4	·381	4·3	1·4	76	531	103·0	44·0	0·9	4	2	13	11	—	5·5	14	2·30
ST. DAVID'S COLLEGE, LAMPETER (Cardiganshire), Prof. A. W. Scott.	420	Mar	29·299	1·085	66·0	25·5	40·5	54·5	36·6	17·9	44·2	38·3	·232	2·6	0·6	80	546	82·8	—	—	4	6	13	7	—	—	23	3·98
		April	29·522	1·356	65·5	28·0	38·5	58·3	34·7	23·6	46·8	37·7	·226	2·6	1·0	71	540	105·2	—	—	6	4	13	7	—	—	12	2·42
LEAMINGTON (Warwickshire), S. Urwick Jones, Esq., F.M.S.	195	April	29·698	1·329	68·0	31·2	36·8	57·5	39·7	17·8	47·4	37·6	·243	2·8	0·9	75	542	—	—	2·3	8	6	5	11	—	5·5	14	1·80
		May	29·703	1·023	71·3	31·5	39·8	59·9	42·7	17·2	49·9	41·9	·267	3·2	0·8	84	540	—	—	0·8	7	5	5	14	—	7·6	16	1·36
		June	29·648	0·909	84·6	36·7	47·9	68·9	49·5	19·4	58·0	48·5	·342	3·8	1·6	71	530	—	—	0·8	5	2	9	14	—	6·8	18	4·04

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1872. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	50	April	29·837	1·337	67·3	27·2	40·1	57·2	38·9	18·3	46·7	43·9	·289	3·2	0·5	91	546	103·4	29·5	1·0	6	9	8	7	7·3	4·8	13	2·45
		May	29·839	1·090	73·4	32·0	41·4	60·6	41·4	19·2	49·5	44·9	·299	3·5	0·5	87	543	107·0	33·1	1·0	6	10	8	7	6·9	4·8	18	2·60
		June	29·849	0·805	82·3	41·3	41·0	68·4	49·6	18·8	57·3	52·4	·387	4·4	0·9	83	534	112·8	41·7	1·0	3	7	9	11	6·4	4·6	14	2·35
NORWICH (Norfolk), C. M. Gibson, Esq., F.M.S.	42	April	29·845	1·326	68·0	27·0	41·0	56·6	38·6	18·0	46·6	41·0	·258	3·0	0·7	82	546	–	–	–	8	5	9	8	–	–	10	2·13
		May	29·844	1·092	74·0	33·0	41·0	60·9	41·3	19·6	49·9	43·7	·286	3·3	0·8	80	542	–	–	–	9	4	9	9	–	–	15	1·74
		June	29·843	0·843	82·5	40·0	42·5	69·2	49·2	20·0	57·9	51·0	·374	4·2	1·2	78	533	–	–	–	4	3	10	13	–	–	18	2·46
WISBECH (Cambridgeshire), S. H. Miller, Esq., F.R.A.S., F.M.S.	14	April	29·871	1·354	72·8	30·2	42·6	58·4	39·4	19·0	48·2	42·3	·270	3·1	0·9	80	545	109·8	35·8	0·7	7	6	8	9	3·0	5·9	16	4·06
		May	29·871	1·089	73·1	32·2	40·9	62·0	42·4	19·6	51·2	44·7	·297	3·4	0·9	79	541	114·4	39·0	0·6	7	4	8	12	3·3	6·5	17	2·15
		June	29·855	0·902	84·0	38·1	45·9	70·2	49·6	20·6	58·4	52·9	·397	4·5	0·9	82	533	121·1	46·3	0·6	2	6	12	10	3·6	5·6	15	2·98
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	100	April	29·811	1·312	67·2	32·5	34·7	56·4	41·7	14·7	48·0	40·0	·247	2·8	1·0	74	544	–	–	0·6	9	6	4	11	–	5·9	9	2·18
		May	29·778	1·159	68·2	35·3	32·9	59·3	44·4	14·9	50·4	43·0	·278	3·2	1·0	77	541	–	–	0·7	8	4	3	16	–	7·5	17	2·02
		June	29·761	1·041	78·7	39·8	38·9	66·3	50·0	16·3	56·3	49·9	·361	4·0	1·0	79	533	–	–	0·5	2	0	6	22	–	6·8	24	5·20
DERBY (Derbyshire), John Davis, Esq.	174	April	29·693	1·332	70·0	31·0	39·0	56·4	40·0	16·4	46·5	41·5	·267	3·0	0·7	89	543	–	–	–	9	5	5	11	–	–	14	2·24
		May	29·690	1·071	71·0	32·0	39·0	59·6	42·8	16·8	49·1	44·7	·298	3·4	0·6	86	543	–	–	–	8	4	5	14	–	–	16	1·63
		June	29·654	0·981	84·0	37·0	47·0	67·9	49·6	18·3	56·4	52·1	·391	4·4	0·6	86	531	–	–	–	3	1	12	14	–	–	18	5·27
NOTTINGHAM (Notts), M. O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	241	April	29·620	1·284	71·6	32·3	39·3	55·1	37·3	18·8	47·1	40·7	·254	2·9	0·8	79	541	105·4	28·4	0·7	6	6	6	12	3·1	5·6	15	2·70
		May	29·624	1·072	74·4	29·5	44·9	61·7	41·0	20·7	50·0	43·3	·279	3·2	0·9	78	538	115·8	31·4	0·5	4	5	9	13	2·3	7·2	15	1·68
		June	29·591	0·875	86·1	37·2	48·9	71·4	48·6	22·8	58·5	49·4	·354	3·9	1·6	72	528	124·2	39·2	0·4	0	2	12	16	3·1	5·9	17	2·93
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	39	April	29·859	1·257	71·6	25·8	44·8	55·9	39·2	16·7	46·8	39·6	·244	2·9	0·8	77	546	117·2	34·3	1·3	8	6	11	5	–	5·7	6	2·60
		May	29·834	1·112	68·2	31·0	37·2	59·0	40·9	18·1	49·2	41·3	·261	2·9	1·1	74	543	123·5	36·7	1·3	12	3	9	7	–	6·2	12	1·60
HAWARDEN (Flint), T. Moffat, Esq., M.D., F.R.A.S.	270	April	29·611	1·304	66·5	34·0	32·5	55·2	48·1	7·1	47·4	42·8	·275	3·2	0·5	86	541	101·7	21·9	2·4	10	4	8	8	1·7	6·1	15	3·40
		May	29·622	1·134	68·5	35·5	33·0	56·6	45·6	11·0	49·0	41·1	·259	2·9	0·9	74	539	120·2	23·6	2·0	11	4	3	13	1·1	5·1	20	1·93
		June	29·576	1·098	80·0	39·0	41·0	64·0	55·5	10·5	56·8	52·2	·394	4·3	0·8	84	530	124·5	31·0	2·4	6	2	11	11	1·0	7·0	24	4·63
LIVERPOOL OBSERVATORY, John Hartnup, Esq., F.R.A.S.	197	April	29·750	1·254	67·2	33·5	33·7	54·0	41·1	12·9	46·4	40·0	·248	2·9	0·7	80	545	–	–	1·3	6	7	5	12	–	6·0	12	2·69
		May	29·708	1·099	68·0	34·8	33·2	57·1	44·0	13·1	49·1	41·6	·264	3·0	1·0	76	541	–	–	1·2	5	6	4	16	–	6·3	20	1·50
		June	29·654	1·077	80·7	38·1	42·6	63·9	50·4	13·5	55·6	49·9	·262	4·0	0·9	82	532	–	–	1·2	2	5	9	14	–	6·7	22	4·31
ECCLES, near Manchester, T. Mackereth, Esq., F.R.A.S., F.M.S.	145	April	29·748	1·222	69·5	30·0	39·5	55·4	38·4	17·0	46·3	39·1	·239	2·8	0·9	77	545	67·6	20·6	0·6	7	5	8	10	3·7	3·8	14	3·00
		May	29·738	1·126	71·5	30·0	41·5	57·5	41·1	16·4	48·6	41·5	·262	3·0	0·9	77	542	70·6	33·4	0·3	10	3	4	14	2·7	6·1	23	2·55
		June	29·691	0·976	82·5	33·3	49·2	65·9	48·5	17·4	56·0	48·8	·345	3·9	1·1	77	533	81·3	40·7	0·3	6	3	8	13	2·6	5·7	24	5·40
MOOR SIDE OBSERVATORY, HALIFAX, (Yorkshire), Louis J. Crossley, Esq., F.M.S.	457	April	29·340	1·246	67·5	28·5	39·0	53·6	36·9	16·7	43·9	38·9	·238	2·8	0·5	83	540	100·0	32·9	–	9	5	5	11	3·7	7·1	16	3·79
		May	29·331	1·101	67·6	28·1	39·5	56·5	36·8	19·7	45·6	40·8	·254	3·0	0·6	84	538	107·0	34·5	1·3	8	5	6	12	1·8	7·7	18	2·18
		June	29·257	1·024	82·8	37·0	45·8	66·5	47·1	19·4	54·5	49·1	·349	3·9	0·9	81	527	116·8	43·0	1·0	6	5	6	13	3·3	8·1	21	4·53
PARK ROAD OBSERVATORY (Halifax, Yorkshire), Edward Crossley, Esq., F.R.A.S.	618	April	29·229	1·207	66·0	28·0	38·0	52·7	37·2	15·5	42·7	36·7	·218	2·5	0·6	80	539	90·6	33·1	0·5	7	7	5	11	–	6·5	12	4·46
		May	29·236	1·090	67·5	32·4	35·1	56·3	40·3	16·0	47·1	40·7	·252	2·9	0·8	79	534	94·0	35·7	–	–	–	–	–	–	6·8	13	2·94
		June	29·168	1·036	82·0	37·0	45·0	64·9	46·4	18·5	53·8	44·9	·296	3·4	1·2	72	526	107·5	42·8	0·4	4	4	6	16	–	7·5	21	6·33
THE PARK, HULL (Yorkshire), Mr. E. Peak.	12	April	29·873	1·236	69·0	28·0	41·0	55·4	38·5	16·9	45·5	40·5	·255	2·9	0·6	84	548	82·2	35·4	–	–	–	–	–	5·0	–	14	2·59
		May	29·870	1·142	73·0	30·0	43·0	60·1	40·0	20·1	49·0	43·2	·280	3·2	0·8	80	544	90·0	36·5	–	–	–	–	–	2·8	–	14	1·71
		June	29·840	0·996	81·0	40·0	41·0	68·8	48·4	20·4	56·6	51·0	·375	4·2	0·9	81	535	99·9	45·8	–	–	–	–	–	2·5	–	14	2·18
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.A.S., F.M.S.	381	April	29·477	1·267	65·4	30·2	35·2	54·5	39·0	15·5	45·3	39·3	·240	2·8	0·6	80	541	110·6	34·3	–	7	6	6	11	–	6·4	20	3·68
		May	29·445	1·130	67·0	32·7	34·3	56·7	42·1	14·6	47·8	42·0	·264	3·2	0·7	82	538	113·8	37·9	–	6	3	2	20	–	7·9	28	3·20
		June	29·390	1·037	81·5	34·7	46·8	65·2	49·5	15·7	55·0	50·7	·369	4·2	0·8	86	528	121·2	46·4	–	1	2	7	20	–	8·0	25	5·04

Note.—The Barometer Reading, June 29, p.m., The Park, Hull, 29·040 in., has been altered to 29·049 in.

	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	366	April	29·442	1·189	66·0	32·0	34·0	55·5	40·3	15·2	46·4	38·3	·232	2·6	1·0	74	539	81·6	–	1·1	–	–	–	–	–	5·0	13	4·75
		May	29·540	0·989	69·0	35·0	34·0	59·2	45·0	14·2	50·7	40·4	·252	2·9	1·6	68	536	84·4	–	1·3	–	–	–	–	–	5·6	11	1·09
		June	29·412	0·809	83·2	41·4	41·8	68·4	51·3	17·1	58·0	48·9	·347	3·9	1·5	72	526	91·5	–	1·0	–	–	–	–	–	6·0	15	5·32
LEEDS PHILOSOPHICAL HALL (Yorkshire). Louis C. Miall, Esq.	137	April	29·740	1·244	72·0	31·0	41·0	57·3	39·0	18·3	46·9	39·6	·245	2·9	0·7	78	544	–	–	1·7	8	5	7	10	–	8·1	16	3·33
		May	29·734	1·130	74·0	31·0	43·0	61·0	41·6	19·4	49·9	43·3	·281	3·2	0·8	79	540	–	–	1·5	6	6	4	15	–	7·8	11	1·27
		June	29·685	1·051	89·0	38·0	51·0	70·5	49·4	21·1	58·0	49·8	·357	4·0	1·4	74	531	80·0	–	1·3	5	1	10	14	–	8·1	19	4·56
YORK (Yorkshire). J. F. Fryer, Esq.	50	April	29·795	1·245	67·5	30·0	37·5	53·0	39·8	13·2	46·0	42·4	·272	3·2	0·4	88	546	–	–	–	7	4	9	10	–	7·6	17	2·86
		May	29·791	1·111	67·5	32·0	35·5	56·2	42·5	13·7	48·8	43·6	·285	3·3	0·5	83	544	–	–	–	–	–	–	–	–	–	9	1·02
		June	29·752	0·991	83·0	39·0	44·0	65·0	50·8	14·2	56·5	–	–	–	–	–	–	–	–	–	2	5	13	10	–	–	17	5·42
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.R.A.S., F.M.S.	148	April	29·668	1·220	64·3	31·0	33·3	53·3	40·0	13·3	46·0	39·3	·242	2·8	0·7	78	544	88·4	31·4	0·5	7	7	10	7	2·6	6·1	11	1·50
		May	29·713	1·218	63·6	33·8	29·8	57·0	43·1	13·9	48·4	43·2	·279	3·3	0·6	83	542	101·1	37·1	0·5	8	6	7	10	2·8	6·7	16	2·92
		June	29·646	1·118	80·3	38·7	41·6	64·5	50·2	14·3	55·7	49·9	·361	4·0	0·9	81	532	107·6	45·1	0·4	4	4	7	15	1·5	7·2	15	4·59
ALLENHEADS (Northumberland), Mr. S. Stobbs, Assistant to W. B. Beaumont, Esq., M.P.	1360	April	28·377	1·131	56·2	27·2	29·0	49·0	35·6	13·4	40·6	36·5	·216	2·6	0·4	86	526	95·5	33·6	0·2	–	–	–	–	–	6·5	15	5·13
		May	28·390	1·172	61·8	31·0	30·8	52·8	38·8	14·0	43·5	39·3	·241	2·7	0·5	85	523	109·1	36·5	0·2	–	–	–	–	–	6·9	21	4·44
		June	28·329	0·895	74·8	35·0	39·8	62·8	46·4	16·4	52·0	46·7	·320	3·6	0·8	82	512	117·3	44·5	0·2	–	–	–	–	–	7·9	22	4·20
SILLOTH RECTORY (Cumberland), Rev. Francis Redford, M.A., F.R.A.S., F.M.S.	28	April	29·849	1·305	65·0	30·5	34·5	56·1	39·5	16·6	46·5	39·3	·241	2·8	0·9	77	546	88·6	35·3	1·2	9	4	3	14	7·8	5·3	10	1·31
		May	29·833	1·253	66·7	32·6	34·1	59·4	42·7	16·7	49·4	43·2	·280	3·2	1·0	78	543	96·2	39·0	1·2	3	8	4	16	8·9	6·3	18	2·23
		June	29·758	1·094	81·8	40·0	41·8	67·2	49·6	17·6	56·4	50·1	·364	4·1	1·0	80	533	99·9	46·2	0·9	1	4	8	17	8·2	6·7	19	4·66
CARLISLE (Cumberland), J. Cartmell, Esq., F.M.S.	114	April	29·763	1·176	66·8	28·6	38·2	55·2	39·1	16·1	45·3	41·5	·260	2·9	0·5	84	546	89·5	33·1	2·2	5	6	6	13	7·5	6·4	18	1·28
		May	29·731	1·231	66·3	31·6	34·7	57·3	41·7	15·6	48·1	45·2	·300	3·5	0·5	90	542	95·5	36·0	2·0	6	2	4	19	7·6	7·3	22	2·24
		June	29·677	1·031	83·3	36·8	46·5	66·1	48·8	17·3	55·5	52·5	·397	4·4	0·5	90	533	99·9	44·0	1·5	3	2	6	19	6·7	7·6	21	4·05
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	April	29·734	1·177	66·0	34·0	32·0	54·3	41·2	13·1	45·7	38·6	·232	2·7	0·8	77	545	66·7	34·9	1·3	7	9	2	12	–	5·3	17	3·80
		May	29·734	1·163	68·0	36·0	32·0	57·9	44·7	13·2	49·6	41·9	·267	3·0	1·0	75	541	75·1	37·8	1·2	7	7	4	13	–	4·8	23	1·73
NORTH SHIELDS (Northumberland). Robert Spence, Esq.	124	April	29·799	1·207	63·6	33·0	30·6	52·0	39·4	12·6	44·5	38·2	·231	2·6	0·7	88	548	–	37·4	2·1	7	8	7	8	–	6·4	13	1·94
		May	29·775	1·202	67·0	34·2	32·8	54·7	42·0	12·7	47·2	40·0	·247	2·9	0·9	77	544	–	41·0	1·7	8	6	3	14	–	6·7	21	1·96
		June	29·734	0·911	71·0	39·8	31·2	62·6	49·0	13·6	54·5	48·4	·338	3·8	1·0	79	535	–	48·2	1·6	5	4	8	13	–	7·3	19	2·95
MILTOWN (Banbridge, Ireland), John Smyth, Esq., jun., M.A., M.I.C.E.I.	200	April	29·725	1·203	62·0	30·0	32·0	53·3	39·3	14·0	45·7	38·8	·237	2·7	0·8	78	545	90·8	35·6	2·4	7	3	14	6	4·7	5·7	15	4·17
		May	29·659	1·213	64·0	32·0	32·0	56·0	41·3	14·7	48·3	42·6	·275	3·2	0·7	81	540	100·2	38·3	2·0	9	2	6	14	3·6	6·3	11	2·65
		June	29·570	0·984	74·0	38·0	36·0	63·0	48·2	14·8	54·4	47·3	·325	3·7	1·2	77	532	110·3	46·0	1·9	3	2	18	7	2·9	6·4	21	3·61
CULLODEN (Inverness, Scotland), A. Forbes, Esq., F.M.S.	104	April	29·758	0·917	57·0	33·9	23·1	49·3	41·2	8·1	45·2	39·0	·229	2·8	0·8	79	546	88·0	33·8	0·5	7	6	7	10	8·8	5·4	16	0·92
		May	29·733	1·227	58·5	35·9	22·6	51·1	43·6	7·5	47·2	41·4	·261	3·0	0·7	81	543	91·8	37·0	–	8	5	8	10	8·9	5·8	20	3·63
		June	29·623	0·911	67·7	43·8	23·9	59·4	50·7	8·7	44·2	49·4	·351	4·0	0·9	81	533	123·0	53·4	0·3	4	7	7	12	8·4	6·6	21	4·94

Second Rain-gauges are placed—

				April.	May.	June.	Total during the Quarter,
At Eastbourne, at the height of 4 feet *above the ground*, the amount collected was				inches.	inches.	inches.	inches.
" Portsmouth,	"	20 feet	" "	1·17 "	2·35 "	2·01 "	5·53 "
" Strathfield Turgiss,	"	38 feet	" "	1·74 "	2·22 "	1·82 "	5·78 "
" Eccles, Manchester,	"	34 feet	" "	2·59 "	2·18 "	4·76 "	9·53 "
" Allenheads,	"	6¾ feet	" "	5·90 "	4·44 "	4·38 "	14·72 "
" Carlisle,	"	3 feet	" "	2·98 "	3·10 "	3·23 "	9·31 "
" Miltown, Ireland,	"	40 feet	" "	3·92 "	2·52 "	3·13 "	9·57 "
" Brighton,	"	35 feet	" "	0·53 "	2·30 "	1·84 "	4·67 "
" Radcliffe Observatory,	"	22 feet	" "	1·82 "	2·55 "	2·49 "	6·86 "
" Marlborough College,	"	8 inches	" "	1·90 "	2·12 "	3·23 "	7·25 "
" "	"	1 foot	" "	1·85 "	2·14 "	3·28 "	7·27 "
" Cardington,	"	36 feet	" "	1·30 "	1·50 "	2·00 "	4·80 "
" Boston,	"	6 feet	" "	— "	— "	— "	— "
" Nottingham,	"	25½ feet	" "	2·52 "	1·64 "	2·85 "	7·01 "
" Wisbech,	"	8 feet	" "	3·89 "	2·08 "	2·86 "	8·83 "
" Aldershot Camp,	"	25 feet	" "	1·16 "	1·98 "	2·04 "	5·18 "
" Cockermouth,	"	6½ feet	" "	1·50 "	2·84 "	4·50 "	8·84 "
" Holkham,	"	4 feet	" "	2·08 "	1·60 "	— "	— "

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·638	78·0	39·0	39·0	57·0	46·9	24·8	10·1	51·1	45·5	·308	3·5	0·8	82	539	—	—	1·3	9	5	7	10	5·3	4·6	53	9·[illegible]
Helston	29·729	80·0	34·0	56·0	61·8	47·5	34·0	14·3	53·6	45·0	·302	3·5	1·2	73	538	88·1	41·9	2·0	9	3	7	12	5·0	4·1	42	8·[illegible]
Truro	29·662	80·0	30·0	50·0	59·7	44·8	36·7	14·9	50·4	43·6	·300	3·4	0·9	81	543	—	—	2·6	11	3	5	11	—	6·2	47	7·[illegible]
Sidmouth	29·628	74·2	29·7	44·5	58·1	45·1	31·3	13·0	50·6	46·7	·320	3·7	0·6	86	543	—	—	1·3	6	3	6	15	—	3·2	46	7·[illegible]
Osborne	29·613	82·7	30·9	51·8	62·8	44·0	41·8	18·8	51·8	46·0	·315	3·6	0·8	81	539	100·5	42·0	0·4	6	5	9	11	—	5·8	48	6·[illegible]
Portsmouth	29·652	79·0	30·4	48·6	62·4	42·4	39·4	20·0	51·2	43·5	·287	3·3	1·0	75	543	109·2	38·7	1·5	4	4	11	11	2·7	5·9	41	5·[illegible]
Worthing	29·598	72·9	34·1	38·8	59·5	46·4	30·8	13·1	51·8	45·5	·305	3·4	0·9	79	541	132·8	41·5	1·1	5	4	8	13	4·8	5·1	37	5·[illegible]
Brighton	29·602	78·0	32·0	46·0	60·6	46·6	34·7	14·0	52·0	46·8	·324	3·7	0·7	83	537	108·8	42·8	1·2	5	4	10	11	1·5	5·8	41	6·[illegible]
Lymington	29·637	82·6	29·8	52·8	61·5	43·1	40·9	17·4	52·5	43·7	·288	3·2	1·2	72	540	—	—	0·7	7	4	9	10	—	4·8	38	8·[illegible]
Taunton	29·613	84·2	26·9	57·3	61·8	42·7	44·0	19·1	51·1	46·4	·319	3·6	0·6	84	542	76·5	40·6	0·2	8	4	6	13	7·2	5·1	44	8·[illegible]
Wilton House	29·580	88·5	24·2	64·3	64·2	41·5	49·2	22·7	52·1	47·0	·332	3·7	0·8	83	537	108·2	39·3	1·3	9	3	10	9	4·8	5·9	44	8·[illegible]
Barnstaple	29·598	79·0	32·0	47·0	61·0	46·0	35·3	15·0	52·3	46·5	·320	3·6	0·8	81	540	—	—	1·2	3	3	10	14	—	3·9	44	7·[illegible]
Aldershot Camp	29·604	85·4	31·4	54·0	63·7	44·3	41·4	19·4	52·2	44·7	·294	3·4	1·0	76	534	112·4	42·0	1·5	7	4	9	11	2·5	6·8	48	7·[illegible]
Strathfield Turgiss	29·629	88·2	24·9	63·3	62·6	40·9	47·6	21·7	51·5	44·2	·295	3·4	1·0	78	538	116·4	37·5	0·9	7	5	8	11	5·0	5·7	49	6·[illegible]
Weybridge Heath	29·644	88·8	26·5	62·3	64·7	42·3	46·7	22·4	52·4	45·3	·309	3·5	1·0	77	539	115·9	39·7	0·7	8	4	11	6	1·9	5·1	48	7·[illegible]
Marlborough College	29·656	81·7	23·4	58·3	59·0	41·7	43·1	17·3	49·1	42·8	·279	3·2	0·8	79	563	122·7	35·5	—	9	4	6	12	3·2	7·0	48	6·[illegible]
Chislehurst	29·597	89·8	25·5	64·3	65·4	42·9	48·1	22·5	52·6	45·1	·306	3·5	1·1	76	539	119·7	38·0	—	7	4	8	12	—	—	48	5·[illegible]
Royal Observatory	29·603	86·0	29·6	56·4	64·2	44·2	42·1	20·0	52·8	45·2	·305	3·5	1·1	75	537	135·7	30·3	0·4	7	5	8	11	—	6·3	43	6·[illegible]
Streatley Vicarage	29·657	86·4	27·5	58·9	63·8	42·5	43·8	21·3	52·9	44·2	·298	3·4	1·1	75	538	74·4	—	2·0	8	3	7	12	—	5·8	48	7·[illegible]
St. John's Battersea	29·539	85·0	27·0	58·0	62·0	42·3	42·2	19·7	51·3	46·5	·322	3·7	0·7	85	541	95·4	41·4	1·7	1	1	18	11	—	6·4	42	8·[illegible]
Marylebone	—	85·7	30·0	55·7	64·0	44·1	44·0	19·9	52·8	44·0	·291	3·3	1·3	73	540	—	—	—	8	2	8	12	—	6·0	52	6·[illegible]
Camden Town	29·617	85·9	29·4	56·5	64·9	44·7	41·9	20·2	53·5	48·3	·300	3·4	1·3	73	534	107·2	41·8	—	6	3	9	12	—	5·6	49	6·[illegible]
Oxford	29·615	85·4	28·6	56·8	61·7	44·3	42·5	17·4	51·8	44·1	·294	3·3	1·1	75	540	112·8	36·5	1·1	7	2	10	12	2·3	7·6	47	8·[illegible]
Gloucester	29·622	89·0	31·5	57·5	64·2	44·1	45·4	20·1	52·2	43·6	·294	3·3	1·0	75	541	100·5	45·2	0·8	8	4	6	12	2·5	6·3	49	7·[illegible]
Royston	29·626	88·0	26·8	61·2	64·5	42·6	48·0	21·9	51·7	44·9	·302	3·5	0·9	78	537	—	—	—	6	2	10	13	—	6·2	51	7·[illegible]
Leamington	29·613	84·6	31·2	53·4	62·1	44·0	41·5	18·1	51·8	43·3	·284	3·3	1·1	77	537	—	—	1·3	7	4	6	13	—	6·6	48	7·[illegible]
Somerleyton Rectory	29·572	82·3	27·2	55·1	62·1	43·3	40·8	18·8	51·2	47·1	·325	3·7	0·6	87	541	107·7	34·8	1·0	5	9	8	8	6·9	4·7	45	6·[illegible]
Norwich	29·592	82·5	27·2	55·3	62·2	43·0	41·5	19·2	51·5	45·2	·306	3·5	0·9	80	540	—	—	—	7	4	9	10	—	—	43	9·[illegible]
Wisbech	29·569	84·0	30·2	53·8	63·5	43·8	43·1	19·7	52·9	46·6	·321	3·7	0·9	80	540	115·1	40·4	0·6	6	5	9	10	3·3	6·0	48	9·[illegible]
Llandudno	29·603	78·7	32·5	46·2	60·7	45·4	35·5	15·3	51·6	44·3	·289	3·3	1·0	77	539	—	—	0·6	6	4	4	16	—	6·7	50	9·[illegible]
Derby	29·547	84·0	31·0	53·0	61·3	44·1	41·6	17·2	50·7	46·1	·319	3·6	0·6	87	539	—	—	—	7	3	7	13	—	—	48	9·[illegible]
Hawarden	29·585	80·0	34·0	46·0	58·6	49·1	35·5	9·5	51·1	45·4	·309	3·5	0·7	81	537	115·5	25·5	2·3	9	3	7	11	1·3	6·1	59	10·[illegible]
Eccles	29·603	82·5	30·0	52·5	59·6	42·7	43·4	16·9	50·3	43·1	·282	3·2	1·0	77	540	73·2	34·9	0·4	8	4	7	12	3·0	5·2	61	10·[illegible]
Moorside Observatory	29·527	82·8	28·1	54·7	58·9	40·3	41·4	18·6	48·0	42·9	·280	3·2	0·7	83	535	107·9	36·8	—	8	5	6	12	2·9	7·6	55	12·[illegible]
Park Road	29·626	82·0	28·0	54·0	58·0	41·3	39·4	16·7	47·9	40·8	·255	2·9	0·9	77	533	97·7	37·3	—	—	—	—	—	—	6·9	46	6·[illegible]
Hull	29·569	81·0	28·0	53·0	61·4	42·3	41·7	19·1	50·4	43·9	·303	3·4	0·8	82	542	90·7	39·2	—	—	—	—	—	3·4	—	42	11·[illegible]
Stonyhurst	29·553	81·5	30·2	51·3	58·8	43·5	38·8	15·3	49·4	44·0	·291	3·4	0·7	83	536	115·2	39·5	—	5	4	5	17	—	7·4	73	11·[illegible]
Bradford	29·576	83·2	32·0	51·2	61·0	45·5	36·6	15·5	51·7	42·9	·277	3·1	1·4	71	524	85·8	—	1·1	—	—	—	—	—	5·5	39	9·[illegible]
Leeds	29·567	89·0	31·0	58·0	62·9	43·3	45·0	19·6	51·6	44·2	·294	3·1	1·0	77	538	—	—	1·5	6	4	7	13	—	8·0	46	9·[illegible]
York	—	83·0	30·0	53·0	58·1	44·4	39·0	13·7	50·4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	43	9·[illegible]
Cockermouth	29·541	80·3	31·0	49·3	58·3	44·4	34·9	13·8	50·0	44·1	·294	3·4	0·7	81	539	99·0	37·9	0·5	6	6	8	11	2·3	6·7	42	8·[illegible]
Silloth	29·548	81·8	30·5	51·3	60·9	43·9	36·8	17·0	50·8	44·2	·295	3·4	1·0	78	541	94·9	40·2	1·1	4	5	5	16	8·3	6·1	47	7·[illegible]
Carlisle	29·529	83·3	28·6	54·7	59·5	43·2	39·8	16·3	49·6	46·4	·319	3·6	0·5	88	540	95·0	37·7	1·9	5	3	5	17	7·3	7·1	61	6·[illegible]
North Shields	29·631	71·0	33·0	38·0	55·4	43·5	31·5	12·9	48·7	42·2	·272	3·1	0·9	81	542	—	42·2	1·8	7	6	6	12	—	6·8	53	6·[illegible]
Miltown (Ireland)	29·588	74·0	30·0	44·0	57·4	42·9	33·3	14·5	49·5	42·9	·279	3·2	0·9	79	539	100·4	40·0	2·1	6	2	13	9	3·7	6·1	47	10·[illegible]

The highest temperatures of the air were at Chislehurst, 89°·8; Gloucester and Leeds, 89°·0 respectively; Weybridge Heath, 88°·8; Wilton House, 88°·5; and at Strathfield Turgiss, 88°·2.

The lowest temperatures of the air were at Marlborough College, 23°·4; Wilton House, 24°·2; Strathfield Turgiss, 24°·9; Chislehurst, 25°·5; Weybridge Heath, 26°·5; and at Royston, 26°·8.

The greatest daily ranges of the temperatures of the air were at Wilton House, 22°·7; Chislehurst, 22°·5; Weybridge Heath, 22°·4; Royston, 21°·9; Strathfield Turgiss, 21°·7; and Streatley Vicarage, 21°·3.

The least daily ranges of the temperatures of the air were at Hawarden, 9°·5; Guernsey, 10°·1; North Shields, 12°·9; Sidmouth, Worthing, and Carlisle, 13°·0 respectively; and Cockermouth, 13°·8.

The greatest numbers of rainy days were at Stonyhurst, 73; Eccles, 61; Carlisle, 61; Hawarden, 59; Halifax, 55; and at Guernsey and North Shields 53 respectively.

The least numbers of rainy days were at Worthing, 37; Leamington, 38; Bradford, 39; and Portsmouth and Brighton, 41.

The heaviest falls of rain were at Park Road, Halifax, 13·73 inches; Stonyhurst, 11·92 inches; Bradford, 11·16 inches; and at Eccles, 10·95 inches.

The least falls of rain were at Worthing, 5·52 inches; Royal Observatory, 5·71 inches; Brighton, 5·72 inches; and Osborne, 5·75 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days on which it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·638	78·0	39·0	39·0	57·0	46·9	24·8	10·1	51·1	45·5	·308	3·5	0·8	82	539	—	—	1·3	9	5	7	10	5·3	4·6	53	9·[illegible]
Between the latitudes 50° and 51°	29·640	78·7	31·4	47·3	60·8	45·0	36·2	15·8	51·7	45·1	·305	3·5	0·9	79	540	107·9	41·4	1·3	7	4	8	12	3·5	5·1	42	6·[illegible]
Between the latitudes 51° and 52°	29·610	85·9	27·9	58·0	63·1	43·2	43·8	19·9	52·0	45·2	·304	3·5	1·0	78	540	108·3	39·0	1·1	7	3	9	11	3·7	6·0	47	7·[illegible]
Between the latitudes 52° and 53°	29·588	83·4	29·4	54·0	62·3	43·7	41·7	18·6	51·6	45·4	·292	3·5	0·9	81	539	111·4	37·6	0·9	6	4	8	12	5·1	6·0	48	7·[illegible]
Between the latitudes 53° and 54°	29·576	82·7	30·2	52·5	59·9	43·5	40·2	16·4	50·1	43·4	·286	3·3	0·9	79	536	98·0	35·5	1·3	7	4	6	13	2·7	6·6	53	8·[illegible]
Between the latitudes 54° and 55°	29·539	81·8	30·0	51·8	59·6	43·8	37·2	15·8	50·1	44·9	·303	3·5	0·7	82	540	96·3	38·6	1·2	5	5	6	15	6·0	6·6	50	6·[illegible]
North Shields	29·631	71·0	33·0	38·0	56·4	43·5	31·5	12·9	48·7	42·2	·272	3·1	0·9	81	542	—	42·2	1·8	7	6	6	12	—	6·8	53	10·[illegible]
Miltown, Banbridge (Ireland)	29·588	74·0	30·0	44·0	57·4	42·9	33·3	14·5	49·5	42·9	·279	3·2	0·9	79	539	100·4	40·0	2·1	6	2	13	9	3·7	6·1	47	9·[illegible]
Mean for the Quarter 50° to 55° — Year 1869	29·636	79·0	30·7	48·3	59·9	43·7	38·3	16·2	50·7	44·1	·291	3·3	0·9	80	540	—	39·5	1·3	8	8	6	8	—	6·0	38	6·[illegible]
Mean for the Quarter 50° to 55° — " 1870	29·792	82·6	28·1	54·5	63·9	44·4	44·1	19·5	52·8	44·9	·303	3·4	1·1	75	541	107·0	37·7	1·2	7	4	6	13	—	5·2	25	7·[illegible]
Mean for the Quarter 50° to 55° — " 1871	29·644	77·9	28·5	49·4	61·1	43·6	39·1	17·5	50·8	44·4	·294	3·3	0·9	79	540	—	38·0	0·7	8	8	5	9	—	6·0	41	5·[illegible]
Mean for the Quarter 50° to 55° — " 1872	29·591	82·5	29·6	52·7	61·1	43·8	39·8	17·3	51·1	44·8	·298	3·5	0·9	80	539	104·4	38·4	1·2	6	4	7	13	4·2	6·1	48	5·[illegible]

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING SEPTEMBER 30, 1872.

Remarks on the Weather during the Quarter ending September 30th, 1872. *By* James Glaisher, Esq., F.R.S., *&c., Secretary of The Meteorological Society.*

The weather during the whole quarter has been changeable, the mean temperature of the first week in July was in excess of the average to the amount of 4½° daily; a cold period began on the 8th, and continued till the 18th, the deficiency of temperature averaged 1° daily; the warmest period in the quarter then set in and continued for 11 days till the 29th, the average excess of temperature daily was 7°·9. A cold period followed, rain fell copiously and generally the temperature was below its average on every day from July 30th to August 15th, the average daily deficiency was 3°. The weather improved on the 16th but became broken towards the end of the month, and was changeable till the end of the first week in September, with very mild, almost summer-like temperature; in the second week the weather was unsettled, particularly in the north, where a great deal of rain fell, in the south it was finer and but little rain fell; the excess of temperature for the 33 days ending September 17th was 3¾° daily; from this day to the end of the quarter the weather was broken, of uncongenial character, rain fell generally, and the daily temperature was on the average deficient by 5°.

The most remarkable feature of this quarter has been the frequency of thunderstorms. In July they were prevalent from the 6th to the 14th, and from the 21st to the end of the month, in August from the 5th to the 12th, and from the 21st to the end of the month, and in September from the 2d to the 6th, and from the 19th to the 29th, and several of the storms on these days have extended over very large areas.

In consequence of the changeable weather the hay harvest was not completed in July. In the south of England reaping began about the 20th of July, and the wheat crops were nearly all secured at the end of August, at this time rather more than one half had been gathered in the midland and northern counties, and in Scotland and Ireland had only just began.

Both in August and September the heavy rains and frequent thunderstorms very frequently interrupted harvest operations, and at the end of the quarter but little progress had been made either in the north of Ireland or Scotland where operations had been further checked by sleet and snow.

Snow has fallen in Cumberland and Westmorland unusually early, and harvest operations have been delayed.

The accounts of the potatoe crop are bad.

The readings of the barometer during July at the height of 160 feet above sea level were very steady throughout the month, the highest reading being 30·1 in. and the lowest 29·5 in., thus giving a range of but little more than half an inch. The departures of the mean daily values from the average were but small throughout.

Larger movements were experienced during the earlier portion of August, a tendency being shown, however, to decrease till the 7th when the minimum value for the month (29·3 in.) was registered. After this date increasing values were recorded, and readings close to or at times in excess of 30 in. were recorded, the absolute maximum for the month (30·1 in.) occurring on the 28th. The range of reading during August was 0·8 in.

The principal movements during September were:—a decrease to 29·4 in. on the third, a general increase to 30·1 in. by the 13th, a second decrease to 29·4 in. by the 18th, an increase to 29·8 in. nearly by the 22d, a sudden decrease to 29·2 in. by the 24th, and several other smaller oscillations till the end of the month. The mean daily values were with few exceptions entirely in defect of the average. The range of reading in the month amounted to 0·9 in.

1872. Months.	Temperature of Air. Mean.	Air. Diff. from average of 101 years.	Air. Diff. from average of 31 years.	Evaporation. Mean.	Evaporation. Diff. from average of 31 years.	Dew Point. Mean.	Dew Point. Diff. from average of 31 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 31 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 31 years.	Weight of vapour in a Cubic Foot of Air. Mean.	Weight of vapour in a Cubic Foot of Air. Diff. from average of 31 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	grs.
July	65·0	+3·4	+3·0	60·9	+3·4	57·5	+3·7	23·4	+2·4	67·4	0·473	+0·058	5·3	+0·7
August	61·0	+0·2	−0·4	56·5	−0·8	53·6	−0·1	20·4	+0·6	65·5	0·412	−0·004	4·5	−0·1
Sept.	57·4	+0·9	+0·1	54·0	−0·1	50·8	−0·3	19·1	+0·6	62·0	0·371	−0·009	4·2	0·0
Mean	61·1	+1·5	+0·9	57·1	+0·8	54·0	+1·1	21·0	+1·2	65·0	0·319	+0·015	4·7	+0·2

1872. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 31 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 31 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 31 years.	Rain. Amount.	Rain. Diff. from average of 37 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 46°.	Above 46°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
July	78	+ 3	29·759	−0·044	524	− 4	2·4	−0·1	185	0	3	28	38·1	60·1
August	75	− 1	29·800	+0·008	529	0	2·7	+0·3	224	0	3	28	35·9	54·2
Sept.	79	− 1	29·681	−0·130	531	− 2	1·4	−1·0	319	4	9	17	26·0	57·9
Mean	77	0	29·747	−0·055	528	− 2	Sum 6·5	Sum −0·8	Mean 245	Sum 4	Sum 15	Sum 73	Lowest 26·0	Highest 60·1

Note.—In reading this table it will be borne in mind that the minus sign (−) signifies below the average, and that the plus sign (+) signifies above the average.

The mean temperature of July was 65°·0, being 3°·4 higher than the average of the preceding 101 years, higher than the corresponding value in 1871 by 3°·3, but lower than in 1870 by 0°·4.

The mean temperature of August was 61°·0, being 0°·2 higher than the average of 101 years, 3°·8 lower than in 1871, and of nearly the same value as that recorded in 1870.

The mean temperature of September was 57°·4, being 0°·9 higher than the average of 101 years, the same as the corresponding temperature of last year, but 1°·7 higher than in 1870.

The mean high day temperatures were respectively 4°·1 and 0°·5 higher than their averages in July and September, but of the same value in August.

The mean low night temperatures were 0°·6 and 0°·1 lower than their respective averages in August and September, but 1°·7 higher in July.

Therefore the days and nights of July were warm, and those of August and September of tolerably equable temperature.

The daily ranges of temperature were greater than their respective averages in each of the three months.

The fall of rain was 0·1 in. and 1·0 in. respectively in defect in July and September, but 0·3 in. in excess in August.

The mean temperature of the air in the three months ending August, constituting the three summer months, was 61°·7, being 1°·5 higher than the average for 101 years.

Thunderstorms occurred on the 6th of July at Guernsey, Helston, Truro, Sidmouth, Chislehurst, London, Gloucester, Cardington, Leamington, and Somerleyton; on the 7th at Truro, Gloucester, Leamington, Llandudno, Hawarden, Liverpool, Eccles, Halifax, Stonyhurst, Cockermouth, Silloth, and Carlisle; on the 9th at Royston, Cardington, and Leamington; on the 11th at Guernsey, Osborne, Portsmouth, Worthing, Brighton, Aldershot Camp, Marlborough College, Chislehurst, Streatley, London, Oxford, Royston, Cardington, Holkham, Hawarden, Eccles, Hull, Leeds, Cockermouth, Allenheads, Silloth, Carlisle, Bywell, and North Shields; on the 12th at Royston, Somerleyton, Norwich, Wisbech, Liverpool, Eccles, Halifax, Stonyhurst, Bradford, Leeds, Cockermouth, Silloth, Carlisle, and Miltown; on the 13th at Worthing, Salisbury, Aldershot Camp, Strathfield Turgiss, Marlborough College, London, Oxford, Royston, Cardington, Leamington, Norwich, and Liverpool; on the 14th at Bywell and North Shields; on the 21st at Guernsey and London; on the 22d at Sidmouth, Osborne, Portsmouth, Worthing, Brighton, Salisbury, Aldershot Camp, Strathfield Turgiss, Lymington, Chislehurst, London, Royston, Cardington, Cockermouth, and North Shields; on the 23d at Worthing, Brighton, Strathfield Turgiss, London, Royston, Cardington, Somerleyton, and Wisbech; on the 24th at Guernsey, Lymington, Chislehurst, Streatley, Royston, Cardington, Wisbech, Liverpool, Eccles, Halifax, Stonyhurst, Cockermouth, and Silloth; on the 25th at Sidmouth, Osborne, Portsmouth, Salisbury, Aldershot Camp, Strathfield Turgiss, Lymington, Marlborough College, Chislehurst, London, Oxford, Gloucester, Royston, Cardington, Leamington, Llandudno, Liverpool, Eccles, Halifax, Stonyhurst, Bradford, Allenheads, Bywell, North Shields, and Miltown; on the 26th at Brighton, Salisbury, Stonyhurst, Cockermouth, Silloth, Bywell, North Shields, and Miltown; on the 27th at Somerleyton, Norwich, and Holkham; on the 28th at Allenheads; on the 29th at Royston, Norwich, Llandudno, Liverpool, Eccles, Stonyhurst, Cockermouth, and Carlisle; on the 30th at Aldershot Camp, Chislehurst, and London; and on the 31st at Holkham. On the 2d of August at Helston, Truro, Worthing, Taunton, Leamington, and Holkham; on the 5th at Wisbech, Holkham, and Hawarden; on the 6th at London, Gloucester, Holkham, Liverpool, Eccles, Halifax, Stonyhurst, and North Shields; on the 7th at Sidmouth, Osborne, Taunton, Salisbury, Aldershot Camp, Strathfield Turgis, Marlborough College, Chislehurst, Streatley, London, Oxford, Gloucester, Royston, Cardington, Leamington, Wisbech, Llandudno, Holkham, Hawarden, Liverpool, Eccles, Halifax, Stonyhurst, Allenheads, Bywell, and North Shields; on the 8th at Salisbury, Chislehurst, Streatley, Oxford, Cardington, and Eccles; on the 9th at Holkham; on the 10th at Gloucester; on the 11th at North Shields; on the 12th at North Shields; on the 25th at Holkham; on the 26th at Eccles, Hull, Stonyhurst, York, Silloth, and Carlisle; and on the 30th at Holkham, Stonyhurst, Cockermouth, and Silloth. On the 2d of September at Guernsey, and Somerleyton; on the 3d at Guernsey, Helston, Truro, Sidmouth, Osborne, Portsmouth, Worthing, Brighton, Lymington, Llandudno, Holkham, Eccles, Halifax, Stonyhurst, Allenheads, Carlisle, and North Shields; on the 4th at Guernsey, Osborne, Brighton, Salisbury, Barnstaple, Aldershot Camp, Lymington, Marlborough College, Gloucester, Royston, Cardington, Norwich, Wisbech, Llandudno, Hawarden, Liverpool, Eccles, Halifax, Hull, Stonyhurst, Leeds, York, Carlisle, North Shields, and Miltown; on the 5th at Holkham, Silloth, and Carlisle; on the 6th at Carlisle; on the 9th at Eccles, Stonyhurst, and Leeds; on the 19th at Norwich and Holkham; on the 20th at Liverpool; on the 21st at Worthing; on the 23d at Sidmouth; on the 24th at Guernsey, Helston, Osborne, and Hawarden; on the 27th at Cardington; on the 28th at Holkham and Hawarden; and on the 29th at Wisbech, Holkham, and Hawarden.

Thunder was heard, but lightning was not seen, on the 4th of July at Hull; on the 6th at Strathfield Turgiss, Streatley, Royston, Hull, Stonyhurst, and Leeds; on the 8th at Hull; on the 9th at Hull; on the 11th at Halifax and Stonyhurst; on the 12th at Cardington and Allenheads; on the 13th at Portsmouth, Chislehurst, Streatley, London, Somerleyton, and Bywell; on the 14th at Bywell; on the 19th at Cockermouth; on the 22d at Oxford, Gloucester, Llandudno, Liverpool, Halifax, Stonyhurst, Allenheads, Silloth, and Culloden; on the 23d at Portsmouth and Aldershot Camp; on the 24th at London, Llandudno, Hull, Allenheads, and Bywell; on the 25th at Worthing, Brighton, Oxford, Llandudno, and Cockermouth; on the 26th at Strathfield Turgiss, Llandudno, and Culloden; on the 27th at Guernsey, Worthing, Stonyhurst, Cockermouth, Allenheads, and Bywell; on the 28th at Guernsey, Worthing, Cockermouth, and Bywell; on the 29th at Oxford, Halifax, and Allenheads; and on the 30th at Oxford. On the 2d of August at Chislehurst, Streatley, Oxford, Gloucester, Cardington, and Wisbech; on the 3d at Hull; on the 5th at Llandudno; on the 6th at Llandudno, Hull, and Bywell; on the 7th at Guernsey, Carlisle, and Culloden; on the 8th at Osborne, Worthing, Gloucester, and Royston; on the 9th at Halifax and Carlisle; on the 12th at Bywell; on the 15th at Bywell; on the 21st at Salisbury; on the 24th at North Shields; on the 26th at Halifax and Allenheads; on the 30th at Eccles; and on the 31st at Streatley and Holkham. On the 3d of September at Streatley, Eccles, and Silloth; on the 5th at Cockermouth;

on the 19th at Streatley, Royston, and Somerleyton; on the 20th at Somerleyton; on the 21st at Llandudno and Hawarden; on the 22d at Llandudno; on the 23d at Llandudno; on the 24th at Llandudno; on the 28th at Carlisle; and on the 29th at Oxford, Eccles, and Hull.

Lightning was seen, but thunder was not heard, on the 6th of July at Portsmouth and Strathfield Turgiss; on the 7th at Cardington; on the 11th at Wisbech; on the 13th at Portsmouth; on the 23d at Portsmouth, Aldershot Camp, Oxford, Gloucester, and Norwich; on the 24th at Portsmouth, Worthing, Brighton, Aldershot Camp, London, Oxford, Llandudno, and Culloden; on the 25th at Portsmouth, Brighton, Strathfield Turgiss, Chislehurst, Oxford, Gloucester, Norwich, and Llandudno; on the 26th at Portsmouth; on the 27th at Worthing, Brighton, and London; on the 28th at Portsmouth and Worthing; and on the 30th at Stonyhurst. On the 2d of August at Guernsey and Portsmouth; on the 5th at Portsmouth, Worthing, Brighton, Oxford, and Cardington; on the 6th at Llandudno, Allenheads, Silloth, and Carlisle; on the 7th at Truro and Worthing; on the 8th at Llandudno and Halifax; on the 9th at York; on the 10th at Carlisle and North Shields; on the 20th at Llandudno; on the 21st at Sidmouth and Worthing; on the 25th at Hull, Stonyhurst, Allenheads, Silloth, and Carlisle; and on the 30th at Helston, Truro, Hawarden, Liverpool, Halifax, Allenheads, Carlisle, and North Shields. On the 3d of September at Portsmouth, Lymington, Oxford, Cardington, Liverpool, Eccles, Hull, and Leeds; on the 4th at Portsmouth, Taunton, Weybridge, Oxford, Llandudno, Holkham, York, and Silloth; on the 5th at Llandudno; on the 9th at Carlisle; on the 19th at Worthing, Brighton, Salisbury, Strathfield Turgiss, Weybridge, London, Llandudno, and Hawarden; on the 20th at Wisbech, Hawarden, and Hull; on the 21st at Llandudno, Liverpool, Stonyhurst, and Cockermouth; on the 23d at Llandudno and Liverpool; and on the 24th at Portsmouth, Worthing, Brighton, Oxford, Llandudno, Eccles, Hull, Stonyhurst, Cockermouth, and Carlisle.

Solar halos were seen on 6 days in July; on 9 days in August; and on 7 days in September.

Lunar halos were seen on the 19th of July at Brighton; and on the 29th at Marlborough College. On the 15th of August at Portsmouth, Weybridge, and Oxford.

Auroræ Boreales were seen on the 1st of July at Brighton; on the 2d at Brighton; on the 7th at Portsmouth; on the 8th at Oxford; and on the 30th at Brighton. On the 1st of August at Brighton; on the 2d at North Shields; on the 3d at Guernsey and Silloth; on the 4th at Culloden; on the 6th at Brighton; on the 8th at Guernsey, Helston, Taunton, Oxford, Llandudno, Hawarden, Silloth, and Culloden; on the 9th at Llandudno and York; on the 10th at Allenheads; on the 13th at Culloden; on the 14th at Brighton, Oxford, Llandudno, Stonyhurst, and Culloden; on the 28th at York; and on the 29th at Brighton. On the 2d of September at Brighton and Cockermouth; on the 3d at Llandudno and Hawarden; on the 4th at Brighton; on the 5th at Brighton and York; on the 6th at York; on the 8th at Eccles; on the 9th at Hawarden, Stonyhurst, York, Cockermouth, and Silloth; on the 17th at Oxford and Silloth; on the 21st at Silloth; and on the 29th at York, Carlisle, and North Shields.

Snow fell on the 21st of September at Hawarden and York; on the 25th on Skiddaw and other mountains near Cockermouth; and on the 24th at Allenheads and on the neighbouring hills of Carlisle.

Hail fell on 8 occasions in July; on 3 in August; and on 8 in September.

Fog was prevalent on 40 days during the quarter; mostly in the north.

Spanish Chestnut in flower on the 25th of July at Culloden.

Lime in flower on the 23d of July at Culloden.

Privat first in blossom on the 12th of July at Carlisle.

Portugal Laurel first in blossom on the 8th of July at Culloden.

Honeysuckle first in blossom on the 5th of July at Culloden.

Cherry ripe on the 2d of August at Helston.

Gooseberry ripe on the 5th of August at Culloden.

Currant ripe on the 1st of August at Culloden.

Strawberry ripe on the 10th of August at Culloden.

Raspberry ripe on the 12th of August at Culloden.

Apricot ripe on the 20th of August at Culloden.

Hardy Apple ripe on the 29th of August at North Shields; and on the 30th at Miltown.

Hardy Pear ripe on the 20th of August at Miltown.

Peach ripe on the 8th of August at Helston. On the 20th of September at Miltown.

Plum ripe on the 4th of August at Helston. On the 4th of September at Miltown.

Wheat in flower on the 1st of July at Helston; and on the 12th at Culloden.

Wheat cut on the 27th of July at Royston; on the 29th at Osborne, Chislehurst, and Cardington; on the 30th at Brighton and Oxford. On the 1st of August at Guernsey; on the 4th at Weybridge; on the 10th at Helston; on the 12th at Llandudno; on the 19th at Carlisle; on the 25th at Miltown; and on the 28th at North Shields. On the 14th of September at Silloth.

Barley in flower on the 10th of July at Culloden.

Barley in ear on the 2d of July at Helston.

Barley cut on the 2d of August, at Weybridge; on the 6th at Llandudno; on the 10th at Guernsey; and on the 12th at Helston and Carlisle.

Rye cut on the 13th of July at Brighton and Chislehurst. On the 26th of August at Culloden.

Oats in flower on the 5th of July at Culloden.

Oats in ear on the 2d of July at Helston.

Oats cut on the 27th of July at Osborne; on the 28th at Helston; and on the 29th at Chislehurst and Oxford. On the 1st of August at Weybridge; on the 19th at Stonyhurst; on the 20th at Guernsey; and on the 30th at Miltown.

Peas cut on the 27th of August at Culloden.

Flax pulled on the 20th of August at Miltown.

Swallow departed on the 22d of August from Oxford. On the 30th of September rom Silloth.

Swift departed on the 31st of August from Culloden.

Woodcock arrived on the 27th of September at Helston.

Snipe arrived on the 6th of September at Helston.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING SEPTEMBER 30TH, 1872.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the fifth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1872. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean of all Highest.	Temperature of Air in Month. Mean of all Lowest.	Temperature of Air in Month. Mean Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.=100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S.	204	July	29·725	0·610	78·5	53·5	25·0	67·1	57·4	9·7	60·8	55·2	·437	4·9	1·0	83	528	–	–	0·9	7	7	8	9	3·1	3·6	12	4·53
		Aug.	29·775	0·852	74·0	52·5	21·5	66·1	52·2	8·9	60·8	54·6	·421	4·7	1·2	80	529	–	–	1·0	6	6	7	12	3·7	3·3	11	2·19
		Sept.	29·714	0·962	74·5	41·5	33·0	63·5	54·9	8·6	58·7	53·0	·404	4·5	0·9	81	530	–	–	1·5	3	2	10	15	4·5	3·8	18	2·14
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	July	29·856	0·694	83·0	52·0	31·0	71·9	58·6	13·3	63·1	55·9	·448	5·0	1·6	78	528	106·5	51·5	1·9	5	4	14	8	3·8	4·8	15	3·39
		Aug.	29·912	0·867	84·0	46·0	38·0	70·8	57·2	13·6	62·4	55·5	·441	5·0	1·4	78	526	101·3	49·9	2·2	7	6	6	12	4·2	4·4	12	2·21
		Sept.	29·810	0·963	75·0	35·0	40·0	65·8	55·1	10·7	59·4	51·3	·378	4·4	1·4	76	528	83·9	47·7	2·3	4	1	9	16	4·9	5·9	20	2·94
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	July	29·910	0·598	83·0	48·0	35·0	69·1	56·0	13·1	60·2	56·0	·450	5·1	0·8	87	532	–	–	2·2	7	7	10	7	–	6·6	12	2·69
		Aug.	29·968	0·842	80·0	43·0	37·0	69·8	54·0	15·8	60·0	51·7	·385	4·3	1·5	74	533	–	–	2·5	12	7	4	8	–	5·0	12	1·99
		Sept.	29·868	0·915	72·0	31·0	41·0	64·5	53·0	11·5	57·2	48·9	·345	3·9	1·4	74	535	–	–	2·8	5	3	5	17	–	7·1	23	3·26
SIDMOUTH (Devon), J. Ingleby Mackenzie, Esq., M.B., F.M.S.	30	July	29·907	0·614	75·2	49·0	26·2	69·0	54·5	14·5	60·6	57·6	·476	5·3	0·6	90	531	–	–	0·9	4	1	10	16	–	2·9	15	4·36
		Aug.	29·972	0·882	73·1	45·5	27·6	67·0	54·6	12·4	60·2	54·9	·432	4·9	1·0	83	533	–	–	1·1	5	4	12	10	–	2·4	15	2·07
		Sept.	29·925	0·970	69·4	35·2	34·2	62·8	51·5	11·3	56·5	53·6	·412	4·6	0·5	90	536	–	–	1·4	8	0	6	16	–	3·2	18	1·77
EASTBOURNE (Sussex), Miss W. L. Hall.	12	April	29·914	1·388	68·8	31·7	37·1	59·9	42·4	17·5	49·9	42·7	·275	3·1	1·0	77	544	113·0	35·1	0·5	7	4	12	7	3·6	–	13	0·35
		May	29·911	0·911	73·3	29·9	48·4	63·3	44·2	19·1	52·4	44·3	·291	3·4	1·1	74	541	110·9	38·5	0·7	7	6	7	11	4·7	–	14	2·59
		June	29·944	0·729	78·1	40·9	37·2	66·4	51·8	14·6	58·2	52·5	·396	4·5	1·0	81	535	118·7	46·0	0·6	3	3	11	13	4·7	–	16	2·32
		July	29·925	0·537	83·3	49·1	34·2	74·4	56·6	17·8	63·9	59·5	·503	5·5	1·1	85	528	120·8	51·3	0·3	2	7	10	12	2·9	–	12	1·90
		Aug.	29·974	0·793	78·2	47·6	30·6	71·4	54·9	16·5	62·0	55·5	·441	4·9	1·3	80	531	118·8	48·8	0·7	7	8	7	9	4·0	–	12	1·83
		Sept.	29·893	0·911	76·2	33·8	42·4	67·1	52·2	14·9	58·9	54·7	·433	4·7	0·8	86	533	107·6	46·7	0·7	2	2	9	17	4·7	–	14	2·56
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	July	29·763	0·575	87·1	47·3	39·8	76·5	55·1	21·4	63·9	58·1	·484	5·4	1·2	81	525	115·0	53·2	0·9	4	6	12	9	–	4·8	12	2·84
		Aug.	29·808	0·847	80·1	43·7	36·4	72·7	53·7	19·0	61·3	54·3	·421	4·7	1·3	78	529	108·7	51·7	0·8	7	7	9	8	–	5·3	11	1·86
		Sept.	29·708	0·945	81·9	34·0	47·9	67·5	51·0	16·5	58·0	55·2	·436	4·9	0·5	90	531	99·6	49·7	0·3	2	1	12	15	–	6·1	17	1·97
PORTSMOUTH, William C. Ellis, Esq., F.M.S.	16	July	29·939	0·577	81·6	45·4	36·2	74·8	53·4	21·4	62·7	54·7	·430	4·8	1·6	75	531	122·7	49·2	1·2	2	7	12	10	3·1	5·0	17	3·72
		Aug.	29·983	0·818	78·6	44·4	34·2	71·6	51·5	20·1	60·6	50·5	·367	4·1	1·8	73	533	116·6	47·6	1·6	5	6	10	10	2·5	6·3	11	1·68
		Sept.	29·883	0·965	78·2	33·0	45·2	67·3	48·6	18·7	57·4	50·1	·363	4·1	1·2	77	534	160·2	40·2	1·7	2	2	9	17	2·4	6·2	17	1·92
WORTHING (Sussex), W. J. Harris, Esq. M.R.C.S.E., L.S.A.	31	July	29·893	0·571	78·0	49·2	28·8	71·1	57·6	13·5	63·1	56·7	·460	5·0	1·3	79	528	135·9	52·3	0·8	4	5	12	10	5·9	4·5	11	1·82
		Aug.	29·938	0·829	75·2	47·8	27·4	70·2	55·2	15·0	61·4	53·2	·405	4·5	1·5	75	531	133·9	49·8	1·1	6	6	7	12	4·6	4·6	11	1·64
		Sept.	29·854	0·937	73·2	35·1	38·1	65·8	52·2	13·6	57·8	52·7	·398	4·4	0·9	82	533	121·0	46·2	1·2	4	1	5	20	3·1	5·7	10	1·66
BRIGHTON (Sussex), Frederick E. Sawyer, Esq., F.M.S.	200	July	29·733	0·569	81·8	48·4	33·4	71·6	57·8	13·8	63·5	57·3	·469	5·2	1·3	80	525	121·9	54·5	0·8	5	5	11	10	1·0	5·5	12	1·31
		Aug.	29·767	0·835	76·9	48·0	28·9	69·3	55·2	14·1	60·7	54·0	·417	4·7	1·3	79	528	118·5	50·9	1·2	7	5	7	12	1·3	5·0	13	1·81
		Sept.	29·670	0·979	73·2	37·7	35·5	65·1	52·3	12·8	57·5	53·2	·392	4·3	0·9	83	531	105·2	46·8	1·3	2	2	7	19	0·2	6·0	13	2·19
LYMINGTON (Hants), George J. Jones, Esq.	77	July	29·847	0·566	84·2	44·9	39·3	73·2	54·5	18·7	63·0	54·5	·426	4·5	1·7	74	528	–	–	0·8	5	5	12	9	–	4·6	14	3·25
		Aug.	29·912	0·721	82·0	43·4	38·6	71·1	52·3	18·8	61·4	51·6	·382	4·2	1·9	71	531	–	–	1·1	4	9	9	9	–	4·4	8	1·78
		Sept.	29·808	0·877	79·2	31·0	48·2	66·1	54·0	12·1	61·3	46·8	·322	3·6	2·5	59	530	–	–	0·2	5	1	6	18	–	4·4	10	2·02
TAUNTON (Somerset), Rev. W. Tuckwell, F.M.S.	80	Aug.	29·876	0·882	83·8	42·5	41·3	72·8	51·5	21·3	61·0	54·5	·425	4·8	1·2	80	530	87·1	44·9	0·2	7	9	6	9	7·0	3·8	11	1·78
		Sept.	29·751	1·024	77·8	31·5	46·3	65·4	50·1	15·3	56·9	53·1	·403	4·5	0·7	87	532	76·1	42·0	0·2	8	4	4	14	8·0	5·9	20	2·21
WILTON HOUSE (near Salisbury),	188	July	29·743	0·552	88·0	42·5	45·5	77·6	52·5	25·1	63·0	58·8	·406	5·5	0·9	86	525	122·8	50·9	1·1	7	2	17	5	3·6	5·6	10	3·00
		Aug.	29·700	0·909	85·0	41·5	43·5	74·1	49·9	24·2	60·6	54·6	·427	4·8	1·1	81	529	118·1	48·0	1·4	9	1	13	8	3·6	4·7	14	2·43
		Sept.	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
BARNSTAPLE (Devon), T. Mackrell, Esq.	43	July	29·883	0·583	89·0	50·0	39·0	72·4	56·3	16·1	64·4	56·4	·456	5·0	1·6	75	527	–	–	1·2	3	3	16	9	–	3·0	16	6·35
		Aug.	29·922	0·917	84·5	45·0	39·5	71·5	54·0	17·5	61·3	53·4	·409	4·6	1·5	76	531	–	–	1·3	3	5	11	12	–	3·0	14	2·82
		Sept.	29·823	0·988	75·0	35·5	39·5	64·4	53·5	10·9	57·8	53·4	·410	4·6	0·8	85	533	–	–	1·3	1	2	12	15	–	4·7	25	5·14
ALDERSHOT CAMP (Hants), John Arnold, Esq., M.S.C., F.M.S.	325	July	29·569	0·550	88·4	48·0	40·4	79·0	55·8	23·2	65·0	59·5	·510	5·6	1·2	83	520	127·1	53·3	1·0	5	6	9	11	2·0	6·2	13	2·69
		Aug.	29·623	0·856	81·4	46·4	35·0	73·4	52·5	20·9	60·7	56·9	·465	5·2	0·8	88	526	119·8	30·6	1·3	7	7	8	9	1·5	6·1	12	2·24
		Sept.	29·505	0·867	81·0	35·4	45·6	68·3	49·7	18·6	57·3	51·0	·374	4·2	1·1	83	528	108·3	47·6	1·6	2	1	9	18	2·2	6·5	12	1·60
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	July	29·728	0·612	89·0	42·3	46·7	77·4	52·9	24·5	63·8	55·5	·441	4·9	1·5	75	525	136·1	49·6	0·7	3	8	11	9	4·1	5·4	13	3·12
		Aug.	29·775	0·874	83·3	40·2	43·1	73·1	50·4	22·7	60·2	51·6	·382	4·3	1·5	73	531	124·8	45·0	0·7	8	8	7	8	4·6	4·8	14	1·48
		Sept.	29·658	0·949	81·0	30·2	50·8	68·0	48·3	19·7	57·2	51·6	·382	4·3	0·9	82	534	114·0	41·0	0·8	3	1	8	18	4·8	4·7	12	1·49
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	Aug.	29·932	0·636	84·0	42·0	42·0	73·4	49·7	23·7	60·0	53·8	·415	4·6	1·2	80	532	113·3	48·0	0·6	–	–	–	–	1·3	4·0	10	1·88
		Sept.	29·730	0·852	82·3	31·3	51·0	67·4	47·2	20·2	56·3	49·9	·360	4·0	1·0	79	533	104·9	44·4	0·9	4	3	10	13	1·2	5·0	13	1·27
MARLBOROUGH COLLEGE (Wilts) Rev. Thomas A. Preston, M.A.	456	July	29·467	0·559	83·3	41·4	41·9	72·0	52·7	19·3	61·2	53·9	·416	4·7	1·4	78	523	140·7	44·7	–	7	2	12	10	2·7	5·7	10	2·63
		Aug.	29·508	0·802	80·0	39·1	40·9	69·6	50·8	18·8	58·6	51·4	·379	4·3	1·2	83	527	136·9	40·2	–	9	6	8	8	3·5	5·7	15	2·32
		Sept.	29·390	0·936	76·6	30·2	46·4	63·6	47·8	15·8	54·7	49·5	·352	4·0	0·9	82	528	124·6	34·7	–	5	0	7	18	2·5	6·6	16	1·08
CHISLEHURST (Heathfield Lodge, Kent), Francis Nunes, Esq., M.A., F.M.S.	295	July	29·609	0·622	92·2	43·4	48·8	79·8	53·8	26·0	64·9	56·5	·457	5·0	1·8	74	527	132·7	48·8	–	5	3	10	13	–	–	13	2·57
		Aug.	29·641	0·801	83·6	41·5	42·1	72·6	51·4	21·2	60·4	53·2	·404	4·6	1·3	77	532	125·7	47·5	–	6	10	6	9	–	–	14	2·43
		Sept.	29·525	0·853	83·2	33·0	50·2	69·4	48·8	20·6	58·0	50·2	·365	4·1	1·9	76	534	120·1	43·3	–	3	1	7	19	–	–	13	1·54
ROYAL OBSERVATORY (Kent), The Astronomer Royal.	159	July	29·759	0·575	90·9	47·0	43·9	78·2	54·8	23·4	65·0	57·5	·473	5·3	1·5	78	524	137·3	47·4	0·1	5	5	10	11	–	6·1	16	2·36
		Aug.	29·800	0·842	81·7	45·0	36·7	72·9	52·5	20·4	61·0	53·6	·412	4·5	1·5	75	529	136·9	40·2	0·2	7	8	7	9	–	6·2	10	2·70
		Sept.	29·681	0·948	81·4	34·5	46·9	68·2	49·1	19·1	57·4	50·8	·371	4·2	1·1	79	531	114·8	41·9	0·5	2	1	8	19	–	6·4	11	1·39
THE GUILDHALL (London), William Haywood, Esq.		June	–	0·599	84·0	48·0	36·0	69·4	55·6	13·8	61·3	52·8	·399	4·4	1·6	74	526	–	–	–	–	–	–	–	–	–	13	1·70
		July	–	0·572	88·0	51·0	37·0	75·4	60·5	14·9	66·5	55·3	·437	4·8	2·3	68	521	–	–	–	–	–	–	–	–	–	12	3·11
		Aug.	–	0·866	78·0	52·6	25·4	70·3	57·5	12·8	62·0	52·5	·394	4·3	1·9	71	527	–	–	–	–	–	–	–	–	–	11	2·38
		Sept.	–	0·975	77·0	42·0	35·0	65·9	54·8	11·1	59·7	51·4	·380	4·3	1·4	74	527	–	–	–	–	–	–	–	–	–	13	1·37
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.A.S.	150	July	29·805	0·485	88·2	43·8	44·4	73·1	51·1	22·0	62·0	56·2	·453	5·1	1·1	82	528	87·5	–	1·2	5	2	10	14	–	4·7	12	4·94
		Aug.	29·857	0·796	84·3	41·8	42·5	72·1	50·4	21·7	60·0	54·6	·423	4·7	1·1	83	530	82·7	–	1·6	7	9	6	9	–	5·7	18	2·07
		Sept.	29·753	0·916	81·2	35·6	45·6	65·8	47·8	18·0	56·8	50·3	·368	4·0	1·1	78	533	75·2	–	1·9	7	1	6	16	–	5·7	13	0·95
ST. JOHN'S COLLEGE, BATTERSEA, Rev. J. P. Faunthorpe, M.A., F.R.G.S.	13	July	29·833	0·932	87·5	45·0	42·5	75·4	53·0	22·4	62·8	58·1	·483	5·3	1·0	84	527	101·2	47·8	1·4	–	–	–	–	–	6·0	12	2·56
		Aug.	29·917	0·816	82·0	42·0	40·0	71·0	50·8	20·2	59·4	51·9	·387	4·3	1·4	76	533	99·0	44·7	1·7	2	3	15	11	–	5·7	13	1·69
		Sept.	29·841	0·887	82·0	31·0	51·0	65·7	47·5	18·2	56·3	49·0	·349	4·0	1·1	76	535	92·5	40·8	1·7	0	0	16	14	–	6·3	10	1·89
CAMDEN TOWN (London), G. J. Symons, Esq., F.M.S.	123	July	29·800	0·530	92·3	47·2	45·1	78·5	56·6	21·9	64·3	56·5	·457	5·0	1·6	75	525	120·8	54·6	–	7	2	7	15	–	5·4	13	2·57
		Aug.	29·838	0·823	88·0	43·4	39·6	72·6	52·8	19·8	61·4	53·2	·405	4·5	1·6	75	529	111·1	51·9	–	10	4	7	10	–	4·8	12	2·05
		Sept.	29·720	0·878	83·1	33·0	50·1	67·9	49·9	18·0	57·9	49·6	·355	4·0	1·3	73	531	103·9	47·4	–	2	0	10	18	–	5·0	13	1·64
CHISWICK (London), Thiselton Dyer, Esq.	23	July	29·911	0·571	90·5	44·0	46·5	77·3	53·6	23·7	63·5	57·1	·467	5·1	1·4	79	528	140·4	48·9	–	6	6	10	9	–	–	13	1·87
		Aug.	29·945	0·800	83·0	39·5	43·5	72·2	50·9	21·3	60·4	53·2	·404	4·6	1·3	77	532	125·8	47·2	–	9	6	8	8	–	–	13	1·82
		Sept.	29·844	0·926	83·4	28·6	54·8	67·4	48·1	19·3	57·0	49·1	·349	3·9	1·3	75	534	116·4	43·0	–	2	2	14	13	–	–	10	1·31
OXFORD (Oxfordshire), Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	July	29·700	0·552	85·3	45·1	40·2	74·6	55·1	19·5	63·8	55·5	·441	4·9	1·5	75	525	123·4	47·8	0·7	5	5	12	9	2·0	6·9	14	2·97
		Aug.	29·749	0·830	79·2	42·8	36·4	69·7	52·3	17·4	59·8	51·9	·387	4·4	1·2	76	530	121·1	46·9	0·8	8	6	7	10	3·0	7·1	14	1·16
		Sept.	29·617	0·944	78·2	34·7	43·5	65·1	50·1	15·0	56·7	49·6	·355	4·0	1·2	77	531	117·0	45·2	1·2	4	0	10	16	2·2	7·3	15	0·97
GLOUCESTER (Gloucester), E. Toller, Esq., M.D.	100	July	29·868	0·544	89·2	42·2	47·0	78·0	56·2	21·8	65·0	56·4	·456	5·0	1·8	75	526	123·2	55·5	0·4	7	4	6	14	3·2	5·3	11	5·22
		Aug.	29·890	0·882	83·2	43·7	39·5	73·3	53·3	20·0	61·8	53·3	·407	4·5	1·6	74	530	115·0	52·6	0·8	7	7	8	9	3·1	5·2	14	2·76
		Sept.	29·774	0·995	78·2	34·0	44·2	66·5	51·1	15·4	58·0	51·9	·388	4·3	1·1	80	532	104·0	50·9	0·9	6	2	7	15	1·1	6·4	11	2·15
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	July	29·659	0·535	91·5	43·4	48·1	78·7	54·4	24·3	63·7	56·9	·465	5·1	1·4	79	523	–	–	–	–	–	–	–	–	5·5	15	2·76
		Aug.	29·719	0·839	86·6	44·8	41·8	73·2	51·0	22·2	60·5	53·6	·411	4·5	1·4	78	528	–	–	–	9	7	6	9	–	5·6	11	1·95
		Sept.	29·569	0·891	83·1	35·9	47·2	67·2	49·3	17·9	56·4	49·5	·355	4·0	1·0	78	530	–	–	–	–	–	–	–	–	5·9	10	0·88
CARDINGTON (near Bedford), Mr. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	109	July	29·833	0·535	88·4	44·0	44·4	77·4	54·8	22·6	65·1	56·5	·458	5·1	1·7	74	525	108·6	47·8	0·6	7	4	12	8	–	4·5	16	4·30
		Aug.	29·881	0·795	79·4	42·0	37·4	70·9	51·7	19·2	60·3	54·7	·427	4·8	1·1	82	531	103·8	44·2	0·8	8	9	5	9	–	5·4	13	3·00
		Sept.	29·740	0·908	78·4	32·0	46·4	66·0	48·2	17·8	56·5	51·6	·384	4·3	0·8	84	533	87·4	41·6	1·1	4	1	9	16	–	5·2	10	1·15
LEAMINGTON (Warwickshire), S. Urwick Jones, Esq., F.M.S.	195	July	29·716	0·507	88·0	45·5	42·5	75·5	56·0	19·5	63·7	55·4	·441	4·9	1·6	75	525	–	–	0·1	3	7	9	12	–	5·1	15	4·40
		Aug.	29·760	0·851	82·2	46·7	35·5	73·3	53·5	19·8	60·8	51·9	·385	4·3	1·6	72	529	–	–	0·7	8	7	5	11	–	5·4	11	3·44
		Sept.	29·608	0·897	77·0	36·0	41·0	64·4	49·6	14·9	60·7	54·2	·420	4·7	1·2	79	526	–	–	0·8	6	0	6	18	–	6·4	15	1·65

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1872. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short Saturation.	Mean Degree of Humidity. Sat^{n}. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	50	July	29·870	0·519	83·4	32·2	51·2	74·1	54·9	19·3	63·3	58·2	·486	5·4	1·1	83	528	114·2	47·4	1·0	5	8	13	5	6·3	4·0	13	3·36
		Aug.	29·920	0·930	74·0	46·1	27·9	69·5	53·1	16·4	60·0	54·9	·432	4·8	1·0	84	532	–	45·5	1·0	8	9	7	7	7·3	5·7	12	2·20
		Sept.	29·746	0·910	79·2	31·8	47·4	63·8	49·0	14·8	55·8	50·4	·367	4·1	0·9	83	534	–	40·7	1·2	5	1	7	17	6·0	5·0	16	1·90
NORWICH (Norfolk), C. M. Gibson, Esq., F.M.S.	42	July	29·870	0·506	86·5	41·8	44·7	75·7	55·1	20·6	64·1	55·7	·465	4·9	1·7	74	527	–	–	–	6	6	12	7	–	–	14	3·04
		Aug.	29·865	0·777	75·5	46·0	29·5	68·4	51·8	16·6	59·1	53·0	·403	4·6	1·1	80	532	–	–	–	9	7	6	9	–	–	12	2·72
		Sept.	29·753	0·926	75·0	32·0	43·0	63·7	48·8	14·9	55·8	50·6	·369	4·1	0·9	84	534	–	–	–	2	1	11	16	–	–	16	2·23
WISBECH (Cambridgeshire), S. H. Miller, Esq., F.R.A.S., F.M.S.	14	July	29·895	0·518	87·3	44·7	42·6	75·6	55·6	20·0	64·5	57·5	·476	5·2	1·5	79	527	124·7	52·7	0·4	5	8	10	8	–	5·4	16	5·93
		Aug.	29·941	0·784	79·3	43·0	36·3	70·5	52·3	18·2	60·2	54·2	·420	4·7	1·2	81	532	118·2	49·7	0·5	8	8	7	8	–	6·4	13	4·48
		Sept.	29·778	0·908	77·0	34·0	43·0	65·0	49·4	15·6	56·3	51·8	·387	4·3	0·7	85	534	108·1	46·5	0·8	1	2	11	16	–	6·3	17	2·49
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	100	July	29·816	0·463	83·7	47·1	36·6	71·8	54·9	16·9	61·5	54·6	·427	4·7	1·4	78	529	–	–	0·4	6	5	4	16	–	5·4	12	3·46
		Aug.	29·851	0·839	86·0	46·8	39·2	69·6	53·9	15·7	60·5	52·5	·395	4·1	1·7	73	531	–	–	0·5	2	6	9	14	–	5·5	15	2·15
		Sept.	29·674	0·778	79·6	43·6	36·0	63·4	52·1	11·3	57·2	49·1	·349	3·9	1·3	74	531	–	–	1·1	8	2	4	16	–	7·2	22	6·83
DERBY (Derbyshire), John Davis, Esq.	174	July	29·708	0·522	86·0	46·0	40·0	73·5	56·2	17·3	63·3	55·4	·439	4·9	1·6	76	525	–	–	–	7	3	12	9	–	–	13	4·68
		Aug.	29·754	0·795	80·0	46·0	34·0	68·2	53·1	15·1	59·5	52·9	·401	4·5	1·2	79	530	–	–	–	7	9	7	8	–	–	17	3·34
		Sept.	29·586	0·876	74·0	37·0	37·0	62·7	50·4	12·3	55·3	51·0	·375	4·2	0·8	88	531	–	–	–	3	2	7	18	–	–	19	2·93
NOTTINGHAM (Notts), M.O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	241	July	29·641	0·534	88·7	43·0	45·7	77·3	54·4	22·9	64·2	56·4	·456	5·6	1·6	76	523	128·4	46·3	0·3	6	4	9	12	3·0	5·2	16	5·71
		Aug.	29·695	0·710	82·0	43·3	38·7	71·2	51·5	19·7	59·7	51·8	·386	4·3	1·4	75	529	118·9	43·5	0·6	8	9	6	8	1·1	5·8	12	2·93
		Sept.	29·518	0·857	78·1	35·0	43·1	65·6	48·9	16·7	56·4	49·3	·352	4·0	1·0	77	531	108·4	40·6	0·7	2	2	10	16	6·0	1·8	19	2·34
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	39	June	29·826	0·904	80·0	35·0	45·0	66·8	48·9	17·9	57·0	49·3	·351	3·9	1·3	75	534	134·7	43·5	1·6	6	3	12	9	–	5·3	12	1·65
		July	29·866	0·512	85·8	39·6	46·2	73·2	54·4	18·8	62·9	58·1	·481	5·3	0·9	86	528	137·1	48·0	0·9	11	6	11	3	–	5·9	12	3·42
		Aug.	29·921	0·755	76·5	42·2	34·3	66·6	51·6	15·0	56·5	50·5	·368	4·1	1·0	80	536	131·5	45·5	1·2	8	7	11	5	–	5·9	15	5·51
		Sept.	29·735	0·912	75·4	35·6	39·8	63·7	49·5	14·2	56·2	49·6	·357	4·0	1·1	79	533	112·6	43·1	1·5	4	0	17	9	–	6·2	15	2·65
HAWARDEN (Flint), T. Moffat, Esq., M.D., F.R.A.S.	270	July	29·623	0·522	85·0	51·0	34·0	72·0	58·8	13·2	63·0	57·1	·467	5·1	1·2	81	524	135·2	34·7	2·0	10	3	6	12	0·5	6·3	18	6·76
		Aug.	29·669	0·892	79·0	51·0	28·0	67·6	55·5	12·1	60·1	54·3	·422	4·7	1·1	81	528	122·3	32·7	2·0	6	6	11	8	0·7	5·0	17	2·40
		Sept.	29·491	0·845	74·0	41·0	33·0	61·3	52·7	8·6	55·7	49·5	·356	4·0	0·9	80	529	103·9	31·8	2·6	7	1	8	14	1·1	6·6	25	4·88
LIVERPOOL OBSERVATORY, John Hartnup, Esq., F.R.A.S.	197	July	29·721	0·496	82·5	50·0	32·5	70·5	55·7	14·8	61·6	55·5	·440	4·9	1·2	81	527	–	–	0·9	4	5	10	12	–	6·0	16	7·54
		Aug.	29·755	0·870	79·0	49·8	29·2	68·4	53·7	14·7	59·4	53·0	·402	4·5	1·2	80	530	–	–	1·0	3	10	10	8	–	5·5	16	2·16
		Sept.	29·585	0·849	73·2	41·7	31·5	62·5	51·6	10·9	55·9	50·7	·372	4·2	0·8	83	531	–	–	1·7	5	3	8	14	–	6·6	24	6·48
ECCLES, near Manchester, T. Mackereth, Esq., F.R.A.S., F.M.S.	145	July	29·763	0·516	85·7	42·2	43·5	73·0	53·9	19·1	62·0	55·5	·441	4·9	1·3	79	527	89·3	46·4	0·2	7	6	8	10	1·3	4·2	15	7·33
		Aug.	29·794	0·828	83·5	46·0	37·5	69·5	51·1	18·4	59·3	52·7	·399	4·5	1·2	79	535	83·8	43·0	0·2	6	9	6	10	2·0	5·3	20	2·99
		Sept.	29·615	0·860	74·5	34·1	40·4	62·7	48·9	13·8	55·1	48·4	·342	3·8	1·1	79	532	73·0	41·3	0·4	4	2	9	15	2·8	6·2	25	6·53
MOOR SIDE OBSERVATORY, HALIFAX, (Yorkshire), Louis J. Crossley, Esq., F.M.S.	429	July	29·353	0·273	86·5	41·5	45·0	72·1	53·0	19·1	60·8	54·2	·437	4·7	1·2	79	521	119·5	48·3	0·9	6	10	5	10	0·6	4·8	14	4·24
		Aug.	29·405	0·818	78·0	43·0	35·0	67·2	49·9	17·3	56·5	52·2	·392	4·4	0·7	86	527	112·2	47·0	0·9	6	11	5	9	0·9	5·7	18	4·20
		Sept.	29·220	0·874	74·0	35·0	39·0	62·4	47·1	15·3	53·2	49·6	·355	4·0	0·5	88	527	105·1	44·1	1·5	7	3	6	14	1·8	6·0	25	5·53
PARK ROAD OBSERVATORY (Halifax, Yorkshire), Edward Crossley, Esq., F.R.A.S.	618	July	29·253	0·528	85·0	41·7	43·3	69·4	50·3	19·1	59·1	50·5	·369	4·2	1·4	73	522	109·4	–	0·3	5	8	5	12	–	5·6	13	2·77
		Aug.	29·298	0·855	80·0	42·5	37·5	66·4	49·9	16·5	56·3	50·3	·365	4·1	0·9	80	525	103·2	–	0·3	4	12	5	9	–	7·0	16	4·56
THE PARK, HULL (Yorkshire), Mr. E. Peak.	12	July	29·914	0·550	86·0	44·0	42·0	73·1	52·5	20·6	61·3	56·3	·453	5·0	1·0	84	530	101·5	49·8	–	–	–	–	–	2·6	–	11	4·84
		Aug.	29·951	0·740	77·0	41·0	36·0	67·9	50·0	17·9	57·8	53·3	·407	4·5	0·8	79	535	92·7	47·9	–	–	–	–	–	2·6	–	14	2·24
		Sept.	29·733	0·951	76·0	32·0	44·0	62·9	47·8	15·1	54·4	49·8	·358	4·0	0·8	85	535	87·7	46·2	–	–	–	–	–	3·1	–	20	3·65
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.A.S., F.M.S.	381	July	29·474	0·528	83·8	42·0	41·8	71·3	53·3	18·0	60·4	54·8	·430	4·9	1·0	82	524	129·2	50·6	–	4	6	4	17	–	6·8	21	4·49
		Aug.	29·505	0·834	78·8	46·9	31·9	67·9	51·8	16·1	58·3	52·8	·400	4·4	1·0	81	527	121·5	48·7	–	7	9	5	10	–	7·0	21	5·57
		Sept.	29·299	0·837	74·0	35·1	38·9	61·4	49·2	12·2	54·1	48·6	·343	3·9	0·8	81	528	110·2	45·6	–	4	1	6	19	–	7·2	29	8·85

	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	365	July	29·497	0·510	86·4	48·0	38·4	72·7	55·9	17·8	62·9	52·4	·398	4·4	2·0	68	528	100·4	–	0·7	–	–	–	–	–	3·6	11	3·98
		Aug.	29·545	0·735	79·2	47·4	31·8	68·8	53·9	14·9	59·6	50·3	·366	4·1	1·6	72	526	92·6	–	0·8	–	–	–	–	–	4·3	14	2·73
		Sept.	29·297	0·877	73·8	33·5	40·3	63·8	51·1	12·7	56·2	48·4	·342	3·9	1·2	75	525	83·1	–	1·0	–	–	–	–	–	5·1	20	3·92
LEEDS PHILOSOPHICAL HALL (Yorkshire). Louis C. Miall, Esq.	137	July	29·755	0·444	93·0	47·0	46·0	76·5	54·9	21·6	64·1	52·9	·402	4·5	2·1	67	525	85·0	–	1·3	5	6	9	11	–	6·0	12	5·59
		Aug.	29·808	0·829	86·0	45·0	41·0	71·2	52·2	19·0	60·3	50·8	·371	4·2	1·7	70	530	83·9	–	1·2	6	9	7	9	–	7·3	18	2·23
		Sept.	29·599	0·879	75·0	36·0	39·0	64·4	49·1	15·3	55·8	49·6	·358	4·0	0·9	81	531	77·7	–	1·7	7	1	6	16	–	6·9	22	4·08
YORK (Yorkshire), J. F. Fryer, Esq.	50	July	29·828	0·542	83·0	47·0	36·0	70·6	53·0	17·6	62·1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	14	4·72
		Aug.	29·880	0·832	76·0	41·0	35·0	65·5	52·2	13·3	57·8	54·6	·427	4·6	0·7	89	534	–	–	–	4	12	10	5	–	–	15	2·64
		Sept.	29·644	0·853	72·0	37·0	35·0	60·4	49·1	11·3	54·3	52·3	·364	4·1	0·6	86	533	–	–	–	5	2	12	11	–	6·3	22	3·69
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.R.A.S., F.M.S.	148	July	29·751	0·694	84·1	41·4	42·7	70·2	54·6	15·6	61·1	52·7	·398	4·5	1·5	74	528	115·2	49·2	0·4	9	5	7	10	2·0	5·2	17	4·04
		Aug.	29·778	0·863	83·5	40·8	42·7	69·2	52·3	16·9	59·6	52·2	·389	4·4	1·3	77	530	109·2	46·1	0·4	6	9	8	8	1·6	6·8	17	3·88
		Sept.	29·559	0·918	77·8	31·5	46·3	61·9	49·6	12·3	54·7	48·1	·334	3·8	1·0	78	532	92·5	43·1	0·8	8	5	5	12	3·6	7·6	25	6·96
ALLENHEADS (Northumberland), Mr. S. Stobbs, Assistant to W. B. Beaumont, Esq., M.P.	1360	July	28·456	0·516	83·0	40·0	43·0	68·0	51·0	17·0	57·4	52·8	·400	4·5	0·8	85	509	114·3	48·6	0·3	–	–	–	–	–	5·8	18	4·14
		Aug.	28·486	0·806	74·0	37·5	36·5	61·2	47·1	14·1	53·2	49·2	·349	4·0	0·6	86	514	109·1	45·5	1·6	–	–	–	–	–	6·7	21	3·43
		Sept.	28·228	0·947	70·0	31·5	38·5	57·7	44·0	13·7	49·5	49·0	·348	4·0	0·0	98	531	91·7	41·7	0·2	–	–	–	–	–	7·0	27	6·02
SILLOTH RECTORY (Cumberland), Rev. Francis Redford, M.A., F.R.A.S., F.M.S.	28	July	29·879	0·484	81·3	42·3	39·0	72·2	53·6	18·6	61·0	54·8	·430	4·8	1·2	80	530	107·5	48·9	1·1	2	11	5	13	8·4	5·0	12	4·01
		Aug.	29·900	0·907	81·5	42·0	39·5	70·6	50·8	19·8	59·0	52·9	·401	4·5	1·1	80	533	105·3	46·4	1·0	3	16	3	9	8·4	4·8	17	3·01
		Sept.	29·676	0·970	75·9	34·5	41·4	63·6	48·4	15·2	55·0	49·1	·349	3·9	1·0	81	533	93·4	44·6	1·4	4	3	5	18	9·0	6·8	25	5·52
CARLISLE (Cumberland), J. Cartmell, Esq., F.M.S.	114	July	29·804	0·525	82·3	40·1	42·2	71·3	51·8	19·5	60·0	55·1	·435	4·8	0·9	80	530	105·9	48·5	1·4	6	7	5	13	5·1	5·5	15	3·80
		Aug.	29·814	0·888	81·4	39·3	42·1	68·9	48·9	20·0	58·0	51·4	·380	4·3	1·1	79	533	99·8	45·3	1·4	6	8	7	10	5·1	6·3	21	3·50
		Sept.	29·580	0·958	77·3	31·6	45·7	61·6	46·3	15·3	52·9	48·1	·387	3·8	0·7	85	534	85·9	45·6	2·1	4	5	5	16	6·8	7·1	25	4·74
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	June	29·681	0·968	76·0	44·0	32·0	67·1	52·7	14·4	57·7	51·4	·375	4·2	1·1	78	529	92·4	46·0	1·2	5	3	4	18	–	4·5	22	2·57
		July	29·788	0·509	83·0	46·0	37·0	70·0	56·7	13·3	61·5	51·3	·377	4·2	1·9	69	531	101·8	50·8	1·1	6	10	3	12	–	4·0	15	4·60
		Aug.	29·838	0·770	80·0	48·0	32·0	67·6	55·0	12·6	59·0	51·6	·383	4·3	1·3	77	532	87·4	49·3	0·1	–	–	–	–	–	5·2	17	4·18
		Sept.	29·560	1·007	72·0	37·0	35·0	60·0	48·0	12·0	52·6	46·0	·311	3·6	1·0	79	534	71·5	41·4	1·5	–	–	–	–	–	4·8	24	5·20
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	July	29·822	0·485	81·0	46·8	34·2	66·1	53·9	12·2	58·9	51·5	·382	4·2	1·4	76	532	–	52·6	1·4	9	7	6	9	–	5·6	18	2·39
		Aug.	29·878	0·963	72·2	45·2	27·0	61·5	52·2	9·3	55·8	50·4	·367	4·1	0·9	83	536	–	51·0	1·6	8	7	8	8	–	6·3	21	3·71
		Sept.	29·618	0·947	70·0	35·8	34·2	58·6	48·0	10·6	52·7	46·8	·320	3·6	0·9	80	535	–	46·3	2·1	12	2	4	12	–	5·6	20	4·79
MILTOWN (Banbridge, Ireland), John Smyth, Esq., jun., M.A., M.I.C.E.I.	200	July	29·673	0·449	74·0	42·0	32·0	68·7	52·2	16·5	59·1	52·4	·395	4·5	1·1	79	529	113·9	50·8	1·4	11	5	9	6	2·4	4·2	11	3·31
		Aug.	29·707	0·895	72·0	39·0	33·0	65·7	51·5	14·2	57·6	50·8	·376	4·2	1·1	79	531	106·6	50·0	2·0	8	8	9	6	2·4	4·9	15	4·21
		Sept.	29·424	0·919	73·0	35·0	38·0	60·3	48·0	12·3	53·6	48·5	·339	3·8	0·8	82	530	94·9	44·7	2·4	4	4	10	12	3·6	5·6	28	4·37
CULLODEN (Inverness, Scotland), A. Forbes, Esq., F.M.S.	104	July	29·814	0·626	74·2	46·7	27·5	62·3	54·4	7·9	58·2	52·8	·406	4·5	0·9	82	532	101·1	47·6	0·3	5	8	6	12	8·2	6·5	18	3·14
		Aug.	29·835	0·827	65·2	46·5	18·7	59·9	52·4	7·5	56·1	51·3	·381	4·2	0·8	84	535	95·4	44·1	0·2	7	11	5	8	7·7	6·4	16	2·41

NOTE.—*The Barometer Reading*, St. John's College, Battersea, July 22d, 3 h. P.M., 29·020 inches has been altered to 30·020 inches; and on July 23d, 3 h. P.M., 28·880 inches has been altered to 29·880 inches.
August.—Weybridge Heath. The values are deduced from 23 days observations, viz., 9th to 31st.
August.—Bywell. The values are deduced from 25 days observations, viz., 1st to 25th.
September. " " " 22 days, viz., 9th to 30th.

Second Rain-gauges are placed—

			July.	August.	September.	Total during the Quarter.
At Eastbourne, at the height of 160 feet	*above the sea*,	the amount collected was	1·93 inches.	2·07 inches.	6·01 inches.	
" Beachy Head, " 610 feet	"	"	1·62 "	1·07 "	1·62 "	4·31 "
" Portsmouth, " 20 feet	*above the ground*	"	3·50 "	1·55 "	1·79 "	6·84 "
" Strathfield Turgiss, " 38 feet	"	"	2·90 "	1·22 "	0·93 "	5·05 "
" Eccles, Manchester, " 34 feet	"	"	6·95 "	2·61 "	5·71 "	15·27 "
" Allenheads, " 6¾ feet	"	"	4·41 "	3·65 "	6·55 "	14·61 "
" Carlisle, " 3 feet	"	"	4·04 "	3·10 "	2·31 "	9·45 "
" Miltown, Ireland, " 40 feet	"	"	3·31 "	3·86 "	4·17 "	11·34 "
" Brighton, " 35 feet	"	"	1·24 "	1·47 "	1·16 "	3·87 "
" Radcliffe Observatory, " 22 feet	"	"	3·18 "	1·07 "	0·86 "	5·11 "
" Marlborough College, " 8 inches	"	"	2·54 "	2·24 "	1·08 "	5·86 "
" " " 1 foot	"	"	2·56 "	2·28 "	1·06 "	5·90 "
" Cardington, " 36 feet	"	"	3·80 "	2·60 "	0·85 "	7·25 "
" Boston, " 6 feet	"	"	— "	— "	— "	— "
" Nottingham, " 25½ feet	"	"	5·68 "	2·94 "	2·14 "	10·76 "
" Wisbech, " 8 feet	"	"	5·66 "	4·49 "	2·43 "	12·58 "
" Aldershot Camp, " 25 feet	"	"	2·38 "	1·93 "	1·27 "	5·58 "
" Cockermouth, " 6¼ feet	"	"	3·79 "	3·59 "	6·60 "	13·98 "
" Holkham, " 4 feet	"	"	3·42 "	6·23 "	2·65 "	12·30 "

The rain-fall on Beachy Head in April was 0·70 in., in May was 2·21 in., and in June 4·21 in.

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey - - -	29·533	78·5	41·5	37·0	65·6	56·5	26·5	9·1	60·1	54·3	·421	4·7	1·0	81	529	—	—	1·1	5	5	8	12	3·8	3·6	41	8·88
Helston - - -	29·549	84·0	35·0	49·0	69·5	57·0	36·3	12·5	61·6	54·2	·422	4·8	1·5	77	527	97·2	49·7	2·1	5	4	10	12	4·3	5·0	47	8·54
Truro - - -	29·569	83·0	31·0	52·0	67·8	54·3	37·6	13·5	59·1	52·2	·393	4·4	1·2	78	533	—	—	2·5	8	6	6	11	—	6·2	47	7·94
Sidmouth - - -	29·525	75·2	35·2	40·0	66·2	53·5	29·3	12·7	59·1	55·4	·440	4·9	0·7	88	533	—	—	1·1	6	2	9	14	—	2·8	48	8·20
Osborne - - -	29·504	87·1	34·0	53·1	72·2	53·3	31·4	18·9	61·1	55·9	·447	5·0	1·0	83	528	107·8	51·5	0·7	4	5	11	11	—	5·4	40	6·67
Portsmouth - -	29·559	81·6	33·0	48·6	71·2	51·2	38·5	20·0	60·2	51·8	·387	4·3	1·5	75	533	116·5	45·7	1·5	3	5	10	12	2·7	5·8	45	7·32
Worthing - - -	29·507	78·0	35·1	42·9	69·0	55·0	31·4	14·0	60·8	54·2	·421	4·6	1·2	79	531	130·3	49·4	1·0	5	4	8	14	5·5	4·9	32	5·12
Brighton - - -	29·514	81·8	37·7	44·1	68·7	55·1	32·6	13·6	60·6	54·8	·426	4·7	1·2	81	528	115·2	50·7	1·1	5	4	8	14	0·8	5·5	38	5·31
Lymington - - -	29·561	84·2	31·0	53·2	70·1	53·6	42·0	16·5	61·9	51·0	·377	4·1	2·0	68	530	—	—	0·7	5	5	9	12	—	4·5	32	7·05
Wilton House - -	29·499	88·0	29·0	59·0	73·1	49·9	46·5	23·2	60·1	54·7	·430	4·8	1·0	82	528	114·8	48·2	1·3	7	1	14	8	3·9	5·3	34	7·21
Barnstaple - - -	29·501	89·0	35·5	53·5	69·4	54·6	39·3	14·8	61·2	54·4	·425	4·7	1·3	79	530	—	—	1·3	2	3	13	12	—	3·6	55	14·31
Aldershot Camp -	29·459	88·4	35·4	53·0	73·6	52·7	40·3	20·9	61·0	55·8	·450	5·0	1·0	85	525	118·4	43·8	1·3	5	5	9	12	1·9	6·3	37	6·53
Strathfield Turgiss -	29·525	89·0	30·2	58·8	72·8	50·5	46·8	22·3	60·4	52·9	·402	4·5	1·3	77	530	125·0	45·2	0·7	5	6	9	11	4·5	5·0	39	6·09
Marlborough College	29·558	83·3	30·2	53·1	68·4	50·4	43·1	18·0	58·2	51·6	·382	4·3	1·2	81	526	134·1	39·9	—	7	3	9	12	2·9	6·0	41	6·03
Royal Observatory -	29·508	90·9	34·5	56·4	73·1	52·1	42·5	21·0	61·1	54·0	·419	4·7	1·4	77	528	126·5	45·2	0·3	5	5	8	13	—	6·2	37	6·45
The Guildhall - -	—	88·0	42·0	46·0	70·5	57·6	32·5	12·9	62·7	53·0	·403	4·5	1·9	71	525	—	—	—	—	—	—	—	—	—	36	6·88
Streatley Vicarage -	29·549	88·2	35·6	52·6	70·3	49·8	44·2	20·5	59·6	53·7	·415	4·6	1·1	81	530	81·8	—	1·6	6	4	7	13	—	5·4	43	7·99
St. John's Battersea	29·472	87·5	31·0	56·5	70·7	50·4	44·5	20·3	59·5	53·0	·406	4·5	1·2	79	535	97·6	44·4	1·6	—	—	—	—	—	6·0	35	6·14
Camden Town - -	29·511	92·3	33·0	59·3	73·0	53·1	44·9	19·9	61·2	53·1	·406	4·5	1·5	74	528	111·9	51·3	—	6	2	8	14	—	5·1	38	6·26
Chiswick - - -	29·517	90·5	28·6	61·9	72·3	50·9	48·2	21·4	60·3	53·1	·407	4·5	1·3	77	531	127·5	46·4	—	5	5	11	10	—	—	36	5·00
Oxford - - -	29·529	85·3	34·7	50·6	69·8	52·5	40·0	17·3	60·1	52·3	·394	4·4	1·3	76	529	120·5	46·6	0·9	6	4	9	12	2·4	7·1	43	5·10
Gloucester - - -	29·545	89·2	34·0	55·2	72·6	53·5	43·5	19·1	61·6	53·9	·417	4·6	1·5	76	529	114·1	53·0	0·7	7	4	7	13	2·5	5·6	36	10·13
Royston - - -	29·521	91·5	35·9	55·6	73·0	51·6	45·7	21·4	60·2	53·3	·410	4·5	1·3	78	527	—	—	—	—	—	—	—	—	5·7	36	5·59
Cardington - -	29·502	88·4	32·0	56·4	71·4	51·6	42·8	19·8	60·6	54·3	·423	4·7	1·2	80	530	99·9	44·5	0·8	6	5	9	11	—	5·0	39	8·45
Leamington - -	29·490	88·0	36·0	52·0	71·1	53·0	39·7	18·1	62·7	53·8	·415	4·6	1·5	76	527	—	—	0·5	6	5	7	13	—	5·6	41	9·47
Somerleyton Rectory	29·417	83·4	31·8	51·6	69·1	52·3	42·2	16·8	59·7	54·5	·428	4·8	1·0	83	531	—	44·5	1·1	6	6	9	10	6·5	4·9	41	7·46
Norwich - - -	29·462	86·5	32·0	54·5	69·3	51·9	39·1	17·4	59·7	53·1	·412	4·5	1·2	79	531	—	—	—	6	5	9	11	—	—	42	7·99
Wisbech - - -	29·457	87·3	34·0	53·3	70·4	52·4	40·6	18·0	60·3	54·5	·428	4·7	1·1	82	531	117·0	49·6	0·6	5	6	9	11	—	6·0	46	12·90
Llandudno - - -	29·497	86·0	43·6	42·4	68·3	53·6	37·3	14·7	59·7	52·1	·390	4·2	1·5	75	530	—	—	0·7	5	4	6	15	—	6·0	49	12·44
Derby - - -	29·462	86·0	37·0	49·0	68·1	53·2	37·0	14·9	59·4	53·1	·405	4·5	1·2	81	529	—	—	—	6	5	9	11	—	—	49	10·95
Holkham - - -	29·480	85·8	35·6	50·2	67·8	51·8	40·1	16·0	58·5	52·7	·402	4·5	1·0	82	532	127·1	45·5	1·2	8	4	13	6	—	6·0	42	11·68
Hawarden - - -	29·435	85·0	41·0	44·0	67·0	55·7	31·6	11·3	59·6	53·5	·415	4·6	1·1	81	527	120·5	33·1	2·2	8	3	8	11	0·8	6·0	60	14·04
Liverpool - - -	29·492	82·5	41·7	40·8	67·1	53·7	31·1	13·4	59·0	53·1	·405	4·5	1·1	81	529	—	—	1·2	4	6	9	11	—	6·0	56	16·18
Eccles - - -	29·483	85·7	34·1	51·6	68·4	51·3	40·5	17·1	58·8	52·2	·394	4·4	1·2	79	531	82·0	43·6	0·3	6	6	7	12	2·0	5·2	60	16·85
Moorside Observatory	29·391	86·5	35·0	51·5	67·2	50·0	39·7	17·2	56·8	52·0	·395	4·4	0·8	84	525	112·3	46·5	1·1	6	8	5	11	1·1	5·5	57	13·97
Hull - - -	29·477	83·0	32·0	54·0	68·0	50·1	40·7	17·9	57·8	53·1	·403	4·5	0·9	83	533	94·0	48·0	—	—	—	—	—	2·8	—	45	10·73
Stonyhurst - -	29·441	83·8	35·1	48·7	66·9	51·4	37·5	15·5	57·6	52·1	·391	4·4	0·9	81	526	120·3	48·3	—	5	5	5	15	—	7·0	71	18·91
Bradford - - -	29·446	86·4	33·5	52·9	68·7	53·6	36·8	15·1	59·6	47·0	·369	4·1	1·6	72	526	92·0	—	0·8	—	—	—	—	—	4·3	45	10·68
Leeds - - -	29·490	93·0	36·0	57·0	70·7	52·1	42·0	18·6	60·1	51·1	·377	4·2	3·6	73	529	82·2	—	1·4	6	5	7	12	—	6·7	52	11·90
York - - -	—	83·0	37·0	46·0	65·5	51·4	35·3	14·1	58·1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	51	11·05
Cockermouth - -	29·475	84·1	31·5	52·6	67·1	52·2	43·9	14·9	58·5	51·0	·377	4·2	1·3	76	530	105·6	46·1	0·5	7	6	7	10	2·4	6·5	59	14·88
Allenheads - -	29·479	83·0	31·5	51·5	62·3	47·4	39·3	14·9	53·4	50·3	·366	4·2	0·5	90	518	105·0	45·3	0·7	—	—	—	—	—	6·5	66	13·59
Silloth - - -	29·455	81·5	34·5	47·0	68·8	50·9	40·0	17·9	58·3	52·3	·393	4·4	1·1	80	532	102·1	46·6	1·2	3	10	4	13	8·6	5·5	54	12·54
Carlisle - - -	29·453	82·3	31·6	50·7	67·3	49·0	43·3	18·3	57·0	51·5	·401	4·3	0·9	81	532	97·2	46·5	1·6	5	6	6	13	5·7	6·3	61	12·04
Bywell - - -	29·464	83·0	37·0	46·0	65·9	53·2	34·6	12·7	57·7	49·6	·357	4·0	1·4	75	532	86·9	47·2	0·9	—	—	—	—	—	4·7	56	13·98
North Shields - -	29·548	81·0	35·8	45·2	62·1	51·4	31·8	10·7	55·8	49·6	·356	4·0	1·1	80	534	—	50·0	1·7	10	5	6	10	—	5·8	59	10·89
Miltown (Ireland) -	29·443	74·0	35·0	39·0	64·9	50·6	34·3	14·3	56·8	50·6	·370	4·2	1·0	80	530	105·1	48·5	1·9	8	6	9	8	2·8	4·9	54	11·89

The highest temperatures of the air were at Leeds, 93°·0; Camden Town, 92°·3; Royston, 91°·5; Royal Observatory, 90°·9; Chiswick, 90°·5; Gloucester, 89°·2; and at Barnstaple and Strathfield Turgiss, 89°·0 respectively.

The lowest temperatures of the air were at Chiswick, 28°·6; Wilton House, 29°·0; Strathfield Turgiss and Marlborough College, 30°·2 respectively; and at Lymington and St. John's College, Battersea, 31°·0 respectively.

The greatest daily ranges of the temperatures of the air were at Wilton House, 23°·2; Strathfield Turgiss, 22°·3; Chiswick and Royston, 21°·4 respectively; and at the Royal Observatory, 21°·0.

The least daily ranges of the temperatures of the air were at Guernsey, 9°·1; North Shields, 10°·7; Hawarden, 11°·3; Helston, 12°·5; Sidmouth and Bywell, 12°·7 respectively; Guildhall, 12°·9; and at Liverpool, 13°·4.

The greatest numbers of rainy days were at Stonyhurst, 71; Allenheads, 66; Carlisle, 61; Hawarden and Eccles, 60 respectively; Cockermouth and North Shields 59 respectively; and at Halifax, 57.

The least numbers of rainy days were at Worthing and Lymington 32 respectively; Wilton House, 34; St. John's College, Battersea, 35; and at Chiswick, Guildhall, Gloucester, and Royston, 36 respectively.

The heaviest falls of rain were at Stonyhurst, 18·91 inches; Eccles, 16·85 inches; Liverpool, 16·18 inches; Cockermouth, 14·88 inches; Barnstaple, 14·31 inches; Hawarden, 14·04 inches; Bywell, 13·98 inches; and at Halifax, 13·97 inches.

The least falls of rain were at Chiswick, 5·00 inches; Oxford, 5·10 inches; Worthing, 5·12 inches; Brighton, 5·31 inches; Royston, 5·59 inches; and at Marlborough College, 6·03 inches.

QUARTERLY METEOROLOGICAL TABLE for different PARALLELS of LATITUDE.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days it fell.	Rain. Mean Amount col. Inches.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey - - - -	29·533	78·5	41·5	37·0	65·6	56·5	26·5	9·1	60·1	54·3	·421	4·7	1·0	81	529	—	—	1·1	5	5	8	12	3·8	3·6	41	8·88
Between the latitudes 50° and 51° -	29·536	81·9	34·0	47·9	69·3	54·1	44·9	15·2	60·5	53·7	·414	4·6	1·3	79	530	113·5	49·4	1·3	5	4	9	13	3·3	5·0	41	7·76
Between the latitudes 51° and 52° -	29·514	88·5	32·6	55·9	71·6	51·7	44·2	19·9	60·4	53·5	·413	4·6	1·3	79	528	115·7	46·4	1·1	6	4	9	12	3·0	5·6	31	6·77
Between the latitudes 52° and 53° -	29·476	87·0	35·3	51·7	69·8	52·4	40·5	17·4	60·1	53·5	·413	4·6	1·2	80	530	114·7	46·0	0·8	6	5	9	11	—	5·6	43	9·70
Between the latitudes 53° and 54° -	29·461	85·8	36·2	49·6	67·7	52·1	37·2	15·6	58·6	51·8	·394	4·4	1·4	79	528	100·5	43·9	1·2	6	6	7	12	1·8	5·8	55	12·40
Between the latitudes 54° and 55° -	29·465	82·8	33·2	49·6	63·3	50·5	40·2	15·8	57·0	50·9	·379	4·2	1·0	80	529	99·4	46·3	1·0	5	7	6	12	5·6	5·9	58	13·45
North Shields - - -	29·548	81·0	35·8	45·2	62·1	51·4	31·8	10·7	55·8	49·6	·356	4·0	1·1	80	534	—	50·0	1·7	10	5	6	10	—	5·8	59	10·89
Miltown (Ireland) -	29·443	74·0	35·0	39·0	64·9	50·6	34·3	14·3	56·8	50·6	·370	4·2	1·0	80	530	105·1	48·5	1·9	8	6	9	8	2·8	4·9	54	11·89
Mean for the Quarter 50° to 55° — Year 1869	29·587	86·8	37·6	49·2	69·4	51·8	40·7	17·6	59·5	52·3	·393	4·3	1·3	77	531	107·1	43·8	1·2	6	5	7	13	4·3	5·4	36	4·26
Mean for the Quarter 50° to 55° — „ 1870	29·619	86·1	37·2	48·9	70·1	51·3	33·5	18·8	59·6	52·0	·390	4·3	1·4	76	531	108·5	44·6	1·0	8	6	6	11	3·7	4·7	29	9·40
Mean for the Quarter 50° to 55° — „ 1871	29·517	84·5	36·9	47·6	67·0	50·2	37·0	16·8	58·9	52·2	·394	4·4	1·2	79	530	108·7	46·8	1·0	5	6	8	12	4·0	5·5	44	9·40
Mean for the Quarter 50° to 55° — „ 1872	28·489	85·2	34·3	50·9	68·9	52·2	41·4	16·7	59·3	52·7	·403	4·5	1·2	79	529	108·7	46·4	1·1	6	5	8	12	3·4	5·6	46	10·71

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING DECEMBER 31, 1872.

REMARKS ON THE WEATHER DURING THE QUARTER ENDING DECEMBER 31ST, 1872.

By JAMES GLAISHER, ESQ., F.R.S., *&c.*

Till the 24th of October the weather was cold, notwithstanding a prevalence of S.W. and W.S.W. winds, and the average deficiency of daily temperature was 3°¾. A warm period set in on the 25th, and continued till November 9th, the average daily excess of mean temperature being 3°½. From November 10th to November 19th was a steady cold period, with the wind from the N. and N.E., the average daily deficiency of temperature being 5°¼. On November 20th a period followed of as warm weather as that preceding was cold, the daily excess on the average of 14 days ending December 3rd, being 6°. The direction of the wind was from the S.W. and W.S.W. This was succeeded by a period of changing weather, there having been a few days with excess and a few days with defect, alternately, the latter rather predominating, as the mean daily departure for 16 days ending December 19th was 1°½ below the average. On December 20th an extraordinary warm period set in and continued to the end of the year, the average daily excess for this period was more than 9°. The direction of the wind was almost constantly from the west. The mean temperature of the month of November was 2°½ below that in October, and that of December was about 2°¼ below that of November, while the average decline at Greenwich from October to November is 7°¼, and from November to December is 3°¼. The mean decline from October to November from all stations was 2°¾, and from November to December was 2°½.

The mean temperatures of November and December were above their averages, but this fact was greatly due to high night temperature; the average low night temperature in November was 40°·8; since 1841 the instances of average low night temperature in this month exceeding 40°, were:

1863 when it was 40°·3; 1852 when it was 44°·1; 1847 when it was 40°·8
1857 „ 40°·6; 1850 „ 41°·0; 1848 „ 40°·3

Therefore back to 1841 there have been only six Novembers with nights so warm as in November 1872.

The mean night temperature in December was 38°·7, the previous instances to 1841 are:

1868 when it was 41°·1; 1862 when it was 38°·6; 1852 when it was 42°·4
1865 „ 38°·1; 1857 „ 39°·6; 1843 „ 40°·3
1842 „ 40°·2

or 7 instances in all.

The readings of the barometer at 159 feet above the sea level were remarkably low throughout the quarter, the mean values for each month being:—October 29·533 in., November 29·511 in., and December 29·413 in., and the departures below the averages were 0·171 inches, 0·252, and 0·397 respectively. The ranges of readings in each month were, however, somewhat large, amounting to more than an inch in the first and last months and 1½ in. in November. It is very rarely that such a long period of continuous depression is experienced. In 1841 the mean for the corresponding quarter was about 29·5 in. but there has been no instance since that year of any approach to such low readings for so lengthened a time, though on several occasions the values for single months have been in defect of the number given above.

The principal movements during the quarter were as follows:—

	Inches.				Inches.		
An increase to	30·199	on Oct.	6;	A decrease to	29·156	on Oct.	10.
„	29·850	„	14;	„	29·123	„	16.
„	29·614	„	19;	„	29·036	„	24.
„	29·913	„	29;	„	29·144	Nov.	2.
„	30·211	Nov.	7;	„	29·531	„	10.
„	29·910	„	12;	„	29·008	„	23.
„	29·622	„	27;	„	28·704	„	30.
„	29·834	Dec.	5;	„	28·689	Dec.	10.
„	29·841	„	12;	„	29·178	„	17.
„	29·740	„	22;	„	28·971	„	25.
„	29·793	„	30;	„	29·397	„	31.

The most remarkable feature has been the frequency of rain. During the quarter it has fallen at Greenwich on 67 days, a greater number than had been previously experienced at Greenwich back to the year 1815. The total fall is large, amounting to 11·32 inches. The previous instances of large falls at Greenwich are as follows:—

Year.	Amount fallen. October.	November.	December.	Total fall in the Quarter.	Number of Days of Rain in Oct.	Nov.	Dec.	The Quarter.
	in.	in.	in.	in.				
1821 - -	2·42	4·33	4·72	11·47	11	20	19	50
1822 - -	3·60	3·66	2·26	9·52	12	16	6	34
1824 - -	2·44	3·88	3·55	9·87	12	14	17	43
1831 - -	3·65	2·70	3·47	9·82	19	15	19	53
1832 - -	4·41	4·48	2·08	10·97	16	15	16	47
1833 - -	2·87	2·51	4·95	10·33	13	11	27	51
1841 - -	5·84	2·75	1·92	10·51	22	13	18	53
1844 - -	4·01	4·74	0·34	9·09	15	13	6	34
1852 - -	3·75	5·66	1·72	11·13	15	22	19	56
1865 - -	5·90	2·39	0·87	9·16	19	18	10	47
1868 - -	2·59	1·16	5·45	9·20	13	12	23	48
1872 - -	4·33	2·92	4·07	11·32	22	24	21	67

The Table shows that the total fall in the quarter has been but once exceeded, viz., in the year 1821, when it was 11·47 inches or 0·15 greater; back to 1815, there is only one other instance of a fall exceeding 11 inches, viz., in 1852. The Table shows that in 58 years there have been 12 instances of the fall in the three months ending December exceeding 9 inches, of which six were between 9 and 10; three between 10 and 11, and three exceeding 11 inches. The number of days of rain are shown in the last column, they differ greatly, and all are less in number than in the quarter just closed. This unusual frequency of rain has been general over the country. At Stonyhurst in Lancashire, rain fell on every day in the quarter except two, and at Guernsey on 80 days, and the general average over the country was 67 days. The amount at Guernsey is very remarkable being as large as 25¼ inches. The average fall of rain from all the stations was 13·97 inches being more than double of the fall in the corresponding period of the year 1871, which was 6·09 inches. The smallest falls of rain at Greenwich in this quarter were in 1851, when it was 2·92 inches, and in 1871 when it was 3·17 inches, in both cases preceding the two heaviest falls.

The mean temperature of October was 47°·8, being 1°·8 lower than the average of the preceding 101 years; and lower than in any year back to 1850 when the value recorded was 47°·0.

The mean temperature of November was 45°·3, being 3°·0 higher than the average of the preceding 101 years, and higher than in any preceding year since 1863 (45°·7) and then again to 1857 (45°·8).

The mean temperature of December was 42°·9, being 3°·8 higher than the average of the preceding 101 years, higher than in the years 1869–71, but lower than in 1868 when 46°·0 was recorded.

The mean high day temperatures were respectively 1°·9 and 2°·0 higher than their averages in November and December, but 1°·8 lower in October.

The mean low night temperatures were higher than their averages in November and December by 3°·7 and 3°·2 respectively, but lower in October by 2°·7.

Therefore the days and nights were cold in October and warm in November and December.

The daily ranges of temperature were less than their respective averages in November and December by 1°·7 and 1°·2, but greater in October by 0°·8.

The fall of rain was 1·5 in., 0·6, and 2·1 in. in excess of the average in October, November, and December respectively.

The mean temperature of the air in the three months ending November, constituting the three autumn months, was 50°·2, being 0°·7 higher than the average for 101 years.

1872. Months.	Temperature of Air. Mean.	Temperature of Air. Diff. from average of 101 years.	Temperature of Air. Diff. from average of 31 years.	Temperature of Evaporation. Mean.	Temperature of Evaporation. Diff. from average of 31 years.	Temperature of Dew Point. Mean.	Temperature of Dew Point. Diff. from average of 31 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 31 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 31 years.	Weight of vapour in a Cubic Foot of Air. Mean.	Weight of vapour in a Cubic Foot of Air. Diff. from average of 31 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	grs.
Oct. -	47·8	−1·8	−2·5	46·5	−1·8	45·0	−1·2	15·6	+0·8	51·0	0·299	−0·015	3·4	−0·3
Nov. -	45·3	+3·0	+1·7	43·6	+2·3	41·7	+2·2	10·0	−1·7	46·0	0·264	+0·017	3·1	+0·3
Dec. -	42·9	+3·8	+2·7	41·4	+2·7	39·7	+2·8	8·3	−1·2	41·5	0·244	+0·023	2·8	+0·2
Mean -	45·3	+1·7	+0·6	43·8	+1·1	42·1	+1·3	11·3	−0·7	46·2	0·269	+0·008	3·1	+0·1

1872. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 31 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 31 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 31 years.	Rain. Amount.	Rain. Diff. from average of 57 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Number of Nights it was Between 30° and 40°.	Number of Nights it was Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
Oct. -	91	+ 4	29·533	−0·171	539	0	4·3	+1·5	234	10	14	7	25·4	49·0
Nov. -	87	− 1	29·511	−0·252	541	− 7	2·9	+0·6	416	6	19	5	26·8	46·2
Dec. -	88	0	29·413	−0·397	542	−10	4·1	+2·1	346	8	19	4	17·9	43·0
Mean -	89	+ 1	29·486	−0·273	541	− 6	Sum 11·3	Sum +4·2	Mean 332	Sum 24	Sum 52	Sum 16	Lowest 17·9	Highest 49·0

NOTE.—In reading this table it will be borne in mind that the minus sign (−) signifies below the average, and that the plus sign (+) signifies above the average.

Thunderstorms occurred on the 2d of October at Streatley; on the 3d at London, Royston, Somerleyton, Norwich, and Carlisle; on the 4th at Guernsey and Brighton; on the 5th at Eastbourne; on the 9th at Liverpool; on the 11th at Guernsey, Taunton, Llandudno, and Liverpool; on the 17th at Guernsey; on the 25th at Holkham; and on the 26th at Osborne, Brighton, Somerleyton, and Cockermouth. On the 1st of November at York; on the 2d at York; on the 9th at Guernsey; on the 10th at Hawarden; on the 19th at Cockermouth; on the 24th at Truro, Llandudno, and Cockermouth; on the 25th at Oxford; on the 26th at Eastbourne, Osborne, Portsmouth, Brighton, and Lymington; and on the 30th at Sidmouth, Taunton, Aldershot Camp, Marlborough College, and Lampeter. On the 7th of December at Guernsey and Helston; on the 8th at Eastbourne; and on the 10th at Eastbourne.

Thunder was heard, but lightning was not seen, on the 2d of October at Streatley; on the 3d at Weybridge; on the 11th at Marlborough College and Hawarden; on the 24th at Guernsey; on the 26th at Portsmouth; on the 30th at Bywell; and on the 31st at Strathfield Turgiss. On the 2d of November at Truro; on the 9th at Halifax; on the 18th at Eastbourne; and on the 30th at Portsmouth and Wisbech. On the 25th of December at Bywell.

Lightning was seen, but thunder was not heard, on the 2d of October at Eastbourne and Carlisle; on the 3d at Brighton; on the 4th at Norwich; on the 5th at Osborne, Portsmouth, Brighton, Taunton, Lymington, Weybridge, and Oxford; on the 10th at Eastbourne; on the 11th at Eastbourne, Osborne, Brighton, Llandudno, and Stonyhurst; on the 12th at Eastbourne; on the 26th at Portsmouth, Aldershot Camp, Holkham, and Carlisle; and on the 31st at Hawarden, Eccles, Stonyhurst, York, and Carlisle. On the 1st of November at Guernsey, Oxford, and Silloth; on the 2d at Brighton; on the 9th at Oxford; on the 10th at Guernsey and Oxford; on the 17th at Brighton and Streatley; on the 25th at Guernsey, Truro, Oxford, Gloucester, and Llandudno; on the 26th at Truro, Bournemouth, Taunton, Oxford, Gloucester, and Llandudno; and on the 30th at Brighton and Salisbury. On the 1st of December at Hull; on the 2d at Guernsey; on the 8th at Salisbury; on the 9th at Eastbourne; and on the 24th at Liverpool and Silloth.

Solar halos were seen on the 1st of October at Brighton; on the 12th at Brighton; and on the 20th at Stonyhurst. On the 9th and 20th of November at Oxford. On the 2d of December at Salisbury and Oxford.

Lunar halos were seen on two occasions in October; three in November; and on eleven in December.

Auroræ Boreales were seen on the 3d of October at Silloth and North Shields; on the 6th and 7th at Brighton; on the 14th at Guernsey; on the 17th at Oxford and Carlisle; on the 28th at Oxford; and on the 31st at Brighton. On the 2d of November at Brighton; on the 11th at Cockermouth and Carlisle; on the 15th at Helston. On the 1st of December at Oxford; on the 2d at Cockermouth; on the 9th at Oxford; and on the 26th at Stonyhurst.

Snow fell on the 10th of October at Allenheads and on the mountains of Carlisle; on the 11th and 12th on the mountains of Carlisle. On the 9th of November on the neighbouring mountains of Carlisle; on the 10th at Brighton, Royston, Halifax, York, Allenheads, on the neighbouring mountains of Carlisle, Bywell, and North Shields; on the 11th at London, Royston, Cardington, and Allenheads; on the 12th at Streatley, Hull, and Allenheads; on the 13th at Brighton, Salisbury, Weybridge, Streatley, Oxford, Royston, Wisbech, Hawarden, Eccles, Halifax, Hull, Stonyhurst, Allenheads, on the neighbouring mountains of Carlisle, Bywell, and North Shields; on the 14th at Brighton, Lymington, Marlborough College, Streatley, and Allenheads; on the 15th at Allenheads; on the 16th at Marlborough College, Streatley, and Allenheads; on the 17th at Allenheads; on the 18th at Somerleyton; on the 19th and 20th at Allenheads; and on the 25th at Eastbourne. On the 4th of December at North Shields; on the 5th at Taunton, Liverpool, Stonyhurst, Bywell, and North Shields; on the 9th at Norwich; on the 10th at Eastbourne, Royston, and Silloth; on the 12th at Oxford, Llandudno, Liverpool, Eccles, Stonyhurst, and Bywell; on the 13th at Stonyhurst, Bywell, and North Shields; on the 16th at Hull, and at Bradford began to fall at 11h. P.M., and was nearly 15 inches deep by 8h. A.M.; and on the 17th at Stonyhurst, Cockermouth, Carlisle, and North Shields.

Hail fell on forty-four different days during the quarter.

Fog was prevalent at one or other place on fifty-four days during the quarter, but mostly in the north.

Field Elm divested of leaves on the 27th of October at Carlisle; and on the 30th at Strathfield, Turgiss, and Hull. On the 10th of November at Weybridge; on the 15th at Guernsey; and on the 23d at Oxford.

Wych Elm divested of leaves on the 26th of October at Hull; and on the 30th at Strathfield Turgiss.

Oak divested of leaves on the 7th of November at Hull; and on the 15th at Guernsey.

Lime divested of leaves on the 17th of October at Oxford; on the 25th at Guernsey and Somerleyton; on the 27th at Hull and Carlisle; and on the 2d of November at Weybridge.

Sycamore divested of leaves on the 16th of October at Strathfield Turgiss; on the 20th at Helston; on the 27th at Hull; on the 29th at Carlisle; on the 31st at Guernsey; and on the 2d of November at Weybridge.

Horsechestnut divested of leaves on the 22d of October at Hull; on the 26th at Oxford; on the 29th at Carlisle; and on the 31st at Guernsey. On the 1st of November at Weybridge.

Common Poplar divested of leaves on the 12th of October at Helston; and on the 31st at Carlisle. On the 9th of November at Hull.

Occidental Plane divested of leaves on the 9th of November at Hull.

Oriental Plane divested of leaves on the 13th of November at Hull.

Hawthorne divested of leaves on the 16th of October at Helston; and on the 24th at Hull. On the 4th of November at Weybridge.

Spanish Chestnut divested of leaves on the 31st of October at Carlisle.

Beech divested of leaves on the 25th of October at Guernsey.

Hazel divested of leaves on the 7th of November at Hull.

Walnut divested of leaves on the 26th of October at Hull; on the 29th at Carlisle; and on the 30th at Oxford.

Thrush heard singing on the 24th of December at Strathfield Turgiss.

Blackbird heard singing on the 27th of December at Strathfield Turgiss.

Woodcock arrived on the 26th of October at Lampeter.

Fieldfare arrived on the 4th of November at Brighton.

Swallow departed on the 2d of October from Llandudno; on the 3d from Brighton; on the 4th from Oxford; on the 9th from Helston; on the 13th from Wisbech; on the 16th from Weybridge and Hull; on the 22d from Hawarden; and on the 24th from Taunton. On the 9th of November from Osborne.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING DECEMBER 31ST, 1872.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the fifth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean of all Highest.	Temperature of Air in Month. Mean of all Lowest.	Temperature of Air in Month. Mean Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S.	204	Oct.	29·495	1·108	63·5	40·5	23·5	56·2	47·4	8·8	51·3	46·8	·322	3·6	0·6	85	534	—	—	1·3	5	4	12	10	4·2	5·9	27	11·04
		Nov.	29·501	1·576	58·5	37·0	21·5	52·1	45·6	6·5	48·7	44·6	·296	3·3	0·4	86	537	—	—	2·1	5	2	11	12	4·9	7·0	27	7·40
		Dec.	29·382	1·302	53·5	34·5	19·0	50·1	43·4	6·7	47·0	43·4	·281	3·3	0·4	88	537	—	—	1·9	3	5	14	9	4·5	7·1	26	6·80
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	105	Oct.	29·641	1·296	66·0	36·0	30·0	58·4	46·3	12·1	51·4	43·8	·286	3·4	1·0	77	532	71·4	40·9	2·2	10	1	7	13	5·5	6·0	23	7·15
		Nov.	29·669	1·792	62·0	36·0	26·0	54·3	45·7	8·6	49·9	42·5	·272	3·0	1·0	76	537	60·1	42·9	2·3	6	2	9	13	5·8	5·4	24	4·92
		Dec.	29·508	1·172	58·0	34·0	24·0	53·9	43·7	10·2	49·2	41·1	·258	3·2	1·0	75	535	58·0	40·6	2·2	6	2	10	13	5·8	6·7	23	5·78
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	Oct.	29·673	1·237	62·0	31·0	31·0	55·8	42·8	13·0	48·8	44·5	·295	3·3	0·5	85	540	—	—	2·5	10	2	8	11	—	6·2	25	5·67
		Nov.	29·671	1·766	58·0	33·0	25·0	52·2	43·3	8·9	47·3	44·6	·294	3·3	0·4	91	542	—	—	3·1	7	2	8	13	—	6·7	27	5·95
		Dec.	29·522	1·149	56·0	27·0	29·0	50·9	42·0	8·9	46·5	42·6	·274	3·1	0·6	87	540	—	—	2·7	6	3	9	13	—	7·5	25	6·13
SIDMOUTH (Devon), J. Ingleby Mackenzie, Esq., M.B., F.M.S.	30	Oct.	29·664	1·184	62·4	32·6	29·8	54·7	43·9	10·8	49·2	47·1	·324	3·8	0·3	93	539	—	—	1·3	6	5	4	16	—	3·2	23	4·82
		Nov.	29·680	1·613	60·7	25·5	35·2	51·0	41·3	9·7	46·3	43·6	·283	3·2	0·3	90	543	—	—	1·7	8	0	5	17	—	3·9	20	4·01
		Dec.	29·563	1·236	54·2	28·1	26·1	49·5	40·7	8·8	45·1	44·2	·291	3·3	0·6	96	542	—	—	1·7	5	2	8	16	—	4·8	25	5·50
EASTBOURNE (Sussex), Miss W. L. Hall.	12	Oct.	29·715	0·979	64·3	32·5	31·8	57·4	45·0	12·4	50·8	45·3	·294	3·4	0·8	79	539	81·4	38·0	0·5	3	5	10	13	4·7	—	24	5·69
		Nov.	29·724	1·354	58·2	32·2	26·0	51·1	42·8	8·3	47·1	43·5	·282	3·3	0·4	88	543	64·0	36·5	0·9	6	2	6	17	4·6	—	25	6·56
		Dec.	29·606	0·937	55·8	30·0	25·8	49·1	41·2	7·9	45·4	41·7	·263	3·0	0·5	87	543	53·2	35·9	0·6	3	4	12	12	3·7	—	20	6·21
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	Oct.	29·530	1·155	64·2	31·4	32·8	57·0	42·0	15·0	48·9	47·0	·323	3·6	0·4	94	537	75·2	41·0	0·1	5	5	11	10	—	6·3	21	5·88
		Nov.	29·538	1·498	58·2	31·0	27·2	51·1	40·4	10·7	45·5	42·9	·278	3·1	0·4	90	541	59·2	39·8	0·2	4	1	14	11	—	7·1	23	5·46
		Dec.	29·418	1·235	55·1	26·2	28·9	48·5	38·8	9·7	43·9	41·2	·260	3·0	0·3	91	541	52·4	37·5	0·1	4	4	16	7	—	7·2	23	5·00
BOURNEMOUTH (Hants), T. A. Compton Esq., M.D., B.A., F.M.S.	128	Oct.	29·699	1·120	61·2	31·8	29·4	54·8	44·0	10·8	48·9	46·6	·320	3·7	0·3	93	540	—	—	—	7	2	10	12	—	5·5	22	5·72
		Nov.	29·710	1·360	58·2	29·9	28·3	50·3	41·9	8·5	45·9	43·0	·278	3·2	0·3	90	544	—	—	—	9	0	6	15	—	5·0	22	5·03
		Dec.	29·570	1·190	52·1	28·0	24·1	48·1	41·6	6·5	44·8	42·0	·267	3·1	0·3	90	543	—	—	—	8	0	10	13	—	5·6	24	5·29
PORTSMOUTH, William C. Ellis, Esq., F.M.S.	16	Oct.	29·711	1·152	64·6	29·2	35·4	57·2	40·4	16·8	49·2	43·8	·287	3·3	0·8	82	541	85·8	32·8	1·5	4	5	10	12	2·4	6·8	22	4·90
		Nov.	29·713	1·496	58·4	27·4	31·0	51·7	38·3	13·4	45·5	40·3	·250	2·8	0·7	83	545	71·7	31·6	2·0	5	3	12	10	2·7	7·6	24	4·78
		Dec.	29·593	1·276	55·2	24·8	31·4	49·4	36·5	12·9	44·0	39·4	·242	2·8	0·5	83	544	65·6	29·9	1·7	4	5	12	10	2·3	7·7	25	4·84
WORTHING (Sussex), W. J. Harris, Esq. M.R.C.S.E., L.S.A.	31	Oct.	29·704	1·164	63·9	34·1	29·8	57·3	45·2	12·1	50·6	47·7	·332	3·7	0·4	90	538	93·2	40·0	1·1	5	4	9	13	3·5	6·3	22	4·84
		Nov.	29·679	1·555	57·7	31·8	25·9	51·2	42·3	8·9	46·3	43·1	·279	3·2	0·4	89	543	64·2	38·7	1·2	7	1	9	13	4·1	7·1	26	5·88
		Dec.	29·568	1·336	52·0	29·4	22·6	48·3	40·7	7·6	44·6	41·6	·262	3·0	0·4	89	543	55·9	35·6	1·1	5	3	12	11	4·6	6·6	20	4·27
BRIGHTON (Sussex), Frederick E. Sawyer, Esq., F.M.S.	200	Oct.	29·504	1·175	64·3	36·0	28·3	55·2	44·9	10·3	49·3	46·0	·311	3·6	0·4	89	537	88·6	39·2	1·1	5	4	10	12	—	6·4	23	4·77
		Nov.	29·488	1·534	57·0	32·0	25·0	49·8	41·9	7·9	45·5	43·2	·279	3·2	0·3	92	541	76·2	36·9	1·7	7	1	10	12	—	7·9	28	6·04
		Dec.	29·409	1·359	52·3	29·8	22·5	46·9	40·0	6·9	43·6	41·2	·259	3·0	0·3	91	541	68·4	34·5	1·4	5	3	12	11	—	7·7	24	5·09
LYMINGTON (Hants), George J. Jones, Esq.	77	Oct.	29·631	1·142	63·6	32·0	31·6	56·8	43·3	13·5	49·5	44·7	·297	3·5	0·6	84	538	—	—	1·0	8	5	7	11	—	5·9	18	5·38
		Nov.	29·645	1·312	58·2	26·4	31·8	51·0	42·1	8·9	46·2	41·9	·267	3·1	0·5	86	543	—	—	1·4	7	1	9	13	—	6·6	20	5·29
		Dec.	29·509	1·479	53·6	26·0	27·6	48·6	41·2	7·4	44·8	41·8	·264	3·0	0·4	88	542	—	—	0·9	5	4	10	12	—	7·1	23	5·11
TAUNTON (Somerset), Rev. W. Tuckwell, F.M.S.	80	Oct.	29·629	1·226	66·0	26·3	39·7	55·5	40·4	15·1	47·8	45·9	·311	3·5	0·2	93	541	65·2	35·7	0·2	9	5	4	13	7·0	6·0	22	4·22
		Nov.	29·605	1·539	60·2	28·7	31·5	51·3	40·6	10·7	46·0	41·1	·269	3·0	0·6	84	542	56·2	30·4	0·2	8	2	10	10	6·5	5·1	19	4·20
		Dec.	29·476	1·143	56·5	24·3	32·2	49·2	38·3	10·9	44·0	42·7	·274	3·1	0·2	95	542	52·1	—	0·3	1	3	6	21	6·6	6·2	21	5·47
WILTON HOUSE (near Salisbury), T. Challis, Esq.	186	Oct.	29·526	1·236	67·5	27·5	40·0	57·3	38·3	19·0	47·1	44·0	·288	3·3	0·4	89	540	88·8	37·0	1·5	5	4	12	10	4·8	6·3	20	5·89
		Nov.	29·481	1·632	63·5	29·0	34·5	51·3	36·8	14·5	44·3	41·1	·259	2·9	0·4	88	542	73·8	35·9	2·2	8	1	13	8	4·8	6·2	20	5·49
		Dec.	29·367	1·120	56·5	23·5	33·0	48·2	36·3	11·9	42·8	40·6	·254	2·9	0·3	92	541	64·5	35·2	1·4	5	6	14	6	5·8	7·2	24	5·72

Names of Stations and Observers.	Height of Station above Sea Level.	Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean of all Highest.	Temperature of Air in Month. Mean of all Lowest.	Temperature of Air in Month. Mean Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
BARNSTAPLE (Devon), T. Mackrell, Esq.	43	Oct.	29·641	1·370	65·0	31·5	33·5	56·4	44·1	12·3	49·5	46·0	·311	3·4	0·5	89	539	—	—	1·0	6	5	8	12	—	5·0	28	7·38
		Nov.	29·625	1·694	60·0	33·0	27·0	51·8	42·8	9·0	47·2	42·6	·273	3·2	0·5	85	541	—	—	1·2	4	2	13	11	—	4·2	25	6·27
		Dec.	29·489	1·279	56·0	27·0	29·0	49·5	40·7	8·8	45·6	42·8	·275	3·1	0·3	90	541	—	—	1·1	6	4	11	10	—	5·3	25	5·71
ALDERSHOT CAMP (Hants), John Arnold, Esq., M.S.C., F.M.S.	325	Oct.	29·341	1·065	65·2	28·6	36·6	56·6	41·0	15·6	47·7	45·8	·309	3·5	0·3	92	535	81·2	38·3	1·2	4	5	10	12	1·7	7·5	19	5·51
		Nov.	29·305	1·416	60·2	31·6	28·6	50·4	39·4	11·0	44·2	40·9	·257	2·9	0·5	89	539	67·7	36·6	1·6	5	2	12	11	2·7	7·6	22	3·56
		Dec.	29·217	1·161	54·2	26·4	27·8	46·7	37·2	9·5	42·1	39·5	·242	2·8	0·3	90	540	58·6	32·4	1·6	4	5	13	9	2·0	8·5	24	5·02
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	Oct.	29·518	1·118	67·3	24·7	42·6	56·4	39·3	17·1	47·5	44·6	·295	3·3	0·4	90	539	91·4	33·5	0·5	5	8	8	10	3·2	6·6	21	3·52
		Nov.	29·495	1·419	60·4	30·0	30·4	50·4	39·1	11·3	44·8	40·8	·254	2·9	0·5	86	542	77·0	33·2	0·6	6	4	10	10	4·7	6·7	22	3·53
		Dec.	29·385	1·147	55·2	25·6	29·6	46·9	37·7	9·2	42·6	39·7	·244	2·8	0·3	90	542	66·1	32·6	0·6	4	8	11	8	4·1	7·5	23	4·27
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	Oct.	29·582	1·190	66·8	27·8	39·0	56·1	38·7	17·4	46·7	42·2	·270	3·1	0·4	83	541	80·1	36·1	0·4	4	5	15	7	0·6	6·1	21	4·45
		Nov.	29·544	1·545	61·0	30·3	30·7	50·2	38·9	11·3	44·6	40·4	·252	2·8	0·5	86	543	66·3	37·0	1·2	6	1	16	7	1·5	6·5	20	3·36
		Dec.	29·449	1·112	55·0	24·5	30·5	46·3	37·1	9·2	42·1	39·1	·239	2·7	0·4	89	544	53·5	35·7	1·0	4	5	15	7	1·2	6·1	21	4·03
MARLBOROUGH COLLEGE (Wilts), Rev. Thomas A. Preston, M.A.	456	Oct.	29·225	1·168	62·2	27·0	35·2	54·3	39·7	14·6	46·2	43·7	·285	3·2	0·4	91	535	92·9	25·9	—	5	6	11	9	1·8	6·8	21	5·67
		Nov.	29·224	1·355	60·5	30·2	30·3	49·7	38·5	11·2	43·6	40·3	·250	2·9	0·4	88	538	65·9	35·7	—	4	5	6	15	4·2	7·0	22	5·23
		Dec.	29·106	1·335	54·6	23·4	31·2	45·9	36·7	9·2	41·6	38·7	·236	2·7	0·3	90	538	54·1	33·0	—	6	4	11	10	3·0	8·0	25	5·50
ROYAL OBSERVATORY (Kent), The Astronomer Royal.	159	Oct.	29·533	1·163	66·6	29·1	37·5	56·7	41·1	15·6	47·8	45·0	·299	3·4	0·4	91	539	84·3	34·6	0·3	3	4	12	12	—	6·8	22	4·33
		Nov.	29·511	1·507	61·8	32·3	29·5	50·8	40·8	10·0	45·3	41·7	·264	3·1	0·5	87	541	67·5	34·9	1·1	6	2	11	11	—	7·1	24	2·92
		Dec.	29·413	1·152	55·4	27·1	28·3	47·0	38·7	8·3	42·9	39·7	·244	2·8	0·4	88	542	56·9	32·9	0·7	5	5	11	10	—	7·1	21	4·07
THE GUILDHALL (London), William Haywood, Esq.		Oct.	—	1·016	64·0	38·6	25·4	55·1	43·2	8·9	50·3	45·6	·306	3·5	0·7	84	534	—	—	—	—	—	—	—	—	—	—	4·43
		Nov.	—	1·348	60·0	35·5	24·5	51·5	43·3	8·2	47·3	43·6	·283	3·2	0·5	88	538	—	—	—	—	—	—	—	—	—	—	3·13
		Dec.	—	1·189	52·3	34·0	18·3	47·7	40·5	7·2	44·2	39·4	·242	2·8	0·5	83	540	—	—	—	—	—	—	—	—	—	—	4·10
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.A.S.	150	Oct.	29·594	1·175	65·6	32·3	33·3	56·6	40·4	16·2	47·7	44·4	·293	3·5	0·4	89	540	63·7	—	1·2	4	6	10	11	—	6·4	14	3·71
		Nov.	29·549	1·582	61·5	29·4	32·1	51·3	39·2	12·1	45·2	42·3	·269	3·1	0·4	89	542	56·5	—	1·9	6	4	9	11	—	6·4	24	3·30
		Dec.	29·478	0·927	55·3	24·3	31·0	47·5	37·5	10·0	42·7	40·0	·246	2·8	0·3	89	544	51·7	—	1·6	5	3	11	12	—	7·2	24	4·76
ST. JOHN'S COLLEGE, BATTERSEA, Rev. J. P. Faunthorpe, M.A., F.R.G.S.	13	Oct.	29·697	1·073	68·0	27·0	41·0	55·7	38·0	17·7	47·5	44·7	·296	3·4	0·4	90	542	73·3	31·6	1·5	0	1	19	11	—	6·5	22	5·02
		Nov.	29·683	1·591	60·0	28·5	31·5	50·3	36·8	13·5	44·0	41·1	·259	2·9	0·4	90	546	55·1	31·2	2·1	3	2	15	10	—	4·7	22	3·11
CAMDEN TOWN (London), G. J. Symons, Esq., F.M.S.	123	Oct.	29·578	1·193	65·3	31·8	33·5	56·0	41·3	14·7	48·2	44·4	·293	3·4	0·5	88	539	72·6	38·5	—	6	6	7	12	—	5·9	20	5·20
		Nov.	29·544	1·537	61·2	31·7	29·5	50·9	40·2	10·7	44·4	42·3	·271	3·1	0·3	91	543	59·0	37·4	—	7	2	8	13	—	6·0	21	3·98
		Dec.	29·446	1·129	54·6	26·6	28·0	47·0	38·2	8·8	43·2	39·5	·242	2·8	0·4	86	543	50·6	35·4	—	6	4	8	13	—	6·6	22	4·35
CHISWICK (London), Thiselton Dyer, Esq.	25	Oct.	29·677	1·086	66·0	28·2	37·8	56·1	38·7	17·4	47·1	45·8	·310	3·6	0·1	96	542	78·9	35·0	—	3	5	16	7	—	—	24	4·65
OXFORD (Oxfordshire), Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	Oct.	29·465	1·221	65·5	30·4	35·1	54·6	41·2	13·4	47·4	43·2	·279	3·2	0·5	87	537	92·8	37·1	0·8	5	5	12	9	0·6	7·9	25	2·90
		Nov.	29·435	1·571	62·1	30·4	31·7	50·1	40·4	9·7	45·2	39·7	·244	2·8	0·6	81	540	81·4	37·3	1·6	6	1	14	9	1·8	7·9	21	3·13
		Dec.	29·355	0·845	54·9	25·3	29·6	46·2	38·1	8·1	42·3	38·3	·232	2·7	0·5	86	542	68·4	35·7	0·9	5	6	12	8	1·2	8·0	22	3·79
GLOUCESTER (Gloucester), E. Toller, Esq., M.D.	100	Oct.	29·628	1·223	64·8	29·5	35·3	56·1	42·0	14·1	48·1	44·7	·296	3·4	0·4	89	540	77·3	41·4	0·5	7	6	7	11	1·2	5·7	20	3·12
		Nov.	29·608	1·525	67·0	30·5	36·5	51·7	41·0	10·7	46·0	40·6	·254	2·9	0·6	83	542	64·6	39·0	0·8	5	3	9	13	1·2	7·0	22	5·19
		Dec.	29·493	1·011	55·6	24·1	31·5	47·6	38·9	8·7	42·3	39·3	·240	2·7	0·4	89	544	56·3	36·8	0·6	6	5	10	10	1·9	7·1	22	2·75
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	Oct.	29·448	1·073	65·6	29·4	36·2	56·1	40·8	15·3	47·2	45·3	·303	3·4	0·3	94	538	—	—	—	—	—	—	—	—	6·6	24	3·39
		Nov.	29·393	1·455	60·7	31·4	29·3	50·4	38·2	12·2	44·4	41·4	·260	3·0	0·4	89	540	—	—	—	—	—	—	—	—	6·6	22	2·74
		Dec.	29·293	1·120	52·7	27·3	25·4	46·1	36·4	9·7	41·5	38·6	·234	2·7	0·4	90	541	—	—	—	—	—	—	—	—	7·5	25	3·42
CARDINGTON (near Bedford), Mr. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	109	Oct.	29·608	1·105	67·0	29·4	37·6	55·0	39·4	15·6	47·0	45·1	·301	3·4	0·3	94	541	67·7	33·7	0·7	3	6	11	11	—	7·0	19	3·15
		Nov.	29·590	1·375	61·6	30·4	31·2	50·2	38·4	11·8	44·3	40·4	·252	2·9	0·5	86	544	54·3	32·5	1·3	5	2	13	10	—	5·4	19	3·36
		Dec.	29·476	1·290	52·4	25·0	27·4	46·0	36·1	9·9	41·5	38·8	·237	2·7	0·3	91	545	47·0	31·1	0·9	6	3	15	7	—	6·8	18	3·20
ST. DAVID'S COLLEGE, LAMPETER (Cardiganshire), Prof. A. W. Scott.	420	Oct.	29·272	1·270	63·5	25·0	38·5	54·8	39·0	15·8	46·0	43·2	·280	3·2	0·3	91	536	63·5	—	—	7	7	9	8	—	—	24	9·47
		Nov.	29·223	1·702	59·0	24·0	35·0	50·0	35·7	14·3	43·0	39·9	·247	2·8	0·3	89	539	68·0	—	—	6	3	13	8	—	—	23	8·03
LEAMINGTON (Warwickshire), S. Urwick Jones, Esq., F.M.S.	195	Oct.	29·481	1·109	63·0	28·0	35·0	53·5	41·2	12·3	46·3	43·6	·283	3·2	0·4	91	539	—	—	0·7	3	9	7	12	—	7·6	21	3·31
		Nov.	29·440	1·267	60·0	32·5	27·5	49·5	39·7	9·8	44·9	40·2	·249	2·9	0·6	83	540	—	—	0·9	5	4	5	16	—	6·5	22	4·48
		Dec.	29·337	1·040	52·3	26·0	26·3	45·5	37·5	8·0	41·6	38·7	·235	2·7	0·3	91	542	—	—	0·7	3	6	10	12	—	7·7	21	3·36
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	50	Oct.	29·649	0·996	66·0	31·1	34·9	56·7	41·8	14·9	48·7	47·2	·326	3·7	0·2	95	540	—	33·0	0·9	2	5	15	9	6·3	6·4	23	3·13
		Nov.	29·621	1·218	61·4	31·8	29·6	50·0	39·0	11·0	44·4	41·1	·259	2·9	0·4	89	544	—	30·6	1·1	4	4	12	10	7·0	6·0	23	4·87
		Dec.	29·525	1·188	53·2	27·5	25·7	46·1	37·0	9·1	41·8	40·8	·255	2·9	0·1	95	546	—	27·9	1·0	4	6	12	9	6·6	6·1	23	3·47

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1872. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
NORWICH (Norfolk), C. M. Gibson, Esq., F.M.S.	42	Oct.	29·650	1·026	65·0	31·8	33·2	54·1	40·6	13·5	47·2	45·1	·300	3·5	0·3	93	542	–	–	–	3	5	14	9	–	–	20	3·30
		Nov.	29·625	1·398	60·0	31·0	29·0	48·8	38·0	10·8	43·3	40·4	·252	2·9	0·4	90	546	–	–	–	4	3	14	9	–	–	18	3·78
		Dec.	29·536	1·149	51·5	27·5	24·0	45·2	36·0	9·2	41·1	38·8	·236	2·7	0·3	92	546	–	–	–	4	8	12	7	–	–	17	3·82
WISBECH (Cambridgeshire), S. H. Miller, Esq., F.R.A.S., F.M.S.	14	Oct.	29·672	1·011	64·4	32·0	32·4	54·8	41·5	13·3	47·5	45·3	·304	3·5	0·3	93	542	83·4	38·1	0·4	5	7	10	9	1·6	6·9	22	3·35
		Nov.	29·633	1·292	61·2	31·0	30·2	49·7	39·4	10·3	44·1	41·0	·260	3·9	0·4	89	545	73·2	36·0	0·7	4	5	14	7	3·6	6·5	19	3·50
		Dec.	29·543	1·153	51·2	29·0	22·2	45·0	37·2	7·8	41·0	39·3	·241	2·7	0·3	94	547	59·8	34·8	0·4	5	9	11	6	2·2	7·2	19	3·27
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	100	Oct.	29·538	1·290	62·5	35·1	27·4	54·7	43·7	11·0	48·7	43·1	·279	3·2	0·7	81	538	–	–	0·9	7	4	7	13	–	6·0	23	8·17
		Nov.	29·498	1·645	64·0	33·0	31·0	50·4	41·0	9·4	46·1	40·6	·256	3·0	0·4	82	540	–	–	1·3	9	0	4	17	–	6·8	23	5·22
		Dec.	29·390	1·512	56·0	30·5	25·5	47·3	38·3	9·0	43·4	38·7	·234	2·7	0·5	83	541	–	–	0·7	4	6	7	14	–	6·8	20	4·23
DERBY (Derbyshire), John Davis, Esq.	174	Oct.	29·475	1·158	61·0	30·0	31·0	53·0	41·2	11·8	46·4	45·0	·300	3·5	0·1	95	539	–	–	–	5	7	8	11	–	–	21	4·56
		Nov.	29·430	1·340	61·0	30·0	31·0	49·6	39·2	10·4	44·1	39·0	·238	2·8	0·6	82	541	–	–	–	7	1	14	8	–	–	24	2·36
		Dec.	29·352	1·046	52·0	26·0	26·0	45·0	36·6	8·4	41·0	38·7	·235	2·7	0·3	92	542	–	–	–	5	7	12	7	–	–	22	3·78
NOTTINGHAM (Notts), M.O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	241	Oct.	29·404	1·107	63·7	27·3	36·4	55·0	39·9	15·1	46·5	42·9	·277	3·2	0·5	88	538	80·3	32·4	0·4	4	5	11	11	0·7	6·6	21	3·69
		Nov.	29·370	1·171	62·4	28·3	34·1	50·1	37·9	12·2	43·7	40·8	·256	3·0	0·2	90	541	56·7	29·8	0·6	5	4	10	11	1·7	5·6	24	3·13
		Dec.	29·262	1·121	51·7	24·4	27·3	44·4	35·5	8·9	40·2	37·9	·228	2·6	0·3	92	542	41·9	28·1	0·5	5	8	11	7	0·9	7·7	25	3·47
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	39	Oct.	29·646	1·049	65·0	28·2	36·8	54·7	40·6	14·1	47·5	43·5	·283	3·3	0·5	87	541	90·0	34·3	1·0	5	4	16	6	–	6·8	18	2·51
		Nov.	29·613	1·187	61·0	27·0	34·0	50·2	38·2	12·0	44·3	39·5	·243	2·9	0·5	83	544	66·4	31·1	1·6	5	2	20	3	–	6·5	16	3·56
HAWARDEN (Flint), T. Moffat, Esq., M.D., F.R.A.S.	270	Oct.	29·364	1·412	61·0	34·0	27·0	52·3	43·0	9·3	46·4	44·3	·301	3·3	0·3	93	537	83·7	21·7	1·7	9	5	11	6	0·5	5·9	27	7·02
		Nov.	29·318	1·438	63·0	32·0	31·0	47·6	39·7	7·9	43·5	40·2	·250	2·9	0·4	88	540	72·2	19·2	2·4	5	3	12	10	1·5	6·5	22	4·01
		Dec.	29·208	1·069	52·0	30·0	22·0	44·1	37·5	6·6	40·7	38·7	·235	2·5	0·3	92	541	51·2	19·0	1·9	5	3	15	8	2·0	7·0	23	3·90
LIVERPOOL OBSERVATORY, John Hartnup, Esq., F.R.A.S.	197	Oct.	29·470	1·166	61·2	32·1	29·1	53·5	42·9	10·6	47·4	43·4	·282	3·2	0·4	86	538	–	–	1·1	6	8	8	9	–	6·2	25	6·63
		Nov.	29·444	1·484	63·0	32·0	31·0	49·3	40·1	9·2	44·2	39·8	·246	2·9	0·5	85	541	–	–	1·5	6	6	10	8	–	5·9	21	2·80
		Dec.	29·328	1·058	53·0	28·3	24·7	44·9	37·3	7·6	41·3	37·9	·229	2·7	0·4	88	543	–	–	1·3	5	9	9	8	–	7·4	23	3·61
ECCLES (near Manchester), T. Mackereth, Esq., F.R.A.S., F.M.S	145	Oct.	29·497	1·234	62·5	26·5	36·0	53·8	39·0	14·8	46·1	41·6	·264	3·1	0·5	85	540	60·1	32·1	0·2	6	5	10	10	1·5	6·1	22	4·40
		Nov.	29·454	1·526	61·5	30·0	31·5	49·6	37·9	11·7	43·9	39·0	·238	2·7	0·5	83	542	53·4	30·3	1·0	4	6	11	9	2·8	5·9	26	3·43
		Dec.	29·371	1·550	51·8	23·8	28·0	44·0	35·6	8·4	40·8	36·8	·218	2·6	0·5	86	544	46·5	29·6	0·7	7	10	9	5	1·9	8·0	25	3·05
MOOR SIDE OBSERVATORY, HALIFAX, (Yorkshire), Louis J. Crossley, Esq., F.M.S.	429	Oct.	29·106	1·138	63·0	27·5	35·5	52·1	38·7	13·4	44·6	42·6	·269	3·1	0·2	94	535	84·2	35·1	1·3	6	7	7	11	1·0	7·9	23	4·50
		Nov.	29·065	1·444	60·0	27·5	32·5	47·7	35·9	11·8	42·0	39·3	·241	2·8	0·3	91	537	68·6	32·0	1·4	6	6	8	10	2·2	6·1	26	5·77
		Dec.	28·967	1·153	53·0	22·0	31·0	43·5	34·5	9·0	38·9	37·2	·223	2·7	0·2	94	538	50·2	30·6	–	7	8	10	6	2·6	7·5	22	2·33
PARK ROAD OBSERVATORY (Halifax, Yorkshire), Edward Crossley, Esq., F.R.A.S.	618	Nov.	28·924	1·381	59·0	30·0	29·0	46·6	37·4	9·2	41·6	38·0	·229	2·6	0·4	88	535	63·5	–	0·6	5	5	6	14	–	7·9	23	6·33
THE PARK, HULL (Yorkshire), Mr. E. Peak.	12	Oct.	29·652	1·133	64·0	27·0	37·0	52·9	40·4	12·5	46·5	43·3	·281	3·2	0·5	89	542	70·0	39·1	–	–	–	–	–	–	–	20	3·39
		Nov.	29·597	1·250	60·0	27·0	33·0	47·4	37·6	9·8	43·1	38·0	·229	2·7	0·5	82	546	60·9	35·6	–	–	–	–	–	–	–	22	4·29
		Dec.	29·510	1·318	50·0	23·0	27·0	43·1	35·9	7·2	40·0	36·5	·208	2·5	0·3	89	547	49·5	34·0	–	–	–	–	–	–	–	21	3·32
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.A.S., F.M.S.	381	Oct.	29·218	1·312	60·7	30·6	30·1	53·0	41·2	11·8	46·1	42·5	·273	3·2	0·4	88	535	95·3	36·1	–	4	6	8	13	–	7·5	30	6·00
		Nov.	29·203	1·532	61·9	26·9	35·0	49·1	39·2	9·9	44·0	40·3	·250	2·9	0·4	87	537	81·6	33·7	–	6	4	10	10	–	7·7	29	4·70
		Dec.	29·112	1·430	51·2	24·5	26·7	44·4	36·9	7·5	40·9	37·1	·229	2·6	0·4	86	539	61·8	32·3	–	6	8	11	6	–	8·4	30	4·09
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.A.S.	366	Oct.	29·198	1·169	60·5	35·0	25·5	53·7	43·2	10·5	47·6	42·1	·268	3·1	0·7	82	533	63·2	–	1·0	–	–	–	–	–	6·5	19	4·27
		Nov.	29·211	1·337	61·5	31·6	29·9	50·1	40·5	9·6	44·6	39·0	·234	2·7	0·6	80	538	55·3	–	1·6	–	–	–	–	–	5·5	20	4·42
		Dec.	29·115	1·116	54·0	28·6	25·4	45·6	36·8	8·8	41·3	37·0	·221	2·6	0·5	85	539	46·8	–	1·1	–	–	–	–	–	6·0	17	3·62
LEEDS PHILOSOPHICAL HALL (Yorkshire). Louis C. Miall, Esq.	137	Oct.	29·502	1·171	64·0	31·0	33·0	53·8	40·7	13·1	46·8	42·1	·268	3·0	0·6	84	540	63·6	–	1·1	10	4	4	13	–	7·9	28	4·23
		Nov.	29·478	1·344	64·0	29·0	35·0	49·8	38·3	11·5	44·3	39·9	·247	2·8	0·5	84	542	58·1	–	1·4	5	5	7	13	–	7·6	25	4·15
		Dec.	29·384	1·141	55·0	27·0	28·0	44·1	36·1	8·0	41·0	37·2	·221	2·6	0·4	86	544	47·2	–	1·2	8	4	10	9	–	9·1	25	3·18
YORK (Yorkshire). J. F. Fryer, Esq.	50	Oct.	29·569	1·148	61·5	30·5	31·0	50·6	40·7	9·9	45·4	43·9	·285	3·3	0·3	95	542	–	–	–	3	7	14	7	–	7·1	23	4·01
		Nov.	29·526	1·361	61·0	26·0	35·0	46·9	37·7	9·2	42·3	40·0	·249	2·9	0·2	92	545	–	–	–	3	8	14	5	–	–	23	4·28
		Dec.	29·460	1·254	50·0	26·0	24·0	42·7	35·6	7·1	39·9	37·8	·227	2·7	0·2	93	546	–	–	–	2	11	15	3	–	–	19	2·69
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.R.A.S., F.M.S.	148	Oct.	29·452	1·331	60·8	31·4	29·4	54·5	41·9	12·6	47·2	42·6	·273	3·1	0·6	85	538	80·8	33·9	0·6	6	7	12	6	2·5	5·7	17	7·77
		Nov.	29·389	1·742	57·3	25·6	31·7	48·5	39·2	9·3	43·5	38·9	·237	2·8	0·4	83	541	59·6	30·1	0·8	3	8	14	5	3·4	5·2	17	5·20
		Dec.	29·309	1·380	54·8	21·2	33·6	45·2	37·1	8·1	40·9	36·6	·216	2·5	0·4	85	543	48·4	29·1	0·8	4	9	13	5	3·3	6·5	16	5·03
ALLENHEADS (Northumberland), Mr. S. Stobbs, Assistant to W. B. Beaumont, Esq., M.P.	1360	Oct.	28·128	1·123	55·4	28·1	27·3	48·8	37·4	11·4	42·0	40·7	·253	2·9	0·2	95	519	74·6	35·4	0·2	–	–	–	–	–	6·8	24	8·08
		Nov.	28·104	1·424	55·0	27·5	27·5	43·9	34·5	9·4	38·7	37·1	·221	2·6	0·1	94	523	65·0	32·2	2·3	–	–	–	–	–	6·3	28	7·39
		Dec.	28·035	1·080	48·0	13·5	34·5	39·5	30·6	8·9	35·0	33·4	·192	2·2	0·2	94	525	58·8	28·6	1·6	–	–	–	–	–	7·5	24	5·96
SILLOTH RECTORY (Cumberland), Rev. Francis Redford, M.A., F.R.A.S., F.M.S.	28	Oct.	29·588	1·290	62·3	30·5	31·8	55·8	41·2	14·6	47·6	42·7	·274	3·2	0·6	88	540	86·0	37·4	1·3	6	9	7	9	7·5	6·6	18	6·03
		Nov.	29·517	1·789	57·5	23·2	34·3	54·4	38·1	16·3	46·8	42·8	·275	3·1	0·5	86	540	69·6	32·9	1·6	6	8	8	8	9·0	6·7	16	3·30
		Dec.	29·436	1·353	54·5	22·8	31·7	44·6	36·1	8·5	40·0	36·6	·217	2·6	0·4	88	541	57·3	31·0	1·5	5	13	7	6	8·8	7·2	17	3·21
CARLISLE (Cumberland), J. Cartmell, Esq., F.M.S.	114	Oct.	29·486	1·274	62·5	25·2	37·3	54·2	39·4	14·8	46·0	44·3	·292	3·4	0·4	94	540	72·2	32·2	1·5	4	9	6	12	4·8	6·8	19	4·16
		Nov.	29·432	1·629	63·2	22·5	40·7	48·8	36·6	12·2	42·2	38·6	·235	2·7	0·3	87	543	59·5	31·3	1·7	6	4	11	9	5·9	6·0	22	2·43
		Dec.	29·344	1·182	58·3	20·2	38·1	44·2	34·3	9·9	39·3	36·4	·215	2·5	0·3	90	545	47·4	29·2	1·4	3	9	12	7	4·7	7·7	16	2·60
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	Oct.	29·500	1·155	61·0	34·0	27·0	52·8	41·7	11·1	46·2	39·8	·246	2·9	0·7	79	540	63·4	34·8	1·2	4	3	6	18	–	5·8	24	5·83
		Nov.	29·435	1·517	61·0	32·0	29·0	47·9	39·3	8·6	43·0	36·2	·213	2·5	0·7	77	543	53·6	32·6	1·3	6	5	4	15	–	5·9	27	5·13
		Dec.	29·384	1·217	56·0	25·0	31·0	44·8	37·0	7·8	40·8	34·6	·201	2·3	0·5	80	543	48·1	30·2	1·2	2	12	7	10	–	7·3	26	5·50
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	Oct.	29·540	1·189	59·8	32·2	27·6	51·5	41·6	9·9	45·7	42·0	·267	3·0	0·5	87	541	–	39·5	1·7	7	4	8	12	–	5·7	22	5·96
		Nov.	29·500	1·489	67·0	32·0	35·0	50·2	39·2	11·0	43·6	39·2	·241	2·7	0·5	85	543	–	38·2	1·8	9	4	6	11	–	7·2	23	4·11
		Dec.	29·440	1·487	50·2	26·2	24·0	44·7	37·1	7·6	40·8	35·6	·209	2·4	0·5	82	545	–	35·5	1·9	7	5	8	11	–	8·3	26	4·46
MILTOWN (Banbridge, Ireland), John Smyth, Esq., jun., M.A., M.I.C.E.I.	200	Oct.	29·406	1·393	63·0	30·0	33·0	52·1	39·6	12·5	45·1	41·3	·260	3·0	0·5	87	540	80·4	35·5	2·0	8	3	12	8	3·8	4·3	18	4·52
		Nov.	29·332	1·873	63·0	28·0	35·0	47·4	37·2	10·2	42·3	38·1	·230	2·6	0·5	85	541	63·9	32·2	2·3	6	3	14	7	4·7	4·8	21	4·20
		Dec.	29·216	1·313	53·0	25·0	28·0	44·0	34·9	9·1	39·7	36·3	·214	2·5	0·4	88	542	51·9	30·3	1·7	7	7	12	5	3·5	5·5	21	5·56

NOTE.—*The Barometer Reading,* TAUNTON, November 7th, 3h. p.m., 29·354 in., has been altered to 30·354 in.
" ", " 8th, 3h. p.m., 29·284 in., " 30·284 in.
" " December 25th, 3h. p.m., 28·000 in., " 29·000 in.
" LEEDS, November 23rd, 4h. p.m., 29·800 in., " 28·800 in.
" GLOUCESTER, " 30th, 4h. p.m., 29·758 in., " 28·758 in.
" BRADFORD, " 29th, 3h. p.m., 29·992 in., " 28·992 in.

Second Rain-gauges are placed—

		October.	November.	December.	Total during the Quarter.
At Eastbourne, at the height of 160 feet *above the sea*, the amount collected was		5·82 inches.	6·77 inches.	7·04 inches.	19·63 inches.
" Beachy Head,	" 610 feet " "	4·30 "	5·25 "	4·90 "	14·45 "
" Portsmouth,	" 20 feet *above the ground* "	4·61 "	4·50 "	4·53 "	13·64 "
" Strathfield Turgiss,	" 38 feet " "	2·55 "	2·36 "	2·96 "	7·87 "
" Eccles, Manchester,	" 34 feet " "	3·64 "	2·46 "	2·71 "	8·81 "
" Allenheads,	" 6¾ feet " "	8·84 "	8·58 "	7·86 "	25·28 "
" Carlisle,	" 3 feet " "	1·64 "	1·15 "	0·94 "	3·73 "
" Miltown, Ireland,	" 40 feet " "	4·37 "	3·56 "	4·52 "	12·45 "
" Brighton,	" 35 feet " "	3·63 "	4·71 "	3·78 "	12·12 "
" Radcliffe Observatory,	" 22 feet " "	2·78 "	2·93 "	3·28 "	8·99 "
" Marlborough College,	" 8 inches " "	5·52 "	4·97 "	5·25 "	15·74 "
" " "	" 1 foot " "	5·53 "	4·91 "	5·01 "	15·45 "
" Cardington,	" 36 feet " "	2·80 "	2·60 "	2·75 "	8·15 "
" Nottingham,	" 25½ feet " "	3·60 "	2·90 "	3·88 "	9·88 "
" Wisbech,	" 8 feet " "	3·28 "	3·30 "	3·13 "	9·71 "
" Aldershot Camp,	" 25 feet " "	3·95 "	2·54 "	3·73 "	10·22 "
" Cockermouth,	" 6½ feet " "	7·50 "	4·93 "	4·88 "	17·31 "

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days on which it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·379	63·5	34·5	29·0	52·8	45·5	21·3	7·3	49·0	44·9	·300	3·4	0·5	86	536	—	—	1·8	4	4	12	10	4·5	6·7	80	21·7
Helston	29·449	66·0	34·0	32·0	55·5	45·2	26·7	10·3	50·2	42·5	·272	3·2	1·0	76	535	63·2	41·5	2·2	7	2	9	13	5·7	6·0	70	17·0
Truro	29·367	62·0	27·0	35·0	53·0	42·7	28·3	10·3	47·5	43·9	·288	3·2	0·5	88	541	—	—	2·8	8	2	8	12	—	6·8	77	18·0
Eastbourne	29·413	64·3	30·0	34·3	52·5	43·0	27·9	9·5	47·8	43·5	·280	3·2	0·6	85	542	65·2	36·8	0·7	4	4	9	14	4·3	—	69	15·0
Osborne	29·394	64·2	26·2	38·0	52·2	40·4	29·6	11·8	46·1	43·7	·287	3·2	0·4	92	540	62·3	39·4	0·1	4	3	14	9	—	6·9	67	14·0
Bournemouth	29·512	61·2	28·0	33·2	51·1	42·5	27·3	8·6	46·5	43·9	·288	3·3	0·3	91	542	—	—	—	8	1	9	13	—	5·4	68	14·0
Portsmouth	29·434	64·6	24·8	39·8	52·8	38·4	32·6	14·4	46·2	41·2	·260	3·0	0·7	83	543	74·4	31·4	1·7	4	4	11	11	2·5	7·4	71	14·0
Worthing	29·392	63·9	29·4	34·5	52·3	42·7	26·1	9·6	47·2	44·1	·291	3·3	0·4	89	541	71·2	38·1	1·1	6	3	10	12	4·1	6·7	68	13·0
Brighton	29·402	64·3	29·8	34·5	50·6	42·3	25·3	8·3	46·1	43·5	·283	3·3	0·3	91	540	77·7	36·9	1·4	6	3	11	12	—	7·3	75	13·0
Taunton	29·372	66·0	24·3	41·7	52·0	39·8	34·5	12·2	45·9	43·2	·285	3·2	0·3	91	542	57·8	—	0·2	6	3	7	15	6·7	5·8	62	12·0
Wilton House	29·391	67·5	23·5	44·0	52·2	37·1	35·8	15·1	44·7	41·9	·267	3·0	0·4	90	541	75·7	36·0	1·7	6	4	13	8	5·1	6·6	64	12·0
Barnstaple	29·346	65·0	27·0	38·0	52·6	42·5	29·8	10·1	47·4	43·8	·286	3·2	0·4	88	540	—	—	1·1	5	4	11	11	—	4·8	78	14·0
Aldershot Camp	29·359	65·2	26·4	38·8	51·2	39·2	31·0	12·0	44·7	42·1	·269	3·1	0·4	90	538	69·2	35·8	1·5	4	4	12	11	2·1	7·9	65	11·0
Strathfield Turgiss	29·418	67·3	24·7	42·6	51·2	38·7	34·2	12·5	45·0	41·7	·264	2·7	0·4	89	541	78·2	33·1	0·6	5	7	10	9	4·0	6·9	66	16·0
Weybridge Heath	29·436	66·8	24·5	42·3	50·8	38·2	33·4	12·6	44·5	40·6	·254	2·9	0·4	86	543	66·8	36·3	0·9	5	4	15	7	1·1	6·2	62	11·0
Marlborough College	29·422	62·2	23·4	38·8	50·0	38·3	32·2	11·7	43·8	40·9	·257	2·9	0·4	90	537	71·0	31·5	—	5	5	9	11	3·0	7·3	68	16·0
Royal Observatory	29·391	66·6	27·1	39·5	51·5	40·2	31·8	11·3	45·3	42·1	·269	3·1	0·4	89	541	69·6	34·1	0·7	5	4	11	11	—	7·0	67	11·0
The Guildhall	—	64·0	34·0	30·0	51·4	43·3	22·7	8·1	47·3	42·9	·277	3·2	0·6	85	537	—	—	—	—	—	—	—	—	—	—	—
Streatley Vicarage	29·440	65·6	24·3	41·3	51·8	39·0	32·1	12·8	45·2	42·2	·269	3·1	0·4	89	542	57·3	—	1·6	5	4	10	11	—	6·7	62	12·0
Camden Town	29·388	65·3	26·6	38·7	51·3	39·9	30·3	11·4	45·3	42·1	·269	3·1	0·4	88	542	60·7	37·1	—	6	4	8	13	—	6·2	65	14·0
Oxford	29·394	65·5	25·3	40·2	50·3	39·9	32·1	10·4	45·0	40·4	·252	2·9	0·5	85	540	80·9	36·7	1·1	5	4	13	9	1·2	7·9	68	14·0
Gloucester	29·423	67·0	24·1	42·9	51·8	40·6	34·4	11·2	45·5	41·5	·263	3·0	0·5	87	542	66·1	39·1	0·6	6	5	9	11	1·4	6·6	64	11·0
Royston	29·219	65·6	27·3	38·3	50·9	38·5	30·3	12·4	44·4	41·8	·266	3·0	0·4	91	540	—	—	—	—	—	—	—	—	6·9	71	9·0
Cardington	29·403	67·0	25·0	42·0	50·4	38·0	32·1	12·4	44·3	41·4	·263	3·0	0·4	90	543	56·3	32·4	1·0	5	4	13	9	—	6·4	56	12·0
Leamington	29·374	63·0	26·0	37·0	49·5	39·5	29·6	10·0	44·3	40·8	·259	2·9	0·4	88	540	—	—	0·8	4	6	7	13	—	7·3	64	12·0
Somerleyton Rectory	29·374	66·0	27·5	38·5	50·9	39·5	30·1	11·6	45·0	43·0	·280	3·2	0·2	93	543	—	30·5	1·0	3	5	13	9	6·6	6·2	69	12·0
Norwich	29·386	65·0	27·5	37·5	49·4	38·2	28·7	11·2	43·9	41·4	·263	3·0	0·3	92	545	—	—	—	4	5	13	8	—	—	55	10·0
Wisbech	29·353	64·4	29·0	35·4	49·8	39·4	28·3	10·4	44·2	41·8	·268	3·0	0·3	92	545	72·1	36·3	0·5	5	7	12	7	2·5	6·9	60	17·0
Llandudno	29·329	64·0	30·5	33·5	50·8	41·0	28·0	9·8	46·1	40·8	·256	3·0	0·5	82	539	—	—	1·0	7	3	6	15	—	6·5	66	17·0
Derby	29·351	61·0	26·0	35·0	49·2	39·0	29·3	10·2	43·8	40·9	·258	3·0	0·3	90	541	—	—	—	6	5	11	9	—	—	67	12·0
Nottingham	29·352	63·7	24·4	39·3	49·8	37·8	32·6	12·0	43·5	40·5	·254	2·9	0·3	90	540	59·6	30·1	0·5	5	6	11	9	1·1	6·6	70	14·0
Hawarden	29·328	63·0	30·0	33·0	48·0	40·1	26·7	7·9	43·5	41·1	·262	2·9	0·3	91	539	69·0	29·0	3·0	6	4	13	8	1·3	6·5	72	13·0
Liverpool	29·377	63·0	28·3	34·7	49·2	40·1	28·3	9·1	44·3	40·4	·252	2·9	0·4	86	541	—	—	1·3	6	8	9	8	—	6·5	69	13·0
Eccles	29·358	62·5	23·8	38·7	49·1	37·5	31·8	11·6	43·6	39·1	·240	2·8	0·5	85	542	53·3	30·7	0·6	6	7	10	8	2·1	6·7	73	12·0
Moorside Observatory	29·234	63·0	22·0	41·0	47·8	36·4	33·0	11·4	41·8	39·7	·244	2·9	0·2	93	537	67·7	32·6	—	6	7	8	9	1·9	7·2	71	12·0
Hull	29·458	64·0	23·0	41·0	47·8	38·0	32·3	9·8	43·2	39·3	·239	2·8	0·4	87	545	60·1	36·2	—	—	—	—	—	—	—	65	14·0
Stonyhurst	29·343	61·9	24·5	37·4	48·8	39·1	30·6	9·7	43·7	40·0	·248	2·9	0·4	87	537	79·6	34·0	—	5	6	10	10	—	7·9	89	16·0
Bradford	29·331	61·5	28·6	32·9	49·8	40·2	26·9	9·6	44·5	39·4	·242	2·8	0·6	82	537	55·1	—	1·2	—	—	—	—	—	6·0	56	12·0
Leeds	29·361	64·0	27·0	37·0	49·2	38·4	32·0	10·8	44·0	39·7	·245	2·8	0·5	85	542	56·3	—	1·2	8	4	7	12	—	8·2	78	12·0
Cockermouth	29·302	60·8	21·2	39·6	49·4	39·4	31·6	10·0	43·9	39·4	·242	2·8	0·5	84	541	62·9	31·0	0·7	4	8	13	5	3·1	5·8	50	12·0
Allenheads	29·363	55·4	13·5	41·9	44·1	34·2	29·8	9·9	38·6	37·1	·233	2·6	0·2	94	522	66·1	32·1	1·3	—	—	—	—	—	6·9	76	12·0
Silloth	29·290	63·3	22·8	39·5	51·6	38·5	32·6	13·1	44·8	40·7	·255	3·0	0·5	87	540	71·0	33·8	1·5	6	10	7	8	8·4	6·8	51	12·0
Carlisle	29·299	63·2	20·2	43·0	49·1	36·8	33·7	12·3	42·5	39·8	·247	2·9	0·3	90	543	59·7	30·9	1·5	4	7	10	9	5·1	6·8	57	10·0
Bywell	29·315	61·0	25·0	36·0	48·5	39·3	29·0	9·2	43·3	36·9	·220	2·6	0·6	79	542	55·0	32·5	1·2	4	7	6	14	—	6·3	77	14·0
North Shields	29·390	67·0	26·2	40·8	48·8	39·3	28·9	9·5	43·4	38·9	·239	2·7	0·5	85	543	—	37·7	1·8	8	4	7	11	—	7·1	71	14·0
Miltown (Ireland)	29·301	63·0	25·0	38·0	47·8	37·2	32·0	10·6	42·4	38·6	·235	2·7	0·5	87	541	65·1	32·7	2·0	7	4	13	7	4·0	4·9	60	14·0

The highest temperatures of the air were at Wilton House, 67°·5; Strathfield Turgiss, 67°·3; Gloucester, Cardington, and North Shields, 67°·0 respectively; Weybridge Heath, 66°·8; and at the Royal Observatory, 66°·6.

The lowest temperatures of the air were at Allenheads, 13°·5; Carlisle, 20°·2; Cockermouth, 21°·2; Moorside Observatory, 22°·0; Silloth, 22°·8; Hull, 23°·0; Marlborough College, 23°·4; and at Wilton House, 23°·5.

The greatest daily ranges of the temperatures of the air were at Wilton House, 15°·1; Silloth, 13°·1; Streatley Vicarage, 12°·8; Weybridge Heath, 12°·6; Strathfield Turgiss, 12°·5; Royston and Cardington, 12°·4 respectively; Carlisle, 12°·3; Taunton, 12°·2; and at Aldershot Camp, 12°·0.

The least daily ranges of the temperatures of the air were at Guernsey, 7°·3; Hawarden, 7°·9; Guildhall, 8°·1; Bournemouth, 8°·0; Liverpool, 9°·1; Bywell, 9°·2; North Shields, 9°·5; and at Worthing and Bradford 9°·6 respectively.

The greatest numbers of rainy days were at Stonyhurst, 89; Guernsey, 80; Barnstaple and Leeds, 78 respectively; Truro and Bywell, 77 respectively; Allenheads, 76; Hawarden, 72; Royston, Moorside Observatory, and North Shields, 71 respectively; and at Helston and Nottingham, 70 respectively.

The least numbers of rainy days were at Cockermouth, 50; Silloth, 51; Norwich, 55; Cardington, 56; Carlisle, 57; Wisbech and Miltown, 60, respectively; Taunton and Weybridge Heath 62, respectively; and at Camden Town and Hull, 63 respectively.

The heaviest falls of rain were at Guernsey, 25·24 inches; Allenheads, 21·43 inches; Barnstaple, 19·36 inches; Eastbourne, 18·0 inches; Cockermouth, 18·00 inches; Helston, 17·85 inches; Truro, 17·76 inches; Llandudno, 17·62 inches; Wilton House, 17·10 inches; and at Bywell, 16·46 inches.

The least falls of rain were at Carlisle, 9·19 inches; Royston, 9·55 inches; Cardington, 9·71 inches; Oxford, 9·82 inches; Wisbech, 10·12 inches; Nottingham, 10·29 inches; Derby, 10·70 inches; Eccles, 10·88 inches; and at Norwich, 10·90 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days on which it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·379	63·5	34·5	29·0	52·8	45·5	21·3	7·3	49·0	44·9	·300	3·4	0·5	86	536	—	—	1·8	4	4	12	10	4·5	6·7	80	21·7
Between the latitudes 50° and 51°	29·420	63·8	28·6	35·2	52·5	42·2	28·0	10·3	47·2	43·3	·281	3·2	0·5	87	540	69·7	37·9	1·4	6	3	10	12	4·1	6·6	71	17·0
Between the latitudes 51° and 52°	29·397	65·6	25·9	39·7	51·4	39·7	31·7	11·7	45·3	42·0	·268	3·0	0·4	88	540	68·7	35·1	1·0	5	4	11	11	3·3	6·7	64	15·0
Between the latitudes 52° and 53°	29·357	64·7	26·7	37·9	50·3	39·1	31·3	11·1	44·5	41·4	·263	3·0	0·4	90	542	63·5	33·7	0·8	5	5	11	10	2·9	6·7	71	14·0
Between the latitudes 53° and 54°	29·352	62·9	25·9	37·0	48·7	38·7	30·2	10·0	43·6	39·8	·247	2·8	0·4	87	540	63·0	30·7	1·5	6	6	9	9	1·8	7·0	62	12·0
Between the latitudes 54° and 55°	29·314	60·5	20·5	40·0	48·5	37·6	32·3	10·9	42·6	38·8	·239	2·8	0·4	87	537	62·9	32·1	1·2	4	8	9	9	5·5	6·5	71	12·0
North Shields	29·390	67·0	26·2	40·8	48·8	39·3	28·9	9·5	43·4	38·9	·239	2·7	0·5	85	543	—	37·7	1·8	8	4	7	11	—	7·1	71	14·0
Miltown, Banbridge (Ireland)	29·301	63·0	25·0	38·0	47·8	37·2	32·0	10·6	42·4	38·6	·235	2·7	0·5	87	541	65·1	32·7	2·0	7	4	13	7	4·0	4·9	60	14·0
Mean for the Quarter 50° to 55° — Year 1869	29·665	72·8	16·5	56·3	49·6	37·8	33·0	11·8	43·4	39·2	·243	2·8	0·5	86	547	66·2	32·7	1·3	8	4	6	13	—	6·3	53	11·0
Mean for the Quarter 50° to 55° — 1870	29·571	67·8	11·1	56·7	47·7	35·4	36·4	12·3	41·3	37·4	·227	2·7	0·5	86	547	62·6	24·6	0·9	7	7	6	11	—	6·4	50	11·0
Mean for the Quarter 50° to 55° — 1871	29·762	65·8	19·1	45·9	48·5	36·7	31·6	11·8	42·3	38·4	·238	2·7	0·5	87	550	38·1	31·2	0·9	6	6	8	10	3·1	6·2	46	12·0
Mean for the Quarter 50° to 55° — 1872	29·368	63·5	25·6	37·8	50·3	39·6	30·6	10·7	44·7	41·1	·260	3·0	0·4	88	540	64·7	34·1	1·2	5	5	10	10	3·6	6·7	67	14·0

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING MARCH 31, 1873.

Remarks on the Weather during the Quarter ending March 31st, 1873.

By James Glaisher, Esq., F.R.S., *&c.*

The warm period which set in on 9th December 1872, continued without interruption till 19th January, the excess of temperature above their averages on some of these days exceeding 13°, and for the period 1st to 19th January, the mean excess of daily temperature being 10°. Then followed a few days with temperatures differing but little from their averages. On 25th January a cold period began, and continued throughout February, the average defect of daily temperature for the period between 25th January and 1st March being 4°; this was succeeded by a week's warm weather, the excess of daily temperature from 2nd to 9th March being $3\frac{1}{2}$° nearly; a fortnight of cold weather followed, the average defect of temperature being $3\frac{1}{4}$° daily, and the quarter closed with a week's warm weather; the average daily excess from 24th March amounting to $3\frac{1}{2}$°.

The prevailing wind during the warm periods was a compound of the S. and W., and during the cold period a compound of the E. and N.

The mean temperature of the month of February at Greenwich was $7\frac{3}{4}$° below that in January, and that of March was $7\frac{1}{2}$° above that of February; the temperature of January and March were, therefore, nearly equal; the former month being slightly the warmer.

The mean decrease of temperature from January to February from all stations was 6°·1; and the mean increase from February to March was 6°·1.

The mean temperature of January was 4° above the average of the 32 preceding Januaries, and $5\frac{3}{4}$° above the average of 102 years, whilst that of February was 5° below the average of the 32 preceding Februaries, and $4\frac{1}{4}$° below that of 102 years. The mean temperature of March differed but little from its average value.

Back to 1771 the following are the instances of so high mean temperature of January, viz.,

1796 it was 45°·3	1846 it was 43°·7	1853 it was 42°·4
1804 „ 43°·2	1851 „ 42°·9	1866 „ 42°·6
1834 „ 44°·4	1852 „ 42°·0	1873 „ 42°·1

Therefore back to 1771 there have been only seven Januaries with higher mean temperature than in that of the present year.

The following are instances of low mean temperature in February:—

1771 it was 33°·4	1795 it was 34°·1	1838 it was 32°·9
1772 „ 34°·2	1800 „ 34°·1	1845 „ 32°·7
1782 „ 34°·4	1814 „ 34°·0	1853 „ 33°·3
1784 „ 31°·9	1827 „ 31°·6	1855 „ 29°·4
1785 „ 30°·4	1830 „ 34°·2	1873 „ 34°·3

So that we have to travel back 18 years for so cold a February; and in 102 years there have been only 14 instances of like Februaries.

The corresponding three months most similar to those of this year were in 1853, where the mean temperatures were 42°·4, 33°·3, and 38°·5 respectively, showing a decrease of 9°·1 for February and an increase of 5°·2 for March.

A decline of several degrees in temperature from January to February is rare; the instances on record are as follows:—

1782 the decline was 4°·5	1804 the decline was 6°·3	1855 the decline was 5°·5
1785 „ 5°·7	1845 „ 5°·5	1860 „ 4°·0
1796 „ 5°·7	1853 „ 9°·1	1873 „ 7°·8

The decline of temperature from January to February this year is the greatest of any, (excepting only that in 1853) that has occurred in the period exceeding 100 years.

An increase of several degrees in the mean temperature of March over that in the preceding February is not rare; the instances are as follows:—

1772 the increase was 4°·3	1821 the increase was 6°·8	1843 the increase was 6°·9
1773 „ 6°·0	1827 „ 11°·5	1844 „ 6°·3
1774 „ 4°·8	1830 „ 11°·6	1853 „ 5°·2
1777 „ 8°·8	1836 „ 6°·8	1855 „ 8°·5
1780 „ 13°·9	1838 „ 8°·6	1858 „ 6°·8
1801 „ 5°·6	1841 „ 10°·9	1873 „ 7°·6
1803 „ 6°·0		

Thus it would seem that the increase this year has been exceeded seven times in the 102 years.

The reading of the barometer at 159 feet above sea level was about 29·6 in. at the beginning of January. A decrease, which reached its minimum (29·3 in.), occurred during the 1st and 2nd, but after this day generally increasing values were recorded till the 14th when 30 in. was reached. A very rapid decrease then set in and during the whole of the 20th the readings were but little in excess of 28·3 in., this continued depression being almost unprecedented. The mean daily values for the 19th, 20th, 21st, and 22nd were respectively 1·2 in., 1·1 in., 0·9 in., and 1·1 in., below the average. The above mentioned low readings were counterbalanced by a long continued wave of high values which lasted during the greater part of February, from the 9th to the 21st scarcely any values below 30 in. being recorded. There was a rapid decrease from 29°·52 on the morning of the 25th to 28°·69 on the afternoon of the 26th. During March frequent oscillations were recorded but the mean daily values were generally in defect of the average. The minimum of the month, 28·99 in. occurred on the 1st, and the maximum, 30·04 in. on the 26th, thus giving a range of 1·05 in. The principal movements were an increase to 29·9 in. on the 5th, a decrease to 29·0 in. on the 11th, a general increase to 30·0 in. on the 26th, and a decrease to 29·5 in. on the 31st.

The average atmospheric pressure at Greenwich in February was 0·325 inch greater than in January, and 0·278 inch greater than in March.

The average greater pressure in February from all stations was 0·412 inch over that in January and was 0·294 inch over that in March.

The mean temperature of January was 42°·1, being 5°·8 above the average of the preceding 102 years; and higher than in any year back to 1866 and then again to 1853, the temperature in those years being respectively 42°·6 and 42°·4.

The mean temperature of February was 34°·3, being 4°·3 lower than the average of the preceding 102 years, and lower than in any previous year back to 1855 when 29°·4 was recorded.

The mean temperature of March was 41°·9, being 0°·9 higher than the average of the preceding 102 years, lower than in 1872 and 1871, but higher than in 1870 and 1869.

The mean high day temperatures were respectively 3°·8 and 1°·6 higher than their averages in January and March, but 6°·3 lower in February.

The mean low night temperatures were higher than their respective averages in January and March by 4°·6 and 0°·1, but lower in February by 3°·3.

Therefore the days and nights were warm in January and March, but cold in February.

The daily ranges of temperature were less than their respective averages by 1°·6 and 3°·0 in January and February, but greater in March by 1°·5.

The fall of rain was 0·6 in. and 0·3 in. in excess of the average in January and February, but 0·4 in defect in March.

The mean temperature of the air in the three months ending February, constituting the three winter months, was 39°·8, being 1°·8 higher than the average of the preceding 102 years.

1873. Months.	Temperature of Air. Mean.	Temperature of Air. Diff. from average of 102 years.	Temperature of Air. Diff. from average of 32 years.	Temperature of Evaporation. Mean.	Temperature of Evaporation. Diff. from average of 32 years.	Temperature of Dew Point. Mean.	Temperature of Dew Point. Diff. from average of 32 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 32 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 32 years.	Weight of vapour in a Cubic Foot of Air. Mean.	Weight of vapour in a Cubic Foot of Air. Diff. from average of 32 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	grs.
Jan. -	42·1	+5·8	+4·1	40·4	+3·7	38·2	+3·5	8·8	−1·6	42·5	0·231	+0·030	2·7	+0·4
Feb. -	34·3	−4·3	−5·0	32·8	−4·8	30·3	−4·7	8·4	−3·0	36·4	0·169	−0·037	2·0	−0·4
Mar. -	41·9	+0·9	+0·4	40·2	+1·0	38·2	+2·0	16·1	+1·5	42·1	0·231	+0·016	2·6	+0·1
Means -	39·4	+0·8	−0·2	37·8	0·0	35·6	+0·3	11·1	−1·0	40·3	0·210	+0·003	2·4	0·0

1873. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 32 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 32 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 32 years.	Rain. Amount.	Rain. Diff. from average of 58 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Number of Nights it was Between 30° and 40°	Number of Nights it was Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
Jan. -	87	− 1	29·576	−0·173	546	−8	2·5	+0·6	413	10	17	4	18·5	43·9
Feb. -	85	0	29·901	+0·104	561	+8	1·9	+0·3	281	20	8	0	19·5	40·0
Mar. -	87	+ 5	29·623	−0·126	547	−3	1·3	−0·4	295	23	8	0	18·2	39·5
Means -	86	+ 1	29·700	−0·065	551	−1	Sum 5·7	Sum +0·2	Mean 330	Sum 53	Sum 33	Sum 4	Lowest 18·2	Highest 43·9

NOTE.—In reading this table it will be borne in mind that the minus sign (−) signifies below the average, and that the plus sign (+) signifies above the average.

Thunderstorms occurred on the 2d of January at Lymington, Eccles, Stonyhurst, and Cockermouth; on the 3d at Lymington, Streatley, Llandudno, Hawarden, Hull, Stonyhurst, Cockermouth, Silloth, and Carlisle; on the 18th at Helston, Cockermouth, and Silloth; on the 19th at Guernsey, Truro, Brighton, Lymington, and Stonyhurst; on the 20th at Guernsey, Eastbourne, Brighton, and Stonyhurst; and on the 21st at Eastbourne. On the 10th of March at Guernsey, Royston, and Norwich; on the 11th at Wisbech; on the 14th at Helston; and on the 30th at Gloucester.

Thunder was heard, but lightning was not seen, on the 3d of January at Osborne, Strathfield Turgiss, and Streatley; on the 4th at North Shields; on the 18th at Salisbury and Streatley; on the 19th at Eastbourne and Oxford; and on the 21st at Somerleyton. On the 26th of February at Halifax; on the 27th at Helston; and on the 28th at Halifax. On the 10th of March at Carlisle; on the 11th at Somerleyton; and on the 30th at Guernsey, Brighton, and Weybridge.

Lightning was seen, but thunder was not heard, on the 2d of January at Portsmouth, Brighton, Streatley, and Carlisle; on the 3d at Osborne, Oxford, Royston, Liverpool, and Carlisle; on the 18th at Helston and Somerleyton; on the 19th at Osborne, Portsmouth, Strathfield Turgiss, Weybridge, Oxford, Cardington, Somerleyton, Norwich, Liverpool, Carlisle, and North Shields; on the 20th at Osborne, Portsmouth, Salisbury, Strathfield Turgiss, Weybridge, Marlborough, London, Oxford, Royston, Cardington, Somerleyton, Wisbech, Llandudno, Liverpool, and Cockermouth. On the 27th of February at Guernsey. On the 27th of March at Guernsey; and on the 29th at Guernsey, Osborne, and Portsmouth.

Solar halos were seen on the 1st of January at Brighton and Oxford; and at Oxford on January 23d, 29th, and February 22d.

Lunar halos were seen on the 6th of January at Stonyhurst; on the 7th at Weybridge and North Shields; on the 8th at Portsmouth, Brighton, and Wisbech; on the 10th at Brighton, Weybridge, London, Oxford, Wisbech, Bywell, and North Shields; on the 11th at Bywell and North Shields; on the 12th at Portsmouth, Weybridge, Oxford, Royston, Wisbech, Eccles, Hull, and North Shields; on the 13th at Wisbech, Bywell, and North Shields; on the 14th at North Shields; and on the 19th at Eccles. On the 3d of February at Stonyhurst; on the 5th at Brighton; on the 6th at Oxford; on the 7th at Portsmouth; on the 11th at London; on the 12th at Oxford and Stonyhurst; and on the 13th at North Shields. On the 3rd of March at London; on the 4th at Stonyhurst; on the 7th at Stonyhurst; on the 8th at Portsmouth, Oxford, and North Shields; on the 9th at Wisbech, Hull, York, and North Shields; on the 10th at Portsmouth, Oxford, Wisbech, Llandudno, and Cockermouth; on the 13th at North Shields; and on the 14th at Portsmouth, Brighton, and Oxford.

Auroræ Boreales were seen on the 3d of January at Brighton and Liverpool; on the 5th at North Shields; on the 7th at Eastbourne, Portsmouth, Brighton, Lymington, Weybridge, Oxford, Royston, and Stonyhurst; on the 10th at Carlisle; on the 16th at Streatley; and on the 19th at Weybridge. On the 20th of February at Stonyhurst; on the 22d at Cockermouth and Carlisle; on the 23d at Weybridge; and on the 27th at Carlisle and Bywell. On the 20th of March at Brighton; and on the 22d at Oxford and Wisbech.

Snow, with the exception of a little which fell at Cockermouth and Carlisle on 5th January, there was none till 19th January; throughout February falls were very frequent, excepting at places near the South Coast. It fell on eleven days in March at different places, but there was none recorded at any of the stations after 21st March.

Hail fell on the 2d of January at Guernsey, Truro, Salisbury, Royston, Cardington, Eccles, Stonyhurst, and Cockermouth; on the 3rd at Salisbury, Oxford, Llandudno, Liverpool, and Silloth; on the 5th at Guernsey, Eastbourne, Salisbury, Marlborough, Oxford, Liverpool, and Cockermouth; on the 18th at Truro, Stonyhurst, and Cockermouth; on the 19th at Guernsey, Truro, Eastbourne, Portsmouth, Lymington, Taunton, Oxford, Gloucester, Llandudno, Hawarden, Stonyhurst, and Carlisle; on the 20th at Guernsey, Helston, Truro, Eastbourne, Osborne, Portsmouth, Brighton, Taunton, Stonyhurst, and Carlisle; on the 21st at Guernsey, Truro, Eastbourne, and Llandudno; on the 22d at Truro and Eccles; on the 24th at Eastbourne; and on the 31st at North Shields. On the 1st of February at Hull; on the 2d at Helston; on the 3d at Helston; on the 7th at York and North Shields; on the 8th at Guernsey; on the 9th at Gloucester and North Shields; on the 10th at Strathfield Turgiss, Oxford, Hull, York, and North Shields; on the 11th at Hull and North Shields; on the 12th at Guernsey, Portsmouth, Weybridge, Hull, and North Shields; on the 13th at Truro; on the 22d at Hull; on the 23d at Truro and Llandudno; on the 25th at Oxford and Llandudno; on the 26th at Llandudno; on the 27th at Brighton, Salisbury, Strathfield Turgiss, and Gloucester; and on the 28th at Truro and Oxford. On the 5th of March at Salisbury; on the 6th at Strathfield Turgiss; on the 7th at Stonyhurst; on the 8th at Taunton and Oxford; on the 9th at Guernsey, Truro, Salisbury, and Weybridge; on the 10th at Guernsey, Helston, Brighton, Taunton, Salisbury, Llandudno, Eccles, Stonyhurst, Cockermouth, Silloth, and Carlisle; on the 11th at Guernsey, Brighton, Streatley, London, Royston, Wisbech, Liverpool, Eccles, and Carlisle; on the 12th at Truro; on the 13th at Truro and Lymington; on the 14th at Taunton, Oxford, and York; on the 15th at Guernsey, Hull, and York; on the 16th at Taunton; on the 21st at Lymington and Stonyhurst; and on the 31st at Salisbury.

Fog prevailed in January on 10 days, in February on 17 days, and in March on 17 days, mostly in the Midland Counties; there was very little fog at the stations near the South Coast.

Leaf buds first appeared on the field elm on the 20th of March at Brighton and Weybridge.

Leaf buds first appeared on the oak on the 24th of March at Helston.

Leaf buds first appeared on the lime on the 21st of March at Weybridge; on the 27th at Strathfield Turgiss; and on the 30th at Carlisle.

Leaf buds first appeared on the sycamore on the 3d of March at Weybridge; on the 4th at Strathfield Turgiss; on the 5th at Guernsey; and on the 31st at Carlisle.

Leaf buds first appeared on the horse chestnut on the 15th of March at Strathfield Turgiss and Weybridge; on the 25th at Taunton; and on the 31st at Carlisle.

Leaf buds first appeared on the hawthorn on the 12th of January at Eastbourne. On the 2d of March at Weybridge; on the 20th at Guernsey; on the 24th at Silloth; on the 27th at Carlisle; and on the 28th at Brighton.

Leaf buds first appeared on the hornbean on the 28th of March at Carlisle.

Sycamore in leaf on the 29th of March at Helston.

Horse chestnut in leaf on the 27th of March at Helston.

Hawthorn in leaf on the 28th of March at Helston; and on the 30th at Taunton.

Gooseberry in leaf on the 24th of February at Helston.

Common Poplar in flower on the 22d of March at Brighton.

Primroses in blossom on the 4th of January at Guernsey.

Hardy Pear in blossom on the 8th of March at Helston.

Peach in blossom on the 25th of February at Helston. On the 25th of March at Oxford; on the 26th at Wisbech; and on the 28th at Lymington.

Plum in blossom on the 27th of March at Strathfield Turgiss; on the 28th at Oxford and Lymington; and on the 30th at Silloth.

The Daffodil and Red Flowering Currant in blossom on the 4th of March at Brighton.

Swallow arrived at Guernsey on the 28th of March; and at Taunton on the 31st.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING MARCH 31ST, 1873.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the fifth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1873. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S.	204	Jan.	29·551	1·666	53·5	31·5	22·0	48·2	40·9	7·3	44·5	41·2	·259	2·9	0·4	88	543	–	–	1·7	3	7	13	8	4·5	6·0	22	6·63
		Feb.	29·832	1·684	51·0	31·5	19·5	44·0	36·7	7·3	39·8	36·9	·220	2·6	0·3	90	554	–	–	1·5	10	8	5	5	–	6·7	17	3·31
		Mar.	29·550	0·965	57·0	34·0	23·0	49·3	40·0	9·3	44·5	43·5	·281	3·2	0·2	96	543	–	–	1·4	9	10	6	6	4·8	5·9	18	3·86
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	105	Jan.	29·681	2·078	56·0	32·0	24·0	51·4	42·9	8·5	47·8	40·4	·251	3·1	0·9	77	540	55·0	39·0	2·2	4	3	11	13	5·8	6·6	23	4·97
		Feb.	30·071	1·716	55·0	31·0	24·0	48·4	39·0	9·4	43·0	35·2	·205	2·6	0·8	76	552	46·3	37·1	2·0	14	6	4	4	4·7	6·0	15	3·89
		Mar.	29·803	1·031	63·0	30·0	33·0	52·8	42·3	10·5	46·6	39·4	·241	3·0	1·0	74	541	68·4	39·0	2·6	9	10	5	7	5·5	5·3	20	5·59
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	Jan.	29·675	1·652	55·0	27·0	28·0	49·8	41·6	8·2	45·2	41·6	·263	3·1	0·5	88	545	–	–	3·0	4	3	12	12	–	8·4	25	5·32
		Feb.	30·068	1·705	53·0	27·0	26·0	45·5	36·3	9·2	40·1	35·8	·211	2·4	0·5	85	558	–	–	2·5	13	9	3	3	–	7·7	15	5·03
		Mar.	29·747	1·013	59·0	27·0	32·0	51·1	40·3	10·8	44·4	40·5	·254	2·9	0·5	87	547	–	–	2·8	9	10	4	8	–	7·2	18	4·05
SIDMOUTH (Devon), J. Ingleby Mackenzie, Esq., M.B., F.M.S.	30	Jan.	29·701	1·705	53·5	28·6	24·9	47·6	39·6	8·0	43·6	42·2	·270	3·1	0·3	95	547	–	–	1·7	4	3	5	19	–	4·7	22	4·59
		Feb.	30·079	1·962	51·7	27·2	24·5	42·1	33·5	8·6	37·6	35·0	·204	2·4	0·2	91	561	–	–	0·8	13	10	0	5	–	4·3	9	3·50
EASTBOURNE (Sussex), Miss W. L. Hall.	12	Jan.	29·779	1·703	53·2	28·0	25·2	47·4	40·6	6·8	44·3	41·2	·249	2·9	0·4	85	547	57·9	34·2	0·7	2	4	12	13	5·0	–	20	3·81
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	Jan.	29·579	1·717	53·2	26·6	26·6	47·1	38·0	9·1	42·6	40·0	·248	2·9	0·3	90	546	55·0	37·2	0·2	3	4	14	10	–	7·5	21	4·62
		Feb.	29·900	1·807	48·8	26·4	22·4	40·6	32·1	8·5	35·8	33·3	·193	2·2	0·3	91	559	50·9	31·2	0·3	13	8	3	4	–	9·0	12	2·77
		Mar.	29·610	1·036	63·3	31·3	32·0	51·5	38·8	12·7	43·7	41·1	·259	2·9	0·3	90	545	83·4	32·3	0·2	10	10	5	6	–	5·8	16	2·10
BOURNEMOUTH (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	128	Jan.	29·765	1·720	52·3	30·0	22·3	47·2	40·3	6·9	43·6	37·7	·226	2·6	0·6	79	548	–	–	–	6	2	7	16	–	5·6	21	4·92
		Feb.	30·095	1·870	46·4	27·0	19·4	40·5	33·0	7·5	36·3	32·1	·183	2·1	0·4	84	563	–	–	–	17	6	1	4	–	7·4	10	2·64
		Mar.	29·772	0·850	59·1	29·9	29·2	49·6	37·9	11·7	42·9	38·7	·235	2·7	0·5	84	549	–	–	–	9	7	6	9	–	4·1	15	3·70
PORTSMOUTH, William O. Ellis, Esq., F.M.S.	16	Jan.	29·769	1·711	54·8	25·4	29·4	47·8	35·9	11·9	42·5	40·3	·250	2·9	0·4	92	549	62·6	30·1	1·6	2	4	14	11	2·8	8·0	21	4·38
		Feb.	30·083	1·872	49·4	19·6	29·8	41·6	28·0	13·6	34·9	33·7	·195	2·0	0·3	85	564	55·2	24·0	1·1	18	5	1	4	1·1	8·9	10	1·84
		Mar.	29·792	1·026	61·6	28·0	33·6	51·9	33·3	18·6	42·3	37·9	·228	2·7	0·6	85	550	86·7	27·7	1·2	6	10	8	7	2·3	7·0	19	2·07
WORTHING (Sussex), W. J. Harris, Esq., M.R.C.S.E., L.S.A.	31	Jan.	29·741	1·716	52·2	28·9	23·3	47·1	40·3	6·8	43·6	40·9	·257	3·0	0·3	90	547	63·5	36·0	1·2	3	4	11	13	6·9	7·0	19	2·81
		Feb.	30·037	1·841	49·0	27·0	22·0	40·2	32·3	7·9	35·8	33·1	·190	2·2	0·2	90	562	61·4	29·8	0·9	17	6	2	3	2·2	8·2	12	2·69
		Mar.	29·754	0·997	60·9	29·5	31·4	50·3	38·3	12·0	43·4	39·0	·238	2·7	0·5	84	548	93·7	34·4	1·0	6	8	8	9	5·0	6·0	16	1·77
BRIGHTON (Sussex), Frederick E. Sawyer, Esq., F.M.S.	200	Jan.	29·532	1·761	52·4	29·3	23·1	45·6	39·5	6·1	42·5	40·1	·249	2·9	0·3	91	549	68·4	34·3	1·3	3	3	14	11	–	8·3	22	2·68
		Feb.	29·848	1·899	49·4	26·6	22·8	39·3	31·7	7·6	35·2	31·8	·180	2·1	0·3	89	559	61·5	29·0	0·9	15	7	2	4	–	8·8	16	1·97
		Mar.	29·579	0·954	61·4	29·3	32·1	49·2	38·6	10·6	43·2	39·3	·240	2·7	0·5	86	545	92·9	33·3	1·2	9	8	9	5	–	6·7	–	–
LYMINGTON (Hants), George J. Jones, Esq.	77	Jan.	29·669	1·674	53·2	27·8	25·4	46·9	40·6	6·3	43·7	40·4	·252	2·9	0·3	88	546	–	38·6	1·1	2	5	10	14	–	7·0	18	4·11
		Feb.	30·008	1·785	48·8	26·8	22·0	40·3	33·2	7·1	36·3	33·1	·190	2·2	0·4	89	561	–	31·4	1·4	13	9	3	3	–	8·5	12	2·62
		Mar.	29·708	0·890	64·0	30·1	33·9	51·4	37·6	13·8	43·5	39·3	·241	2·8	0·5	85	547	–	34·8	1·4	8	10	4	9	–	5·8	17	3·02
TAUNTON (Somerset), Rev. W. Tuckwell, F.M.S.	80	Jan.	29·641	1·788	54·5	26·0	28·5	48·7	38·2	10·5	43·8	40·5	·253	2·9	0·3	88	545	52·6	35·2	0·6	2	3	12	14	7·5	6·5	19	3·98
		Feb.	30·022	1·911	58·7	14·2	44·5	41·7	30·8	10·9	36·3	33·6	·194	2·2	0·3	91	561	46·8	30·5	0·2	9	12	5	2	6·0	8·0	5	1·21
		Mar.	29·699	1·068	65·0	25·1	39·9	51·0	33·4	17·6	42·1	40·8	·255	2·9	0·2	95	548	61·5	31·0	0·1	6	8	8	9	7·0	5·6	18	3·43
WILTON HOUSE (near Salisbury), T. Challis, Esq.	186	Jan.	29·340	1·715	57·5	22·5	35·0	47·5	35·9	11·6	42·0	39·8	·245	2·8	0·3	92	545	68·2	34·4	1·4	4	5	14	8	6·2	7·2	20	5·60
		Feb.	29·795	1·813	53·0	23·5	29·5	41·2	30·4	10·8	35·5	32·2	·183	2·1	0·4	88	558	61·9	30·0	1·3	14	9	2	3	4·5	9·0	11	1·92
		Mar.	29·586	0·991	66·0	24·7	41·3	52·3	34·4	17·9	42·5	39·6	·243	2·8	0·3	90	546	86·9	32·3	1·4	10	10	8	3	5·8	6·7	19	3·21
BARNSTAPLE (Devon), T. Mackrell, Esq.	43	Jan.	29·674	1·795	55·0	32·5	22·5	49·1	40·9	8·2	44·8	41·4	·260	3·0	0·3	88	545	–	–	1·2	2	5	15	9	–	5·7	23	5·43
		Feb.	30·058	1·912	50·5	28·5	22·0	43·1	33·9	9·2	38·2	33·5	·192	2·2	0·1	83	561	–	–	–	1	5	15	7	–	6·0	9	2·29
		Mar.	29·722	1·986	61·0	28·5	38·5	51·6	39·8	11·8	45·2	40·3	·250	2·8	0·1	84	545	–	–	–	6	8	9	8	–	4·0	17	3·77

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1873. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
ALDERSHOT CAMP (Hants), John Arnold, Esq., M.S.C., F.M.S.	325	Jan.	29·575	1·689	52·8	24·8	28·0	46·0	36·7	9·3	41·4	37·9	·233	2·6	0·4	90	543	60·4	31·8	1·6	2	5	14	10	2·1	7·5	19	4·17
		Feb.	29·699	1·870	49·0	25·2	23·8	39·8	30·4	9·4	34·2	31·5	·178	2·1	0·3	89	558	56·6	27·5	1·4	12	6	3	7	2·1	9·0	13	2·33
		Mar.	29·424	0·925	68·4	27·8	20·6	51·3	35·1	16·2	41·8	38·4	·234	2·8	0·4	88	544	83·0	30·7	1·5	6	11	7	7	2·4	7·2	20	2·51
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	Jan.	29·536	1·675	53·6	35·1	18·5	45·5	37·2	8·3	41·7	37·6	·225	2·6	0·4	87	546	69·8	31·0	0·7	1	6	11	13	4·0	6·4	14	3·11
		Feb.	29·878	1·893	50·2	24·0	26·2	39·6	31·2	8·4	34·8	32·7	·186	2·1	0·2	92	560	61·6	30·0	0·6	12	6	4	6	3·0	9·0	12	1·68
		Mar.	29·591	1·035	67·2	29·2	38·0	50·2	35·1	15·1	42·4	36·6	·217	2·5	0·6	81	546	95·1	30·0	0·7	6	12	6	7	–	6·6	21	2·20
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	Jan.	29·621	1·681	53·0	21·3	31·7	45·9	36·0	9·9	41·2	37·9	·227	2·6	0·4	89	548	59·2	34·2	1·0	3	4	16	8	1·8	6·0	17	2·68
		Feb.	29·954	1·818	47·0	24·0	23·0	39·0	31·0	8·0	34·7	31·2	·175	2·1	0·3	87	562	54·9	30·3	0·8	9	7	9	3	0·7	8·4	8	1·98
		Mar.	29·661	0·980	70·8	25·8	45·0	51·6	34·8	16·8	41·9	38·6	·235	2·7	0·4	89	548	80·6	32·5	0·8	9	9	8	5	1·4	7·4	21	1·65
MARLBOROUGH COLLEGE (Wilts), Rev. Thomas A. Preston, M.A.	456	Jan.	29·236	1·690	53·0	23·3	29·7	45·1	36·0	9·1	40·6	37·7	·226	2·8	0·2	90	542	58·7	32·6	–	1	5	14	11	5·0	7·4	22	4·38
		Feb.	29·616	1·866	48·5	22·9	25·6	38·6	30·1	8·5	33·7	31·2	·175	2·1	0·2	89	557	55·9	28·9	–	11	11	2	4	4·0	9·0	12	1·40
		Mar.	29·298	1·085	63·3	24·7	38·6	49·5	34·7	14·8	40·8	38·5	·234	2·7	0·4	92	543	86·4	31·1	–	5	13	7	6	4·0	6·9	21	2·79
ROYAL OBSERVATORY (Kent), The Astronomer Royal.	159	Jan.	29·576	1·712	53·8	26·0	27·8	46·8	38·0	8·8	42·1	38·2	·231	2·7	0·5	87	546	62·8	32·5	0·8	2	5	12	12	–	6·9	15	2·45
		Feb.	29·901	1·929	50·1	25·0	25·1	39·2	30·8	8·4	34·6	30·3	·169	2·0	0·4	85	561	49·9	28·0	0·5	11	7	4	6	–	9·2	11	1·93
		Mar.	29·623	1·050	64·6	27·2	37·4	51·3	35·2	16·1	41·9	38·2	·231	2·6	0·4	87	547	87·0	29·1	0·5	7	11	6	7	–	6·5	15	1·33
THE GUILDHALL (London), William Haywood, Esq.		Jan.	29·548	1·707	55·0	32·8	22·2	47·5	41·2	6·3	44·4	39·0	·238	2·7	0·6	81	543	–	–	–	-	-	-	-	–	–	19	2·45
		Feb.	29·889	1·977	49·2	28·0	41·2	40·3	35·2	7·1	36·5	31·6	·179	2·1	0·5	83	559	–	–	–	-	-	-	-	–	–	10	1·85
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.A.S.	150	Jan.	29·614	1·691	54·2	23·2	31·0	47·2	36·9	10·3	42·3	39·5	·242	2·8	0·4	90	546	51·8	–	1·5	2	6	13	10	–	7·1	15	3·57
		Feb.	29·929	1·909	50·0	24·8	25·2	39·3	30·7	8·6	35·3	32·6	·185	2·2	0·3	90	560	44·5	–	1·4	6	8	7	7	–	9·0	8	1·60
		Mar.	29·695	1·016	67·5	27·0	40·5	51·5	36·5	15·4	42·7	39·2	·239	2·9	0·4	87	548	59·1	–	1·5	8	9	6	8	–	7·1	21	2·38
ST. JOHN'S COLLEGE, BATTERSEA, Rev. J. P. Faunthorpe, M.A., F.R.G.S.	13	Dec.	29·549	1·131	56·0	24·0	32·0	47·9	35·6	12·3	42·6	40·9	·257	2·9	0·3	93	545	49·9	30·0	1·7	1	2	16	12	–	7·3	18	4·50
		Jan.	29·692	1·710	58·0	25·0	33·0	47·9	35·7	12·2	42·2	39·1	·239	2·8	0·3	90	548	49·5	30·5	1·6	0	3	17	11	–	7·3	13	2·77
		Feb.	30·021	1·929	50·0	20·0	30·0	40·0	28·3	11·7	34·3	31·5	·178	2·1	0·3	90	563	46·0	27·0	1·5	5	5	10	8	–	9·1	10	2·26
		Mar.	29·748	1·079	65·0	26·0	39·0	51·4	32·9	18·5	41·5	37·4	·225	2·6	0·4	87	550	63·6	28·7	1·7	6	11	8	6	–	6·9	19	1·76
CAMDEN TOWN (London), G. J. Symons, Esq., F.M.S.	123	Jan.	29·620	1·702	53·9	28·8	25·1	46·7	38·3	8·4	42·6	38·2	·231	2·6	0·4	85	546	52·1	35·0	–	3	2	10	16	–	6·8	18	2·44
		Feb.	29·952	1·853	50·1	25·8	24·3	39·5	31·3	8·2	35·2	31·1	·174	2·1	0·3	84	561	48·4	30·1	–	15	6	1	6	–	9·0	13	1·96
		Mar.	29·667	0·999	63·7	29·2	34·5	51·2	35·6	15·6	42·6	39·6	·243	2·7	0·4	87	547	74·9	33·4	–	14	8	5	4	–	6·4	17	1·46
CHISWICK (London), Thiselton Dyer, Esq.	25	Jan.	29·722	1·673	55·5	25·0	30·5	47·6	37·5	10·1	42·1	38·6	·234	2·7	0·4	88	549	59·9	34·3	–	3	4	16	8	–	–	17	2·89
		Feb.	30·053	1·890	47·0	25·5	21·5	39·7	31·6	8·1	35·1	31·8	·180	2·1	0·4	87	563	52·7	30·4	–	15	4	3	6	–	–	9	1·56
		Mar.	29·775	1·078	65·0	26·0	39·0	51·6	34·9	16·7	42·1	38·3	·232	2·7	0·4	87	550	75·7	33·6	–	11	8	7	5	–	–	17	1·53
OXFORD (Oxfordshire), Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	Jan.	29·497	1·737	53·9	24·3	29·6	46·1	37·7	8·4	42·0	37·1	·221	2·6	0·5	84	545	74·0	35·0	1·4	2	5	16	8	2·6	8·2	18	2·20
		Feb.	29·860	1·953	49·8	25·0	24·8	39·5	31·9	7·6	35·3	31·2	·176	2·1	0·4	86	559	64·0	30·5	0·9	11	4	6	7	1·7	9·2	14	1·61
		Mar.	29·585	1·195	63·8	27·2	36·6	49·6	36·0	13·6	42·4	38·0	·229	2·7	0·5	85	546	90·3	33·2	1·7	9	8	7	7	2·8	7·6	20	2·35
GLOUCESTER (Gloucester), E. Toller, Esq., M.D.	100	Jan.	29·679	1·741	56·5	24·1	32·4	47·7	38·1	9·6	42·7	37·9	·228	2·6	0·5	84	547	62·1	36·5	1·0	3	2	12	14	1·6	6·7	18	3·38
		Feb.	30·052	1·938	47·2	25·1	22·1	41·0	32·0	9·0	36·1	30·8	·174	2·0	0·5	81	562	56·5	31·6	0·5	10	8	4	6	1·1	8·2	12	0·83
		Mar.	29·731	1·006	60·7	24·2	36·5	51·3	34·7	16·6	42·3	36·8	·218	2·5	0·6	82	549	80·5	33·7	0·8	8	8	7	8	2·0	6·4	17	2·89
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	Jan.	29·459	1·707	53·8	25·0	28·8	46·6	36·4	10·2	41·6	37·1	·221	2·6	0·5	85	545	–	–	–	3	3	16	9	–	6·2	17	2·64
		Feb.	29·802	1·875	49·5	21·9	27·6	39·5	29·5	10·0	34·2	30·9	·174	2·1	0·2	87	559	–	–	–	11	4	4	9	–	8·5	14	2·32
		Mar.	29·548	1·054	68·2	27·8	40·4	51·6	33·5	18·1	41·0	38·3	·231	2·6	0·4	90	547	–	–	–	8	8	8	7	–	7·2	18	1·49
CARDINGTON (near Bedford), Mr. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	105	Jan.	29·629	1·710	54·0	25·0	29·0	46·2	36·2	10·0	41·1	37·9	·229	2·6	0·4	89	548	48·1	30·1	1·2	0	6	12	13	–	6·0	–	2·15
		Feb.	29·997	1·886	52·0	23·0	29·0	39·7	30·9	8·8	34·9	31·4	·176	2·1	0·3	86	562	46·5	27·7	0·8	12	5	5	6	–	8·4	–	1·46
		Mar.	29·718	1·122	63·0	27·0	36·0	49·7	34·1	15·6	40·8	36·7	·215	2·5	0·4	85	550	65·2	28·4	1·0	6	12	7	6	–	7·5	–	1·46
ST. DAVID'S COLLEGE, LAMPETER (Cardiganshire), Prof. A. W. Scott.	420	Dec.	29·131	1·198	58·5	18·0	40·5	50·4	30·9	19·5	40·4	35·9	·212	2·5	0·4	84	540	61·4	–	–	5	8	13	5	–	–	19	8·84
		Jan.	29·163	1·374	56·0	27·0	29·0	50·9	32·0	18·9	41·7	35·7	·209	2·4	0·6	80	539	61·7	–	–	1	5	19	6	–	–	23	5·20
		Feb.	29·717	1·079	52·0	17·0	35·0	41·5	29·5	12·0	35·4	30·8	·173	2·1	0·4	83	557	55·6	–	–	10	8	5	5	–	–	6	1·58
		Mar.	29·398	1·474	66·0	22·5	43·5	51·7	34·9	16·8	42·5	38·1	·230	2·7	0·6	85	542	89·3	–	–	7	11	8	5	–	–	13	3·00
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	50	Jan.	29·680	1·664	53·4	26·2	27·2	46·1	36·7	9·4	41·4	39·6	·244	2·9	0·2	94	549	–	27·4	1·0	3	4	11	13	7·3	6·4	16	1·65
		Feb.	30·019	1·919	51·2	24·8	26·4	40·2	31·1	9·1	35·3	34·0	·197	2·3	0·2	95	562	–	24·4	0·8	10	6	5	7	7·0	8·5	14	1·64
		Mar.	29·758	1·069	62·3	24·4	37·9	48·8	34·4	14·4	41·5	38·8	·238	2·7	0·4	88	550	–	25·0	1·1	7	12	6	6	7·6	5·4	16	1·75

NAMES of STATIONS and OBSERVERS.	Height of Station above Sea Level.	Year 1873. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Lowest.	Range.	Mean Of all Highest.	Mean Of all Lowest.	Mean Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour in a cubic foot of Air. Mean.	Vapour in a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
NORWICH (Norfolk), C. M. GIBSON, Esq., F.M.S.	42	Jan.	29·681	1·715	53·5	26·0	27·5	45·1	35·9	9·2	40·6	38·1	·230	2·7	0·3	91	550	—	—	—	5	4	13	9	—	—	16	2·22
		Feb.	30·027	1·960	50·0	21·5	28·5	38·9	29·9	9·0	34·2	32·3	·184	2·2	0·2	93	564	—	—	—	9	5	3	11	—	—	12	1·93
		Mar.	29·763	1·092	58·0	26·5	31·5	47·1	33·3	13·8	39·7	37·9	·228	2·7	0·2	94	552	—	—	—	7	12	6	6	—	—	14	1·68
WISBECH (Cambridgeshire), S. H. MILLER, Esq., F.R.A.S., F.M.S.	14	Jan.	29·684	1·715	55·0	22·0	33·0	46·0	36·7	9·3	40·4	38·4	·236	2·7	0·2	93	550	65·0	33·4	0·7	3	7	13	8	5·9	6·3	16	1·88
		Feb.	30·065	2·004	50·0	25·0	25·0	39·5	31·3	8·2	34·6	33·0	·189	2·2	0·1	94	564	56·9	28·8	0·5	9	5	6	8	1·9	8·8	14	1·69
		Mar.	29·786	1·122	65·0	26·5	38·5	49·5	34·7	14·8	40·9	39·0	·237	2·8	0·2	93	551	84·3	31·0	0·7	10	10	6	5	2·6	7·0	19	1·56
LLANDUDNO (Carnarvonshire), JAMES NICOL, Esq., M.D., and THOMAS DALTON, Esq., M.D.	100	Jan.	29·491	1·785	54·9	28·4	26·5	47·9	38·6	9·3	43·3	38·2	·230	2·7	0·5	81	543	—	—	0·8	2	2	10	17	—	6·8	22	5·81
		Feb.	30·029	1·981	50·0	25·6	24·4	42·3	33·6	8·7	38·5	32·7	·185	2·2	0·5	79	559	—	—	0·8	7	5	2	14	—	7·7	11	1·23
		Mar.	29·682	1·103	68·7	30·6	38·1	50·0	37·6	12·4	43·6	37·7	·226	2·6	0·6	79	547	—	—	0·6	3	13	6	9	—	6·7	12	2·09
DERBY (Derbyshire), JOHN DAVIS, Esq.	174	Jan.	29·466	1·722	55·0	24·0	31·0	45·3	36·8	8·5	40·9	37·8	·227	2·7	0·4	89	546	—	—	—	1	5	16	9	—	—	14	2·04
		Feb.	29·902	1·967	50·0	22·0	28·0	40·3	31·1	9·2	35·4	32·3	·184	2·1	0·3	89	560	—	—	—	8	4	5	11	—	—	11	0·68
		Mar.	29·605	1·152	61·0	27·0	34·0	47·6	34·5	13·1	40·2	35·7	·213	2·6	0·9	86	549	—	—	—	7	10	6	8	—	—	14	2·15
NOTTINGHAM (Notts), M. O. TARBOTTON, Esq., C.E., F.G.S., F.M.S.	241	Jan.	29·393	1·735	55·0	19·1	35·9	46·2	38·2	8·0	41·6	38·5	·233	2·7	0·2	89	543	—	28·0	0·5	3	5	17	6	0·5	6·9	20	2·19
		Feb.	29·825	1·947	51·5	20·3	31·2	40·2	29·5	10·7	34·4	31·2	·176	2·1	0·2	89	560	—	22·2	0·7	11	5	4	8	0·3	6·9	14	0·91
		Mar.	29·536	1·113	63·8	24·2	39·6	49·3	33·7	15·6	40·3	37·6	·225	2·6	0·2	90	547	59·4	25·6	0·7	7	12	6	6	1·0	8·2	19	1·92
HOLKHAM (Norfolk), JOHN DAVIDSON, Esq., Assistant to the EARL of LEICESTER.	39	Dec.	29·522	1·224	53·0	26·2	26·8	45·9	35·4	10·5	41·4	38·2	·231	2·7	0·4	89	546	51·5	28·7	1·2	6	4	16	5	—	7·3	19	3·30
		Jan.	29·666	1·705	54·5	23·5	31·0	46·1	35·7	10·4	41·2	37·0	·220	2·5	0·5	85	549	56·5	29·3	1·6	1	4	22	4	—	6·2	16	1·80
		Feb.	30·084	1·514	51·2	15·6	35·6	40·1	29·4	10·7	34·9	30·1	·167	2·0	0·4	81	563	59·0	24·4	1·0	10	5	7	16	—	8·5	14	3·18
HAWARDEN (Flint), T. MOFFAT, Esq., M.D., F.R.A.S.	270	Jan.	29·332	1·744	53·5	27·0	26·5	44·6	37·9	6·7	40·7	37·8	·227	2·5	0·4	89	543	61·2	18·6	2·3	4	3	14	10	2·6	6·9	20	2·15
		Feb.	29·782	1·938	47·0	25·0	22·0	39·2	32·4	6·8	35·6	32·5	·184	2·1	0·4	86	558	68·2	15·5	1·8	12	4	4	8	2·0	6·7	15	0·89
		Mar.	29·510	1·164	60·0	30·0	30·0	47·1	36·2	10·9	40·2	37·5	·224	2·6	0·3	90	547	84·2	17·3	2·0	7	8	12	4	1·2	6·8	19	3·44
LIVERPOOL OBSERVATORY, JOHN HARTNUP, Esq., F.R.A.S.	197	Jan.	29·421	1·776	55·0	28·2	26·8	46·8	38·2	8·6	42·2	37·3	·223	2·6	0·5	84	543	—	—	1·6	1	7	15	8	—	6·9	19	2·19
		Feb.	29·926	1·888	49·7	24·1	25·6	40·8	32·3	8·5	36·2	32·2	·184	2·1	0·4	86	560	—	—	1·1	9	5	5	9	—	7·6	8	0·45
		Mar.	29·603	1·148	62·4	29·8	32·6	47·8	35·8	12·0	41·1	36·2	·212	2·4	0·6	82	548	—	—	1·3	8	14	5	4	—	6·3	15	2·74
ECCLES (near MANCHESTER), T. MACKERETH, Esq., F.R.A.S., F.M.S.	145	Jan.	29·474	1·800	54·5	24·0	30·5	46·2	36·2	10·0	41·3	36·8	·218	2·5	0·5	85	545	49·1	29·3	1·0	2	6	16	7	4·3	6·6	21	3·81
		Feb.	29·960	1·958	47·6	14·6	33·0	41·1	29·8	11·3	35·5	31·0	·174	2·0	0·5	84	561	45·8	24·1	0·4	9	7	5	7	1·6	7·6	17	0·55
		Mar.	29·643	1·154	65·5	27·2	38·3	49·8	34·2	15·6	41·7	36·5	·216	2·5	0·6	83	548	60·6	27·2	0·2	6	12	8	6	2·0	5·9	17	2·69
MOOR SIDE OBSERVATORY, HALIFAX, (Yorkshire), LOUIS J. CROSSLEY, Esq., F.M.S.	429	Jan.	29·082	1·817	52·5	16·5	36·0	44·1	34·6	9·5	39·2	36·5	·216	2·5	0·3	90	540	57·6	31·1	—	2	6	13	10	2·8	6·4	22	4·32
		Feb.	29·552	1·932	49·4	6·0	43·4	39·5	32·0	7·5	34·6	32·0	·182	2·2	0·2	92	554	59·4	27·0	1·1	12	4	3	9	3·9	8·4	14	0·70
THE PARK, HULL (Yorkshire), MR. E. PEAK.	12	Jan.	29·620	1·835	53·0	23·0	30·0	44·7	36·0	8·7	40·4	37·4	·223	2·7	0·3	90	549	54·2	33·3	—	—	—	—	—	4·4	—	15	1·91
		Feb.	30·080	1·962	49·0	12·0	37·0	39·9	30·2	9·7	34·6	32·0	·182	2·1	0·3	91	564	53·6	28·1	—	—	—	—	—	3·1	—	17	1·72
		Mar.	29·804	1·131	56·0	24·0	32·0	45·7	33·5	12·2	38·2	36·5	·216	2·5	0·4	95	555	64·4	31·4	—	—	—	—	—	2·4	—	17	2·48
STONYHURST (Lancashire), REV. S. J. PERRY, F.R.A.S., F.M.S.	383	Jan.	29·232	1·850	52·6	18·7	33·9	44·8	36·3	8·5	40·2	36·8	·218	2·5	0·4	89	542	66·2	31·5	—	2	5	15	9	—	7·7	28	6·17
		Feb.	29·715	1·950	44·8	12·3	32·5	40·4	31·3	9·1	35·2	32·5	·183	2·1	0·3	89	557	71·2	26·5	—	10	4	2	12	—	7·7	16	0·82
		Mar.	29·407	1·198	60·7	28·8	31·9	47·6	35·8	11·8	40·5	34·5	·200	2·3	0·4	80	545	90·9	30·1	—	7	14	4	6	—	7·3	25	3·40
BRADFORD (Yorkshire), J. McLANDSBOROUGH, Esq., C.E., F.G.S.	366	Jan.	29·184	1·822	54·8	22·8	32·0	46·3	36·9	9·4	41·1	38·4	·232	2·7	0·3	90	540	49·4	—	1·6	—	—	—	—	—	4·7	19	3·22
		Feb.	29·680	1·917	48·8	27·2	21·6	41·9	32·2	9·7	36·8	33·0	·188	2·2	0·3	87	554	49·1	—	0·8	—	—	—	—	—	6·1	—	—
		Mar.	29·377	1·219	58·0	28·8	29·2	46·3	35·0	11·3	40·1	36·2	·203	2·5	0·4	86	545	59·6	—	1·0	—	—	—	—	—	5·4	14	2·90
LEEDS PHILOSOPHICAL HALL (Yorkshire), LOUIS C. MIALL, Esq.	137	Jan.	29·476	1·839	53·0	24·0	29·0	45·4	32·8	12·6	40·3	34·6	·200	2·8	0·6	90	547	51·0	—	1·5	2	4	8	17	—	8·7	19	2·37
		Feb.	29·956	1·961	52·0	15·0	37·0	41·0	30·9	10·1	36·2	30·1	·175	1·9	0·6	79	560	49·7	—	1·2	13	5	2	8	—	9·2	14	0·88
		Mar.	29·654	1·199	62·0	28·0	34·0	47·9	34·0	13·9	40·4	36·0	·213	2·5	0·4	85	536	56·8	—	1·4	8	11	6	6	—	7·3	18	2·28
YORK (Yorkshire), J. F. FRYER, Esq.	50	Jan.	29·547	1·886	51·5	17·0	34·5	41·7	33·7	8·0	38·2	37·7	·226	2·7	0·1	98	550	—	—	—	—	—	—	—	—	—	14	2·25
		Feb.	29·995	1·973	45·0	10·0	35·0	38·7	29·8	8·9	34·3	31·8	·180	2·1	0·2	90	563	—	—	—	4	15	8	3	—	—	13	1·28
		Mar.	29·727	1·256	57·0	27·0	30·0	44·6	33·7	10·9	38·4	37·0	·220	2·5	0·4	95	533	—	—	—	8	12	9	2	—	—	15	2·16
COCKERMOUTH (Cumberland) [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

NAMES and STATIONS and OBSERVERS.	Height of Station above Sea Level.	Year 1873. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Lowest.	Range.	Mean Of all Highest.	Mean Of all Lowest.	Mean Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour in a cubic foot of Air. Mean.	Vapour in a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
ALLENHEADS (Northumberland), MR. S. STOBBS, Assistant to W. B. BEAUMONT, Esq., M.P.	1360	Jan.	28·093	1·849	50·0	21·5	28·5	41·4	32·0	9·4	36·0	34·2	·199	2·3	0·2	94	525	58·1	30·9	2·1	—	—	—	—	—	5·9	25	6·32
		Feb.	28·607	1·835	45·0	13·0	32·0	39·2	27·6	11·6	31·9	29·3	·166	2·0	0·1	93	540	57·8	27·4	1·4	—	—	—	—	—	5·4	14	1·53
		Mar.	28·292	1·134	54·0	19·0	35·0	43·5	30·3	13·2	36·0	34·3	·199	2·3	0·2	94	529	72·9	29·0	1·2	—	—	—	—	—	4·6	21	3·10
SILLOTH RECTORY (Cumberland), REV. FRANCIS REDFORD, M.A., F.R.A.S., F.M.S.	28	Jan.	29·498	1·978	52·0	24·0	28·0	46·7	36·2	10·5	41·0	37·8	·227	2·6	0·3	89	546	61·7	31·0	—	2	6	9	14	9·5	7·3	20	6·43
		Feb.	30·082	1·954	51·8	13·4	38·4	42·5	31·7	10·8	36·0	31·5	·179	2·0	0·4	84	563	63·9	27·8	—	6	10	4	8	4·0	6·6	3	0·75
		Mar.	29·746	1·249	68·9	25·5	43·4	50·7	34·6	16·1	41·4	37·2	·224	2·6	0·5	87	550	82·2	30·2	—	2	20	3	6	7·4	6·5	14	2·32
CARLISLE (Cumberland), J. CARTMELL, Esq., F.M.S.	114	Jan.	29·410	1·962	53·0	21·4	31·6	45·3	34·7	10·6	39·9	37·0	·220	2·5	0·4	89	545	54·1	30·0	1·9	3	4	16	8	6·6	7·4	20	4·44
		Feb.	29·999	1·942	48·5	10·5	38·0	40·5	27·9	12·6	34·2	31·0	·174	2·0	0·3	88	563	55·9	23·3	1·1	7	6	6	9	5·6	7·1	4	0·60
		Mar.	29·672	1·203	67·3	27·7	39·6	49·2	33·8	15·4	41·7	37·2	·223	2·5	0·5	87	549	75·1	28·9	1·5	7	12	6	6	5·4	6·3	12	1·90
BYWELL (Northumberland), MR. JOHN DAWSON, Assistant to W. B. BEAUMONT, Esq., M.P.	87	Jan.	29·420	1·859	56·0	26·0	30·0	46·4	37·3	9·1	41·1	35·3	·207	2·4	0·6	80	545	50·0	30·9	1·2	0	5	10	16	—	6·5	21	2·14
		Feb.	29·982	1·889	51·0	19·0	32·0	42·1	32·1	10·0	36·3	30·6	·172	2·0	0·5	80	550	46·2	25·3	1·1	8	5	3	12	—	6·3	15	1·65
		Mar.	29·683	1·123	58·0	27·0	31·0	46·9	35·6	11·3	40·0	34·3	·198	2·3	0·6	80	551	52·8	29·5	1·2	4	16	4	7	—	6·4	23	2·18
NORTH SHIELDS (Northumberland), ROBERT SPENCE, Esq.	124	Jan.	29·470	1·994	54·6	26·3	28·3	44·5	36·7	7·8	40·3	35·7	·209	2·5	0·4	84	546	—	34·7	1·9	5	2	9	15	—	6·1	21	1·02
		Feb.	30·026	1·935	45·9	17·7	28·2	40·9	31·9	9·0	35·9	33·2	·180	2·1	0·3	86	562	—	30·1	1·8	12	6	2	8	—	7·1	16	1·91
		Mar.	29·738	1·158	51·0	27·5	23·5	43·4	35·1	8·3	39·6	36·1	·219	2·6	0·4	88	552	—	33·8	1·7	7	11	9	4	—	7·3	24	1·86
MILTOWN (Banbridge, Ireland), JOHN SMYTH, Esq., Jun., M.A., M.I.C.E.I.	200	Jan.	29·258	1·774	53·0	25·0	28·0	45·4	36·3	9·1	40·8	37·6	·225	2·6	0·4	87	541	53·7	32·1	2·4	2	5	20	4	5·4	6·0	24	3·96
		Feb.	29·927	1·935	49·0	13·0	36·0	41·8	30·3	11·5	35·6	32·2	·182	2·1	0·4	87	560	61·3	25·1	1·0	10	4	6	8	3·0	4·9	15	1·15
		Mar.	29·548	1·185	60·0	29·0	31·0	47·3	35·8	11·5	41·2	37·4	·224	2·6	0·5	87	547	78·3	30·8	2·0	9	10	7	5	4·6	5·5	21	2·31

NOTE.—*Erratum.* MARLBOROUGH COLLEGE.—The reading of minimum radiation thermometer for 1872, October, should be 35°·9 instead of 25°·9; and the mean for the quarter 34°·9 instead of 31°·5. It is probable that the readings for some time past have been too low.

The Barometer Reading, YORK, January 22nd, 3h. p.m., 29·712 in., has been altered to 28·712 in.
" ST. JOHN'S COLLEGE, Battersea, " 19th, 9h. a.m., 29·858 in., " 28·858 in.
" HULL, " 21st, 5h. p.m., 28·004 in., " 29·004 in.
" GUILDHALL, " 7th, 3h. p.m., 29·100 in., " 30·100 in.

Second Rain-gauges are placed—

	Height		January.	February.	March.	Total during the Quarter.
At Eastbourne, at the height of	160 feet	*above the sea*, the amount collected was	8·39 inches.	— inches.	— inches.	inches.
" Beachy Head, "	610 feet	"	2·10 "	—	—	—
" Portsmouth, "	20 feet	*above the ground* "	4·14 "	1·78 "	1·80 "	7·72 "
" Strathfield Turgiss, "	38 feet	"	1·58 "	1·11 "	1·47 "	4·16 "
" Eccles, Manchester, "	34 feet	"	2·80 "	0·35 "	2·14 "	5·29 "
" Allenheads, "	6¾ feet	"	7·57 "	1·79 "	1·29 "	10·65 "
" Carlisle, "	3 feet	"	0·84 "	1·02 "	1·87 "	3·73 "
" Miltown, Ireland, "	40 feet	"	3·46 "	0·58 "	1·90 "	5·94 "
" Brighton, "	35 feet	"	—	—	—	—
" Radcliffe Observatory, "	22 feet	"	2·02 "	0·92 "	2·33 "	5·27 "
" Marlborough College, "	8 inches	"	4·24 "	1·40 "	2·58 "	8·22 "
" " "	1 foot	"	4·05 "	1·16 "	2·59 "	7·80 "
" Cardington, "	36 feet	"	1·84 "	1·24 "	1·14 "	4·22 "
" Nottingham, "	25½ feet	"	1·98 "	0·76 "	1·79 "	4·53 "
" Wisbech, "	8 feet	"	1·71 "	1·43 "	1·45 "	4·59 "
" Aldershot Camp, "	25 feet	"	3·19 "	1·75 "	1·85 "	6·79 "

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°								
Guernsey	29·617	57·0	31·5	25·5	47·2	39·2	21·5	8·0	42·9	40·5	·253	2·9	0·3	91	547	—	—	1·5	7	8	8	7	—	6·2	57
Helston	29·735	63·0	30·0	33·0	50·9	41·4	27·0	9·5	45·8	38·3	·232	2·9	0·9	76	544	56·6	38·4	2·3	9	6	7	8	5·3	6·0	58
Truro	29·634	59·0	27·0	32·0	48·8	39·4	23·7	9·4	43·2	38·3	·243	2·8	0·5	87	550	—	—	2·8	9	7	6	8	—	7·8	58
Osborne	29·651	63·3	26·4	36·9	46·4	36·3	27·0	10·1	40·7	38·3	·233	2·7	0·3	90	550	63·1	33·6	0·2	9	7	7	7	—	7·4	49
Bournemouth	—	59·1	27·0	32·1	45·8	37·1	23·6	8·7	40·9	36·2	·215	2·5	0·5	82	553	—	—	—	10	5	5	10	—	5·7	46
Portsmouth	29·673	61·6	19·6	42·0	47·1	32·4	30·9	14·7	39·9	37·3	·224	2·5	0·4	87	554	68·2	27·3	1·3	9	6	8	7	2·1	8·0	50
Worthing	29·649	60·9	27·0	33·9	45·9	37·0	25·6	8·9	40·9	37·7	·228	2·6	0·3	88	552	72·9	33·4	1·0	9	6	7	8	4·7	7·1	47
Brighton	29·651	61·4	26·6	34·8	44·7	36·6	26·0	8·1	40·3	37·1	·223	2·6	0·4	89	551	74·3	32·2	1·1	9	6	8	7	—	7·9	—
Lymington	29·651	64·0	26·8	37·2	46·2	37·1	27·1	9·1	41·2	37·6	·228	2·6	0·4	87	551	—	34·9	1·3	8	8	6	8	—	7·1	47
Taunton	29·641	65·0	14·2	50·8	47·1	34·1	37·6	13·0	40·7	38·3	·234	2·7	0·3	91	551	53·6	32·2	0·3	6	8	8	8	6·8	6·7	43
Wilton House	29·621	66·0	22·5	43·5	47·0	33·6	35·3	13·4	40·0	37·2	·224	2·6	0·3	90	550	72·3	32·2	1·4	9	8	8	5	5·6	7·6	50
Barnstaple	29·631	67·0	28·5	38·5	47·9	38·2	27·7	9·7	42·7	38·4	·234	2·7	0·2	85	550	—	—	—	3	6	13	8	—	5·2	49
Aldershot Camp	29·643	68·4	24·8	43·6	45·7	34·1	24·1	11·6	39·1	35·9	·215	2·5	0·4	89	548	66·7	30·0	1·5	7	7	8	8	2·2	7·9	52
Strathfield Turgiss	29·680	67·2	24·0	43·2	45·1	34·5	27·6	10·6	39·6	35·6	·209	2·4	0·4	87	551	75·5	30·3	0·7	6	8	7	9	—	7·3	47
Weybridge Heath	29·700	70·8	21·3	49·5	45·5	33·9	33·2	11·6	39·3	35·9	·212	2·5	0·4	88	553	64·9	32·3	0·9	7	7	11	5	1·3	7·3	46
Marlborough College	29·681	63·3	22·9	40·4	44·4	33·6	31·3	10·8	38·4	35·8	·212	2·5	0·3	90	547	67·0	30·9	—	6	10	8	7	4·3	7·8	55
Royal Observatory	29·663	64·6	25·0	39·6	45·8	34·7	30·1	11·1	39·5	35·6	·210	2·4	0·4	86	551	65·6	29·9	0·6	7	8	7	8	—	7·5	41
Streatley Vicarage	29·694	67·5	23·2	44·3	46·0	34·7	32·2	11·3	40·1	37·1	·222	2·3	0·4	89	551	51·8	—	1·5	5	8	9	8	—	7·7	44
St. John's Col. Battrsa.	29·621	65·0	20·0	45·0	46·4	32·3	34·0	14·1	39·3	36·0	·214	2·5	0·5	89	554	53·0	28·7	1·6	4	6	12	8	—	7·8	42
Camden Town	29·665	63·7	25·8	37·9	45·8	35·1	28·0	10·7	40·1	36·3	·216	2·5	0·4	85	551	58·5	32·8	—	11	5	5	9	—	7·4	48
Oxford	29·670	63·8	24·3	39·5	45·1	35·2	30·3	9·9	39·9	32·1	·209	2·5	0·5	85	550	76·1	32·9	1·3	7	6	10	7	2·4	8·3	47
Gloucester	29·725	60·7	24·1	36·6	46·7	34·9	30·3	11·8	40·4	35·2	·207	2·4	0·5	82	553	66·4	33·9	0·8	7	6	8	9	1·6	7·1	47
Royston	29·692	68·2	21·9	46·3	45·9	33·1	32·3	12·8	38·9	35·4	·209	2·4	0·4	87	550	—	—	—	7	5	9	8	—	7·3	49
Cardington	29·684	63·0	23·0	40·0	45·2	33·7	31·3	11·5	38·9	35·3	·207	2·4	0·4	87	553	53·3	28·7	1·0	6	8	8	8	—	7·3	—
Lampeter	29·669	65·0	17·0	49·0	48·0	32·1	35·8	15·9	39·9	34·9	·204	2·4	0·5	83	546	69·2	—	—	6	8	11	5	—	—	42
Somerleyton Rectory	29·645	62·3	24·4	37·9	45·0	34·1	30·5	10·9	39·4	37·5	·226	2·6	0·3	92	554	—	25·6	1·0	7	7	7	9	7·3	6·8	46
Norwich	29·657	58·0	21·5	36·5	43·7	33·0	29·2	10·7	38·2	36·1	·214	2·5	0·2	93	555	—	—	—	7	7	7	9	—	—	42
Wisbech	29·639	65·0	22·0	43·0	45·0	34·2	32·2	10·8	38·6	36·8	·221	2·6	0·2	93	555	68·7	31·1	0·6	7	7	8	7	3·5	7·4	49
Llandudno	29·630	68·7	25·6	43·1	46·7	36·6	29·7	10·1	41·8	36·2	·214	2·5	0·5	80	550	—	—	0·7	4	7	6	13	—	7·1	45
Derby	29·642	61·0	22·0	39·0	44·4	34·1	31·0	10·3	38·8	35·3	·208	2·5	0·5	88	552	—	—	—	6	6	9	9	—	—	39
Hawarden	29·627	60·0	25·0	35·0	43·6	35·5	26·2	8·1	38·8	35·9	·212	2·4	0·4	88	549	71·2	17·1	2·0	8	5	10	7	1·9	6·8	54
Liverpool	29·659	62·4	24·1	38·3	45·1	35·4	28·3	9·7	39·8	35·2	·210	2·4	0·5	84	550	—	—	1·3	6	9	8	7	—	6·9	42
Eccles	29·649	65·5	14·6	50·9	45·7	33·4	33·9	12·3	39·5	34·8	·203	2·3	0·5	84	551	51·8	26·9	0·5	6	8	10	6	2·6	6·7	45
Hull	29·639	58·0	12·0	44·0	43·4	33·2	33·0	10·2	37·7	35·3	·207	2·4	0·3	92	556	57·4	30·9	—	—	—	—	—	3·3	—	49
Stonyhurst	29·675	60·7	12·3	48·4	44·3	34·5	32·8	9·8	38·6	34·6	·200	2·3	0·4	86	548	76·1	29·4	—	6	8	7	9	—	7·6	62
Bradford	29·613	58·0	22·8	35·2	44·8	34·7	27·6	10·1	39·3	35·9	·208	2·5	0·3	88	546	52·7	—	1·1	—	—	—	—	—	5·4	58
Leeds	29·650	62·0	15·0	47·0	44·8	32·6	33·3	12·2	39·0	33·6	·196	2·2	0·5	81	552	52·5	—	1·4	8	7	5	10	—	8·4	51
York	29·602	57·0	10·0	47·0	41·7	32·4	33·2	9·3	37·0	35·5	·209	2·4	0·2	94	555	—	—	—	—	—	—	—	—	—	42
Cockermouth	29·612	66·8	11·5	55·3	45·6	34·2	35·8	11·4	39·5	34·8	·203	2·4	0·5	83	551	64·0	26·5	0·6	5	9	9	7	2·4	5·6	46
Silloth	29·596	68·9	13·4	55·5	46·6	34·2	36·6	12·4	39·5	35·5	·210	2·4	0·4	87	553	69·3	29·7	—	3	12	5	9	7·0	6·8	37
Carlisle	29·614	67·3	10·5	56·8	45·0	32·1	36·4	12·9	38·6	35·1	·206	2·3	0·4	88	552	61·7	27·4	1·5	6	7	9	8	5·9	6·9	36
Bywell	29·599	58·0	19·0	39·0	45·1	35·0	31·0	10·1	39·1	33·4	·192	2·2	0·6	80	549	49·7	28·6	1·2	4	9	6	12	—	6·4	39
North Shields	29·678	54·6	17·7	36·9	42·9	34·6	26·7	8·3	38·6	35·0	·203	2·4	0·4	86	553	—	32·9	1·8	8	6	7	9	—	6·8	61
Miltown (Ireland)	29·589	60·0	13·0	47·0	44·8	34·1	31·7	10·7	39·2	35·7	·210	2·4	0·4	87	549	64·4	29·3	1·8	7	6	11	6	4·3	5·5	60

The highest temperatures of the air were at Weybridge Heath, 70°·8; Silloth, 68°·9; Llandudno, 68°·7; Aldershot Camp, 68°·4; Bo[illegible] 68°·2; and at Streatley Vicarage, 67°·5.

The lowest temperatures of the air were at York, 10°·0; Carlisle, 10°·5; Cockermouth, 11°·5; Hull, 12°·0; Stonyhurst, 12°·3; Mill[illegible] 13°·0; Silloth, 13°·4; Taunton, 14°·2; and at Eccles, 14°·6.

The greatest daily ranges of the temperatures of the air were at Lampeter, 15°·9; Portsmouth, 14°·7; St. John's College, Batter[illegible] 14°·1; Carlisle, 12°·9; Eccles, 12°·3; and at Leeds, 12°·2.

The least daily ranges of the temperatures of the air were at Guernsey, 8°·0; Brighton and Hawarden, 8°·1 respectively; North Sh[illegible] 8°·3; Bournemouth, 8°·7; and at Worthing, 8°·9.

The greatest numbers of rainy days were at Stonyhurst, 69; North Shields, 61; Miltown, 60; Bywell, 59; Helston and Truro, [illegible] respectively; Guernsey, 57; and at Marlborough College, 55.

The least numbers of rainy days were at Carlisle, 36; Silloth, 37; Derby, 39; Royal Observatory, 41; and at Taunton, St. Jo[illegible] College, Battersea, Lampeter, Norwich, Liverpool, and York, 42 respectively.

The heaviest falls of rain were at Helston, 14·45 inches; Truro, 14·40 inches; Guernsey, 13·80 inches; Cockermouth, 12·29 inches; [illegible] Barnstaple, 11·49 inches; Bournemouth, 11·26 inches; and at Wilton House, 10·73 inches.

The least falls of rain were at North Shields, 4·79 inches; Derby, 4·87 inches; Somerleyton Rectory, 5·04 inches; Cardington, [illegible] inches; and at Wisbech, 5·13 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days on which it fell.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°								
Guernsey	29·617	57·0	31·5	25·5	47·2	39·2	21·5	8·0	42·9	40·5	·253	2·9	0·3	91	547	—	—	1·5	7	8	8	7	—	6·2	57
Between the latitudes 50° and 51°	29·663	61·5	26·3	35·2	47·0	37·2	27·0	9·8	41·6	37·7	·228	2·7	0·5	86	551	67·0	33·0	1·4	9	6	7	8	4·0	7·1	51
Between the latitudes 51° and 52°	29·659	66·0	23·0	43·0	46·0	34·5	30·9	11·5	39·9	36·2	·218	2·5	0·4	88	551	64·2	31·2	1·1	7	7	9	7	3·8	7·4	47
Between the latitudes 52° and 53°	29·665	63·7	22·4	41·3	45·6	34·0	31·4	11·6	39·4	35·9	·212	2·5	0·4	87	552	64·4	29·8	0·8	6	7	8	9	4·1	7·7	48
Between the latitudes 53° and 54°	29·639	60·2	17·0	43·2	44·2	34·0	31·0	10·2	38·7	35·1	·203	2·4	0·4	87	551	60·3	28·1	1·3	7	7	8	8	2·9	7·0	50
Between the latitudes 54° and 55°	29·605	65·2	13·6	51·6	45·6	33·9	35·0	11·7	39·2	34·7	·203	2·3	0·5	84	551	61·2	28·1	0·8	4	9	8	9	5·1	6·4	45
North Shields	29·678	54·6	17·7	36·9	42·9	34·6	26·7	8·3	38·6	35·0	·203	2·4	0·4	86	553	—	32·9	1·8	8	6	7	9	—	6·8	61
Miltown, Banbridge (Ireland)	29·589	60·0	13·0	47·0	44·8	34·1	31·7	10·7	39·2	35·7	·210	2·4	0·4	87	549	64·4	29·3	1·8	7	6	11	6	4·3	5·5	60
Mean for the Quarter, 50° to 55° — Year 1870	29·757	57·9	19·3	38·6	44·1	33·7	32·2	10·4	38·5	34·7	·202	2·4	0·4	86	554	63·8	29·1	1·1	8	7	7	8	4·6	6·8	41
Mean for the Quarter, 50° to 55° — " 1871	29·713	67·0	14·1	52·9	46·2	34·6	34·2	11·6	40·1	36·2	·216	2·5	0·4	86	551	66·4	28·1	1·2	5	6	9	10	—	6·6	42
Mean for the Quarter, 50° to 55° — " 1872	29·454	61·2	25·2	36·0	49·3	38·0	28·7	11·3	43·3	39·4	·243	2·8	0·5	87	544	39·6	22·6	1·0	4	5	13	9	4·5	6·3	64
Mean for the Quarter, 50° to 55° — " 1873	29·650	63·3	20·5	42·8	45·7	34·7	31·1	11·0	39·8	35·9	·213	2·5	0·4	86	551	63·4	29·6	1·1	7	7	8	8	4·0	7·0	47

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING JUNE 30, 1873.

Remarks on the Weather during the Quarter ending June 30th, 1873.

By James Glaisher, Esq., F.R.S., *&c.*

The warm weather which set in a week previous to the close of the preceding quarter continued to the 5th day of April, the mean excess of temperatures above their averages being $3\frac{1}{4}°$ daily; from the 6th to the 13th, the weather was very cold, the wind was mostly N.E., and the depression of temperature below the average was $3\frac{1}{2}°$ daily; from the 14th to the 21st, the weather was warm, and particularly so on the 15th, 16th, and 17th days; the direction of the wind was for the most part from the East, and the average excess of mean temperature was 6°·9 daily. From the 22d day of April, a long cold period set in, and the weather continued with but very few trifling exceptions, continually below the seasonable average till the 18th day of June; for this long period of 57 days, the deficiency of mean temperature was on the average $2\frac{3}{4}°$ daily. On the 19th of June a warmer period set in, but not uninterruptedly, for four out of the remaining 12 days were of lower temperature than was due to the season; upon this period of 12 days there was a mean excess of daily temperature of $1\frac{1}{4}°$.

The average duration of the different directions of the wind in days, and the average duration of each direction in each month in the quarter, are as follows:—

Direction.	April. Average.	April. 1873.	April. Departure from Average.	May. Average.	May. 1873.	May. Departure from Average.	June. Average.	June. 1873.	June. Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	$2\frac{1}{4}$	3	+ $\frac{3}{4}$	$1\frac{1}{2}$	4	+ $2\frac{1}{2}$	2	2	0
N.	4	5	+1	$4\frac{1}{2}$	5	+ $\frac{1}{2}$	$3\frac{1}{2}$	3	− $\frac{1}{2}$
N.E.	6	11	+5	7	6	−1	$3\frac{1}{2}$	4	+ $\frac{1}{2}$
E.	$3\frac{1}{2}$	3	− $\frac{1}{2}$	$2\frac{1}{2}$	2	− $\frac{1}{2}$	2	1	−1
S.E.	2	2	0	$1\frac{3}{4}$	1	− $\frac{3}{4}$	$1\frac{3}{4}$	2	+ $\frac{1}{4}$
S.	$2\frac{1}{2}$	0	$-2\frac{1}{2}$	$2\frac{3}{4}$	1	$-1\frac{3}{4}$	2	2	0
S.W.	$6\frac{1}{4}$	3	$-3\frac{1}{4}$	$7\frac{1}{2}$	6	$-1\frac{1}{2}$	10	8	−2
W.	$2\frac{1}{2}$	3	+ $\frac{1}{2}$	2	6	+4	$3\frac{3}{4}$	7	$+3\frac{1}{4}$
Calm, nearly.	1	0	−1	2	0	−2	$1\frac{1}{2}$	1	− $\frac{1}{2}$

In which the numbers of + signs opposite to the compounds of the North winds, in the months of April and May, and the sign of − opposite to the South winds, indicate the preponderance of the former over, and of the deficiency of the latter below, their averages during these months. The departures in the month of June are small, excepting only that of the West wind, which prevailed for $3\frac{1}{4}$ days more than its average duration.

The mean temperature for the month of April at Greenwich was 4°·0 above that in March; that in May was 4°·7 above that in April; and that in June was 8°·3 above that in May. The average increase from March to April was 5°·6; from April to May was 5°·9; and that from May to June was 6°·0.

The average increase from all stations from March to April was 4°·0; from April to May was 4°·1; and from May to June was 7°·5.

1873. Months.	Temperature of Air. Mean.	Air. Diff. from average of 102 years.	Air. Diff. from average of 32 years.	Evaporation. Mean.	Evaporation. Diff. from average of 32 years.	Dew Point. Mean.	Dew Point. Diff. from average of 32 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 32 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 32 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 32 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	grs.
April	45·9	−0·1	−1·2	42·7	−1·4	38·9	−1·8	19·5	+0·9	49·3	0·237	−0·017	2·8	−0·1
May	50·6	−2·0	−2·4	47·3	−1·9	43·7	−1·8	19·8	−0·7	53·3	0·285	−0·018	3·3	−0·1
June	58·9	+0·7	−0·1	55·3	−0·7	52·1	−1·4	19·2	−1·9	60·7	0·389	−0·018	4·3	−0·2
Means	51·8	−0·5	−1·2	48·4	−1·3	44·9	−1·7	19·5	−0·6	54·4	0·304	−0·018	3·5	−0·1

1873. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 32 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 32 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 32 years.	Rain. Amount.	Rain. Diff. from average of 38 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
April	78	− 1	29·822	+0·053	546	+3	0·6	−1·1	291	19	10	1	17·4	43·6
May	78	+ 2	29·795	+0·014	540	−1	1·5	−0·6	270	6	19	6	23·3	48·1
June	78	+ 4	29·794	−0·020	531	−1	2·6	+0·7	251	0	7	23	33·0	56·2
Means	78	+ 2	29·804	+0·016	539	0	Sum 4·7	Sum −1·0	Mean 271	Sum 25	Sum 36	Sum 30	Lowest 17·4	Highest 56·2

Note.—In reading this table it will be borne in mind that the minus sign (−) signifies below the average, and that the plus sign (+) signifies above the average.

The readings of the barometer at 159 feet above sea level varied but very little during April, the mean daily values oscillating above and below the average in periods of three or four days, but in no case was the departure on either side in excess of 0·4 inch. The absolute range in the month was eight tenths of an inch nearly, the mean value for the month being 29·8 in. The range of reading in May was greater than in April, amounting to a little more than one inch, though the mean value was nearly the same. A general tendency to increase was shown as the month advanced, the minimum 29·2 in. occurring on the 5th, and the maximum, 30·2 in. on the 29th. Frequent movements were experienced in June, but only to small amounts. The principal changes were:—A general increase to 30·1 in. on the 7th, a decrease to 29·4 in. on the 12th, an increase to 30·1 in. on the 21st, and a decrease to 29·6 in. on the 30th, but these oscillations were broken by very frequent smaller movements. The mean value for June was 29·8 in., and the range of reading in the month was three quarters of an inch.

The mean temperature of April was 45°·9, being 0°·1 lower than the average of 102 years, and lower than in any year back to 1861, when 44°·3 was recorded, the average values for the intervening years being about 48°.

The mean temperature of May was 50°·6, being 2°·0 lower than the average of 102 years, 0°·3 lower than in 1872, but 0°·1 higher than in 1869.

The mean temperature of June was 58°·9, being 0°·7 higher than the average of 102 years 0°·3 lower than in 1872, but 4°·1 higher than in 1871.

The mean high day temperatures of each of the three months in the quarter were lower than their respective averages.

The mean low night temperatures of the three months were also lower than their respective averages.

Therefore the days and nights throughout the quarter were cold.

The daily ranges of temperature were less than their respective averages in May and June by 0°·7 and 1°·0, but greater in April by 0°·9.

The fall of rain was 1·1 in. and 0·6 in. respectively in defect in April and May, but 0°·7 in. in excess in June.

The mean temperature of the air in the three months ending May, constituting the three spring months, was 46°·1, being 0°·4 lower than the average of the preceding 102 years.

Thunderstorms occurred on the 6th of April at Royston, Halifax, Hull, and Allenheads; on the 15th at Llandudno, Liverpool, and Halifax; on the 16th at Eastbourne, Brighton, Marlborough, Oxford, Gloucester, Cardington, Lampeter, Wisbech, Llandudno, and Liverpool; and on the 17th at Lampeter. On the 3d of May at Royston, Norwich, Halifax, Hull, Stonyhurst, and York; on the 7th at Guernsey; on the 8th at York; on the 9th at Streatley and Oxford; on the 22d at Hull; on the 23d at Somerleyton, Llandudno, and Hull; on the 26th at Oxford; and on the 27th at Brighton, Barnstaple, Royston, Cardington, and Stonyhurst. On the 3d of June at Gloucester, Cardington, Llandudno, Hawarden, Liverpool, Eccles, Halifax, and Stonyhurst; on the 4th at London; on the 5th at Salisbury; on the 11th at Eccles; on the 13th at Salisbury and Marlborough College; on the 14th at Norwich; on the 17th at Guernsey; on the 18th at Eccles; and on the 29th at Oxford, Gloucester, Eccles, and Stonyhurst.

Thunder was heard, but lightning was not seen, on the 1st of April at Allenheads; on the 5th at Bywell; on the 6th at Osborne, Brighton, Weybridge, Streatley, Wisbech, and Cockermouth; on the 15th at Strathfield Turgiss and Royston; on the 16th at Strathfield Turgiss, Weybridge, London, Royston, and Hawarden; on the 17th at Hawarden; and on the 26th at Brighton. On the 2d of May at Bywell; on the 3d at Wisbech, Eccles, and Halifax; on the 6th at Eccles; on the 7th at Helston; on the 8th at Hull, Stonyhurst, Cockermouth, Carlisle, and Bywell; on the 12th at Hull; on the 20th at Bywell; on the 23d at Wisbech; on the 26th at Cardington; on the 27th at Weybridge, Streatley, and London; on the 28th at Stonyhurst; and on the 29th at Bywell. On the 3d of June at Oxford; on the 4th at Brighton, Weybridge, and Carlisle; on the 8th at North Shields; on the 12th at Llandudno, Hawarden, Liverpool, and Bywell; on the 13th at Lymington, Strathfield Turgiss, Weybridge, Streatley, Oxford, Cardington, Somerleyton, Liverpool, and Stonyhurst; on the 14th at Somerleyton and Bywell; on the 15th at Bywell; on the 17th at Stonyhurst; on the 18th at Oxford, Stonyhurst, and Bywell; and on the 29th at Brighton, Weybridge, Streatley, Somerleyton, and Liverpool.

Lightning was seen, but thunder was not heard, on the 15th of April at Brighton, Weybridge, London, Oxford, Royston, Cardington, Llandudno, Halifax, and Stonyhurst; and on the 16th at Guernsey, Osborne, Streatley, London, Royston, Stonyhurst, and Carlisle. On the 2d of June at Truro; on the 3d at Carlisle; and on the 29th at Guernsey.

Solar halos were seen on the 5th of April at Oxford; on the 13th at Halifax; on the 14th at Halifax; on the 15th at Portsmouth and Oxford; on the 17th at Strathfield Turgiss, Oxford, and Halifax; on the 18th at Wisbech; on the 21st at Brighton and Strathfield Turgiss; on the 23d at Oxford; and on the 26th at Liverpool and Halifax. On the 10th of May at North Shields; on the 17th at Brighton; on the 20th at Wisbech; on the 24th at Leeds; and on the 25th at Brighton. On the 14th of June at Strathfield Turgiss; on the 15th at Brighton; and on the 28th at Brighton.

Lunar halos were seen on the 2d of April at Oxford; on the 3d at Wisbech, Eccles, Halifax, Hull, Stonyhurst, and Cockermouth; on the 4th at Sidmouth and Cockermouth; on the 5th at Portsmouth, Brighton, Weybridge, London, Oxford, Wisbech, Halifax, and Stonyhurst; on the 6th at Brighton and Oxford; on the 9th at Eccles; on the 13th at Brighton; and on the 15th at Eccles. On the 4th of May at Stonyhurst. On the 9th of June at Brighton and Weybridge.

Auroræ Boreales were seen on the 1st of April at Portsmouth, Brighton, Oxford, Wisbech, and Stonyhurst; on the 2d at Guernsey and Oxford; on the 18th at Eccles, Halifax, Hull, Stonyhurst, York, Cockermouth, and Silloth; on the 19th at Oxford, Halifax, Hull, and Stonyhurst; on the 20th at Oxford and Stonyhurst; on the 21st at Norwich; on the 24th at Brighton; on the 28th at Brighton; and on the 30th at Guernsey and Brighton. On the 15th of May at Brighton. On the 25th of June at Stonyhurst.

Snow fell, on the 4th of April at Oxford; on the 6th at Weybridge, Streatley, London, Royston, Halifax, Stonyhurst, and Allenheads; on the 7th, 8th, and 9th at Allenheads; on the 22d at Hull and Allenheads; on the 23d at Brighton, Strathfield Turgiss, Weybridge, Marlborough College, Streatley, London, Oxford, Royston, Somerleyton, Norwich, Wisbech, Halifax, Hull, Leeds, York, Allenheads, and Bywell; on the 24th at Eastbourne, Brighton, Lymington, Weybridge, Streatley, Oxford, Royston, Somerleyton, Eccles, Halifax, Stonyhurst, Leeds, York, Cockermouth, and Bywell; on the 25th at Guernsey, Eastbourne, Brighton, Weybridge, Streatley, London, Gloucester, Royston, Somerleyton, Norwich, Llandudno, Hawarden, Eccles, Halifax, Hull, Stonyhurst, Leeds, York, Cockermouth, Allenheads, and Bywell; on the 26th at Eastbourne, Royston, Halifax, and Hull; on the 27th at Weybridge, Somerleyton, and Allenheads; and on the 29th and 30th at Allenheads. On the 3d, 4th, 5th, 6th, 15th, 16th, and 17th of May at Allenheads; on the 18th at Halifax, Stonyhurst, and Allenheads; on the 19th, 20th, and 21st at Allenheads.

Hail fell, on 12 days in April; on 10 days in May; and on 2 days in June.

Fog prevailed, at different places on 27 days during the quarter.

Leaf buds first appeared on, the Horsechestnut on the 1st of April; the Lime and Sycamore on the 9th at Strathfield Turgiss; the Common poplar on the 10th; the Hawthorn on the 12th; the Horsechestnut and Occidental plane on the 16th; the Wych Elm and Sycamore on the 23d; the Field Elm on the 25th; the Walnut on the 10th of May; the Oak on the 17th of May; the Oriental plane on the 20th of May at Hull; the Common poplar and the Beech on the 5th of May; the Walnut on the 10th of May at Carlisle; the Horsechestnut on the 14th of April at Lampeter; the Occidental plane on the 18th of April at Brighton; and on the Walnut on the 10th of April at Weybridge.

In leaf,	Field elm,	the earliest,	April 15, at Oxford;	the latest,	May 24, at Hull.
,,	Wych elm,	,,	April 14, at Oxford;	,,	May 24, at Hull.
,,	Oak,	,,	April 14, at Helston;	,,	June 12, at Hull.
,,	Lime,	,,	April 17, at Oxford;	,,	May 29, at Hull.
,,	Sycamore,	,,	April 13, at Brighton;	,,	May 27, at Hull.
,,	Horsechestnut,	,,	April 6, at Oxford;	,,	May 15, at Brighton.
,,	Common poplar,	,,	April 17, at Oxford;	,,	June 12, at Hull.
,,	Oriental plane,	,,	May 15, at Brighton;	,,	June 18, at Hull.
,,	Hawthorn,	,,	April 10, at Oxford & Miltown;	,,	May 23, at Hull.
,,	Hazel,	,,	April 14, at Oxford;	,,	May 24, at Hull.
,,	Walnut,	,,	April 16, at Oxford;	,,	June 20, at Hull.
In blossom,	Hardy apple,	,,	April 18, at Helston;	,,	May 20, at Miltown.
,,	Hardy pear,	,,	April 8, at Oxford;	,,	May 2, at Stonyhurst.
,,	Cherry,	,,	April 4, at Strathfield Turgiss;	,,	April 30, at Hull.
,,	Peach,	,,	April 10, at Miltown;	,,	May 2, at Carlisle.
,,	Plum,	,,	April 14, at Wisbech;	,,	May 5, at Stonyhurst.
,,	Lilac,	,,	April 22, at Helston;	,,	May 30, at Carlisle.
,,	Laburnum,	,,	April 21, at Helston;	,,	June 5, at Hull.
,,	Yellow broom,	,,	April 14, at Weybridge;	,,	June 4, at Brighton.
,,	White broom,	,,	May 7, at Weybridge;	,,	May 20, at Miltown.
,,	Privet,	,,	June 10, at Strathfield Turgiss;	,,	June 29, at Oxford.
,,	Mountain ash,	,,	May 6, at Strathfield Turgiss;	,,	June 8, at Weybridge.
,,	Syringa,	,,	May 8, at Wisbech;	,,	May 31, at Strathfid. Turgiss.
,,	Honeysuckle,	,,	May 19, at Llandudno;	,,	June 28, at Hull.
,,	Acacia,	,,	June 18, at Weybridge;	,,	June 22, at Oxford.

Wheat in ear, on the 12th of June at Strathfield Turgiss and Cardington; on the 17th at Brighton; on the 21st at Hawarden and Cockermouth; on the 24th at Silloth. *In flower*, on the 20th of June at Weybridge; on the 26th at Oxford and Cardington.

Barley in ear, on the 15th of June at Cardington; on the 26th at Cockermouth. *In flower*, on the 29th of June at Cardington.

Oats in ear, on the 25th of June at Cockermouth.

Flax above ground, on the 8th of May at Miltown, and *in flower*, on the 25th of June.

Cuckoo arrived, on the 10th of April at Silloth; on the 13th at Brighton and Strathfield Turgiss; on the 14th at Eastbourne; on the 15th at Guernsey, Truro, Weybridge, and Royston; on the 16th at Salisbury; on the 17th at Hawarden; on the 20th at Wisbech; on the 26th at Miltown; on the 28th at Cardington; on the 29th at Llandudno; on the 30th at Oxford. On the 1st of May at Lampeter; on the 2d at Hull; on the 3d at Stonyhurst; on the 9th at Carlisle.

Swallow arrived, on the 4th of April at Osborne; on the 5th at Helston; on the 8th at Salisbury; on the 13th at Truro; on the 14th at Strathfield Turgiss; on the 15th at Royston, Cardington, Hawarden, and Miltown; on the 16th at Hull; on the 18th at Weybridge; on the 20th at Wisbech and Silloth; on the 21st at Oxford and Stonyhurst; on the 29th at Brighton. On the 1st of May at Llandudno; on the 3d at Carlisle.

Nightingale arrived, on the 7th of April at Strathfield Turgiss; on the 14th at Eastbourne; on the 15th at Weybridge and Royston; on the 17th at Cardington. *Departed*, on the 10th of June from Weybridge.

It is generally remarked all over the country, in respect to the very small number of insects this season, and J. Jenner Weir, Esq., President of the Blackheath Natural History Society, in a letter, says:—"In accordance with your wish I give a short note on the condition of lepidopterous "life this year. I have been into Southern Kent and Sussex and never before in my experience "found so few day flying lepidoptera.

"The South Downs, which in the month of June generally swarm with blue butterflies of the "genus Lycæna, are this year almost without them, certainly, where hundreds usually occur only "units can be found.

"The day flying moths and Sphingidæ are equally rare.

"Another curious fact is, that all that I found were late in their appearance, by this I mean that "many insects were common as late as the last day in June.

"I consider the wet winter destroyed the ova, pupæ, and larvæ of the different species."

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING JUNE 30TH, 1873.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the fifth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1873. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean of all Highest.	Temperature of Air in Month. Mean of all Lowest.	Temperature of Air in Month. Mean Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S.	204	April	29·806	0·778	62·0	33·5	28·5	52·4	42·4	10·0	46·6	40·6	·253	2·9	0·5	81	545	–	–	1·4	10	7	5	8	–	5·2	11	0·47
		May	29·781	0·927	61·5	42·5	19·0	57·0	47·0	10·0	51·3	45·8	·309	3·5	0·6	82	540	–	–	1·2	9	6	8	8	–	3·9	10	1·65
		June	29·777	0·860	69·0	48·5	20·5	63·0	51·3	11·7	56·2	52·9	·402	4·6	0·7	89	534	–	–	1·2	8	4	7	11	–	5·4	11	1·62
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	April	30·046	0·866	72·0	29·0	43·0	58·5	41·9	16·6	49·1	40·3	·250	3·1	1·3	71	550	83·2	37·6	2·4	13	7	3	7	3·9	4·0	12	0·73
		May	30·016	1·041	76·0	32·0	44·0	63·2	44·9	18·3	52·9	44·3	·292	3·5	1·4	71	535	88·9	41·9	2·4	8	7	4	12	4·0	4·8	10	2·01
		June	29·955	0·895	74·0	42·0	32·0	68·5	51·2	17·3	58·6	50·6	·370	4·2	1·4	75	535	100·1	49·2	2·4	8	3	7	12	3·9	5·5	11	1·83
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	April	30·023	0·853	68·0	27·0	41·0	55·9	41·1	14·8	46·7	40·3	·251	2·9	0·8	80	549	–	–	2·8	14	9	2	5	–	5·8	–	–
		May	29·981	1·005	69·0	32·0	37·0	60·0	46·0	14·0	51·4	43·9	·288	3·2	1·0	76	543	–	–	2·9	12	8	0	11	–	5·4	9	1·49
		June	29·989	0·832	72·0	42·0	30·0	66·2	52·9	13·3	56·8	52·8	·400	4·6	0·8	86	537	–	–	2·4	10	2	6	12	–	6·9	11	1·38
SIDMOUTH (Devon), J. Ingleby Mackenzie, Esq., M.B., F.M.S.	30	Mar.	29·765	1·065	56·6	28·3	28·3	48·6	37·6	11·0	43·1	40·7	·254	2·9	0·3	91	548	–	–	0·8	7	9	9	6	–	3·2	16	3·68
		April	30·006	0·798	61·8	31·0	30·8	53·8	40·4	13·4	46·1	42·9	·279	3·2	0·2	89	549	–	–	1·5	11	10	4	5	–	3·0	8	0·58
		May	29·971	1·066	65·0	35·5	29·5	59·2	45·3	13·9	50·9	48·1	·334	2·7	1·0	78	543	–	–	1·2	9	6	10	6	–	3·3	9	1·25
		June	29·991	0·820	69·0	43·8	25·2	64·8	51·9	12·9	57·0	55·0	·431	4·7	0·4	92	537	–	–	1·0	10	3	8	9	–	3·9	9	0·89
EASTBOURNE (Sussex), Miss W. L. Hall.	12	Feb.	30·048	1·782	49·8	27·0	22·8	41·5	32·2	9·3	36·8	33·3	·191	2·2	0·4	88	561	56·6	26·3	0·4	14	8	2	4	1·0	–	13	2·69
		Mar.	29·803	0·947	64·4	28·2	36·2	51·2	37·5	13·7	43·5	32·5	·184	2·1	1·1	65	549	88·6	29·9	0·5	3	12	11	5	3·2	–	19	2·83
		April	29·990	0·784	66·8	28·2	38·6	57·1	39·4	17·7	47·2	39·5	·243	2·8	0·9	75	548	102·3	31·9	0·5	10	10	3	7	3·5	–	12	0·73
		May	29·980	0·922	70·2	34·4	35·8	62·1	44·4	17·7	51·5	43·9	·287	3·2	1·1	76	533	109·2	37·6	0·6	7	7	7	10	5·3	–	13	1·62
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	April	29·830	0·890	66·1	33·1	33·0	56·3	40·7	15·6	47·0	40·8	·255	3·0	0·8	80	546	95·3	34·6	–	12	7	3	8	–	6·0	9	1·25
		May	29·809	0·984	72·2	34·8	37·4	62·5	44·9	17·6	51·8	46·2	·314	3·5	0·8	81	539	101·3	36·7	–	7	5	9	10	–	5·7	13	1·00
		June	29·802	0·762	75·7	44·8	30·9	68·4	51·9	16·5	57·7	54·2	·421	4·4	0·6	88	532	103·2	43·4	–	8	3	7	12	–	7·1	12	1·54
PORTSMOUTH, William O. Ellis, Esq., F.M.S.	16	April	30·005	0·783	67·4	26·2	41·2	57·0	35·1	21·9	45·0	36·0	·211	2·5	0·9	71	551	100·2	30·2	1·5	12	11	3	4	2·6	6·7	9	0·73
		May	29·972	1·001	71·2	32·0	39·2	62·1	39·9	22·2	50·0	41·8	·265	3·0	1·1	74	545	112·6	32·6	1·5	3	5	10	13	3·3	5·2	13	0·97
		June	29·958	0·777	78·0	40·4	37·6	70·9	47·5	23·4	57·0	52·4	·397	4·4	0·8	85	536	–	–	1·5	4	6	7	11	2·3	6·2	–	–
BRIGHTON (Sussex), Frederick E. Sawyer, Esq., F.M.S.	200	April	29·774	0·797	68·9	28·0	40·9	53·6	39·9	13·7	45·8	38·0	·223	2·7	0·8	75	546	104·1	35·8	1·1	12	8	3	7	–	7·1	14	0·73
		May	29·769	1·036	66·5	35·4	31·1	59·2	44·4	14·8	50·6	43·4	·282	3·3	0·9	77	540	110·8	39·8	0·8	6	5	7	13	–	6·5	14	0·87
		June	29·766	0·797	77·2	43·0	34·2	67·5	52·1	15·4	59·0	54·2	·421	4·8	0·8	85	531	112·6	48·7	0·7	3	3	12	12	–	8·1	12	1·99
LYMINGTON (Hants), George J. Jones, Esq.	77	April	29·930	0·750	72·0	25·8	46·2	56·6	39·0	17·6	47·5	38·6	·234	2·7	1·0	72	547	–	35·3	1·7	11	9	3	7	–	5·8	7	0·85
		May	29·912	0·889	70·0	32·4	37·6	60·8	43·1	17·7	50·8	42·2	·270	3·1	1·1	74	543	–	38·9	1·6	7	6	8	10	–	5·7	11	1·14
		June	29·894	0·755	73·0	41·8	31·2	66·0	50·1	15·9	57·0	52·6	·397	4·3	0·8	85	535	–	44·9	1·6	8	5	8	9	–	6·5	11	1·78
TAUNTON (Somerset), Rev. W. Tuckwell, F.M.S.	80	June	29·888	0·747	79·1	41·0	38·1	69·2	50·4	18·8	57·7	51·6	·383	4·3	0·9	80	534	82·9	49·4	0·2	9	6	5	10	4·7	7·9	12	1·49
WILTON HOUSE (near Salisbury), T. Challis, Esq.	186	April	29·803	0·797	74·5	26·0	48·5	58·4	35·5	22·9	45·9	37·9	·228	2·8	0·6	74	546	101·4	32·6	1·2	12	11	4	3	4·5	6·4	6	1·01
		May	29·763	1·024	73·5	27·5	46·0	65·3	40·0	25·3	51·2	44·3	·292	3·3	0·8	78	539	110·1	36·7	1·2	11	6	4	10	4·8	6·0	11	1·35
		June	29·748	0·737	81·0	39·0	42·0	71·5	47·2	24·3	57·8	53·8	·410	4·6	0·6	86	531	111·4	45·4	1·3	9	4	6	11	4·5	7·4	10	2·45
BARNSTAPLE (Devon), T. Mackrell, Esq.	43	April	29·998	0·829	66·0	31·5	34·5	57·0	41·9	15·1	48·2	41·7	·262	3·0	0·8	79	547	–	–	1·2	10	8	5	7	–	3·7	10	1·11
		May	29·978	1·063	72·0	37·5	34·5	61·9	46·1	15·8	52·9	47·0	·327	3·6	0·9	81	541	–	–	1·3	4	4	11	12	–	3·5	11	2·30
		June	29·941	0·801	73·0	44·0	29·0	68·1	52·9	15·2	58·7	52·4	·395	4·4	1·0	80	534	–	–	1·3	3	3	11	13	–	5·3	11	1·50
ALDERSHOT CAMP (Hants), John Arnold, Esq., M.S.C., F.M.S.	325	April	29·634	0·681	77·4	25·6	51·8	57·0	37·1	19·9	45·3	38·2	·231	2·7	0·8	76	544	98·8	33·4	1·8	12	6	4	8	2·8	6·6	10	0·55
		May	29·693	0·955	75·0	32·0	43·0	64·3	40·8	23·5	49·6	40·5	·253	2·7	1·2	75	538	115·2	37·2	1·6	9	6	5	11	2·3	6·3	12	1·24
		June	29·598	0·744	79·5	42·0	37·6	70·5	50·2	20·1	57·6	50·8	·371	4·1	1·1	78	529	119·1	46·2	1·5	6	3	9	12	2·5	7·7	10	1·61

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1873. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean of all Highest.	Temperature of Air in Month. Mean of all Lowest.	Temperature of Air in Month. Mean Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	April	29·798	0·780	74·3	27·9	46·4	56·5	37·9	18·6	46·1	37·5	·225	2·6	1·0	73	546	103·9	30·9	0·7	12	9	3	6	3·7	6·0	7	0·39
		May	29·769	1·010	69·9	29·0	40·9	60·8	41·6	19·2	50·3	41·5	·262	3·0	1·1	73	544	119·3	34·6	0·7	11	5	5	10	4·5	4·9	16	1·80
		June	29·771	0·757	77·4	40·8	36·6	68·4	49·5	18·9	57·3	50·6	·369	4·1	1·1	78	533	123·8	44·2	0·6	5	7	5	13	5·5	6·7	11	1·89
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	April	29·873	0·764	79·5	25·0	54·5	57·1	36·9	20·2	45·9	38·3	·233	2·7	0·4	75	547	94·4	34·5	1·6	15	8	3	4	1·6	6·0	12	0·66
		May	29·843	1·034	76·0	30·5	45·5	62·6	40·4	22·2	50·2	43·8	·286	3·3	0·8	82	542	104·5	37·2	0·8	10	6	7	8	1·5	5·5	15	1·58
		June	29·840	0·744	83·0	40·0	43·0	71·1	49·4	21·7	58·6	51·9	·357	4·3	1·2	79	532	111·0	45·8	0·8	7	8	8	7	0·7	6·0	13	1·54
MARLBOROUGH COLLEGE (Wilts), Rev. Thomas A. Preston, M.A.	456	April	29·541	0·766	73·3	28·7	44·6	54·0	36·8	17·2	44·0	37·1	·221	2·6	0·7	76	543	109·5	31·7	–	13	8	4	5	6·0	7·1	13	1·25
		May	29·503	1·029	67·0	26·7	40·3	58·8	40·1	18·7	48·1	41·6	·262	3·0	0·8	78	538	123·7	36·4	–	8	8	4	11	5·5	6·5	14	1·89
		June	29·504	0·763	75·0	39·4	35·6	64·9	49·2	15·7	55·2	49·5	·352	4·0	0·9	82	530	133·0	44·0	–	8	5	7	10	5·5	8·9	11	1·63
ROYAL OBSERVATORY (Kent), The Astronomer Royal.	159	April	29·822	0·798	76·8	28·7	48·1	57·4	37·9	19·5	45·9	38·9	·237	2·8	0·8	78	546	104·4	30·2	0·3	12	9	3	6	–	6·5	12	0·61
		May	29·795	1·027	70·9	34·0	36·9	63·3	42·5	19·8	50·6	43·7	·285	3·3	0·9	78	540	115·9	34·4	0·3	10	5	5	11	–	7·0	12	1·49
		June	29·724	0·745	81·2	42·0	39·2	70·2	51·0	19·2	58·9	52·1	·389	4·3	1·3	78	531	125·0	44·4	0·2	6	5	7	12	–	7·2	11	2·56
THE GUILDHALL (London), William Haywood, Esq.		Mar.	–	–	60·0	33·4	26·6	49·4	38·9	10·5	43·2	38·4	·232	2·7	0·5	83	–	–	–	–	–	–	–	–	–	–	–	1·45
		April	–	–	68·0	34·0	34·0	55·5	42·0	13·5	47·6	38·3	·236	2·7	1·0	72	–	–	–	–	–	–	–	–	–	–	–	0·75
		May	–	–	67·0	40·8	26·2	59·9	46·8	13·1	52·2	42·3	·270	3·1	1·4	70	–	–	–	–	–	–	–	–	–	–	–	1·56
		June	–	–	75·6	46·5	29·1	67·6	55·2	12·4	58·0	49·1	·349	3·9	1·4	73	–	–	–	–	–	–	–	–	–	–	–	2·54
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.A.S.	150	April	29·894	0·782	75·5	26·8	48·7	57·2	38·3	18·9	46·9	38·0	·230	2·7	1·0	72	547	68·1	–	1·5	13	9	2	6	–	6·4	13	0·44
		May	29·875	0·813	71·8	29·0	42·8	64·6	40·5	24·1	51·8	45·2	·302	3·4	0·9	78	541	75·2	–	1·9	14	4	2	11	–	5·5	10	1·75
		June	29·853	0·687	83·2	39·6	43·6	69·7	48·0	21·7	58·9	51·7	·385	4·5	1·0	77	532	86·5	–	1·7	9	5	6	10	–	6·5	13	2·19
ST. JOHN'S COLLEGE, BATTERSEA, Rev. J. P. Faunthorpe, M.A., F.R.G.S.	13	April	29·950	0·823	76·0	26·0	50·0	57·2	36·7	20·5	45·6	40·8	·257	2·9	0·6	84	549	75·5	30·1	1·9	5	9	9	7	–	6·3	12	0·59
		May	29·932	0·993	68·0	31·0	37·0	60·5	40·4	20·1	49·4	43·6	·285	3·2	0·8	81	544	84·4	33·2	1·6	3	4	14	10	–	6·2	11	1·44
		June	29·929	0·680	79·0	43·0	36·0	69·0	48·7	20·3	–	–	–	–	–	–	–	95·3	43·0	1·5	3	3	13	11	–	7·6	10	2·28
CAMDEN TOWN (London), G. J. Symons, Esq., F.M.S.	123	April	29·867	0·813	75·5	29·9	45·6	57·7	38·8	18·9	46·8	38·5	·233	2·8	0·9	75	546	96·6	34·6	–	16	5	2	7	–	5·7	11	0·55
		May	29·839	1·071	72·9	32·9	40·0	63·1	43·2	19·9	52·5	43·0	·278	3·2	1·3	71	559	105·7	39·9	–	14	3	5	9	–	6·4	14	1·56
		June	29·842	0·713	79·2	42·3	36·9	70·7	51·1	19·6	59·2	51·2	·378	4·5	1·4	75	532	111·1	48·7	–	11	5	4	10	–	6·5	11	2·24
CHISWICK (London), Thiselton Dyer, Esq.	25	April	29·972	0·798	76·5	27·5	49·0	57·0	37·8	19·2	45·8	39·1	·241	2·8	0·8	78	549	101·0	33·6	–	14	7	3	6	–	–	10	0·70
		May	29·946	0·990	75·0	28·0	47·0	62·4	41·4	21·0	50·3	48·1	·337	3·8	0·3	92	543	122·1	37·4	–	8	6	6	11	–	–	11	1·33
		June	29·932	0·756	81·0	37·5	43·5	69·6	49·1	20·5	57·4	51·5	·381	4·3	0·8	81	535	131·0	45·3	–	7	4	8	11	–	–	11	2·26
OXFORD (Oxfordshire), Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	April	29·798	0·792	70·7	30·1	40·6	55·0	39·2	15·8	46·6	38·3	·232	2·7	1·0	74	545	104·3	35·2	1·2	13	6	3	8	3·7	7·5	13	0·48
		May	29·746	1·051	67·5	30·4	37·1	60·9	41·8	19·1	51·1	42·5	·273	3·1	1·1	73	539	114·6	34·4	1·0	8	5	6	12	3·8	7·0	15	2·31
		June	29·745	0·726	79·6	41·0	38·6	68·0	49·3	18·7	58·5	51·5	·381	4·2	1·3	77	531	113·8	–	1·0	6	5	10	9	3·4	8·1	15	2·90
GLOUCESTER (Gloucester), E. Toller, Esq., M.D.	100	April	29·969	0·948	72·6	30·9	41·7	58·3	39·2	19·1	47·2	37·6	·226	2·6	1·1	70	547	92·7	37·7	0·8	11	10	3	6	1·1	6·0	8	0·86
		May	29·912	1·134	73·1	32·2	40·9	64·4	44·2	20·2	52·5	41·5	·261	2·9	1·5	67	541	105·8	41·0	0·6	9	5	5	12	1·0	5·3	13	2·55
		June	29·925	0·713	76·1	38·6	37·5	70·4	51·1	19·3	58·5	51·5	·382	4·3	1·2	78	534	105·7	49·1	0·6	7	6	1	16	2·1	6·7	11	2·20
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	April	29·734	0·774	76·0	27·1	48·9	58·4	36·2	22·2	45·2	39·2	·239	2·8	0·7	80	546	–	–	–	16	4	4	6	–	6·2	10	0·74
		May	29·689	1·039	70·6	31·5	39·1	62·2	40·3	21·9	49·3	43·3	·282	3·2	0·8	80	540	–	–	–	13	3	5	10	–	6·2	15	1·70
		June	29·706	0·701	85·0	39·8	45·2	72·5	48·5	24·0	58·1	52·4	·395	4·4	1·0	81	531	–	–	–	6	4	8	12	–	7·0	9	1·10
CARDINGTON (near Bedford), Mr. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	100	April	29·916	0·803	74·4	28·0	46·4	56·4	37·7	18·7	45·6	40·2	·250	2·9	0·7	82	549	86·0	30·8	0·9	14	8	3	5	–	5·8	9	1·20
		May	29·861	0·988	69·6	29·0	40·0	61·7	41·0	20·7	50·2	45·5	·305	3·5	0·7	84	542	98·0	34·3	0·7	9	5	2	15	–	5·1	14	2·00
		June	29·860	0·831	82·0	41·0	41·0	70·4	49·9	20·5	59·6	53·9	·417	4·7	1·1	83	532	106·2	43·4	0·7	6	6	6	12	–	6·6	10	2·35
ST. DAVID'S COLLEGE, LAMPETER (Cardiganshire), Prof. A. W. Scott.	420	April	29·614	0·813	72·6	23·0	–	57·9	35·4	22·5	45·8	39·6	·241	2·8	0·8	79	543	103·6	–	–	12	8	3	7	–	–	9	1·01
		May	29·547	1·067	75·0	28·0	47·0	62·4	39·1	23·3	50·6	44·0	·290	3·4	0·7	78	536	107·3	–	–	9	1	8	8	–	–	12	2·20
		June	29·520	0·800	78·0	36·5	41·5	68·4	51·8	16·6	58·2	52·1	·390	4·4	1·1	80	527	121·1	–	–	–	–	–	–	–	–	8	0·63
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	50	April	29·920	0·861	64·0	29·2	34·8	53·5	37·6	15·9	44·0	40·9	·257	2·9	0·4	89	550	–	28·3	1·1	12	10	3	5	7·1	5·1	15	0·90
		May	29·896	0·888	69·0	33·9	35·1	52·9	41·2	11·7	47·6	43·2	·280	3·3	0·6	86	546	–	32·2	1·1	10	7	5	9	7·7	6·4	12	1·77
		June	29·898	0·725	78·8	42·1	36·7	68·3	50·3	18·0	57·9	54·7	·427	4·7	0·7	89	534	–	41·2	1·0	5	7	10	8	6·7	5·0	8	1·00
NORWICH (Norfolk), C. M. Gibson, Esq., F.M.S.	41	April	29·940	0·846	63·5	28·0	35·5	52·1	36·8	15·3	43·5	39·4	·241	2·8	0·5	85	551	–	–	–	13	6	3	8	–	–	14	1·00
		May	29·895	0·978	67·0	35·0	32·0	57·5	41·0	16·5	48·0	44·2	·290	3·3	0·5	87	545	–	–	–	10	5	5	11	–	–	13	1·30
		June	29·900	0·685	78·5	42·0	36·5	68·6	50·0	18·6	57·9	52·6	·397	4·4	0·9	81	534	–	–	–	4	7	8	11	–	–	8	1·91

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1873. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Lowest.	Range.	Mean Of all Highest.	Mean Of all Lowest.	Mean Daily Range.	Mean Temperature. Air.	Dew Point.	Vapour. Elastic Force.	In a cubic foot of Air. Mean.	In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Minimum on Grass.	Wind. Estimated Strength.	Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
WISBECH (Cambridgeshire), S. H. Miller, Esq., F.R.A.S., F.M.S.	14	April	29·971	0·816	74·4	31·0	43·4	55·5	33·5	17·0	45·7	40·0	·247	2·8	0·7	81	549	162·4	34·3	0·7	17	4	3	6	3·3	6·5	13	1·07
		May	29·933	0·987	68·0	33·0	35·0	60·5	42·0	18·5	50·4	44·7	·296	3·4	0·7	82	543	111·7	37·9	0·8	11	4	4	12	5·9	6·8	16	2·84
		June	29·927	0·719	85·0	41·6	43·4	71·4	50·3	21·1	58·6	53·9	·416	4·4	1·0	84	534	118·4	46·7	0·8	6	5	9	10	3·3	7·5	10	1·60
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	100	April	29·954	0·821	67·0	33·4	33·6	55·5	41·0	14·5	48·0	40·2	·249	2·9	0·9	75	547	—	—	0·7	-	-	-	-	—	6·4	7	1·04
		May	29·844	1·070	67·7	35·5	32·2	60·6	43·8	16·8	50·9	42·9	·277	3·2	1·0	75	541	—	—	0·5	8	7	3	13	—	5·1	11	1·19
		June	29·848	0·770	74·6	46·0	28·6	67·9	51·4	16·5	57·9	50·1	·363	4·0	1·2	75	534	—	—	0·6	8	5	2	15	—	6·9	9	0·66
DERBY (Derbyshire), John Davis, Esq.	174	April	29·820	0·838	71·0	29·0	42·0	54·9	39·1	15·8	45·5	37·9	·229	2·7	0·6	75	547	—	—	—	11	8	4	7	—	—	9	0·46
		May	29·747	1·057	68·0	35·0	33·0	60·5	42·1	18·4	49·8	41·8	·266	3·0	1·1	74	541	—	—	—	5	8	5	13	—	—	18	2·31
		June	29·773	0·705	78·0	43·0	35·0	67·1	51·6	15·5	57·8	51·4	·380	4·3	1·1	79	532	112·8	—	—	4	5	8	13	—	—	9	2·21
NOTTINGHAM (Notts), M. O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	241	April	29·746	0·793	73·5	28·8	44·7	56·8	37·4	19·4	45·8	37·4	·225	2·6	0·8	73	545	100·5	28·4	0·8	15	6	1	8	2·1	5·5	13	0·69
		May	29·678	0·983	70·5	31·9	38·6	61·9	40·7	21·2	49·8	41·1	·259	3·0	1·1	72	539	114·7	32·3	0·8	7	6	6	12	2·4	5·9	17	2·51
		June	29·677	0·682	82·7	41·0	41·7	70·4	50·3	20·1	58·3	50·5	·369	4·1	1·3	76	530	124·1	42·3	0·6	7	3	7	13	2·7	7·6	12	1·26
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	39	Mar.	29·766	1·108	59·8	23·5	36·3	46·2	31·6	14·6	39·0	35·5	·208	2·4	0·4	88	553	80·5	27·0	1·3	10	11	8	2	—	6·7	12	1·71
		April	29·956	0·848	69·0	29·5	39·5	51·6	36·8	14·8	43·6	38·8	·236	2·7	0·5	83	551	95·2	31·5	1·3	20	4	2	4	—	6·4	13	1·05
		May	29·915	0·970	65·2	33·5	31·7	56·4	41·7	14·7	47·3	42·5	·272	3·2	0·6	87	547	125·4	37·2	1·2	15	4	6	6	—	6·7	12	2·10
		June	29·898	0·672	77·0	43·2	33·8	65·2	49·7	15·5	56·3	50·1	·363	4·2	0·8	79	536	130·7	44·8	1·1	12	5	7	6	—	7·7	8	1·15
HAWARDEN (Flint), T. Moffat, Esq., M.D., F.R.A.S.	270	April	29·756	0·826	67·0	34·0	33·0	51·6	40·6	11·0	46·2	33·8	·194	2·3	1·3	62	545	102·7	21·0	2·2	12	5	5	8	2·4	5·2	16	0·92
		May	29·658	1·093	65·0	37·5	27·5	57·2	45·2	12·0	50·0	43·0	·278	3·2	0·8	78	539	121·2	27·3	2·3	12	4	6	8	1·7	5·1	16	1·90
		June	29·659	0·703	75·0	45·0	30·0	65·8	54·3	11·5	58·4	51·9	·387	4·3	1·2	79	529	128·8	37·1	2·2	9	2	8	11	0·8	7·2	15	1·21
LIVERPOOL OBSERVATORY, John Hartnup, Esq., F.R.A.S.	197	April	29·856	0·822	70·2	33·5	36·7	54·3	40·2	14·1	46·0	38·3	·233	2·7	0·9	75	547	—	—	1·3	9	7	4	10	—	5·3	8	0·41
		May	29·770	1·075	64·9	36·7	28·2	58·2	43·4	14·8	49·9	42·1	·268	3·0	1·0	74	541	—	—	1·2	6	5	4	16	—	5·0	15	1·14
		June	29·771	0·721	78·1	43·4	34·7	66·9	52·1	14·8	57·5	50·4	·361	4·0	1·2	77	533	—	—	1·2	5	5	4	16	—	6·9	15	1·58
ECCLES (near Manchester), T. Mackereth, Esq., F.R.A.S., F.M.S.	145	April	29·883	0·810	73·8	27·0	46·8	56·0	37·2	18·8	45·8	37·4	·224	2·6	1·0	73	548	68·0	29·7	0·4	12	9	3	6	2·9	5·3	16	0·70
		May	29·797	1·086	71·5	32·1	39·4	59·4	40·5	18·9	48·9	41·0	·257	2·9	1·0	74	544	73·5	33·4	0·2	7	6	5	13	2·2	5·9	19	2·05
		June	29·799	0·720	76·8	40·3	36·5	67·3	49·4	17·9	57·2	49·5	·355	3·9	1·3	75	533	83·0	42·3	0·3	5	2	8	15	2·4	6·2	17	2·93
MOOR SIDE OBSERVATORY, HALIFAX (Yorkshire), Louis J. Crossley, Esq., F.M.S.	429	April	29·497	0·821	67·6	26·0	41·6	53·6	35·2	18·4	43·0	36·8	·219	2·5	0·7	79	544	82·8	31·0	—	8	14	1	7	6·0	6·8	12	0·35
		May	29·447	1·062	62·6	31·3	31·3	56·9	39·0	17·9	46·8	41·1	·258	2·9	0·9	84	539	88·4	35·4	—	8	8	4	11	5·0	7·3	16	1·89
BERMERSIDE OBSERVATORY, (Halifax), Edward Crossley, Esq., F.R.A.S.	520	April	29·490	0·858	67·8	28·0	39·8	52·9	36·8	16·1	43·5	36·6	·217	2·5	0·7	77	543	91·1	33·1	0·5	11	11	1	7	—	6·3	6	0·35
		May	29·360	1·145	66·0	30·0	36·0	56·7	39·6	17·1	46·7	40·1	·249	2·9	0·8	79	537	94·2	36·2	0·6	6	7	6	12	—	7·1	15	2·04
		June	29·376	0·703	77·9	41·0	36·9	66·6	47·5	19·1	54·7	49·4	·352	4·0	0·8	82	528	109·1	44·5	0·6	6	4	7	13	—	7·7	13	1·88
THE PARK, HULL (Yorkshire), Mr. E. Peak.	12	April	30·006	0·864	61·0	30·0	31·0	52·3	36·7	15·6	43·4	38·0	·236	2·6	0·6	81	552	79·3	34·0	—	-	-	-	-	4·8	—	14	0·87
		May	29·917	0·997	68·0	28·0	40·0	57·6	40·0	17·6	47·9	42·6	·273	3·1	0·7	83	546	86·0	37·9	—	-	-	-	-	5·3	—	15	2·35
		June	29·931	0·723	77·0	40·0	37·0	67·0	48·8	18·2	57·4	48·2	·339	3·8	1·5	71	536	95·3	46·8	—	-	-	-	-	5·5	—	14	1·81
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.A.S., F.M.S.	363	April	29·653	0·799	68·5	27·9	40·6	54·7	39·1	15·6	45·3	38·0	·228	2·6	0·8	76	544	111·8	31·1	—	10	9	2	9	—	6·2	15	0·82
		May	29·556	1·084	69·2	32·4	36·8	58·2	41·3	16·9	47·8	42·7	·275	3·1	0·7	84	539	117·3	33·8	—	4	6	3	18	—	7·0	21	2·85
		June	29·563	0·706	73·4	41·2	32·2	65·5	50·1	15·4	55·7	53·3	·410	4·6	0·5	93	530	120·5	43·5	—	4	4	4	18	—	7·9	21	4·01
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	366	April	29·614	0·825	66·8	32·6	34·2	54·5	39·6	14·9	45·5	36·8	·219	2·5	0·9	72	543	82·5	—	—	-	-	-	-	—	4·2	6	0·24
		May	29·498	1·086	66·2	36·0	30·2	58·6	43·4	15·2	50·0	39·7	·245	2·8	1·3	68	536	81·1	—	—	-	-	-	-	—	4·6	12	1·69
		June	29·488	0·701	76·0	43·6	32·4	67·8	51·8	16·0	57·6	49·8	·359	4·0	1·3	75	527	87·7	—	—	-	-	-	-	—	5·9	11	1·20
LEEDS PHILOSOPHICAL HALL (Yorkshire), Louis C. Miall, Esq.	137	April	29·878	0·872	73·0	30·0	43·0	56·5	37·9	18·6	45·8	41·1	·259	2·9	0·7	84	547	—	—	1·4	14	8	3	5	—	6·6	12	0·49
		May	29·791	1·090	70·0	33·0	37·0	61·0	43·0	18·0	50·5	42·7	·275	3·2	1·0	76	541	—	—	1·3	9	8	3	11	—	7·0	13	2·19
		June	29·790	0·734	80·0	43·0	37·0	69·9	50·7	19·2	58·4	50·0	·362	4·1	1·4	74	532	—	—	1·3	11	4	4	11	—	7·9	18	1·13
YORK (Yorkshire), J. F. Fryer, Esq.	50	April	29·948	0·898	63·5	30·0	33·5	52·3	37·9	14·4	44·3	37·8	·227	2·7	0·6	77	551	—	—	—	9	12	6	3	—	6·6	13	0·70
		May	29·811	1·064	63·0	33·0	30·0	54·8	41·7	13·1	47·8	41·5	·262	3·1	0·7	80	544	—	—	—	5	9	12	5	—	6·8	15	2·13
		June	29·816	0·707	71·0	40·0	31·0	64·5	52·0	12·5	57·0	53·2	·405	4·5	0·7	87	534	—	—	—	-	-	-	-	—	—	15	1·18
COCKERMOUTH (Cumberland), [illegible]	[illegible]	April	29·879	0·826	69·4	26·8	42·8	56·8	37·8	18·8	45·8	38·5	·235	2·8	0·8	75	548	92·6	28·9	0·5	8	13	2	7	2·5	4·8	7	0·46
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1873. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Lowest.	Range.	Mean Of all Highest.	Mean Of all Lowest.	Mean Daily Range.	Mean Temperature. Air.	Dew Point.	Vapour. Elastic Force.	In a cubic foot of Air. Mean.	In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Minimum on Grass.	Wind. Estimated Strength.	Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
ALLENHEADS (Northumberland), Mr. S. Stobbs, Assistant to W. B. Beaumont, Esq., M.P.	1360	April	28·540	0·763	59·2	27·5	31·7	49·6	34·0	15·6	40·5	34·8	·202	2·3	0·6	80	529	99·0	31·2	1·3	—	—	—	—	—	5·2	16	1·26
		May	28·413	0·995	63·5	29·0	34·5	53·9	36·7	17·2	42·8	38·8	·236	2·7	0·5	86	524	109·7	34·3	1·3	—	—	—	—	—	5·0	18	2·64
		June	28·427	0·716	71·5	41·5	30·0	64·4	46·9	17·5	53·1	45·9	·309	3·5	1·0	76	513	118·5	43·8	2·6	—	—	—	—	—	5·3	15	1·89
SILLOTH RECTORY (Cumberland), Rev. Francis Redford, M.A., F.R.A.S., F.M.S.	28	April	30·006	0·911	70·9	30·0	40·9	57·7	37·8	19·9	46·3	39·3	·241	2·8	0·8	77	549	88·7	32·1	1·2	6	13	5	6	5·8	5·7	3	0·16
		May	29·887	1·090	72·2	30·8	41·4	60·9	40·6	20·3	49·3	43·5	·283	3·3	1·0	86	544	93·3	35·7	0·8	4	10	8	9	6·5	6·4	12	1·74
		June	29·884	0·815	77·7	35·8	41·9	69·6	48·9	20·7	57·1	51·1	·376	4·2	1·0	81	535	105·2	44·3	1·1	2	8	5	15	5·4	6·8	9	1·93
CARLISLE (Cumberland), J. Cartmell, Esq., F.M.S.	114	April	29·918	0·863	66·9	23·1	43·8	55·0	36·6	18·4	44·8	37·9	·228	2·7	0·7	76	550	86·5	31·1	2·1	11	7	3	9	5·0	6·4	7	0·40
		May	29·789	1·180	69·0	28·5	40·5	58·0	38·8	19·2	47·6	39·0	·238	2·7	0·8	73	544	91·0	33·8	2·0	6	4	5	16	6·3	6·5	15	1·96
		June	29·798	0·779	72·8	36·6	36·2	67·9	47·6	20·3	56·3	51·0	·377	4·2	1·0	83	534	103·2	42·7	2·3	3	4	7	16	5·4	6·6	13	1·61
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	April	29·941	0·804	58·0	31·0	27·0	53·1	39·0	14·1	44·2	37·3	·224	2·6	0·6	76	551	66·4	33·1	1·2	—	—	—	—	—	5·3	18	1·01
		May	29·792	0·769	68·0	34·0	34·0	57·2	43·1	14·1	48·6	41·1	·258	3·0	0·9	75	543	73·2	37·1	1·1	8	9	4	10	—	5·8	19	2·86
		June	29·775	0·800	77·0	45·0	32·0	67·4	53·4	14·0	58·2	49·1	·350	3·9	1·4	72	532	91·0	47·4	1·3	5	7	4	14	—	4·5	15	1·62
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	April	29·963	0·884	57·4	29·6	27·8	49·2	37·7	11·5	42·0	37·3	·223	2·5	0·6	84	554	—	36·2	2·0	13	10	3	4	—	6·7	18	1·06
		May	29·835	1·059	61·7	32·7	29·0	52·9	41·1	11·8	45·6	39·3	·242	2·8	0·6	79	547	—	40·2	1·7	9	8	5	9	—	5·7	22	3·04
		June	29·820	0·779	71·8	43·2	28·6	62·4	50·0	12·4	54·8	48·4	·362	4·2	0·8	81	536	—	48·7	1·9	8	7	4	11	—	7·2	15	1·43
MILTOWN (Banbridge, Ireland), John Smyth, Esq., jun., M.A., M.I.C.E.I.	200	April	29·845	0·832	65·0	27·0	38·0	53·9	39·8	14·1	46·2	38·6	·237	2·7	0·9	76	547	96·4	34·1	2·2	14	6	3	7	—	4·9	11	0·46
		May	29·707	1·029	67·0	30·0	37·0	57·6	41·5	16·1	48·7	40·7	·253	2·9	1·0	74	541	104·4	36·3	2·0	8	5	11	7	—	4·7	18	1·94
		June	29·695	0·846	73·0	39·0	34·0	65·5	49·5	16·0	56·2	48·0	·337	3·8	1·3	74	533	112·6	45·3	2·1	6	5	11	8	—	5·8	14	1·48

Note.—*The Barometer Reading*, Barnstaple, April 9th, 3h. p.m., 29·36 in., has been altered to 30·36 in.
" Hull, May 22d, 5h. p.m., 29·000 in., " 30·000 in.
" Sidmouth, June 6th, 9h. a.m., 30·778 in., " 30·278 in.
" " " 30th, 3h. p.m., 30·964 in., " 29·964 in.

Eastbourne.—The height of the guage on Beachy Head has been altered this quarter from 610 feet to 515 feet according to barometrical measurements by Miss W. L. Hall. The position of the gauge has not been altered, so that in all previous observations the latter height must be substituted for the former.

Lampeter.—There is some doubt as to the accuracy of the minimum temperature values for the last few days of April, the observer believing that the index of the thermometer had been slightly displaced by the wind.

Nottingham.—On June 19th the barometer was moved to a position 58½ feet lower than before. To the mean of the readings taken from June 19th to June 30th a correction of 0·063 in. has been applied additively to reduce them to those which would have been given had the instrument not been moved, or to an elevation above the sea of 241·3 feet.

Second Rain-gauges are placed—

			April.	May.	June.	Total during the Quarter.
At Eastbourne, at the height of	160 feet	*above the sea*, the amount collected was	0·77 inches.	1·24 inches.	— inches.	— inches.
" Beachy Head, "	515 feet	" "	0·90 "	1·44 "	— "	— "
" " "	495 feet	" "	0·68 "	1·52 "	— "	— "
" Portsmouth, "	20 feet	*above the ground* "	0·69 "	— "	— "	— "
" Strathfield Turgiss, "	38 feet	" "	0·26 "	1·24 "	1·38 "	2·88 "
" Eccles, Manchester, "	34 feet	" "	0·57 "	1·75 "	2·63 "	4·95 "
" Carlisle, "	3 feet	" "	3·13 "	3·62 "	3·81 "	10·56 "
" Miltown, Ireland, "	40 feet	" "	0·40 "	1·78 "	1·36 "	3·54 "
" Radcliffe Observatory, "	22 feet	" "	0·41 "	2·23 "	2·87 "	5·51 "
" Marlborough College, "	8 inches	" "	1·16 "	1·75 "	1·54 "	4·45 "
" " "	1 foot	" "	1·13 "	1·70 "	1·52 "	4·35 "
" Cardington, "	36 feet	" "	0·36 "	1·50 "	2·00 "	3·86 "
" Nottingham, "	25½ feet	" "	0·66 "	2·38 "	— "	— "
" Wisbech, "	8 feet	" "	1·07 "	2·75 "	1·58 "	5·40 "
" Aldershot Camp, "	25 feet	" "	0·40 "	0·93 "	1·25 "	2·58 "

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°								
Guernsey	29·687	69·0	33·5	35·5	57·5	46·9	22·7	10·6	51·4	46·4	·321	3·7	0·6	84	540	—	—	1·3	9	6	7	9	—	4·8	23
Helston	29·815	76·0	29·0	47·0	63·4	46·0	39·7	17·4	53·5	45·1	·304	3·6	1·4	72	540	90·7	42·9	2·4	10	6	5	10	3·9	4·7	22
Truro	29·732	72·0	27·0	45·0	60·7	46·7	36·0	14·0	51·6	45·7	·313	3·6	0·9	81	543	—	—	2·7	12	6	3	9	—	6·0	24
Sidmouth	29·674	69·0	31·0	38·0	59·3	45·9	28·5	13·4	51·4	48·7	·348	3·5	0·5	86	543	—	—	1·2	10	6	7	7	—	3·4	22
Osborne	29·673	75·7	33·1	42·6	62·4	45·8	33·8	16·6	52·2	47·1	·330	3·6	0·7	83	539	99·9	38·2	—	9	5	6	10	—	6·3	24
Brighton	29·679	77·2	28·0	49·2	60·1	45·5	35·4	14·6	51·8	45·2	·309	3·6	0·8	79	539	109·2	41·4	0·9	7	5	7	11	—	7·0	22
Lymington	29·698	73·0	25·8	47·2	61·1	44·1	38·3	17·0	51·8	44·5	·300	3·4	1·0	77	542	—	39·7	1·6	9	7	6	9	—	6·0	22
Wilton House	29·693	81·0	26·0	55·0	65·1	40·9	45·5	24·2	51·6	45·3	·277	3·6	0·8	79	539	107·6	38·2	1·2	11	7	5	8	4·6	6·6	22
Barnstaple	29·691	73·0	31·5	41·5	62·3	46·9	32·7	15·4	53·3	47·0	·328	3·7	0·9	80	541	—	—	1·3	6	5	9	11	—	4·2	22
Aldershot Camp	29·679	79·6	25·6	54·0	63·9	42·7	44·1	21·2	50·8	43·2	·285	3·2	1·0	76	537	111·0	38·9	1·6	9	5	6	10	2·5	6·2	22
Strathfield Turgiss	29·708	77·4	27·9	49·5	61·9	43·0	41·3	18·9	51·2	43·2	·285	3·2	1·1	75	541	116·7	36·6	0·7	9	7	4	10	4·6	5·9	22
Weybridge Heath	29·714	83·0	25·0	58·0	63·6	42·1	47·7	21·5	51·6	44·7	·302	3·4	0·8	79	540	103·3	39·2	1·1	11	7	6	6	1·3	5·8	22
Marlborough College	29·731	75·0	26·7	48·3	59·2	42·0	40·2	17·2	49·1	42·7	·278	3·2	0·8	79	537	122·1	37·4	—	10	7	5	9	5·7	7·3	22
Royal Observatory	29·673	81·2	28·7	52·5	63·3	43·8	41·6	19·5	51·8	44·9	·304	3·5	1·9	78	539	115·1	36·3	0·3	9	6	5	10	—	6·2	23
Guildhall	—	75·6	34·0	41·6	61·0	48·0	29·8	13·0	52·6	43·2	·285	3·2	1·3	72	—	—	—	—	—	—	—	—	—	—	23
Streatley Vicarage	29·738	83·2	28·8	56·4	63·8	42·3	45·0	21·5	52·5	45·0	·306	3·5	1·0	76	540	76·6	—	1·7	12	6	3	9	—	6·1	23
St. John's Col. Battrsa.	—	79·0	26·0	53·0	62·2	41·9	41·0	20·3	—	—	—	—	—	—	—	85·1	35·4	1·7	4	5	12	9	—	6·7	23
Camden Town	29·686	79·2	29·9	49·3	63·8	44·4	40·8	19·4	52·8	44·2	·296	3·4	1·2	74	539	104·5	41·1	—	14	4	4	9	—	6·2	23
Chiswick	29·658	81·0	27·5	53·5	63·0	42·8	46·5	20·2	51·2	46·2	·320	3·6	0·6	84	542	118·0	38·8	—	10	6	6	9	—	—	23
Oxford	29·694	79·6	30·1	49·5	61·3	43·4	38·8	17·9	52·1	44·1	·295	3·3	1·1	75	538	110·9	—	3·1	9	5	6	10	3·6	7·5	23
Gloucester	29·752	76·1	30·9	45·2	61·0	41·5	40·0	19·5	52·7	43·5	·290	2·9	1·3	72	541	101·4	42·6	0·7	9	7	3	11	1·4	6·0	23
Royston	29·695	85·0	27·1	57·9	64·4	41·7	44·4	22·7	50·9	45·0	·305	3·5	0·8	80	539	—	—	—	12	4	6	9	—	6·3	23
Cardington	29·686	82·0	28·0	54·0	62·9	42·9	42·5	20·0	51·8	46·3	·324	3·7	0·8	83	538	96·7	36·2	0·8	10	6	4	11	—	5·8	23
Lampeter	29·705	78·0	23·0	55·0	62·9	42·1	—	20·8	51·5	45·2	·307	3·5	0·9	79	535	110·7	—	—	—	—	—	—	—	—	23
Somerleyton Rectory	29·639	78·8	29·2	49·6	58·2	43·0	35·5	15·2	49·8	46·3	·321	3·6	0·6	88	543	—	33·9	1·1	9	8	6	7	7·2	5·5	23
Norwich	29·649	78·5	28·0	50·5	59·4	42·6	34·7	16·8	49·8	45·4	·309	3·5	0·6	84	543	—	—	—	9	6	5	10	—	—	23
Wisbech	29·639	85·0	31·0	54·0	62·5	43·6	40·6	18·9	51·6	46·2	·320	3·5	0·8	82	542	110·8	39·6	0·8	11	5	5	9	4·2	6·9	23
Llandudno	29·694	74·6	33·4	41·2	61·3	45·4	31·5	15·9	52·3	44·4	·296	3·4	1·0	75	541	—	—	0·6	—	—	—	—	—	6·1	23
Derby	29·675	78·0	29·0	49·0	60·8	44·3	36·7	16·5	51·0	43·7	·292	3·3	0·9	76	540	—	—	—	7	7	6	11	—	—	23
Nottingham	29·674	82·7	28·8	53·9	63·0	42·8	41·7	20·2	51·3	43·0	·284	3·2	1·1	74	538	113·1	34·3	0·7	10	5	5	11	2·4	6·3	23
Holkham	29·676	77·0	29·5	47·5	57·7	42·7	35·0	15·0	47·1	43·8	·290	3·4	0·6	83	545	117·1	37·8	1·2	16	4	5	5	—	6·9	23
Hawarden	29·695	75·0	34·0	41·0	58·2	46·7	30·2	11·5	51·5	42·9	·283	3·3	1·1	73	538	117·6	28·5	2·2	11	4	6	9	1·6	5·8	23
Liverpool	29·729	78·1	33·5	44·6	59·8	45·2	33·2	14·6	51·1	43·6	·287	3·2	1·0	75	540	—	—	1·1	7	6	4	14	—	5·7	23
Eccles	29·705	76·8	27·0	49·8	60·9	42·4	40·9	18·5	50·6	42·6	·279	3·1	1·1	74	542	74·8	35·1	0·3	8	6	5	11	2·5	5·8	23
Bermerside Observtry.	29·792	77·9	28·0	49·9	58·7	41·3	37·6	15·4	48·3	42·0	·273	2·8	0·8	79	536	98·1	37·9	0·6	8	7	5	11	—	7·0	23
Hull	29·681	77·0	28·0	49·0	59·0	41·8	36·0	17·2	49·6	42·9	·283	3·2	0·9	78	545	86·9	39·6	—	—	—	—	—	5·2	—	23
Stonyhurst	29·678	73·4	27·9	45·5	59·5	43·5	36·5	16·0	49·6	44·7	·304	3·4	0·7	84	538	116·5	36·1	—	6	6	3	15	—	7·0	23
Bradford	29·651	76·0	32·6	43·4	60·3	44·9	32·3	15·4	51·0	42·1	·274	3·1	1·2	72	535	83·8	—	—	—	—	—	—	—	4·9	23
Cockermouth	29·688	72·4	26·6	45·8	60·9	43·1	37·6	17·8	54·5	42·8	·280	3·3	0·9	75	541	103·2	34·7	0·5	6	9	6	10	2·2	5·3	24
Silloth	29·657	77·7	30·0	47·7	62·7	42·4	41·4	20·3	50·9	44·6	·300	3·4	0·9	81	543	93·6	35·9	2·1	7	5	5	14	5·6	6·3	22
Carlisle	29·677	72·8	23·1	49·7	60·3	41·0	40·2	19·3	49·6	42·6	·281	3·2	0·8	77	543	93·6	35·9	2·1	7	5	5	14	5·6	6·5	22
Bywell	29·654	77·0	31·0	46·0	59·2	45·2	31·0	14·0	50·3	42·5	·277	3·2	1·0	74	542	76·9	39·2	1·2	—	—	—	—	—	5·2	22
North Shields	29·731	71·8	29·6	42·2	54·8	42·9	28·5	11·9	47·5	41·7	·276	2·8	0·7	81	546	—	41·7	1·9	10	8	4	8	—	6·5	23
Miltown (Ireland)	29·688	73·0	27·0	46·0	59·0	43·6	36·0	15·4	50·4	42·4	·276	3·1	1·1	75	540	104·5	38·6	2·1	9	6	8	7	—	5·1	23

The highest temperatures of the air were at Royston and Wisbech, 85°·0 respectively; Streatley, 83°·2; Weybridge Heath, 83°·0; Notting-ham, 82°·7; Cardington, 82°·0; and at the Royal Observatory, 81°·2.

The lowest temperatures of the air were at Lampeter, 23°·0; Carlisle, 23°·1; Weybridge Heath, 25°·0; Aldershot Camp, 25°·6; Wilton House, and St. John's, Battersea 26°·0 respectively; Lymington, 25°·8; and at Marlborough College, 26°·7.

The greatest daily ranges of the temperatures of the air were at Wilton House, 24°·2; Royston, 22°·7; Weybridge Heath and Streatley Vicarage, 21°·5 respectively; Aldershot Camp, 21°·2; Lampeter, 20°·8; St. John's, Battersea, and Silloth, 20°·3 respectively; and at Uxbrid-wick and Nottingham, 20°·2 respectively.

The least daily ranges of the temperatures of the air were at Guernsey, 10°·6; Hawarden, 11°·5; North Shields, 11°·9; Guildhall, 12°·0; Sidmouth, 13°·4; and at Truro and Bywell, 14°·0 respectively.

The greatest numbers of rainy days were at Stonyhurst, 57; North Shields, 55; Bywell and Eccles, 52 respectively; Hawarden, 49; and at Oxford, Hull, and Miltown, 43 respectively.

The least numbers of rainy days were at Silloth, 24; Sidmouth, 26; Llandudno and Wilton House, 27 respectively; and at Lymington, Bradford, and Lampeter, 29 respectively.

The heaviest falls of rain were at Stonyhurst, 7·68 inches; Oxford, 5·69 inches; Eccles, 5·68 inches; Gloucester, 5·61 inches; Cardington, 5·55 inches; North Shields, 5·53 inches; and at Wisbech, 5·51 inches.

The least falls of rain were at Sidmouth, 2·72 inches; Llandudno, 2·89 inches; Bradford, 3·13 inches; Liverpool, 3·15 inches; Aldershot Camp, 3·40 inches; and at Royston, 3·54 inches.

QUARTERLY METEOROLOGICAL TABLE for different PARALLELS of LATITUDE.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°								
Guernsey	29·687	69·0	33·5	35·5	57·5	46·9	22·7	10·6	51·4	46·4	·321	3·7	0·6	84	540	—	—	1·3	9	6	7	9	—	4·8	23
Between the latitudes 50° and 51°	29·729	73·8	29·0	44·8	61·2	45·7	35·7	15·5	52·0	46·1	·317	3·6	1·0	80	542	99·9	40·4	1·8	10	6	6	9	—	5·6	25
Between the latitudes 51° and 52°	29·697	79·1	28·1	51·0	62·6	43·4	41·2	19·2	51·7	44·5	·297	3·4	1·0	78	539	106·4	38·0	1·4	9	6	6	9	3·7	6·4	24
Between the latitudes 52° and 53°	29·680	79·6	28·9	50·7	61·3	43·0	38·3	18·3	50·9	44·8	·304	3·4	0·9	79	541	108·3	37·4	0·8	10	6	5	9	3·8	6·3	25
Between the latitudes 53° and 54°	29·692	76·3	30·1	46·2	59·2	43·7	35·2	15·5	50·2	43·0	·284	3·2	1·0	77	539	96·3	35·4	1·0	8	6	5	12	3·1	6·0	26
Between the latitudes 54° and 55°	29·669	75·0	27·7	47·3	60·8	42·9	37·6	17·9	51·3	43·1	·285	3·3	0·9	77	542	92·4	36·8	1·2	6	8	6	11	4·6	5·8	23
North Shields	29·731	71·8	29·6	42·2	54·8	42·9	28·5	11·9	47·5	41·7	·276	2·8	0·7	81	546	—	41·7	1·9	10	8	4	8	—	6·5	23
Miltown, Banbridge (Ireland)	29·688	73·0	27·0	46·0	59·0	43·6	36·0	15·4	50·4	42·4	·276	3·1	1·1	75	540	104·5	38·6	2·1	9	6	8	7	—	5·1	23
Mean for the Quarter, 50° to 55° — Year 1870	29·792	82·6	28·1	54·5	63·9	44·4	44·1	19·5	52·8	44·9	·303	3·4	1·1	75	541	107·0	37·7	1·2	7	4	6	13	—	5·2	41
Mean for the Quarter, 50° to 55° — " 1871	29·644	77·9	28·5	49·4	61·1	43·6	39·1	17·5	50·8	44·4	·294	3·3	0·9	79	540	—	38·0	0·7	8	8	5	9	—	6·0	48
Mean for the Quarter, 50° to 55° — " 1872	29·591	82·5	29·6	52·7	61·1	43·8	39·8	17·3	51·1	44·8	·298	3·5	0·9	80	539	104·4	38·4	1·2	6	4	7	13	4·2	6·1	48
Mean for the Quarter, 50° to 55° — " 1873	29·693	76·8	28·8	48·0	61·0	43·7	37·7	17·3	51·2	44·3	·297	3·4	0·9	78	541	100·7	37·6	1·2	9	6	6	10	3·8	6·0	38

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING SEPTEMBER 30, 1873.

REMARKS ON THE WEATHER DURING THE QUARTER ENDING SEPTEMBER 30TH, 1873.

By JAMES GLAISHER, ESQ., F.R.S., *&c.*

Till the 19th of July the weather was mostly cold, and the mean daily temperatures were below their seasonable averages by ¾°. On July 20th a sudden change took place, and for a few days the weather was fine and hot, particularly on the 21st, 22d, and 23d, the mean temperatures of these days being 71°·7, 75°·2, and 72°·3, exceeding their averages by 10°·2, 13°·7, and 10°·7 respectively. In the year 1818 the mean temperature of the 23d, 24th, 25th, and 26th of July were 72°·7, 79°·2, 70°·7, and 72°·0 respectively; a similar very warm period in July 1825 continued from the 13th to the 20th, with mean daily temperatures of 70°·6, 71°·3, 79°·1, 74°·1, 73°·9, 78°·2, 78°·6, and 70°·8. In July 1826 a warm period was experienced from the 2d to the 9th, the mean daily values were 71°·8, 71°·7, 74°·3, 73°·9, 72°·3, 73°·1, 72°·6, and 71°·3. In 1830 from July 25th to 30th the average daily temperature was 72°·3, the value for the 30th being 76°·3. In 1836 the mean temperature of July 1st to 6th was 73°·0, with a maximum daily temperature of 76°·7; in 1847 the mean from July 11th to 14th was 72°·4, and in 1859 the mean temperature of July 11th to 13th and 16th to 19th was 73°·3, with a maximum mean daily temperature of 75°·7.

Immediately following those few warm days beginning July 20th, 1873, the weather was again cold, and from July 20th to September 2d the weather was changeable, the whole period being characterised by several days of warm weather, followed by a few days of cold, and then succeeded by several warm days again; the warm days were, however, the more numerous, and upon the whole period there was an excess of temperature averaging 2½° on the 45 days ending September 2d. From September 3d there was a fortnight of continued cold weather, and for the most part the weather was cold to the end of the quarter; the deficiency of mean temperature upon the last 28 days of the quarter somewhat exceeded an average of 2° daily.

Rain fell very frequently during the first half of July, during the whole month of August, and the first half of September; and but little fell during the second halves of July and September.

The wind during the whole quarter was nearly always West, or a compound of the West with the South; the winds from the North and East were insignificant in duration.

The average duration of the different directions of the wind in days, and the duration of each direction in each month in the quarter, are as follows:—

Direction of Wind.	July. Average.	July. 1873.	July. Departure from Average.	August. Average.	August. 1873.	August. Departure from Average.	September. Average.	September. 1873.	September. Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	2½	1	−1½	2	2	0	1½	1	− ½
N.	3½	1	−2½	3	0	−3	3½	3	− ½
N.E.	3¾	0	−3¾	3	0	−3	5¼	2	−3¼
E.	1	1	0	1	1	0	1¾	2	+ ¼
S.E.	1	1	0	1¼	1	− ¼	1¾	3	+1¼
S.	2½	3	+ ½	3	2	−1	2	2	0
S.W.	10½	15	+4½	10½	16	+5½	7¼	8	+ ¾
W.	4	8	+4	3½	8	+4½	2½	8	+5½
Calm.	2¼	1	−1¼	3½	1	−2½	4½	1	−3½
nearly.									

The + signs denoting excesses over averages in the months of July and August, are confined to the S., S.W. and W. winds; in September these winds also preponderated, but there are in addition some + signs to compounds of E. in this month. During each month the deficiencies of the N. and its compounds are shown by the sign − being prevalent in every month.

The mean temperature for the month of July at Greenwich was 4½° above that in June; that in August was ¾° below that in July; and September was no less than 8° below that in August. The mean increase from all stations from June to July was 3°·8; and the mean decrease from July to August was 0°·7; and from August to September was 6°·0.

The decrease of mean temperature from August to September at Greenwich of so large an amount as 8° is rare; back to 1773 the only instances of so large a decline are as follows:

1778	the decrease was	10°·1.	1842	the decrease was	9°·0.
1803	"	9°·3.	1856	"	8°·4.
1807	"	10°·6.	1863	"	8°·2.
1840	"	8°·0.			

The readings of the barometer at 159 feet above sea level were very variable throughout July, but the movements were not of very great magnitude. The highest reading in the month was 30·0 in. on the 21st, and the lowest 29·2 in. on the 13th, thus giving a range of 0·8 in. The mean daily values were below the average as a rule till the 15th, but above during the remainder of the month. Tolerably high readings were experienced from the 1st to the 17th August, but in very few cases, however, exceeding 30 in., but from the 18th to the end of the month a low wave was prevalent, the average value for the 28th being 29·4 in. The range of reading in the month was but 0·7 in. The low readings of the latter end of August continued till the 18th September; a rather large depression being recorded on the 13th, 14th, and 15th; the minimum, 29·1 in., occurring about noon on the last-mentioned day. On the 21st the readings passed above 30 in., and continued in excess of that point till the 26th, the mean excess above average daily being nearly 0·4 in. The maximum for the month was 30·36 in. on the 22d, and minimum 29·08 in. on the 15th, thus giving a range of 1·28 in.

The mean decrease of readings from all the stations from June to July was 0·021 in.; from July to August was 0·023 in., and from August to September at all stations south of latitude 53°, there was an increase of 0·034 in., and north of this parallel, there was a decrease of 0·051 in.

The mean temperature of July was 63°·4, being 1°·8 higher than the average of 102 years, lower than in 1872 by 1°·6, but higher than in 1871 by 1°·7.

The mean temperature of August was 62°·7, being 1°·9 higher than the average of 102 years, higher than in 1872 by 1°·8, lower than in 1871 by 2°·1, and higher than in 1870 and 1869.

The mean temperature of September was 54°·7, being 1°·8 lower than the average of 102 years and lower than in any year back to 1863, when 53°·7 was recorded.

The mean high day temperatures were higher than their respective averages in July and August, but lower in September.

The mean low night temperatures were also lower than their averages in the first two months and higher in the last.

Therefore the days and nights of July and August were warm, and those of September cold.

The daily ranges of temperature were greater than their respective averages in July, August, and September, by 1°·7, 0°·5, and 0°·6.

The fall of rain was 0·7 in. in defect in July, 0°·8 in. in excess in August, but the same as the average in September.

The mean temperature of the air in the three months ending August, constituting the three summer months, was 61°·7, being 1°·5 higher than the average of the preceding 102 years.

1873. Months.	Temperature of Air. Mean.	Temperature of Air. Diff. from average of 102 years.	Temperature of Air. Diff. from average of 32 years.	Temperature of Evaporation. Mean.	Temperature of Evaporation. Diff. from average of 32 years.	Temperature of Dew Point. Mean.	Temperature of Dew Point. Diff. from average of 32 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 32 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 32 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 32 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	grs.
July -	63·4	+1·8	+1·4	58·8	+1·3	54·9	+1·1	22·7	+1·7	66·0	0·431	+0·016	4·8	+0·2
Aug. -	62·7	+1·9	+1·3	58·2	+0·9	54·4	+0·7	20·3	+0·5	65·8	0·424	+0·008	4·7	+0·1
Sept. -	54·7	−1·8	−2·6	51·8	−2·3	49·0	−2·1	19·1	+0·6	58·8	0·348	−0·032	4·0	−0·2
Means -	60·3	+0·6	0·0	56·3	0·0	52·8	+0·2	20·7	+0·9	63·5	0·401	−0·003	4·5	0·0

1873. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 32 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 32 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 32 years.	Rain. Amount.	Rain. Diff. from average of 58 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Number of Nights it was Between 30° and 40°.	Number of Nights it was Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
July -	74	+ 1	29·793	−0·014	526	−2	1·9	−0·7	264	0	0	31	41·1	59·6
Aug. -	75	− 1	29·765	−0·029	527	−2	3·2	+0·8	284	0	2	29	37·3	60·5
Sept. -	81	+ 1	29·792	−0·015	536	+1	2·5	0·0	250	1	18	11	27·9	49·8
Means -	77	0	29·783	−0·019	530	−1	Sum 7·6	Sum 0·0	Mean 266	Sum 1	Sum 20	Sum 71	Lowest 27·9	Highest 60·5

NOTE.—In reading this table it will be borne in mind that the minus sign (−) signifies below the average, and that the plus sign (+) signifies above the average.

Thunderstorms occurred, on the 4th of July at Llandudno, Eccles, Halifax, and Stonyhurst; on the 11th at North Shields; on the 12th at Wisbech, Eccles, Halifax, Hull, and Stonyhurst; on the 13th at North Shields; on the 14th at Oxford, Cardington, Eccles, Leeds, and North Shields; on the 15th at Oxford, Wisbech, Eccles, Stonyhurst, Leeds, Carlisle, and North Shields; on the 22d at Helston, Truro, Taunton, Salisbury, Oxford, Llandudno, Hawarden, Liverpool, Eccles, Stonyhurst, Allenheads, Silloth, Carlisle, Bywell, and Miltown; on the 23d at Gloucester, Wisbech, Llandudno, Halifax, Hull, Leeds, Cockermouth, Silloth, Carlisle, Bywell, North Shields, and Miltown; on the 24th at Cockermouth; on the 26th at Bywell; on the 27th at Stonyhurst; and on the 29th at Eastbourne and Brighton. On the 8th of August at Guernsey and Brighton; on the 9th at Eccles, Hull, and Carlisle; on the 16th at Miltown; on the 18th at Hull and Stonyhurst; on the 19th at Cockermouth and Silloth; on the 22d at Liverpool and Eccles; on the 24th at Brighton, Lymington, Salisbury, Aldershot Camp, Marlborough, Oxford, Gloucester, Royston, Cardington, Wisbech, and Eccles; on the 25th at Guernsey, Helston, Truro, Osborne, Lymington, Taunton, Salisbury, Oxford, Gloucester, Somerleyton, Eccles, Halifax, Stonyhurst, and Miltown; on the 26th at Sidmouth, Oxford, Royston, Cardington, Halifax, Stonyhurst, Leeds, Cockermouth, Allenheads, Silloth, and Carlisle; and on the 28th at Oxford, Royston, Cardington, Halifax, Hull, Stonyhurst, and Allenheads. On the 1st of September at Somerleyton and Norwich; on the 3d at Osborne, Brighton, Lymington, Cardington, Somerleyton, Llandudno, and Eccles; on the 14th at Royston, Cardington, Eccles, Halifax, Stonyhurst, Silloth, Carlisle, and North Shields; and on the 15th at Guernsey and Cardington.

Thunder was heard, but lightning was not seen, on the 3d of July at Allenheads; on the 4th at Cardington and Hull; on the 7th at Bywell; on the 9th and 10th at Carlisle; on the 11th at Hawarden; on the 12th at Gloucester, Cardington, and Leeds; on the 13th at Cardington, Stonyhurst; on the 14th at Guernsey, Taunton, Gloucester, Cardington, Halifax, Hull, Stonyhurst; on the 15th at Osborne, Portsmouth, Royston, Norwich, Halifax, Hull, Cockermouth, and Silloth; on the 16th at Salisbury; on the 22d at Guernsey and Streatley; on the 23d at Cardington, Stonyhurst, and Allenheads; on the 27th at Streatley, Wisbech, Eccles, and Carlisle;

on the 29th at Cardington, Hull, and Bywell. On the 1st of August at Somerleyton; on the 2d at Halifax; on the 8th at Somerleyton; on the 9th at Cardington, Eccles, and Halifax; on the 16th at Carlisle; on the 19th at Cardington, Wisbech, Halifax, Stonyhurst, and Carlisle; on the 24th at Osborne, Strathfield Turgiss, Streatley, and Llandudno; on the 25th at Streatley, Llandudno, and Hull; on the 26th at Wisbech; on the 27th at Llandudno; and on the 28th at Gloucester, Llandudno, Hawarden, and Eccles. On the 3d of September at Oxford, Royston, and Hull; on the 6th and 7th at Hull; on the 9th at Carlisle; on the 14th at Royston, Hull, Allenheads, and Bywell; on the 15th at Weybridge and Eccles; and on the 28th at Brighton.

Lightning was seen, but thunder was not heard, on the 3d of July at Guernsey; on the 11th at Hawarden; on the 15th at Royston; on the 21st at Oxford; on the 22d at Brighton, Aldershot Camp, Strathfield Turgiss, Streatley, Halifax, Hull, and North Shields; on the 23d at Brighton, Oxford, and Norwich; on the 25th at Streatley; and on the 29th at Portsmouth and Stonyhurst. On the 8th of August at Osborne; on the 9th at Aldershot Camp; on the 18th at Oxford, Somerleyton, Llandudno, Silloth, and Carlisle; on the 19th at Streatley and Cardington; on the 22d and 23d at Cardington; on the 24th at Guernsey, Truro, Osborne, Taunton, Streatley, Oxford, Somerleyton, and Norwich; on the 25th at Brighton, Aldershot Camp, Streatley, Royston, Cardington, Wisbech, Llandudno, Hawarden, Hull, Cockermouth, and Carlisle; on the 26th at Somerleyton and Norwich; and on the 28th at Royston and Somerleyton. On the 1st of September at Royston, Wisbech, and Hull; on the 3d and 10th at Carlisle; on the 11th at Stonyhurst and Carlisle; on the 13th at Brighton; on the 14th at Truro and Silloth; on the 15th at Brighton; and on the 18th at Somerleyton.

Solar halos were seen, on the 3d of July at Guernsey and Wisbech; and on the 9th and 24th at Oxford. On the 4th of August at Brighton. On the 12th of September at Brighton, Strathfield Turgiss, Weybridge, and Oxford; on the 21st at Oxford; on the 22d at Weybridge and Oxford; and on the 23d and 29th at Oxford.

Lunar halos were seen, on the 11th of September at Oxford.

Auroræ Boreales were seen, on the 16th of July at Brighton. On the 6th of August at Oxford; and on the 18th at Stonyhurst. On the 20th of September at Carlisle.

Hail fell, on the 4th of July at Norwich; on the 12th at Streatley and Liverpool; on the 15th at Hull; on the 27th at Carlisle. On the 8th of August at Hawarden; on the 9th at Hull and Carlisle; on the 12th at Liverpool; on the 16th at Silloth and Miltown; on the 22d at Liverpool; on the 28th at Streatley. On the 3d of September at Cardington; on the 14th at Hull, Silloth, and Carlisle; on the 15th at Guernsey, Brighton, Cardington, and Allenheads; on the 18th at Carlisle.

Fog prevailed, in July on 3 days, the 8th, 20th, and 21st; in August on 10 days, viz., the 6th, 7th, 11th, 12th, 20th, 21st, 23d, 24th, 25th, and 31st; and in September on 14 days, viz., 2d, 7th, 9th, 13th, 15th, 16th, 20th, 23d, 24th, 25th, 26th, 27th, 28th, and 30th.

Syringa, first in blossom, on the 14th of July at Miltown.

Cherry ripe, on the 10th of July at Miltown.

Peach ripe, on the 15th of August at Guernsey.

Plum ripe, on the 15th of August at Guernsey.

Wheat cut, on the 22d of July at Oxford; on the 24th at Helston; on the 28th at Brighton and Royston; on the 30th at Eastbourne and Strathfield Turgiss. On the 4th of August at Guernsey; on the 12th at Hull; on the 20th at Silloth.

Barley cut, on the 27th of July at Helston.

Oats cut, on the 22d of July (near) Brighton; on the 27th at Helston; on the 28th at Strathfield Turgiss.

Swallow departed, from Stonyhurst on the 12th of September; from Silloth on the 25th.

JULY.

BYWELL.—The weather has been very favourable for haymaking; the crop is good and well got. Potatoes and turnips have made great progress and promise well. Barley is changing colour, but wheat and oats are very backward. Small fruits (berries) are plentiful; apples will be a fair crop.

COCKERMOUTH.—Haymaking became general about the 8th. The crops of sown (or lea) grass were exceedingly poor, not more than half the average, owing to dry weather during the spring months.

AUGUST.

HULL.—Harvest operations became pretty general about the 14th to the 18th. Turnips, &c. are looking well. There has been a few reports of the potatoe disease having made its appearance, but nothing of any importance.

BYWELL.—The harvest is in full operation, but settled weather is required. The rains during the month have improved the pastures, which were getting very bare. Potatoes are plentiful and good in quality, fruit is also abundant.

COCKERMOUTH.—The harvest became general about the middle of the month, but was much retarded by the state of the weather. The hay crop not all secured at end of month, for similar reason. Potatoes began to be affected with disease during last week of month. The early kinds (in gardens) being much affected.

SEPTEMBER.

HULL.—The potatoe disease has become pretty general in this neighbourhood, about half the crop in some places is more or less affected. Crop good.

BYWELL.—The harvest is quite finished in this neighbourhood, and all is secured in pretty good condition. Wheat is below the average, barley and oats are a good average. Field potatoes are pretty free from disease, but garden potatoes are much diseased. Turnips are a good crop; the pastures are improving.

COCKERMOUTH.—The grain crop had not been all secured at the end of the month.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING SEPTEMBER 30TH, 1873.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the fifth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1873. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.M.S.	204	July	29·782	0·832	81·0	50·5	30·5	67·6	56·7	10·9	61·0	56·2	·451	5·0	1·0	84	528	–	–	1·1	3	4	12	12	3·7	4·2	9	3·34
		Aug.	29·780	0·596	73·0	53·0	20·0	66·5	56·8	9·7	60·6	53·7	·413	4·6	1·3	78	529	–	–	1·2	5	3	11	12	3·5	5·2	15	5·09
		Sept.	29·788	1·142	65·5	48·5	17·0	61·4	53·5	7·9	56·9	51·9	·387	4·3	1·0	83	533	–	–	1·2	7	5	8	10	4·3	4·9	16	2·34
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	July	29·974	0·718	80·0	45·0	35·0	71·8	53·0	18·8	61·3	55·2	·436	5·0	0·5	76	527	101·0	51·0	2·2	3	3	13	12	4·1	3·7	15	3·84
		Aug.	29·960	0·714	76·0	48·0	28·0	70·4	55·8	14·6	61·8	55·2	·436	5·0	1·5	78	528	92·7	51·7	2·3	2	3	12	14	4·0	5·3	21	4·05
		Sept.	29·996	1·010	74·0	46·0	28·0	66·0	52·9	13·1	57·1	50·6	·369	4·3	1·4	75	533	87·7	46·9	2·1	8	6	5	11	4·5	4·2	14	3·13
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	48	July	29·957	0·704	79·0	43·0	36·0	68·6	53·0	15·6	59·4	51·8	·386	4·3	1·3	76	534	–	–	2·5	2	3	7	19	–	5·7	18	3·69
		Aug.	29·948	0·724	81·0	45·0	36·0	67·6	55·9	11·7	59·6	53·6	·411	4·6	1·1	81	533	–	–	2·7	5	3	5	18	–	6·7	24	4·31
		Sept.	29·974	1·116	70·0	40·0	30·0	63·3	50·8	12·5	55·5	50·0	·363	4·1	0·9	83	538	–	–	2·7	9	7	3	11	–	5·8	19	2·41
SIDMOUTH (Devon), J. Ingleby Mackenzie, Esq., M.B., F.M.S.	30	July	29·954	0·859	77·0	46·0	31·0	67·6	52·7	14·9	59·4	56·4	·466	5·2	0·6	90	533	–	–	1·4	1	2	10	18	–	3·0	14	1·67
		Aug.	29·935	0·756	73·6	47·4	26·2	66·8	55·1	11·7	60·1	56·1	·452	5·1	0·7	87	532	–	–	1·6	7	2	10	12	–	3·6	16	3·99
		Sept.	29·961	1·352	66·2	43·8	22·4	61·6	50·5	11·1	55·4	50·9	·372	4·3	0·6	88	548	–	–	1·4	10	3	5	12	–	3·9	13	2·36
EASTBOURNE (Sussex), Miss W. L. Hall.	12	June	29·983	0·759	73·8	42·1	31·7	67·3	51·1	16·2	57·7	52·0	·391	4·3	1·0	82	537	113·7	45·5	0·4	4	5	8	13	6·4	–	11	2·35
		July	29·991	0·524	82·0	50·6	31·4	71·1	56·1	15·0	62·2	55·3	·449	4·9	1·4	79	530	120·8	49·1	0·7	3	3	9	16	5·6	–	8	1·71
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	July	29·805	0·773	84·2	46·4	37·8	72·6	54·7	17·9	62·0	55·5	·442	4·9	1·3	79	528	109·5	45·8	0·1	1	4	9	17	–	5·1	8	1·96
		Aug.	29·783	0·664	86·7	51·9	34·8	71·7	55·9	15·8	62·0	55·5	·442	4·9	1·3	79	528	106·6	45·6	0·1	3	2	10	16	–	6·5	20	1·65
		Sept.	29·809	1·226	72·0	43·6	28·4	64·7	51·0	13·7	56·4	51·6	·383	4·4	0·8	84	534	95·4	39·8	0·1	5	6	8	11	–	6·4	13	2·45
BOURNEMOUTH (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	128	April	30·039	0·780	63·4	30·3	33·1	54·7	39·5	15·2	45·9	38·6	·236	2·7	0·9	76	550	–	–	–	12	6	4	8	–	4·0	9	0·97
		May	30·024	0·920	66·0	33·9	32·1	58·8	44·0	14·8	50·9	43·5	·284	3·3	0·9	87	544	–	–	–	6	6	9	10	–	2·9	10	0·94
		June	30·009	0·670	70·9	44·2	26·7	64·7	51·4	13·3	56·8	51·2	·377	4·2	1·0	82	537	–	–	–	6	3	7	14	–	4·6	13	1·56
		July	30·010	0·990	78·7	46·1	32·6	68·9	55·1	13·8	61·4	53·2	·405	4·5	1·2	75	532	–	–	–	2	3	6	20	–	2·0	10	2·00
		Aug.	29·934	0·510	77·4	50·9	26·5	68·6	56·6	12·0	61·8	53·6	·412	4·6	1·6	75	530	–	–	–	2	1	8	20	–	3·4	14	2·48
		Sept.	29·989	1·340	65·0	41·0	24·0	61·9	49·9	12·0	55·3	48·8	·345	3·9	0·9	79	539	–	–	–	5	3	6	16	–	2·8	15	2·34
PORTSMOUTH, William O. Ellis, Esq., F.M.S.	16	July	29·953	0·777	82·2	45·2	37·0	74·0	51·6	22·4	61·8	53·1	·423	4·5	1·7	74	531	–	–	1·6	1	3	14	13	–	3·5	–	–
WORTHING (Sussex), W. J. Harris, Esq., M.R.C.S.E., L.S.A.	31	July	29·968	0·814	77·2	47·9	29·3	68·3	55·7	12·6	61·0	54·2	·421	4·6	1·5	76	522	121·9	49·4	1·2	1	3	10	17	4·7	4·3	9	1·56
		Aug.	29·932	0·638	74·2	48·8	25·4	69·2	56·4	12·8	61·5	55·4	·441	4·9	1·2	81	531	120·5	50·9	1·0	2	3	9	17	4·6	5·6	14	1·92
		Sept.	29·943	1·242	68·6	43·5	25·1	63·7	50·6	13·1	56·4	50·8	·372	4·2	0·8	81	536	109·3	46·3	0·9	6	5	6	14	2·4	5·4	12	2·43
BRIGHTON (Sussex), Frederick E. Sawyer, Esq., F.M.S.	206	July	29·779	0·773	81·0	49·4	31·6	71·1	55·7	15·4	62·2	53·5	·411	4·5	1·7	73	527	119·5	51·0	1·1	1	3	14	13	–	6·2	10	1·82
		Aug.	29·774	0·636	74·7	49·5	25·2	70·5	56·1	14·4	62·2	54·2	·421	4·6	1·6	75	527	115·6	52·3	1·3	1	3	10	17	–	5·3	14	2·92
		Sept.	29·767	1·221	67·5	44·0	23·5	62·3	49·7	12·6	55·3	48·6	·346	3·9	1·0	79	535	123·6	37·9	1·0	6	5	7	12	–	6·3	13	2·89
LYMINGTON (Hants), George J. Jones, Esq.	77	July	29·899	0·604	82·8	41·6	41·2	69·9	52·9	17·0	60·4	52·6	·396	4·4	1·5	75	532	–	48·6	1·5	2	3	13	13	–	5·5	6	2·08
		Aug.	29·867	0·730	81·8	49·7	32·1	70·3	55·3	15·0	62·0	52·7	·399	4·4	1·8	72	529	–	52·2	1·7	2	2	9	18	–	5·1	13	2·41
		Sept.	29·901	1·279	70·6	40·3	30·3	64·5	48·6	15·9	56·3	48·4	·442	3·9	1·2	75	536	–	46·2	1·2	7	6	5	12	–	5·3	8	2·37
TAUNTON (Somerset), Rev. W. Tuckwell, F.M.S.	80	July	29·868	0·630	95·0	43·5	51·5	73·7	51·7	22·0	62·6	53·4	·409	4·5	1·8	72	529	85·3	46·0	0·3	2	2	6	21	7·5	5·7	19	2·13
		Aug.	29·832	0·950	82·8	36·0	46·8	70·8	53·8	17·0	60·5	54·4	·424	4·7	1·2	81	530	81·0	49·3	0·4	5	2	5	19	5·8	6·6	16	4·10
		Sept.	29·897	1·365	73·2	37·2	36·0	64·2	47·2	17·0	54·8	48·7	·344	3·9	0·9	79	538	74·7	40·0	0·2	8	5	5	12	2·2	6·8	16	1·92
WILTON HOUSE (near Salisbury), T. Challis, Esq.	186	July	29·776	0·647	89·0	41·5	47·5	75·0	49·3	25·7	61·0	55·6	·442	4·9	1·1	85	528	121·8	46·7	1·2	3	1	14	13	–	6·2	14	1·40
		Aug.	29·751	0·596	87·0	42·0	45·0	74·4	51·2	23·2	61·4	56·6	·459	5·1	1·0	85	527	119·2	49·2	1·4	3	1	8	19	–	6·8	16	2·65
		Sept.	29·769	1·296	74·5	35·0	39·5	65·4	44·0	21·4	54·0	50·0	·390	4·1	0·6	86	536	105·2	41·5	1·3	4	6	6	14	–	5·4	12	1·99

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1873. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
BARNSTAPLE (Devon), T. Mackrell, Esq.	43	July	29·907	0·779	83·5	44·5	39·0	70·4	54·6	15·8	60·7	56·1	·459	5·1	0·8	87	531	–	–	1·1	0	3	16	12	–	3·5	21	4·50
		Aug.	29·890	0·794	77·5	51·0	26·5	69·0	56·9	12·1	61·2	57·0	·464	5·1	0·9	86	530	–	–	1·3	0	2	16	13	–	4·8	24	7·19
		Sept.	29·925	1·330	75·5	41·0	34·5	64·6	51·3	13·3	56·6	52·0	·388	4·3	0·8	85	536	–	–	1·2	4	8	6	12	–	3·5	20	3·16
ALDERSHOT CAMP (Hants), John Arnold, Esq., M.S.C., F.M.S.	325	July	29·614	0·780	89·4	45·0	44·4	75·5	53·1	22·4	62·9	55·0	·433	4·8	1·7	74	524	129·1	50·4	1·6	2	2	14	13	2·1	6·3	11	2·13
		Aug.	29·581	0·626	89·6	47·8	41·8	74·8	54·4	20·4	62·3	52·0	·389	4·3	1·8	72	525	125·4	52·1	1·6	4	2	9	16	2·6	7·1	17	1·98
		Sept.	29·680	1·276	70·8	37·8	33·0	64·2	46·6	17·6	54·2	48·2	·336	3·8	0·9	80	533	103·8	44·9	1·6	6	5	7	12	–	6·6	12	2·61
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	July	29·763	0·792	87·7	43·3	44·4	73·1	52·5	20·6	61·7	52·6	·397	4·4	1·7	73	529	131·7	47·2	0·6	1	3	10	17	6·0	4·9	7	1·89
		Aug.	29·743	0·704	82·6	46·9	35·7	72·1	54·1	18·0	61·7	52·6	·397	4·4	1·6	73	527	130·1	47·6	0·6	4	3	7	17	5·5	6·5	15	1·80
		Sept.	29·769	1·269	70·4	37·3	33·1	63·7	45·9	17·8	54·2	49·3	·352	4·0	0·7	80	540	113·3	40·6	0·7	7	6	5	12	4·0	5·4	15	2·10
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	Sept.	29·841	1·253	74·0	35·0	39·0	65·2	45·1	20·1	53·7	47·8	·330	3·8	0·9	80	538	100·4	42·0	0·6	6	7	11	6	0·9	4·9	13	2·45
MARLBOROUGH COLLEGE (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	183	July	29·496	0·773	88·2	41·4	46·8	70·1	50·9	19·2	59·3	51·0	·374	4·2	1·5	74	526	140·6	45·7	–	5	1	9	16	3·6	5·9	16	2·15
		Aug.	29·478	0·728	77·3	44·3	33·0	68·3	53·3	15·0	59·0	52·2	·391	4·4	1·2	79	525	135·9	48·9	–	3	0	8	20	6·2	6·9	16	2·52
		Sept.	29·506	1·355	70·8	36·5	34·3	61·4	45·8	15·6	53·3	48·1	·336	3·8	0·7	82	532	115·5	40·7	–	4	6	6	14	5·4	6·1	16	3·14
ROYAL OBSERVATORY (Kent), The Astronomer Royal.	159	July	29·792	0·818	88·7	46·4	42·3	76·6	53·9	22·7	63·4	54·9	·431	4·8	1·7	74	526	138·0	47·6	0·3	2	2	11	16	–	6·0	9	1·85
		Aug.	29·765	0·708	87·3	47·9	39·4	74·7	54·4	20·3	62·7	54·4	·424	4·7	1·6	75	527	128·8	48·7	0·3	2	2	10	17	–	6·3	14	3·18
		Sept.	29·792	1·282	72·5	38·2	34·3	65·2	46·1	19·1	54·7	49·0	·348	4·0	0·8	81	536	110·4	39·4	0·3	6	5	7	12	–	5·6	10	2·52
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.A.S., F.M.S.	150	July	29·845	0·826	93·0	44·5	48·5	75·0	51·0	24·0	61·5	54·3	·410	4·6	1·5	77	529	86·7	–	2·0	2	1	11	17	–	5·3	14	2·67
		Aug.	29·798	0·650	86·8	46·7	40·1	73·9	52·9	21·0	61·8	54·0	·418	4·6	1·5	76	528	84·9	–	1·9	5	1	9	16	–	6·2	22	2·18
ST. JOHN'S COLLEGE, BATTERSEA, Rev. J. P. Faunthorpe, M.A., F.R.G.S.	13	July	29·841	0·731	79·0	45·0	34·0	–	–	–	–	–	–	–	–	–	–	100·6	45·0	1·6	2	3	15	11	–	5·3	8	2·13
		Aug.	29·868	0·656	87·0	44·0	43·0	73·5	51·9	21·6	61·4	60·0	·517	5·7	0·3	95	529	99·8	45·2	1·8	0	1	16	14	–	6·1	15	2·42
		Sept.	29·928	1·264	74·0	37·0	37·0	64·4	43·9	20·5	53·8	52·2	·391	4·4	0·2	94	539	84·6	38·7	1·3	3	5	10	12	–	5·3	8	2·01
CAMDEN TOWN (London), G. J. Symons, Esq., F.M.S.	123	July	29·836	0·746	90·1	45·8	44·3	76·1	54·1	22·0	63·4	53·4	·403	4·5	1·9	72	528	123·3	51·0	–	3	1	12	15	–	5·4	12	1·81
		Aug.	29·813	0·596	86·4	47·7	38·7	73·9	54·6	19·3	62·6	54·5	·425	4·7	1·6	81	528	119·3	51·2	–	3	1	7	20	–	5·5	16	2·87
		Sept.	29·850	1·249	72·0	40·3	31·7	64·9	46·3	18·6	54·5	48·0	·332	3·7	1·1	76	537	105·0	41·8	–	9	4	2	15	–	4·9	11	2·46
CHISWICK (London), Thiselton Dyer, Esq.	25	July	29·929	0·786	89·5	43·5	46·0	74·9	52·3	22·6	62·6	56·7	·461	5·1	1·2	81	529	138·5	48·3	–	2	3	15	11	–	–	11	2·65
		Sept.	29·933	1·255	73·5	35·5	38·0	65·6	44·2	21·4	53·8	47·9	·332	3·7	0·9	80	539	110·6	40·2	–	6	6	9	9	–	–	12	2·32
OXFORD (Oxfordshire), Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	July	29·729	0·667	87·9	45·6	42·3	72·7	53·2	19·5	62·8	54·4	·423	4·7	1·6	74	526	125·2	48·9	0·9	1	2	14	14	2·1	6·6	15	2·26
		Aug.	29·699	0·745	82·0	46·4	35·6	70·8	54·5	16·3	62·0	53·8	·416	4·6	1·6	75	526	125·0	50·6	1·1	2	2	10	17	2·6	7·9	20	2·61
		Sept.	29·738	1·304	68·4	34·9	33·5	62·5	46·0	16·5	54·2	48·1	·354	3·8	0·9	79	535	102·2	42·7	1·0	6	4	9	11	2·4	6·4	14	1·82
GLOUCESTER (Gloucester), E. Toller, Esq., M.D.	100	July	29·884	0·759	91·7	48·5	43·2	73·6	54·6	19·0	63·1	53·0	·402	4·5	2·0	70	529	117·4	52·5	0·6	4	1	11	15	0·9	5·5	13	2·46
		Aug.	29·865	0·729	79·7	48·0	31·7	73·4	56·1	17·3	63·8	55·3	·437	4·8	1·9	71	527	114·1	54·6	0·7	5	1	10	15	1·1	6·7	16	2·17
		Sept.	29·901	1·334	73·9	32·1	41·8	65·4	46·6	18·8	54·9	51·1	·367	4·2	0·7	87	539	·96·8	46·0	0·5	7	4	7	12	0·7	5·1	11	1·07
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	July	29·697	0·838	93·5	45·1	48·4	76·5	51·5	25·0	62·2	54·2	·422	4·7	1·6	78	526	–	–	–	–	–	–	–	–	5·3	7	1·45
		Aug.	29·662	0·690	85·9	46·0	39·9	74·4	52·5	21·9	61·1	54·6	·426	4·8	1·3	79	526	–	–	–	1	2	9	19	–	6·1	16	2·94
		Sept.	29·694	1·314	74·0	34·4	39·6	65·3	45·4	19·9	53·8	48·7	·337	3·8	0·8	81	536	–	–	–	–	–	–	–	–	6·0	12	1·90
CARDINGTON (near Bedford), Mr. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	100	July	29·840	0·733	88·4	42·0	46·4	75·2	52·9	22·3	63·2	56·8	·462	5·1	1·2	81	527	114·7	45·6	1·0	3	1	12	15	–	4·4	–	–
		Aug.	29·810	0·720	83·4	45·4	38·0	73·4	52·8	20·6	61·7	56·6	·458	5·0	1·1	84	528	110·1	46·7	1·0	5	3	7	16	–	6·0	16	2·20
		Sept.	29·841	1·308	70·0	32·4	37·6	63·6	44·5	19·1	53·2	50·4	·366	4·1	0·4	90	538	92·5	36·3	0·8	7	3	8	12	–	4·2	12	1·90
ST. DAVID'S COLLEGE, LAMPETER (Cardiganshire), Prof. A. W. Scott.	420	July	29·465	0·631	89·5	41·0	48·5	69·0	47·1	21·9	57·6	52·1	·391	4·3	0·8	82	527	112·5	–	0·4	1	0	19	11	–	7·2	16	2·79
		Aug.	29·430	0·797	75·0	39·0	36·0	66·8	45·4	21·4	57·1	52·5	·395	4·4	0·9	84	527	110·1	–	0·6	0	0	20	11	–	7·7	18	3·91
		Sept.	29·551	1·188	74·5	32·2	42·3	64·9	41·3	23·6	53·1	45·9	·308	3·4	1·0	76	533	92·0	–	0·5	3	1	11	15	–	6·0	17	2·16
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	50	July	29·892	0·590	86·8	42·3	44·5	74·7	52·4	22·3	62·1	56·7	·461	5·1	1·1	83	529	–	42·1	1·0	3	3	12	13	5·8	4·0	13	1·96
		Aug.	29·853	0·647	84·7	40·3	44·4	73·9	52·7	21·2	61·8	55·5	·441	4·9	1·3	88	529	–	43·6	1·0	4	3	10	14	6·3	4·9	9	1·53
		Sept.	29·894	1·304	73·8	35·3	38·5	65·1	44·2	20·9	54·0	49·8	·357	4·1	0·6	86	538	–	36·6	1·0	6	5	9	10	7·0	5·3	13	2·33

BATTERSEA.—Barometer readings are too low in each month.

LAMPETER.—Barometer readings in September too high by about 0·1 inch.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1873. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
NORWICH (Norfolk), C. M. Gibson, Esq., F.M.S.	42	July	29·886	0·645	92·0	45·0	47·0	74·1	53·3	20·8	62·6	58·0	·482	5·3	1·0	85	528	–	–	–	1	6	11	13	–	–	10	1·98
		Aug.	29·885	0·689	82·5	46·5	36·0	71·2	52·9	18·3	60·8	54·5	·431	4·9	1·1	82	531	–	–	–	1	4	12	14	–	–	12	1·81
		Sept.	29·879	1·316	70·0	36·0	34·0	62·1	45·1	17·0	53·0	50·8	·371	4·2	0·4	92	539	–	–	–	7	3	8	12	–	–	12	3·09
WISBECH (Cambridgeshire), S. H. Miller, Esq., F.R.A.S., F.M.S.	14	July	29·909	0·702	88·4	44·6	43·8	75·8	53·2	22·6	63·7	56·7	·462	5·1	1·5	76	528	127·4	46·8	0·5	1	3	14	13	3·0	5·5	12	2·51
		Aug.	29·876	0·772	82·7	46·0	36·7	72·5	53·4	19·1	61·7	54·4	·425	4·7	1·5	76	527	122·8	49·7	0·7	1	5	12	13	3·3	6·1	13	4·02
		Sept.	29·911	1·338	72·8	36·1	36·7	64·3	45·4	18·9	53·8	50·0	·360	4·1	0·6	86	538	111·3	41·2	0·6	4	4	8	14	3·1	5·3	12	1·87
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	100	July	29·773	0·650	93·0	48·4	44·6	70·4	54·4	16·0	60·7	53·1	·403	4·5	1·4	76	529	–	–	0·6	3	1	8	19	–	6·0	15	2·28
		Aug.	29·751	0·847	76·0	49·6	26·4	68·2	54·3	13·9	60·1	53·7	·413	4·6	1·2	80	529	–	–	0·7	2	2	6	21	–	7·0	18	2·44
		Sept.	29·815	1·303	75·5	41·0	34·5	62·5	48·8	13·7	54·8	47·3	·325	3·7	1·0	75	536	–	–	0·7	9	4	4	13	–	5·4	16	2·65
DERBY (Derbyshire), John Davis, Esq.	174	July	29·716	0·671	88·0	46·0	42·0	71·1	54·4	16·7	61·3	54·3	·421	4·7	1·4	78	527	119·0	–	–	3	1	13	14	–	–	15	2·14
		Aug.	29·688	0·806	78·0	47·0	31·0	68·1	54·4	13·7	59·8	53·1	·403	4·5	1·3	79	528	116·0	–	–	2	2	10	17	–	–	23	2·92
		Sept.	29·730	1·345	70·0	35·0	35·0	61·3	45·8	15·5	52·4	49·4	·354	4·0	0·5	89	537	104·2	–	–	5	3	7	15	–	–	14	1·58
NOTTINGHAM (Notts), M.O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	183	July	29·636	0·552	90·4	44·1	46·3	72·2	52·6	19·6	61·1	51·9	·387	4·3	1·7	72	527	134·1	45·6	0·8	2	0	9	20	3·0	5·5	18	2·80
		Aug.	29·612	0·675	81·2	45·4	35·8	70·2	52·5	17·7	59·9	51·4	·381	4·3	1·5	74	528	124·8	44·9	0·7	3	2	8	18	2·0	6·7	23	2·68
		Sept.	29·645	1·346	73·1	30·1	43·0	63·1	43·8	19·3	52·8	46·9	·314	3·6	1·0	79	538	106·5	36·9	0·5	5	4	6	15	1·4	6·0	19	1·59
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	39	July	28·876	0·737	85·2	44·8	40·4	72·2	53·3	18·9	62·2	52·7	·400	4·4	1·8	72	529	145·5	46·8	1·4	2	1	17	10	–	5·8	11	2·11
		Aug.	29·842	0·714	84·2	43·5	40·7	70·3	52·2	18·1	60·4	50·3	·365	4·1	1·8	69	531	136·8	47·1	1·6	3	2	13	13	–	6·0	11	1·75
		Sept.	29·884	1·349	71·5	30·5	41·0	63·8	44·1	19·7	53·2	47·6	·330	3·7	0·9	82	539	117·4	40·4	1·4	7	2	10	11	–	5·2	12	2·75
HAWARDEN (Flint), T. Moffat, Esq., M.D., F.R.A.S.	270	July	29·588	0·645	89·5	49·0	40·5	69·1	56·7	12·4	60·9	55·5	·441	5·0	1·1	83	525	128·9	39·2	2·3	1	1	15	14	0·8	6·8	18	1·48
		Aug.	29·573	0·785	78·0	50·0	28·0	67·1	56·7	10·4	60·4	54·3	·425	4·7	1·2	81	522	124·5	38·8	2·4	6	2	11	12	1·1	7·0	22	3·27
LIVERPOOL OBSERVATORY, John Hartnup, Esq., F.R.A.S.	197	July	29·751	0·581	89·1	46·9	42·2	68·9	54·4	14·5	60·2	51·0	·375	4·2	1·7	72	529	–	–	1·2	2	4	11	14	–	6·0	17	2·91
		Aug.	29·688	0·780	75·5	48·5	27·0	65·3	54·5	10·8	58·2	52·3	·393	4·4	1·1	81	530	–	–	1·3	2	5	7	17	–	6·9	26	2·76
		Sept.	29·734	1·279	70·8	41·0	29·8	60·2	48·6	11·6	53·3	46·9	·320	3·6	1·0	79	536	–	–	1·3	5	7	8	10	–	5·2	19	3·54
ECCLES (near Manchester), T. Mackereth, Esq., F.R.A.S., F.M.S.	145	July	29·741	0·735	91·5	43·4	48·1	70·3	52·3	18·0	60·3	52·8	·400	4·6	1·4	76	529	85·8	44·9	0·2	2	0	12	17	1·2	6·1	19	4·32
		Aug.	29·709	0·729	77·5	46·4	31·1	67·5	52·3	15·2	58·7	51·0	·366	4·1	1·4	74	530	80·7	45·1	0·3	5	3	9	14	2·4	7·6	28	4·15
		Sept.	29·761	1·185	74·8	31·7	43·1	62·3	44·7	17·6	52·6	46·2	·313	3·6	1·0	79	538	73·7	33·9	0·4	6	3	7	14	1·6	5·1	20	2·31
MOOR SIDE OBSERVATORY, HALIFAX (Yorkshire), Louis J. Crossley, Esq., F.M.S.	429	July	29·390	0·628	88·3	45·5	42·8	69·2	52·2	17·0	59·9	50·7	·372	4·1	1·7	71	523	107·5	46·9	–	3	2	10	16	3·2	6·7	17	2·91
		Aug.	29·376	0·751	78·4	46·2	27·2	65·0	52·3	12·7	56·6	53·5	·415	4·6	0·5	90	519	160·7	47·6	–	–	–	–	–	4·0	8·0	25	2·72
		Sept.	29·416	1·302	70·6	32·5	38·1	59·7	44·6	15·1	51·2	46·7	·321	3·6	0·5	85	533	91·8	39·0	–	7	4	3	16	2·0	6·2	15	2·27
BERMERSIDE OBSERVATORY, (Halifax), Edward Crossley, Esq., F.R.A.S.	520	Aug.	29·316	0·826	75·0	45·0	30·0	66·5	50·5	16·0	56·6	51·2	·377	4·2	0·9	82	525	109·3	47·7	0·7	2	4	10	15	–	7·9	23	3·34
		Sept.	29·330	1·309	73·0	31·5	41·5	60·4	43·6	16·8	51·0	46·7	·321	3·6	0·6	85	531	99·2	39·2	0·8	4	3	6	17	–	6·3	16	2·46
THE PARK, HULL (Yorkshire), Mr. E. Peak.	12	July	29·880	0·791	84·0	44·0	40·0	73·2	53·3	19·9	61·8	56·5	·457	5·0	1·2	83	529	102·9	50·1	–	–	–	–	–	1·9	–	16	3·52
		Aug.	29·831	0·687	77·0	43·0	34·0	68·7	52·4	16·3	59·5	55·6	·439	4·9	0·8	87	531	97·7	49·8	–	–	–	–	–	2·2	–	14	3·10
		Sept.	29·899	1·383	70·0	28·0	42·0	61·4	44·6	16·8	52·5	47·5	·329	3·7	0·7	83	540	86·5	41·3	–	–	–	–	–	1·8	–	12	0·22
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.A.S., F.M.S.	363	July	29·501	0·698	88·2	43·9	44·3	68·9	51·7	17·2	58·7	55·0	·455	4·8	0·7	88	526	126·7	46·4	–	2	1	12	16	–	7·8	27	4·81
		Aug.	29·464	0·719	71·8	44·4	27·4	65·9	51·6	14·3	58·2	53·8	·416	4·6	0·8	85	533	119·3	47·4	–	2	4	7	18	–	8·2	29	6·38
		Sept.	29·516	1·309	70·4	32·0	38·4	60·8	44·8	16·0	52·6	47·3	·326	3·7	0·8	82	541	115·2	40·3	–	4	4	9	13	–	6·3	25	2·82
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	366	July	29·493	0·574	88·8	49·2	39·6	71·2	55·0	16·2	61·4	51·9	·387	4·3	1·8	72	523	92·9	–	–	–	–	–	–	–	4·1	14	2·26
		Aug.	29·429	0·779	79·5	49·0	30·5	67·7	54·8	12·9	59·2	55·8	·445	5·0	0·8	89	524	91·5	–	–	–	–	–	–	–	5·8	16	2·93
		Sept.	29·508	1·310	72·4	36·6	35·8	61·7	46·2	15·5	52·0	48·2	·338	3·8	0·6	87	534	85·0	–	–	–	–	–	–	–	5·0	13	1·32
LEEDS PHILOSOPHICAL HALL (Yorkshire), Louis C. Miall, Esq.	137	July	29·740	0·581	96·0	47·0	49·0	74·8	55·2	19·6	64·8	53·8	·416	4·6	2·2	68	524	81·1	–	1·4	4	1	8	18	–	6·1	15	2·62
		Aug.	29·709	0·789	79·0	48·0	31·0	70·1	53·5	16·6	61·3	53·8	·415	4·6	1·4	77	527	77·9	–	1·2	6	3	6	16	–	7·8	21	1·96
		Sept.	29·755	1·321	75·0	37·0	38·0	62·9	45·7	17·2	54·2	48·9	·341	3·9	0·8	82	536	72·2	–	1·2	8	5	5	12	–	6·7	17	1·63
COCKERMOUTH (Cumberland), R. Dodgson, Esq., M.D., F.R.A.S., F.M.S.	148	July	29·662	0·706	89·1	46·7	42·4	67·7	53·9	13·8	60·2	53·2	·404	4·5	1·2	78	522	109·1	47·8	0·5	2	2	16	11	2·2	5·7	21	4·42
		Aug.	29·624	0·794	72·1	36·4	32·7	65·3	52·9	12·3	58·9	52·4	·396	4·3	1·2	80	530	106·6	43·1	0·6	4	4	11	12	2·5	6·6	24	5·23
		Sept.	29·705	1·322	74·6	33·9	40·1	61·6	45·8	15·1	53·4	46·1	·311	3·5	1·0	76	536	100·1	38·5	0·5	9	4	6	11	1·8	4·6	11	1·61

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1873. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
ALLENHEADS (Northumberland), Mr. S. Stobbs, Assistant to W. B. Beaumont, Esq., M.P.	1360	July	28·424	0·514	84·5	43·5	41·0	68·4	50·4	18·0	57·5	48·8	·344	3·8	1·6	70	508	120·8	46·8	1·3	–	–	–	–	–	3·6	17	2·34
		Aug.	28·344	0·628	67·0	42·0	25·0	63·0	49·4	13·6	54·1	46·6	·316	3·6	1·1	75	512	108·4	46·4	1·8	–	–	–	–	–	6·0	23	4·05
		Sept.	28·377	1·173	69·5	33·0	36·5	57·9	41·7	16·2	48·5	43·7	·285	3·2	0·4	84	517	97·1	37·9	1·9	–	–	–	–	–	4·8	16	3·11
SILLOTH RECTORY (Cumberland), Rev. Francis Redford, M.A., F.R.A.S., F.M.S.	28	July	29·793	0·676	88·0	44·0	44·0	72·1	52·6	19·5	60·5	54·0	·417	4·7	1·2	80	530	108·0	48·4	1·3	1	2	13	15	7·0	6·3	23	3·93
		Aug.	29·764	0·712	74·3	46·0	28·3	69·0	52·8	16·2	59·6	52·8	·400	4·5	1·2	79	530	103·9	48·7	1·5	0	3	8	20	9·3	6·6	21	4·76
		Sept.	29·826	1·293	74·0	34·0	40·0	65·0	45·5	19·5	54·4	45·6	·304	3·5	1·4	77	538	101·6	40·8	1·1	4	8	3	15	7·0	4·8	15	2·36
CARLISLE (Cumberland), J. Cartmell, Esq., F.M.S.	114	July	29·737	0·856	95·0	41·5	53·5	70·2	51·4	18·8	59·5	54·0	·418	4·7	1·0	83	529	105·1	46·9	1·8	3	2	10	16	5·7	6·9	19	5·09
		Aug.	29·702	0·757	74·7	42·8	31·9	66·4	50·9	15·5	58·4	52·3	·393	4·4	1·0	80	530	95·2	47·1	2·4	3	5	6	17	6·0	7·1	25	4·35
		Sept.	29·756	1·202	75·8	31·6	44·2	61·4	43·5	17·9	52·6	46·6	·319	3·6	0·9	80	538	86·1	37·7	1·8	4	4	5	17	5·7	5·4	17	2·57
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	July	29·714	0·531	88·0	49·0	39·0	71·1	56·5	14·6	61·1	49·9	·359	4·0	2·0	68	528	102·0	50·0	1·1	3	5	7	16	–	3·4	17	2·22
		Aug.	29·680	0·436	77·0	48·0	29·0	68·1	55·2	12·9	60·0	50·6	·369	4·1	1·7	71	530	99·8	55·2	1·4	–	–	–	–	–	4·3	27	2·49
		Sept.	29·726	1·228	76·0	34·0	42·0	62·9	46·7	16·2	53·2	45·8	·309	3·5	1·1	76	536	76·8	39·2	1·3	7	4	3	16	–	4·1	18	2·19
NORTH SHIELDS (Northumberland), Robert Spence, Esq.,	124	July	29·748	0·625	75·6	46·2	29·4	67·3	53·6	13·7	59·3	50·4	·367	4·1	1·5	73	530	–	52·0	1·8	5	2	7	17	–	5·4	16	2·27
		Aug.	29·739	0·678	72·0	45·0	27·0	64·1	52·6	11·5	56·8	49·2	·350	4·0	1·2	76	533	–	50·9	1·8	6	2	5	18	–	6·4	24	3·47
		Sept.	29·778	1·137	68·0	37·2	30·8	58·9	46·6	12·3	51·6	45·0	·300	3·4	0·9	78	539	–	44·7	4·6	11	2	3	14	–	4·6	15	2·16
MILTOWN (Banbridge, Ireland), John Smyth, Esq., jun., M.A., M.I.C.E.I.	200	July	29·370	0·365	76·0	43·0	33·0	65·5	51·7	14·8	57·5	51·0	·374	4·2	1·1	79	528	115·1	48·4	2·3	3	2	20	6	–	5·0	27	4·13
		Aug.	29·889	0·748	71·0	46·0	25·0	63·9	51·7	12·2	57·3	52·0	·388	4·3	0·9	82	529	105·0	49·3	2·3	2	5	12	12	–	5·9	28	4·41
		Sept.	29·672	1·189	69·0	32·0	37·0	60·0	44·5	15·5	52·8	46·5	·318	3·6	0·9	80	536	103·4	40·4	1·9	6	4	9	11	–	3·6	13	2·68

NOTE.—*The Barometer Reading*, Bradford, September 15th, 3h. p.m., 29·944 in. has been altered to 28·944 in.

Gloucester.—From August 15th to September 6th no thermometric observations; values not included in quarterly mean.

Bywell.—August. Means deduced from 14 days observations, viz., 1st to 14th. The barometric mean is 29·787 in., but the true mean for the month would be about 29·68 in., and which value has been used in forming quarterly value.

Nottingham.—The mean monthly values of barometer have been corrected by the application of −0·063 in. to reduce them to the height of 241 feet above sea level to accord with previous series. In foot note to last Quarterly Report for *additively* read *subtractively*.

Second Rain-gauges are placed—

			July.	August.	September.	Total during the Quarter.
At Eastbourne,	at the height of 160 feet	*above the sea*,	the amount collected was 1·71 inches.	— inches.	— inches.	— inches.
„ Beachy Head,	„ 515 feet	„	„ 0·97 „	— „	— „	— „
„ „ „	„ 495 feet	„	„ 1·14 „	— „	— „	— „
„ Portsmouth,	„ 20 feet	*above the ground*	„ — „	— „	— „	— „
„ Strathfield Turgiss,	„ 38 feet	„	„ 1·35 „	1·22 „	1·64 „	4·21 „
„ Eccles, Manchester,	„ 34 feet	„	„ 3·79 „	3·38 „	1·89 „	9·06 „
„ Carlisle,	„ 3 feet	„	„ 3·69 „	2·77 „	2·31 „	8·68 „
„ Miltown, Ireland,	„ 40 feet	„	„ 3·33 „	— „	2·50 „	— „
„ Radcliffe Observatory,	„ 22 feet	„	„ 2·19 „	2·21 „	1·60 „	6·00 „
„ Marlborough College,	„ 8 inches	„	„ 2·06 „	2·46 „	3·05 „	7·57 „
„ „ „	„ 1 foot	„	„ 2·03 „	2·35 „	2·97 „	7·35 „
„ Cardington,	„ 36 feet	„	„ — „	2·00 „	1·65 „	— „
„ Nottingham,	„ 25½ feet	„	„ 2·63 „	2·57 „	1·46 „	6·66 „
„ Wisbech,	„ 8 feet	„	„ 2·47 „	4·00 „	1·89 „	8·36 „
„ Aldershot Camp,	„ 25 feet	„	„ 1·52 „	1·55 „	2·11 „	5·18 „

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind: Mean Estimated Strength.	Wind: Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain: Number of Days on which it fell.	Rain: Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey - - -	29·586	81·0	48·5	32·5	65·2	55·7	22·5	9·5	59·5	53·9	·417	4·6	1·1	82	530	—	—	1·2	5	4	10	11	3·8	4·8	40	[illegible]
Helston - - -	29·677	80·0	45·0	35·0	69·4	53·9	30·3	15·5	60·1	53·7	·414	4·8	1·1	76	529	90·5	49·9	2·2	4	4	10	12	4·2	4·4	50	[illegible]
Truro - - -	29·621	81·0	40·0	41·0	66·5	53·2	34·0	13·3	58·2	51·8	·386	4·3	1·1	80	535	—	—	2·6	5	4	5	16	—	6·1	61	[illegible]
Sidmouth - - -	29·553	77·0	43·8	33·2	65·3	52·8	26·5	12·5	58·3	54·5	·430	4·9	0·6	88	538	—	—	1·5	6	2	8	14	—	3·5	43	[illegible]
Osborne - - -	29·585	86·7	43·6	43·1	69·7	53·9	33·7	15·8	60·1	54·2	·422	4·7	1·1	81	530	103·8	43·7	0·1	3	4	9	14	—	6·0	41	[illegible]
Bournemouth - -	—	78·7	41·0	37·7	66·5	54·0	41·0	12·5	59·5	51·9	·387	4·3	1·2	76	534	—	—	—	3	2	7	19	—	2·7	39	[illegible]
Worthing - - -	29·569	77·3	43·5	33·8	67·1	54·2	26·6	12·9	60·0	53·5	·411	3·6	1·2	79	530	117·2	58·9	1·0	3	4	8	16	3·9	5·1	35	[illegible]
Brighton - - -	29·597	81·0	44·0	37·0	68·0	53·8	26·8	14·1	59·9	52·1	·392	4·3	1·4	76	530	119·9	47·1	1·1	3	4	10	14	—	5·9	37	[illegible]
Lymington - -	29·562	82·8	40·3	42·5	68·2	52·3	34·5	15·9	59·6	51·2	·412	4·2	1·5	74	532	—	49·0	1·5	4	4	9	14	—	5·3	27	[illegible]
Taunton - - -	29·560	95·0	36·0	59·0	69·6	50·9	41·7	18·7	59·3	52·2	·392	4·4	1·3	87	532	80·3	45·1	0·3	5	3	5	17	5·2	6·4	51	[illegible]
Wilton House - -	29·551	89·0	35·0	54·0	71·6	48·2	44·0	23·4	58·8	54·1	·420	4·7	0·9	84	530	114·7	45·8	1·3	3	3	9	15	—	6·1	42	[illegible]
Barnstaple - - -	29·514	83·5	41·0	42·5	68·0	54·3	33·2	13·7	59·5	55·0	·437	4·8	0·8	86	532	—	—	1·2	1	4	13	12	—	3·9	65	[illegible]
Aldershot Camp -	29·570	89·6	37·8	51·8	71·5	51·4	39·7	20·1	59·8	51·7	·386	4·3	1·5	75	527	119·4	49·1	1·6	4	3	10	14	—	6·7	40	[illegible]
Strathfield Turgiss -	29·588	87·7	37·3	50·4	69·6	50·8	47·7	18·8	59·2	51·5	·382	4·3	1·3	75	533	125·0	45·1	0·6	4	4	7	15	5·2	5·6	37	[illegible]
Marlborough College	29·616	88·2	36·5	51·7	66·6	51·0	38·0	16·6	57·2	50·4	·367	4·1	1·1	78	528	130·7	45·1	—	4	2	8	17	5·1	6·3	48	[illegible]
Royal Observatory -	29·554	88·7	38·2	50·5	72·2	51·5	48·7	20·7	60·3	52·8	·401	4·5	1·4	77	530	125·7	45·2	0·3	3	3	9	15	—	6·0	33	[illegible]
Battersea - - -	—	87·0	37·0	50·0	—	—	38·0	—	—	—	—	—	—	—	—	95·0	43·0	1·6	2	3	14	12	—	5·6	31	[illegible]
Camden Town - -	29·570	90·1	40·3	49·8	71·6	51·7	38·2	19·9	60·2	52·0	·385	4·3	1·5	76	531	115·8	48·0	—	5	2	7	17	—	5·3	39	[illegible]
Oxford - - -	29·557	87·9	34·9	53·0	68·6	51·2	37·1	17·4	59·7	52·1	·391	4·4	1·4	76	529	117·5	47·4	1·0	3	3	11	14	2·4	7·0	49	[illegible]
Royston - - -	29·579	93·5	34·4	59·1	72·1	49·8	42·6	22·3	59·0	52·5	·395	4·4	1·2	79	509	—	—	—	—	—	—	—	—	5·8	35	[illegible]
Cardington - -	29·511	88·4	32·4	56·0	70·7	50·1	40·7	20·6	59·4	54·6	·429	4·7	0·9	85	531	105·8	42·9	0·7	5	2	9	14	—	4·9	—	[illegible]
Lampeter - - -	—	89·5	32·2	57·3	66·9	44·6	42·3	22·3	55·9	50·2	·365	4·0	0·9	81	529	101·9	—	0·5	1	—	17	12	—	7·0	51	[illegible]
Somerleyton Rectory	29·513	86·8	35·3	51·5	71·2	49·8	42·5	21·4	59·3	54·0	·420	4·7	1·0	86	532	—	40·8	1·0	4	4	10	12	6·4	4·7	35	[illegible]
Norwich - - -	29·519	92·0	36·0	56·0	69·1	50·4	39·0	18·7	58·8	54·4	·428	4·8	0·8	86	533	—	—	—	3	4	10	13	—	—	34	[illegible]
Wisbech - - -	29·526	88·4	36·1	52·3	70·9	50·7	39·1	20·2	59·7	53·7	·416	4·6	1·2	79	531	120·5	45·9	0·6	2	4	11	13	3·1	5·6	37	[illegible]
Llandudno - -	29·508	93·0	41·0	52·0	67·0	52·5	35·2	14·5	58·5	51·4	·380	4·3	1·2	77	531	—	—	0·7	5	2	6	18	—	6·1	49	[illegible]
Derby - - -	29·508	88·0	35·0	53·0	66·8	51·5	36·0	15·3	57·8	52·3	·393	4·4	1·1	82	531	113·1	—	—	3	2	10	15	—	—	52	[illegible]
Nottingham - -	29·529	90·4	30·1	60·3	68·5	49·6	41·7	18·9	57·9	50·1	·361	4·1	1·4	75	531	121·8	42·5	0·7	3	2	8	18	2·1	6·1	60	[illegible]
Holkham - - -	29·867	85·2	30·5	54·7	68·8	49·9	40·7	18·9	58·6	50·2	·365	4·1	1·5	74	533	133·2	44·8	1·5	4	2	13	11	—	5·7	34	[illegible]
Liverpool - - -	29·564	89·1	41·0	48·1	64·8	52·5	33·0	12·3	57·2	50·1	·363	4·1	1·3	77	532	—	—	1·3	3	5	9	14	—	6·0	62	[illegible]
Eccles - - -	29·537	91·5	31·7	59·8	66·7	49·8	40·8	16·9	57·2	50·0	·360	4·1	1·3	76	532	89·1	41·3	0·3	4	2	9	15	1·7	6·3	67	[illegible]
Moorside - - -	29·495	88·3	32·5	55·8	61·6	49·7	36·0	14·9	55·9	50·3	·369	4·1	0·9	82	525	100·0	44·5	—	—	—	—	—	3·1	7·0	57	[illegible]
Hull - - -	29·463	84·0	28·0	56·0	67·8	50·1	38·7	17·7	57·9	53·2	·408	4·5	0·9	84	533	99·0	47·1	—	—	—	—	—	2·0	—	42	[illegible]
Stonyhurst - -	29·504	88·2	32·0	56·0	65·2	49·4	36·7	15·8	56·5	52·0	·399	4·3	0·8	85	537	120·4	44·7	—	3	3	9	15	—	7·8	81	[illegible]
Bradford - - -	29·477	88·8	36·6	52·2	66·8	52·0	35·3	14·8	57·9	52·0	·394	4·3	1·1	82	527	89·8	—	—	—	—	—	—	—	5·0	43	[illegible]
Leeds - - -	29·485	96·0	37·0	59·0	69·3	51·5	39·3	17·8	60·1	52·2	·391	4·3	1·5	76	529	77·1	—	1·3	6	3	6	15	—	7·8	53	[illegible]
Cockermouth - -	29·531	89·1	33·9	55·2	64·7	50·9	38·4	13·8	57·5	50·6	·370	4·1	1·1	78	529	105·3	44·4	0·5	5	3	11	11	2·2	5·6	56	[illegible]
Allenheads - -	29·468	84·5	33·0	51·5	63·1	47·2	34·2	15·9	53·4	46·4	·315	3·5	1·0	76	512	108·8	43·7	1·7	—	—	—	—	—	4·8	56	[illegible]
Silloth - - -	29·484	88·0	34·0	54·0	68·7	50·3	37·4	18·4	58·2	50·8	·340	4·2	1·3	79	533	104·5	46·0	1·3	2	4	8	17	7·8	5·9	59	[illegible]
Carlisle - - -	29·477	95·0	31·6	63·4	66·0	48·6	43·2	17·4	56·8	51·0	·377	4·2	1·0	81	532	95·5	43·9	2·0	3	4	7	17	5·8	6·5	61	[illegible]
Bywell - - -	29·453	88·0	34·0	54·0	67·4	53·8	36·6	14·6	58·1	48·8	·346	3·9	2·3	73	531	92·9	41·5	1·3	—	—	—	—	—	3·9	62	[illegible]
North Shields - -	29·548	75·6	37·2	38·4	63·4	50·9	29·1	12·5	55·9	48·2	·339	3·8	1·2	76	534	—	49·2	2·7	7	2	5	16	—	5·5	55	[illegible]
Miltown (Ireland) -	29·464	76·0	32·0	44·0	63·5	49·3	31·7	14·2	56·0	49·8	·360	4·0	1·0	80	531	107·8	46·0	2·2	4	4	14	9	—	—	68	[illegible]

The highest temperatures of the air were at Leeds, 96°·0; Taunton and Carlisle, 95°·0 respectively; Royston, 93°·5; Llandudno, 93°·0; Norwich, 92°·0; and at Eccles, 91°·5.

The lowest temperatures of the air were at Hull, 28°·0; Nottingham, 30°·1; Carlisle, 31°·6; Eccles, 31°·7; Stonyhurst and Miltown, 32°·0 respectively; Cardington, 32°·4; Moorside, 32°·5; Allenheads, 33°·0; and at Cockermouth, 33°·9.

The greatest daily ranges of the temperatures of the air were at Wilton House, 23°·4; Royston, 22°·3; Somerleyton, 21°·4; Royal Observatory, 20°·7; Cardington, 20°·6; and at Wisbech, 20°·2.

The least daily ranges of the temperatures of the air were at Guernsey, 9°·5; Liverpool, 12°·3; Sidmouth, Bournemouth, and North Shields, 12°·5 respectively; and at Worthing, 12°·9.

The greatest numbers of rainy days were at Stonyhurst, 81; Miltown, 68; Eccles, 67; Barnstaple, 65; Liverpool and Bywell, 62 respectively; Truro and Carlisle, 61 respectively; Nottingham, 60; and at Silloth, 59.

The least numbers of rainy days were at Lymington, 27; Royal Observatory, 33; Norwich, 34; Worthing, Royston, and Somerleyton, 35 respectively; and at Strathfield Turgiss and Wisbech, 37 respectively.

The heaviest falls of rain were at Barnstaple, 14·85 inches; Stonyhurst, 14·01 inches; Carlisle, 12·01 inches; Miltown, 11·29 inches; Cockermouth, 11·26 inches; Silloth, 11·05 inches; Helston, 11·02 inches; Eccles, 10·78 inches; and at Guernsey, 10·77 inches.

The least falls of rain were at Strathfield Turgiss, 5·79 inches; Somerleyton, 5·82 inches; Worthing, 5·91 inches; Wilton House, 6·04 inches; Osborne, 6·06 inches; Leeds, 6·21 inches; Royston, 6·29 inches; and at Bradford, 6·51 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind: Mean Estimated Strength.	Wind: Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain: Mean Number of Days it fell.	Rain: Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey - - - -	29·586	81·0	48·5	32·5	65·2	55·7	22·5	9·5	59·5	53·9	·417	4·6	1·1	82	530	—	—	1·2	5	4	10	11	3·8	4·8	40	[illegible]
Between the latitudes 50° and 51° -	29·595	80·6	42·6	38·0	67·6	53·5	31·7	14·1	59·5	52·9	·407	4·4	1·1	79	532	107·8	49·7	1·4	4	4	8	15	4·0	4·8	42	[illegible]
51° and 52° -	29·564	88·8	37·4	51·4	69·9	51·2	41·3	18·7	59·3	52·4	·396	4·4	1·2	79	530	103·2	46·4	0·9	4	3	9	15	4·5	6·0	45	[illegible]
52° and 53° -	29·532	90·0	35·8	54·2	69·7	50·7	39·3	19·0	58·9	53·3	·409	4·6	1·1	82	528	113·1	43·2	0·7	4	3	9	14	4·8	5·4	40	[illegible]
53° and 54° -	29·504	89·4	34·1	55·3	66·4	50·7	37·1	15·7	57·5	51·4	·383	4·2	1·1	80	531	94·4	44·4	0·9	4	3	9	14	2·3	6·6	58	[illegible]
54° and 55° -	29·483	88·9	33·3	55·6	66·0	50·2	37·9	15·8	56·8	49·5	·350	4·0	1·3	77	525	101·2	43·9	1·3	3	4	9	15	5·2	5·3	59	[illegible]
North Shields - - -	29·548	75·6	37·2	38·4	63·4	50·9	29·1	12·5	55·9	48·2	·339	3·8	1·2	76	534	—	49·2	2·7	7	2	5	16	—	5·5	55	[illegible]
Miltown, Banbridge (Ireland) -	29·464	76·0	32·0	44·0	63·5	49·3	31·7	14·2	56·0	49·8	·360	4·0	1·0	80	531	107·8	46·0	2·2	4	4	14	9	—	4·8	68	[illegible]
Mean for the Quarter, 50° to 55°: Year 1870	29·619	86·1	37·2	48·9	70·1	51·3	33·5	18·8	59·6	52·0	·390	4·3	1·4	76	531	108·5	44·6	1·0	8	6	6	11	3·7	4·7	29	[illegible]
" 1871	29·517	84·5	36·9	47·6	67·0	50·2	37·0	16·8	58·9	52·2	·394	4·4	1·2	79	530	108·7	46·8	1·0	5	6	8	12	4·0	5·5	44	[illegible]
" 1872	29·489	85·2	34·3	50·9	68·9	52·2	41·4	16·7	59·3	52·7	·403	4·5	1·2	79	529	108·7	46·4	1·1	6	5	8	12	3·4	5·6	46	[illegible]
" 1873	29·536	87·5	36·6	50·9	67·9	51·3	37·5	16·6	58·4	51·9	·389	4·3	1·2	79	529	103·9	45·5	1·0	4	3	9	15	4·2	5·6	49	[illegible]

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING DECEMBER 31, 1873.

Remarks on the Weather during the Quarter ending December 31st, 1873.

By James Glaisher, Esq., F.R.S., *&c.*

Till the 7th day of October there was an excess of mean temperature of the average amount of 3¼° daily; the 8th and 9th days were cold, and the 10th and 11th were warm, the deficiency of temperature of the first two of these four days being 7¾°, and the excess in the last two being of the same amount, viz., 7¾°. A lengthened cold period followed of more than a month's duration, extending from October 12th to November 16th, and the average daily deficiency of mean temperature was 3½°; then from November 17th to December 7th the weather was mostly warm, and the excess of daily mean temperature was 3°·1. A week of very severe cold weather ensued, the deficiency of temperature on the 9th, 10th, and 11th being 11½°, 16½°, and 12½° respectively; and these days in London were distinguished by a most remarkable continuance of very dense fog. The fog of the 9th was darker in colour and more dense than I have ever known a fog or cloud to be before.

In the seven days ending with the 14th the average daily deficiency was 8¾°. A warm period then set in, and continued with slight exception to the end of the year; some of the days were very warm, particularly the 16th, 17th, and 18th, when the daily temperatures were 10°·8, 10°·0, and 10°·6 in excess over their respective averages. The mean temperature of these three days was 24° higher than that of the three days a week before, viz., the 9th, 10th, and 11th. The mean excess of daily temperature above their averages for the last 17 days of the year was as large as 4½°.

The mean temperature for the month of October at Greenwich was 6°·9 below that of September; that of November was 3°·6 below that of October; and that of December was 3°·6 below that of November. The mean decrease from all stations from September to October was 6°·4; and from October to November was 3°·6. In December at several northern stations it was warmer, by from 1° to 2° than in November, whilst it was colder at all southern stations to the amount of 3° or 4°.

The readings of the barometer at 159 feet above the sea level were very variable during the early part of October, but the movements were not of any great magnitude, and the departures on either side of the average of the mean daily values rarely exceeded one or two tenths of an inch. On the 19th readings slightly exceeding 30 in. were registered, but on this day a fall set in, and continued during the 20th, 21st, and 22d, reaching its minimum (about 28·8 in.) about noon on the 23d. On the 29th, 30·1 in. was recorded, but by the 1st November the reading had decreased to 29·0 in. The range of reading during October amounted to 1·56 in.

A general increase was experienced till the 17th November, the mean readings for the 16th and 17th being half an inch in excess of the average, but during the remainder of the month several waves of high and low values occurred, a general tendency, however, being shown to decrease. On the 1st December the readings passed above 30 in., and till the 14th continued with but very few exceptions in excess of 30·3 in., and for some days even in excess of 30·4 in. The departures of the mean daily values for this period above the average were as follows: 1st, 0·59 in.; 2d, 0·62 in.; 3d, 0·68 in.; 4th, 0·66 in.; 5th, 0·48 in.; 6th, 0·54 in.; 7th, 0·64 in.; 8th, 0·66 in.; 9th, 0·62 in.; 10th, 0·61 in.; 11th, 0·66 in.; 12th, 0·67 in.; 13th, 0·64 in.; and 14th, 0·46 in. From the 15th onwards many oscillations occurred, but with very few exceptions the readings remained above 29·6 in. The range of reading during December amounted to 1·07 in.

The mean decrease of readings of the barometer from all stations from September to October was 0·112 in.; from October to November there was a decrease at southern stations, and an increase at northern; from November to December there was an increase everywhere, to the average amount of 0·355 in.

Rain fell almost daily in October from the 7th to the 13th and from the 19th to the 24th; and in November to the 10th day, and occasionally after the 18th. In December till the middle of the month there was no rain, and only a few slight showers fell subsequently, the total fall in the month being only 0·3 inch, and less than in any December back to 1829, when it was 0·1 inch; this is the only instance back to 1815 of a smaller fall than in the present December. The fall of rain over the whole country in these three months was but little more than one half of the fall in the same months in the year 1872.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter, were as follows:—

Direction of Wind.	October. Average.	October. 1873.	October. Departure from Average.	November. Average.	November. 1873.	November. Departure from Average.	December. Average.	December. 1873.	December. Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	2	1	−1	2	2	0	2	1	−1
N.	3	3	0	3¾	1	−2¾	2¾	1	−1¾
N.E.	2½	4	+1½	3½	5	+1½	2	1	−1
E.	1¼	1	−¼	2	7	+5	1¾	1	−¾
S.E.	1¾	1	−¾	2	2	0	1¾	1	−¾
S.	3½	3	−½	3½	3	−½	3	3	0
S.W.	9	13	+4	7¼	6	−1¼	9¾	12	+2¼
W.	4¼	5	+¾	2	4	+2	4	10	+6
Calm, nearly.	3¾	0	−3¾	3½	0	−3½	4	1	−3

The + signs, denoting excesses over averages, are confined in October to N.E., S.W., and W.; in November to N.E., E., and W.; and in December to S.W. and W. The prevalence of − signs attached to the numbers opposite the compounds of the N. and E. winds indicates the general deficiency of those winds below their averages in October, and especially in the month of December.

The mean temperature of October was 47°·8, being 1°·8 lower than the average of 102 years, the same as the corresponding value in 1872, but lower than in 1871 by 1°·6.

The mean temperature of November was 44°·2, being 1°·9 higher than the average of the preceding 102 years, lower than in 1872 by 1°·1, but higher than in 1871 by 6°·6.

The mean temperature of December was 40°·6, being 1°·5 higher than the average of the preceding 102 years, lower than in 1871 by 2°·3, but higher than in 1871 by 2°·3, in 1870 by 7°·0, and in 1869 by 2°·7 respectively.

The mean high day temperatures were higher than their respective averages in November and December, but lower in October.

The mean low night temperatures were lower than their respective averages in October and December, but higher in November.

Therefore the days and nights of October were cold, and those of November warm, while the days of December were warm and the nights cold.

The daily ranges of temperature were greater than their respective averages in October and December by 1°·6 and 1°·1 respectively, but less in November by 0°·4.

The fall of rain was 0·2 in. and 1·7 in. in defect in October and December respectively, but 0°·3 in. in excess in November.

1873. Months.	Temperature of Air. Mean.	Temperature of Air. Diff. from average of 102 years.	Temperature of Air. Diff. from average of 32 years.	Temperature of Evaporation. Mean.	Temperature of Evaporation. Diff. from average of 32 years.	Temperature of Dew Point. Mean.	Temperature of Dew Point. Diff. from average of 32 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 32 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 32 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 32 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	grs.
Oct. -	47·8	−1·8	−2·4	46·1	−2·2	44·2	−1·9	16·4	+1·6	53·6	0·290	−0·024	3·3	−0·3
Nov. -	44·2	+1·9	+0·6	42·4	+1·0	40·3	+0·8	11·3	−0·4	44·3	0·250	+0·003	2·9	+0·1
Dec. -	40·6	+1·5	+0·3	39·3	+0·5	37·6	+0·6	10·5	+1·1	43·2	0·225	+0·003	2·6	0·0
Means -	44·2	+0·5	−0·5	42·6	−0·2	40·7	−0·2	12·7	+0·8	47·0	0·255	−0·006	2·9	−0·1

1873. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 32 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 32 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 32 years.	Rain. Amount.	Rain. Diff. from average of 58 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
Oct. -	88	+ 1	29·685	−0·014	542	+3	2·6	−0·2	237	10	11	10	20·0	48·1
Nov. -	86	− 2	29·708	−0·047	546	−2	2·6	+0·3	296	6	21	3	19·0	44·9
Dec. -	90	+ 2	30·107	+0·310	558	+6	0·3	−1·7	247	17	12	2	13·9	43·8
Means -	88	0	29·833	+0·083	549	+2	Sum 5·5	Sum −1·6	Mean 260	Sum 33	Sum 44	Sum 15	Lowest 13·9	Highest 48·1

NOTE.—In reading this table it will be borne in mind that the minus sign (−) signifies below the average, and that the plus sign (+) signifies above the average.

The mean temperature of the air in the three months ending November, constituting the three autumn months, was 48°·9, being 0°·6 lower than the average of the preceding 102 years.

Thunderstorms occurred, on the 7th of October at Cockermouth and Silloth; on the 8th at Brighton, Royston, and Cardington; on the 10th at Llandudno; on the 12th at Bywell and North Shields; on the 13th at Truro; on the 22d at Helston, Liverpool, Eccles, Halifax, Cockermouth, and Carlisle; on the 23d at Guernsey, Brighton, Oxford, Liverpool, and Silloth; on the 24th at Guernsey, Osborne, Taunton, Stonyhurst, and Carlisle; on the 25th at Guernsey and Stonyhurst. On the 3d of November at Hull; on the 4th at Guernsey; on the 7th at Osborne and Weybridge Heath; and on the 26th at Guernsey, Helston, Truro, and Osborne.

Thunder was heard, but lightning was not seen, on the 8th of October at Eccles; on the 14th at Halifax; on the 23d at Helston. On the 1st of November at Cockermouth; and on the 7th at Truro and Salisbury.

Lightning was seen, but thunder was not heard, on the 3d of October at Royston; on the 8th at Osborne, Cardington, Somerleyton, Liverpool, and Hull; on the 9th at Hull; on the 12th at Cockermouth and Carlisle; on the 13th at Wisbech, Liverpool, Eccles, and Hull; on the 14th at Hull; on the 21st at Carlisle; on the 22d at Halifax, Hull, Stonyhurst, and North Shields; on the 23d at Truro, Lymington, Weybridge Heath, Somerleyton, Llandudno, and Cockermouth; on the 24th at Brighton, Salisbury, Weybridge Heath, Llandudno, Cockermouth, Allenheads, Silloth, and Carlisle; on the 25th at Lymington, Aldershot Camp, Weybridge Heath, Oxford, Cockermouth, and Silloth; on the 26th at Aldershot Camp and Wisbech; on the 27th at Aldershot Camp; and on the 29th at Hull. On the 1st of November at Stonyhurst; on the 4th at Oxford; on the 6th at Gloucester; on the 7th at Brighton; on the 8th at Truro; and on the 23d at Brighton.

Solar halos were seen, on the 2d of October at Oxford; on the 5th at Brighton and Oxford; on the 8th at Oxford; on the 9th at Strathfield Turgiss; and on the 24th at Oxford. On the 14th of November at London. On the 16th of December at Halifax; and on the 20th at Truro.

Lunar halos were seen, on the 1st and 3d of October at Oxford; on the 5th at Brighton, Strathfield Turgiss, Weybridge Heath, and Oxford; on the 13th at Truro; and on the 29th at Bywell. On the 5th of November at Helston and Stonyhurst; on the 8th at Brighton; and on the 30th at Oxford and Halifax. On the 2d and 26th of December at Liverpool; on the 27th and 28th at Bywell; on the 29th at Weybridge Heath, Oxford, Halifax, and Bywell; and on the 30th at Brighton and Bywell.

Auroræ Boreales were seen, on the 12th of October at Silloth; on the 13th at Hull; and on the 15th at Halifax (faintly). On the 12th and 13th of November at Hull. On the 19th of December at Carlisle.

Snow fell, on the 13th of October on the surrounding hills of Carlisle; on the 20th and 22d at Allenheads; on the 23d at Halifax and Stonyhurst; on the 24th at Stonyhurst; and on the 26th at Allenheads. On the 27th of December at Aldershot Camp and Strathfield Turgiss.

Hail fell, on the 7th of October at Cockermouth; on the 8th at Guernsey, Helston, Truro, Streatley, Llandudno, and Allenheads; on the 11th at Cockermouth; on the 13th at Llandudno, Cockermouth, and Silloth; on the 14th at Llandudno and Stonyhurst; on the 20th at Llandudno, Hawarden, Liverpool, Halifax, and Stonyhurst; on the 22d at Helston, Llandudno, Halifax, Stonyhurst, and Carlisle; on the 23d at Guernsey, Helston, Truro, Oxford, Royston, Llandudno, Eccles, Halifax, Stonyhurst, and Cockermouth; on the 24th at Guernsey, Helston, Truro, and Taunton; and on the 25th at Guernsey and Truro. On the 1st of November at Guernsey, Osborne, Llandudno, Stonyhurst, Cockermouth, and Silloth; on the 2d at Helston, Brighton, Cockermouth, and Silloth; on the 3d at Hull; on the 16th and 26th at Guernsey; on the 27th at Taunton and Halifax; and on the 29th at Guernsey and Halifax. On the 22d of December at Halifax and Stonyhurst; and on the 31st at Stonyhurst.

Fog prevailed, on the 1st of October at Lymington, Aldershot Camp, Somerleyton, and York; on the 2d at Lymington, Aldershot Camp, and Weybridge Heath; on the 3d at Bournemouth, Royston, Bradford, Allenheads, and North Shields; on the 6th at Allenheads; on the 8th at Oxford; on the 9th at London, Hull, and York; on the 12th at Lymington, Oxford, and Eccles; on the 13th at Oxford, Cardington, Wisbech, Silloth, Carlisle, and Bywell; on the 14th at London and Oxford; on the 15th at Lymington, Taunton, London, Eccles, and York; on the 16th at Lymington, London, Oxford, Cardington, Hull, and Bradford; on the 17th at London and Oxford; on the 18th at Eccles; on the 19th at Bournemouth, Lymington, Weybridge Heath, London, and Oxford; on the 24th at London, Oxford, and North Shields; on the 25th at Lymington, Aldershot Camp, Weybridge Heath, London, Oxford, and Cardington; on the 26th at Lymington, Taunton, London, and Oxford; on the 27th at Oxford, Norwich, and Eccles; on the 28th at Taunton, Streatley, Oxford, Cardington, and Norwich; on the 29th at Taunton, Weybridge Heath, Streatley, London, Oxford, Cardington, Norwich, and Wisbech; and on the 30th at Streatley, London, Oxford, Cardington, and Bradford. On the 3d of November at Taunton, London, Oxford, Cardington, Eccles, Halifax, Bradford, and North Shields; on the 4th at Taunton, Eccles, Halifax, and Bradford; on the 5th at London, Llandudno, and Bywell; on the 6th at Llandudno, Bywell, and North Shields; on the 7th at Weybridge Heath, London, Oxford, and Somerleyton; on the 8th at Weybridge Heath and London; on the 9th at Weybridge Heath; on the 10th at London; on the 11th at London and Liverpool; on the 12th at London, Norwich, and Liverpool; on the 13th at Aldershot Camp, Oxford, Cardington, Norwich, Liverpool, and Eccles; on the 14th at Aldershot Camp, London, Norwich, and Llandudno; on the 16th at Oxford; on the 17th at London, Oxford, and Llandudno; on the 18th at Oxford, Royston, Llandudno, and Miltown; on the 19th at London, Oxford, Norwich, Llandudno, North Shields, and Miltown; on the 20th at Oxford and Gloucester; on the 21st at Taunton; on the 24th at Guernsey and Oxford; on the 25th at Guernsey, Helston, Taunton, London, and North Shields; on the 26th at Helston; and on the 30th at Oxford. On the 1st of December at Taunton, Oxford, and Somerleyton; on the 2d and 3d at Oxford; on the 4th at Oxford and Somerleyton; on the 5th at Guernsey; on the 6th at Truro, Oxford, and Liverpool; on the 7th at Truro, Taunton, and Oxford; on the 8th and 9th at Taunton and Oxford; on the 10th at Taunton, Oxford, and Hull; on the 11th at Bournemouth, Taunton, Salisbury, Aldershot Camp, Marlborough, Streatley, Oxford, Somerleyton, Norwich, Liverpool, Hull, and Bradford; on the 12th at Bournemouth, Taunton, Aldershot Camp, Weybridge Heath, Marlborough, Streatley, Oxford, Cardington, Liverpool, Eccles, Hull, and Bradford; on the 13th at Taunton, Marlborough, Streatley, Somerleyton, Eccles, Halifax, and Hull; on the 14th at Marlborough and Cardington; on the 15th at Taunton; on the 18th at Guernsey; on the 19th at Guernsey and Marlborough; on the 24th at Bournemouth and Oxford; on the 25th at Osborne, Taunton, Oxford, and Somerleyton; on the 26th at Taunton; and on the 28th at Osborne, Bournemouth, Salisbury, Weybridge Heath, Oxford, Royston, Cardington, and Somerleyton.

Field Elm divested of leaves, on the 7th of November at Hull; on the 21st at Oxford and Weybridge Heath; and on the 25th at Guernsey.

Wych Elm divested of leaves, on the 4th of November at Hull; and on the 25th at Llandudno.

Oak divested of leaves, on the 20th of November at Guernsey; and on the 30th at Hull.

Lime divested of leaves, on the 31st of October at Oxford and Guernsey. On the 2d of November at Hull and Llandudno; and on the 12th at Weybridge Heath.

Sycamore divested of leaves, on the 30th of October at Helston; and on the 31st at Guernsey. On the 9th of November at Llandudno; on the 10th at Hull and Helston; and on the 14th at Weybridge Heath.

Horsechestnut divested of leaves, on the 30th of October at Hull; and on the 31st at Guernsey, Oxford, and Weybridge Heath. On the 2d of November at Weybridge Heath; on the 9th at Llandudno; and on the 29th at Helston.

Common Poplar divested of leaves, on the 27th of October at Helston. On the 14th of November at Hull; on the 15th at Llandudno; and on the 19th at Helston.

Occidental Plane divested of Leaves, on the 21st of November at Hull.

Oriental Plane divested of leaves, on the 17th of November at Hull.

Hawthorn divested of leaves, on the 14th of November at Helston; on the 15th at Llandudno; on the 19th at Hull; and on the 20th at Weybridge Heath.

Hazel divested of leaves, on the 12th of November at Hull.

Walnut divested of leaves, on the 7th of November at Weybridge Heath; and on the 11th at Hull.

Snowdrop in blossom, on the 31st of December at Helston.

Swallow departed, on the 4th of October from Hull; on the 5th from Brighton; on the 9th from Helston; and on the 20th from Weybridge Heath. On the 22d of November from Osborne. (Was seen) on the 5th and 8th of November at Weybridge Heath.

Redwing arrived, on the 11th of November at Stonyhurst.

Woodcock arrived, on the 12th of October at Helston; on the 20th at Guernsey; and on the 25th at Hull.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING DECEMBER 31ST, 1873.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the fifth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1873. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.=100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.M.S.	204	Oct.	29·679	1·387	68·5	39·0	29·5	58·1	48·7	9·4	52·8	48·6	·344	3·9	0·6	86	536	—	—	1·2	6	5	9	11	4·1	5·8	18	2·51
		Nov.	29·646	1·084	56·0	39·5	16·5	52·2	45·4	6·8	48·7	44·5	·296	3·2	0·6	86	540	—	—	1·8	7	7	9	7	4·5	6·7	18	5·87
		Dec.	30·088	0·962	53·5	32·0	21·5	49·4	41·6	7·8	45·6	41·7	·265	3·0	0·4	87	552	—	—	0·9	5	8	10	8	3·5	6·0	12	1·05
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	Oct.	29·896	1·450	70·0	28·0	42·0	60·1	50·0	10·1	53·8	44·6	·295	3·4	1·5	69	536	75·2	61·7	1·9	9	3	9	10	4·8	4·9	23	3·61
		Nov.	29·863	1·274	58·0	38·0	20·0	53·6	46·6	7·0	50·5	42·7	·274	3·3	0·9	77	541	58·4	41·1	2·2	9	8	5	8	5·3	7·4	21	4·31
		Dec.	30·297	1·097	57·0	33·0	24·0	53·6	43·8	9·8	49·1	42·8	·275	3·4	0·9	80	550	58·2	39·0	1·4	4	5	11	11	3·7	6·3	10	1·04
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	Oct.	29·869	1·453	72·0	26·0	46·0	57·7	44·5	13·2	50·0	45·7	·307	3·5	0·6	85	542	—	—	2·1	9	1	9	12	—	6·4	23	3·34
		Nov.	29·827	1·234	56·0	31·0	25·0	51·6	43·5	8·1	47·1	41·8	·265	3·1	0·6	83	545	—	—	2·7	6	9	5	10	—	7·4	23	4·05
		Dec.	30·205	1·055	54·0	25·0	29·0	50·9	39·0	11·9	45·6	41·1	·259	3·0	0·6	85	554	—	—	1·8	6	4	8	13	—	7·6	18	1·23
SIDMOUTH (Devon), J. Ingleby Mackenzie, Esq., M.B., F.M.S.	30	Oct.	29·866	1·534	69·3	30·1	39·2	57·4	43·4	14·0	49·7	48·2	·339	3·9	0·2	95	542	—	—	0·9	9	5	5	12	—	3·0	14	1·83
		Nov.	29·840	1·280	57·1	31·0	26·1	50·9	42·0	8·9	46·1	44·0	·288	3·3	0·3	93	546	—	—	1·5	5	12	3	10	—	4·3	14	4·16
		Dec.	30·279	1·050	56·7	27·0	29·7	48·8	38·8	10·0	44·3	43·0	·276	3·2	0·3	93	556	—	—	0·6	11	3	3	14	—	4·4	6	0·31
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	Oct.	29·690	1·440	72·6	30·3	42·3	58·1	44·1	14·0	50·1	47·8	·333	3·8	0·3	92	539	79·8	33·2	0·1	8	3	9	11	—	6·2	16	3·71
		Nov.	29·690	1·225	56·8	31·1	25·7	51·1	41·3	9·8	45·9	42·3	·270	3·1	0·5	87	544	63·2	30·9	0·3	7	7	7	9	—	8·0	16	2·00
		Dec.	30·115	1·040	53·9	26·3	27·6	47·6	37·6	10·0	42·8	40·6	·254	3·0	0·2	92	555	54·9	26·8	0·4	6	4	11	10	—	7·4	12	0·74
BOURNEMOUTH (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	128	Oct.	29·893	1·520	65·2	28·7	36·5	55·9	45·1	10·8	49·3	45·1	·301	3·5	0·6	86	544	—	—	—	13	2	7	9	—	3·7	16	3·02
		Nov.	29·908	1·120	56·3	32·1	24·2	49·9	41·5	8·4	45·5	41·6	·263	3·0	0·5	87	549	—	—	—	12	4	4	10	—	5·5	17	3·35
		Dec.	30·310	1·060	54·2	24·9	29·3	47·3	38·2	9·1	42·8	39·7	·243	2·9	0·4	89	559	—	—	—	9	3	4	15	—	5·3	10	0·89
PORTSMOUTH, William C. Ellis, Esq.	16	Aug.	29·915	0·725	85·0	45·3	39·7	74·6	53·8	20·8	62·8	53·8	·415	4·6	1·8	73	529	119·2	51·3	1·4	0	4	14	13	2·3	5·5	14	2·50
		Oct.	29·705	1·558	73·2	37·0	36·2	63·4	47·0	16·4	53·7	48·3	·338	3·8	0·8	82	535	89·9	45·0	1·2	4	3	12	12	1·2	6·9	21	4·78
		Nov.	29·827	1·262	61·2	32·2	29·0	54·2	41·2	13·0	48·3	42·7	·275	3·2	0·8	80	547	69·8	39·0	1·6	7	9	6	9	1·3	6·8	18	2·58
		Dec.	30·277	1·066	56·2	24·0	32·2	50·2	37·0	13·2	44·0	39·6	·244	2·8	0·5	83	557	59·1	35·0	1·0	7	5	7	12	0·6	7·0	7	0·65
BRIGHTON (Sussex), Frederick E. Sawyer, Esq., F.M.S.	200	Oct.	29·634	1·512	68·5	32·1	36·4	55·8	44·4	11·4	49·6	46·5	·317	3·6	0·4	90	539	92·6	39·1	0·9	7	2	8	14	—	7·1	20	4·45
		Nov.	29·662	1·042	55·8	32·7	23·1	50·3	41·3	9·0	45·6	41·7	·264	3·1	0·5	88	544	78·2	35·9	1·1	8	7	6	9	—	7·8	16	2·75
		Dec.	30·085	1·122	52·7	26·3	26·4	46·1	37·7	8·4	42·4	38·9	·237	2·7	0·4	88	555	68·5	32·4	0·8	8	4	7	12	—	7·2	10	0·65
LYMINGTON (Hants), George J. Jones, Esq.	77	Oct.	29·807	1·519	70·5	28·4	42·1	57·7	43·0	14·7	49·9	45·4	·304	3·5	0·6	86	541	—	39·6	1·1	9	7	6	9	—	5·8	14	3·82
		Nov.	29·795	1·239	57·3	30·1	27·2	51·5	41·6	9·9	46·1	41·8	·265	3·1	0·5	86	546	—	38·2	2·1	5	10	7	8	—	7·9	14	3·11
		Dec.	30·200	1·041	55·5	24·0	31·5	48·2	37·7	10·5	42·8	39·2	·240	2·8	0·4	88	557	—	33·0	0·9	6	5	8	12	—	6·7	6	0·85
TAUNTON (Somerset), James Bottomley, Esq.	80	Oct.	29·783	1·577	76·5	24·5	52·0	57·4	40·2	17·2	48·1	46·2	·313	3·5	0·3	94	543	65·5	37·8	0·1	6	4	7	14	1·6	6·7	18	2·13
		Nov.	29·790	1·301	58·0	27·7	30·3	50·3	39·5	10·8	44·8	41·3	·260	3·0	0·4	88	547	54·3	36·9	0·4	5	9	6	10	3·2	7·9	14	2·79
		Dec.	30·214	1·014	55·5	18·5	37·0	47·4	35·4	12·0	42·0	39·8	·245	2·8	0·3	92	558	50·8	31·6	0·2	15	0	0	16	2·0	7·0	5	0·44
WILTON HOUSE (near Salisbury), T. Challis, Esq.	186	Oct.	29·698	1·378	71·0	20·5	50·5	58·8	37·6	21·2	47·1	42·9	·278	3·2	0·5	87	543	91·9	34·8	1·3	9	5	7	10	—	6·0	13	1·98
		Nov.	29·682	1·277	57·0	23·0	34·0	50·8	36·5	14·3	43·8	40·9	·257	3·0	0·3	90	546	71·9	33·8	1·6	3	13	4	10	—	7·7	15	3·39
		Dec.	30·085	1·086	56·0	17·0	39·0	48·2	32·3	15·9	40·4	37·4	·224	2·6	0·4	90	558	64·8	29·6	1·1	8	6	5	12	—	7·0	7	0·94
BARNSTAPLE (Devon), T. Mackrell, Esq.	43	Oct.	29·820	1·580	72·0	29·0	43·0	57·7	45·4	12·3	50·6	48·0	·335	3·8	0·3	91	541	—	—	1·2	3	7	11	10	—	6·0	19	4·46
		Nov.	29·825	1·295	57·0	33·0	24·0	50·7	42·0	8·7	46·2	42·6	·274	3·2	0·5	88	546	—	—	1·2	2	8	11	9	—	6·1	22	2·14
		Dec.	30·240	1·070	53·5	26·0	27·5	48·5	39·8	8·7	44·6	42·2	·269	3·1	0·3	88	555	—	—	1·1	4	6	11	10	—	6·2	18	1·45

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1873. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.=100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
ALDERSHOT CAMP (Hants), John Arnold, Esq., M.S.C., F.M.S.	325	Oct.	29·495	1·322	74·6	23·0	51·6	57·0	41·0	16·0	48·0	44·6	·294	3·4	0·4	89	538	85·4	38·6	1·3	6	3	11	11	2·1	7·2	16	2·70
		Nov.	29·509	1·254	56·2	28·2	28·0	49·9	37·3	12·6	43·4	40·0	·247	2·9	0·4	87	544	69·1	35·3	1·6	7	9	7	7	1·6	7·5	14	2·49
		Dec.	29·905	1·046	54·8	15·4	39·4	45·9	34·1	11·8	40·2	37·5	·224	2·2	0·4	90	554	61·5	31·0	1·2	3	1	16	11	1·5	8·0	9	0·68
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	Oct.	29·663	1·562	71·8	23·4	48·4	56·0	39·7	16·3	47·5	44·6	·295	3·3	0·4	90	541	92·6	36·6	0·4	7	6	6	12	3·5	6·5	16	2·49
		Nov.	29·671	1·288	56·8	28·0	28·8	49·5	38·4	11·1	44·0	39·4	·242	2·8	0·5	83	546	72·8	33·7	0·6	5	12	5	8	3·9	6·9	12	2·37
		Dec.	30·089	1·070	57·3	17·4	39·9	45·7	34·2	11·5	40·4	37·5	·225	2·6	0·3	90	558	67·2	32·1	0·5	5	5	5	16	4·0	8·0	6	0·61
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	Oct.	29·760	1·511	74·0	25·0	49·0	56·7	40·2	16·5	47·4	43·2	·289	3·2	0·5	86	543	82·8	37·8	0·4	5	4	14	8	0·5	6·7	15	3·22
		Nov.	29·752	1·285	57·0	24·0	33·0	49·3	38·7	10·6	43·5	40·0	·248	2·8	0·3	89	548	63·0	36·3	0·7	7	8	10	5	0·7	6·9	13	2·19
		Dec.	30·144	1·063	55·5	16·5	39·0	44·7	35·8	8·9	39·9	36·6	·216	2·5	0·4	88	559	50·4	33·4	0·5	2	8	15	6	0·8	7·0	8	0·38
MARLBOROUGH COLLEGE (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	456	Oct.	29·389	1·550	69·7	20·4	49·3	55·4	37·8	17·6	45·8	43·5	·283	3·2	0·3	92	538	93·8	36·4	—	6	7	10	8	3·2	7·3	15	2·63
		Nov.	29·401	1·277	57·3	23·4	33·9	48·9	36·7	12·2	42·6	38·9	·237	2·7	0·4	87	542	67·6	34·8	—	5	12	6	7	—	8·2	17	3·34
		Dec.	29·808	1·109	59·2	15·8	43·4	45·4	33·2	12·2	39·7	37·7	·226	2·6	0·3	92	554	57·9	32·7	—	6	5	8	12	—	8·2	9	0·60
ROYAL OBSERVATORY (Kent), The Astronomer Royal.	159	Oct.	29·685	1·564	75·1	26·7	48·4	57·0	40·6	16·4	47·8	44·2	·290	3·3	0·5	88	542	85·5	35·2	0·3	5	4	10	12	—	6·9	14	2·55
		Nov.	29·708	1·295	57·0	25·8	31·2	50·1	38·8	11·3	44·2	40·3	·250	2·9	0·5	86	546	69·6	33·7	0·5	5	10	7	8	—	7·4	15	2·58
		Dec.	30·107	1·070	56·3	21·1	35·2	45·6	35·2	10·4	40·6	37·6	·225	2·6	0·4	90	558	58·2	28·8	0·3	2	3	9	17	—	7·2	6	0·31
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.A.S., F.M.S.	150	Oct.	29·719	1·563	72·8	23·3	49·5	57·5	39·2	18·3	47·0	43·4	·282	3·3	0·4	88	543	63·6	—	1·0	6	4	9	12	—	6·0	14	2·39
		Dec.	30·154	1·093	53·7	17·8	37·9	45·5	35·4	10·1	40·8	37·4	·223	2·6	0·4	88	558	49·8	—	0·8	4	2	10	15	—	7·2	6	0·46
ST. JOHN'S COLLEGE, BATTERSEA, Rev. J. P. Faunthorpe, M.A., F.R.G.S.	13	Oct.	29·817	1·558	78·0	51·0	27·0	57·2	37·5	19·7	48·0	45·8	·308	3·5	0·3	94	544	70·7	35·0	1·3	7	4	9	11	—	6·1	15	2·86
		Nov.	29·864	1·338	57·4	25·2	32·2	50·3	35·9	14·4	44·0	42·2	·270	3·1	0·2	94	549	57·8	31·5	1·4	6	11	8	5	—	6·6	10	2·05
CAMDEN TOWN (London), G. J. Symons, Esq., F.M.S.	123	Oct.	29·745	1·500	73·4	26·2	47·2	57·0	40·4	16·6	48·2	43·8	·285	3·3	0·5	85	542	74·9	36·8	—	9	1	2	19	—	6·4	15	2·97
		Nov.	29·749	1·275	58·1	27·7	30·4	50·1	38·8	11·3	44·6	40·3	·250	2·9	0·5	85	546	58·0	34·6	—	10	8	3	9	—	6·8	14	1·87
		Dec.	30·144	1·089	56·7	22·9	33·8	45·8	35·8	10·0	41·0	37·4	·223	2·6	0·4	87	558	48·1	33·6	—	6	4	4	17	—	7·2	8	0·48
CHISWICK (London), Thiselton Dyer, Esq.	25	Oct.	29·836	1·550	—	—	—	—	—	—	48·0	44·4	·293	3·4	0·5	89	544	—	—	—	—	—	—	—	—	—	16	2·96
		Nov.	29·853	1·312	58·6	24·9	33·7	50·9	39·0	11·9	44·4	40·7	·254	2·9	0·4	87	548	67·7	36·9	—	8	7	9	6	—	—	15	2·12
OXFORD (Oxfordshire), Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	Oct.	29·626	1·591	71·7	23·0	48·7	55·3	40·5	14·8	47·9	43·5	·282	3·2	0·6	85	541	93·8	37·8	0·7	7	3	10	11	1·2	6·9	15	2·69
		Nov.	29·674	1·287	58·9	27·8	31·1	49·4	38·8	10·6	44·2	39·4	·242	2·8	0·5	83	546	75·0	36·4	1·0	6	10	7	7	1·2	8·3	14	1·70
		Dec.	30·047	1·095	57·9	20·1	37·8	45·2	36·1	9·1	40·6	37·0	·219	2·5	0·4	87	556	61·8	33·9	0·6	2	4	13	12	0·9	8·1	9	0·51
GLOUCESTER (Gloucester), E. Toller, Esq., M.D.	100	Oct.	29·797	1·560	70·0	23·3	46·7	55·9	40·4	15·5	—	—	—	—	—	—	—	79·3	—	0·6	9	4	6	12	0·2	5·6	14	2·10
		Nov.	29·686	1·285	59·2	27·4	31·8	48·8	38·6	10·2	43·6	39·0	·238	2·7	0·5	84	550	59·1	37·2	1·0	8	8	8	6	1·2	7·2	12	1·32
		Dec.	30·216	1·200	58·7	11·1	47·6	45·9	34·2	11·7	40·6	37·4	·223	2·6	0·4	89	560	54·8	34·1	0·6	3	3	13	12	0·1	5·7	7	0·59
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	Oct.	29·564	1·511	72·9	23·6	49·3	56·4	39·9	16·5	47·0	42·8	·275	3·2	0·5	86	540	—	—	—	-	-	-	-	—	5·7	15	2·36
		Nov.	29·621	1·316	56·8	22·9	33·9	49·4	37·1	12·3	43·3	40·0	·246	2·8	0·4	87	546	—	—	—	-	-	-	-	—	6·8	17	1·97
		Dec.	29·983	1·046	57·2	20·6	36·6	46·1	34·4	11·7	40·5	37·3	·222	2·6	0·4	89	556	—	—	—	-	-	-	-	—	6·7	7	0·50
CARDINGTON (near Bedford), Mr. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	105	Oct.	29·743	1·580	72·0	23·0	49·0	56·4	38·9	17·5	46·8	43·0	·277	3·1	0·5	87	544	70·2	31·5	0·8	5	2	10	14	—	5·8	10	2·15
		Nov.	29·790	1·344	57·0	26·6	30·4	49·4	37·3	12·1	43·0	40·4	·251	2·9	0·3	90	549	53·9	39·8	0·9	7	10	5	8	—	7·0	12	2·00
		Dec.	30·165	1·100	57·6	20·0	37·6	45·5	33·7	11·8	40·0	37·7	·226	2·6	0·3	92	559	45·5	26·1	0·5	1	2	7	21	—	6·3	7	0·45
ST. DAVID'S COLLEGE, LAMPETER (Cardiganshire), Prof. A. W. Scott.	420	Oct.	29·448	1·549	67·0	19·5	47·5	57·2	38·7	18·5	46·6	44·7	·297	5·4	0·3	94	538	78·5	—	—	5	6	10	10	—	—	19	3·77
		Nov.	29·446	1·338	55·0	26·0	29·0	48·4	37·2	11·2	42·3	37·9	·228	2·6	0·5	85	543	61·8	—	—	6	12	6	6	—	—	13	2·47
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	50	Oct.	29·788	1·603	72·0	29·1	42·9	57·6	41·2	16·4	48·7	46·6	·319	3·6	0·3	93	542	—	32·3	0·6	9	3	9	11	6·6	5·0	17	2·49
		Nov.	29·826	1·348	56·6	28·6	28·0	51·2	38·3	12·9	44·7	41·0	·257	2·9	0·5	86	548	—	30·1	1·0	5	9	8	8	6·8	5·6	15	0·96
		Dec.	30·204	1·122	57·0	20·6	36·4	45·8	34·5	11·3	40·5	38·7	·235	2·7	0·2	94	560	—	25·1	0·9	4	1	13	13	5·6	6·0	13	0·63

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1873. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
NORWICH (Norfolk), C. M. GIBSON, Esq., F.M.S.	42	Oct.	29·781	1·608	69·5	27·5	42·0	54·5	40·3	14·2	47·1	45·2	·302	3·4	0·3	94	544	–	–	–	6	2	11	12	–	–	12	1·94
		Nov.	29·830	1·344	55·0	28·5	26·5	48·3	37·7	10·6	43·1	40·9	·256	2·9	0·3	92	550	–	–	–	7	9	7	7	–	–	11	1·15
		Dec.	30·200	1·106	56·0	22·0	34·0	45·2	34·0	11·2	40·3	38·7	·235	2·8	0·2	94	560	–	–	–	3	1	13	14	–	–	7	0·43
WISBECH (Cambridgeshire), S. H. MILLER, Esq., F.R.A.S., F.M.S.	14	Oct.	29·810	1·582	71·1	25·7	45·4	55·6	40·1	15·5	46·6	–	–	–	–	–	–	87·3	35·4	0·4	5	0	13	13	2·3	6·5	17	2·39
		Nov.	29·851	1·372	55·1	31·0	24·1	49·1	38·9	10·2	43·5	–	–	–	–	–	–	69·5	33·1	0·5	7	7	7	9	2·3	6·8	12	1·42
		Dec.	30·225	1·112	56·3	23·5	32·8	45·8	35·6	10·2	40·5	–	–	–	–	–	–	61·2	30·9	0·3	2	1	15	13	2·1	6·3	7	0·55
LLANDUDNO (Carnarvonshire), JAMES NICOL, Esq., M.D., and THOMAS DALTON, Esq., M.D.	100	Oct.	29·687	1·625	67·4	33·0	34·4	56·2	44·0	12·2	49·8	43·6	·285	3·3	0·8	80	539	–	–	0·7	4	4	7	16	–	6·1	21	3·98
		Nov.	29·771	1·535	57·5	31·0	26·5	48·7	40·4	8·3	44·6	39·6	·244	2·8	0·6	83	547	–	–	1·0	2	11	7	10	–	7·5	13	1·68
		Dec.	30·076	1·370	55·4	30·0	25·4	49·3	40·5	8·8	45·5	40·8	·254	2·9	0·5	84	552	–	–	0·7	1	0	4	26	–	6·3	12	1·44
DERBY (Derbyshire), JOHN DAVIS, Esq.	174	Oct.	29·625	1·577	67·0	26·0	41·0	53·9	39·7	14·2	46·1	43·6	·284	3·3	0·4	92	542	–	–	–	6	2	9	14	–	–	13	2·40
		Nov.	29·672	1·429	56·0	32·0	24·0	48·6	39·2	9·4	43·6	39·0	·239	2·7	0·5	84	546	–	–	–	7	8	5	10	–	–	19	2·03
		Dec.	30·021	1·155	56·0	21·0	35·0	45·6	36·0	9·6	41·1	38·2	·230	2·6	0·6	89	555	–	–	–	2	1	9	19	–	–	7	0·26
NOTTINGHAM (Notts), M.O. TARBOTTON, Esq., C.E., F.G.S., F.M.S.	183	Oct.	29·555	1·546	69·1	24·2	44·9	55·4	37·9	17·5	45·7	41·6	·264	3·0	0·6	86	543	77·9	33·2	0·6	5	3	7	16	1·1	6·4	22	1·35
		Nov.	29·586	1·452	57·6	30·2	27·4	48·7	37·9	10·8	43·1	39·6	·243	2·8	0·4	88	546	60·4	32·3	1·0	7	8	7	8	2·6	7·5	21	2·36
HOLKHAM (Norfolk), JOHN DAVIDSON, Esq., Assistant to the EARL of LEICESTER.	39	Oct.	29·780	1·512	71·2	21·8	49·4	56·2	39·0	17·2	47·8	42·4	·273	3·1	0·6	83	543	92·0	35·0	1·3	4	3	14	10	–	6·6	13	2·04
		Nov.	29·822	1·396	55·2	23·0	32·2	49·8	36·8	13·0	43·8	39·1	·237	2·7	0·5	83	549	68·6	30·6	1·3	7	8	10	5	–	6·5	12	1·15
		Dec.	30·176	1·136	57·0	22·0	35·0	46·1	33·7	12·4	40·6	37·0	·220	2·6	0·4	86	559	49·5	29·3	1·3	2	0	17	12	–	6·4	8	0·54
HAWARDEN (Flint), T. MOFFAT, Esq., M.D., F.R.A.S.	270	Oct.	29·504	1·577	67·0	32·0	35·0	53·5	43·5	10·0	47·4	44·9	·298	3·4	0·4	92	539	79·3	28·9	1·7	4	1	12	14	0·7	6·4	21	2·56
		Nov.	29·572	1·503	56·0	30·0	26·0	47·2	39·4	7·8	42·9	40·5	·253	3·0	0·2	91	545	56·5	25·2	1·1	6	6	10	8	0·9	7·6	16	2·01
		Dec.	29·913	1·172	57·0	25·0	32·0	43·6	39·3	7·3	43·2	40·2	·249	2·8	0·4	88	551	50·7	22·1	1·6	3	0	14	14	0·6	5·9	13	0·89
LIVERPOOL OBSERVATORY, JOHN HARTNUP, Esq., F.R.A.S.	197	Oct.	29·622	1·576	68·0	33·5	34·5	54·2	43·8	10·4	48·0	43·1	·278	3·2	0·6	84	540	–	–	1·1	4	4	11	12	–	6·3	21	3·17
		Nov.	29·691	1·533	55·2	32·8	22·4	47·6	39·6	8·0	43·1	38·1	·229	2·6	0·6	82	547	–	–	1·4	4	13	6	7	–	7·0	17	1·97
		Dec.	29·984	1·234	56·7	24·5	32·2	47·4	39·2	8·2	43·4	39·0	·238	2·8	0·4	84	553	–	–	1·1	1	5	13	12	–	6·6	12	0·84
ECCLES (near MANCHESTER), T. MACKERETH, Esq., F.R.A.S., F.M.S.	145	Oct.	29·650	1·720	68·4	27·2	41·2	55·3	40·1	15·2	46·8	42·6	·273	3·1	0·6	86	542	63·3	33·2	0·3	5	3	10	13	1·5	5·6	21	4·59
		Nov.	29·709	1·546	55·2	28·2	27·0	48·8	38·3	10·5	43·5	38·9	·237	2·7	0·5	85	547	52·3	31·1	0·5	7	10	6	7	3·1	7·2	18	2·27
		Dec.	30·032	1·206	57·7	21·7	36·0	46·6	36·2	10·4	41·9	38·1	·230	2·7	0·4	87	556	48·6	29·6	0·4	3	0	12	16	2·0	7·3	16	0·77
MOOR SIDE OBSERVATORY, HALIFAX (Yorkshire), LOUIS J. CROSSLEY, Esq., F.M.S.	429	Oct.	29·287	1·572	67·1	29·6	37·5	52·6	39·4	13·2	45·4	42·8	·275	3·1	0·4	91	537	70·8	34·0	–	6	4	5	16	1·6	7·2	16	3·48
		Nov.	29·367	1·541	55·0	28·3	26·7	46·8	38·6	8·2	42·2	38·7	·235	2·7	0·4	88	542	53·2	35·1	–	7	12	4	7	2·8	8·2	16	3·27
		Dec.	29·682	1·142	55·0	25·0	30·0	45·9	37·0	8·9	41·7	38·6	·235	2·7	0·4	89	548	51·1	32·6	–	3	2	6	20	3·0	7·6	10	0·92
BERMERSIDE OBSERVATORY, (Halifax), EDWARD CROSSLEY, Esq., F.R.A.S.	520	Oct.	29·205	1·515	68·8	29·0	39·8	52·3	39·4	12·9	46·0	43·0	·278	3·3	0·4	90	535	81·9	32·6	0·7	3	2	7	19	–	6·9	18	3·29
		Nov.	29·300	1·567	54·0	28·0	26·0	45·6	37·4	8·2	41·4	37·5	·226	2·6	0·4	87	542	62·1	32·6	0·8	8	8	7	7	–	8·0	17	3·40
		Dec.	29·619	1·180	52·0	23·2	28·8	44·2	36·3	7·9	40·6	36·9	·220	2·5	0·4	87	549	57·6	30·5	0·8	2	1	8	20	–	7·8	12	0·97
THE PARK, HULL (Yorkshire), MR. E. PEAK.	12	Oct.	29·787	1·638	67·0	27·0	40·0	53·7	39·0	14·7	46·2	42·8	·276	3·2	0·4	89	545	72·4	35·6	–	–	–	–	–	2·2	–	18	2·28
		Nov.	29·848	1·578	55·0	28·0	27·0	48·0	38·6	9·4	43·6	37·9	·228	2·6	0·6	80	549	57·8	35·8	–	–	–	–	–	2·2	–	13	1·65
		Dec.	30·166	1·201	53·0	25·0	28·0	44·7	34·7	10·0	40·5	35·0	·204	2·5	0·5	87	559	51·2	31·6	–	–	–	–	–	1·6	–	9	0·39
STONYHURST (Lancashire), REV. S. J. PERRY, F.R.A.S., F.M.S.	363	Oct.	29·398	1·583	68·0	27·0	41·0	54·2	38·8	15·4	45·6	41·7	·265	3·0	0·5	87	539	94·2	34·2	–	4	1	12	14	–	7·0	29	8·68
		Nov.	29·471	1·656	54·6	26·8	27·8	47·5	37·9	9·6	42·5	38·3	·232	2·7	0·5	86	544	73·4	33·4	–	10	9	4	7	–	7·4	22	3·87
		Dec.	29·774	1·279	51·0	24·9	26·1	45·8	37·5	8·3	41·8	38·6	·236	2·7	0·4	89	550	61·4	32·8	–	3	2	11	15	–	7·9	28	2·39
BRADFORD (Yorkshire), J. MCLANDSBOROUGH, Esq., C.E., F.G.S.	366	Oct.	29·349	1·596	68·4	32·2	36·2	54·1	40·3	13·8	46·4	41·6	·263	3·0	0·6	84	537	66·6	–	0·4	–	–	–	–	–	7·7	16	2·04
		Nov.	29·474	1·567	56·2	30·8	25·4	48·0	38·6	9·4	43·1	39·2	·239	2·8	0·5	86	543	51·9	–	0·9	–	–	–	–	–	8·6	10	2·09
		Dec.	29·744	1·210	56·2	28·0	28·2	48·3	39·0	9·3	43·9	40·8	·256	3·0	0·4	89	547	50 7	–	1·0	–	–	–	–	–	6·2	9	0·90
LEEDS PHILOSOPHICAL HALL (Yorkshire), LOUIS C. MIALL, Esq.	137	Oct.	29·615	1·597	70·0	28·0	42·0	54·5	40·3	14·2	46·9	43·5	·283	3·2	0·5	89	541	62·2	–	1·2	9	1	4	17	–	7·5	22	1·84
		Nov.	29·710	1·558	56·0	30·0	26·0	48·1	39·1	9·0	44·0	39·2	·240	2·8	0·5	83	546	51·9	–	1·2	8	9	5	8	–	8·2	15	2·26
		Dec.	30·022	1·204	56·0	25·0	31·0	46·7	37·4	9·3	43·2	38·4	·232	2·7	0·5	83	553	50·4	–	1·2	5	2	3	21	–	8·0	9	0·34
COCKERMOUTH (Cumberland), H. DODGSON, Esq., M.D., F.R.A.S., F.M.S.	146	Oct.	29·576	1·605	64·2	23·9	40·3	53·7	42·0	11·7	46·7	42·7	·275	3·2	0·5	87	541	77·1	32·9	0·5	2	5	12	11	2·3	6·0	20	7·01
		Nov.	29·684	1·710	54·9	22·0	32·9	47·8	38·0	9·8	42·8	38·2	·232	2·7	0·4	85	547	69·4	28·3	0·5	2	11	11	6	2·7	5·9	16	2·62
		Dec.	29·950	1·292	52·4	23·4	30·0	47·8	41·0	6·8	44·4	41·4	·250	3·0	0·4	89	551	52·7	31·6	0·6	6	7	15	9	3·4	7·3	17	2·46

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1873. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
ALLENHEADS (Northumberland), MR. T. KIDD, Assistant to W. B. BEAUMONT, Esq., M.P.	1360	Oct.	28·260	1·426	61·3	23·5	37·8	49·9	36·7	13·2	42·4	38·5	·233	2·7	0·5	86	521	72·3	33·7	1·5	–	–	–	–	–	6·4	25	3·68
		Nov.	28·309	1·525	51·0	26·0	25·0	43·6	34·1	9·5	38·6	36·1	·213	2·5	0·3	91	526	66·1	31·5	1·5	–	–	–	–	–	7·9	19	3·51
		Dec.	28·555	1·192	52·0	21·0	31·0	45·0	33·7	11·3	39·0	36·7	·218	2·5	0·3	92	531	64·5	30·6	1·5	–	–	–	–	–	6·2	17	3·21
SILLOTH RECTORY (Cumberland), REV. FRANCIS REDFORD, M.A., F.R.A.S., F.M.S.	28	Oct.	29·693	1·621	63·0	23·4	39·6	55·2	40·1	15·1	46·9	40·5	·253	3·0	0·8	78	543	82·4	35·5	1·3	3	7	8	13	8·7	5·7	21	6·83
		Nov.	29·809	1·859	56·2	24·6	31·6	48·5	39·2	9·3	43·1	37·2	·221	2·6	0·8	80	549	66·1	32·7	1·4	6	11	4	9	9·9	6·1	14	1·61
		Dec.	30·047	1·446	52·3	24·0	28·3	48·0	39·6	8·4	44·5	38·7	·235	2·7	0·6	79	553	59·3	35·9	1·7	2	3	7	19	10·7	7·3	14	1·16
CARLISLE (Cumberland), J. CARTMELL, Esq.	114	Oct.	29·621	1·598	63·1	21·3	41·8	52·7	37·4	15·3	44·5	41·4	·261	3·0	0·4	89	544	62·5	32·6	1·3	3	4	10	14	5·7	6·3	19	4·57
		Nov.	29·723	1·617	55·0	21·7	33·3	47·7	34·8	12·9	40·9	38·5	·233	2·8	0·2	91	550	56·1	30·5	1·7	4	10	7	9	4·9	6·3	13	2·01
		Dec.	29·980	1·304	54·8	22·0	32·8	47·5	37·5	10·0	42·8	39·1	·239	3·1	0·3	86	553	52·9	33·5	2·1	0	2	9	20	6·5	6·9	14	1·11
BYWELL (Northumberland), MR. JOHN DAWSON, Assistant to W. B. BEAUMONT, Esq., M.P.	87	Oct.	29·599	1·564	64·0	27·0	37·0	54·3	40·4	13·9	46·2	39·6	·244	2·8	0·8	79	542	68·7	32·4	1·3	3	6	7	15	–	4·9	20	2·85
		Nov.	29·707	1·832	55·0	30·0	25·0	48·7	38·8	9·9	43·1	35·9	·211	2·5	0·7	76	548	54·8	31·5	1·3	4	7	6	13	–	5·7	19	2·07
		Dec.	29·971	1·282	56·0	29·0	27·0	48·9	39·4	9·5	44·4	37·1	·220	2·6	0·8	75	551	53·6	31·9	1·3	3	1	6	21	–	4·6	13	0·72
NORTH SHIELDS (Northumberland), ROBERT SPENCE, Esq.	124	Oct.	29·656	1·599	62·2	30·0	32·2	52·1	39·8	12·3	45·0	41·3	·260	3·0	0·4	87	544	–	37·8	1·6	12	3	3	13	–	5·5	19	2·24
		Nov.	29·746	1·774	57·5	32·0	25·5	49·3	39·5	9·8	45·5	38·5	·233	2·7	0·6	82	548	–	36·8	1·6	7	6	6	11	–	6·4	18	1·30
MILTOWN (Banbridge, Ireland), JOHN SMYTH, Esq., Jun., M.A., M.I.C.E.I.	200	Oct.	29·523	1·552	65·0	26·0	39·0	52·5	38·7	13·8	44·9	40·8	·254	2·9	0·5	86	542	82·1	33·9	1·8	4	1	16	10	–	4·7	21	2·74
		Nov.	29·626	1·630	56·0	28·0	28·0	47·6	37·3	10·3	42·3	38·1	·230	2·7	0·5	86	547	61·2	31·8	2·5	9	8	8	5	–	5·2	19	1·62
		Dec.	29·893	1·359	56·0	25·0	31·0	48·3	38·1	10·2	43·4	39·7	·244	2·8	0·4	87	551	56·8	32·8	2·0	1	2	23	5	–	4·8	16	0·65

NOTE.—*The Barometer Reading*, HOLKHAM, 27th November, 3h. p.m., 30·432 in. has been altered to 29·432 in. HELSTON, 28th November, 3h. p.m., 29·200 in. has been altered to 30·200 in. STRATHFIELD TURGISS, 6th December, 3h. p.m., 29·352 in. has been altered to 30·352 in. PORTSMOUTH, 13th December, 3h. p.m., 29·654 in. has been altered to 30·654 in. COCKERMOUTH, 24th December, 9h. a.m., 30·683 in. has been altered to 30·083 in. ALLENHEADS, 31st December, 3h. p.m., 29·008 in. has been altered to 28·008 in.

NOTTINGHAM.—The mean monthly values of barometer have been corrected by the application of −0·063 in. to reduce them to the height of 241 feet above sea level to accord with previous series.
TAUNTON.—October. The mean reading of the minimum on grass is deduced from observations to the 22d. Thermometer then broken.
GLOUCESTER.—October. Dry and wet bulb thermometer sent away for verification. In November the mean of dry and wet thermometers are deduced from the 8th onwards. (Many of the minimum radiation thermometer are higher than the minimum in air.)
BRADFORD.—October. Means deduced from 27 days observations. In November from 23 days observations.
ALLENHEADS.— " " 27 " 26 "
WISBECH.—The Wet bulb thermometer readings in each month are mostly higher than the Dry, and therefore cannot be used.
ST. JOHN'S COLLEGE, BATTERSEA.—The readings of the wet bulb thermometer are apparently too high.

ERRATA.—Meteorological Table, Quarter ending 30th September 1873:—

HELSTON, 16th Column, *for* 90·5 *read* 93·8
BOURNEMOUTH, 7th " " 41·0 " 27·7
WORTHING, 2d " " 77·3 " 77·2
" 4th " " 33·8 " 33·7
" 9th " " 60·0 " 59·6
" 12th " " 3·6 " 4·6
" 17th " " 58·9 " 48·9
BRIGHTON, 16th Column, *for* 119·9 *read* 119·6
TAUNTON, 14th " " 87 " 77
STRATHFIELD TURGISS, 7th " " 47·7 " 37·7
MARLBOROUGH COLLEGE, 6th " " 51·0 " 50·0
ROYAL OBSERVATORY, 7th " " 48·7 " 38·7
ROYSTON, 15th " " 509 " 529
CARDINGTON, 18th Column, *for* 0·7 *read* 0·9
HULL, 16th " " 99·0 " 95·7
STONYHURST, 4th " " 56·0 " 56·2
" 15th " " 537 " 533
" 24th " " 7·8 " 7·4
BRADFORD, 9th " " 57·9 " 57·5
LEEDS, 24th Column, *for* 7·8 *read* 6·9
SILLOTH, 3d " " 34·0 " 37·4
BYWELL, 6th " " 53·8 " 52·8
" 13th " " 2·3 " 1·6
" 17th " " 41·5 " 48·1
MILTOWN, 26th " " 11·29 " 11·22

Second Rain-gauges are placed—

				October.	November.	December.	Total during the Quarter.
At Portsmouth,	at the height of	20 feet	*above the ground*, the amount collected was	4·64 inches.	2·45 inches.	0·61 inches.	7·70 inches.
" Strathfield Turgiss,	"	38 feet	" "	1·98 "	1·88 "	0·46 "	4·32 "
" Eccles, Manchester,	"	34 feet	" "	3·80 "	1·76 "	0·53 "	6·09 "
" Carlisle,	"	3 feet	" "	0·89 "	1·05 "	1·13 "	3·07 "
" Miltown, Ireland,	"	40 feet	" "	2·37 "	1·62 "	0·55 "	4·74 "
" Oxford,	"	22 feet	" "	2·55 "	1·58 "	0·50 "	4·63 "
" Marlborough College,	"	8 inches	" "	2·55 "	3·25 "	0·58 "	6·38 "
" " "	"	1 foot	" "	2·53 "	3·18 "	0·55 "	6·26 "
" Cardington,	"	36 feet	" "	1·90 "	1·75 "	0·38 "	4·03 "
" Nottingham,	"	39 feet	" "	1·19 "	2·13 "	— "	— "
" Wisbech,	"	8 feet	" "	2·43 "	1·38 "	0·52 "	4·33 "
" Aldershot Camp,	"	25 feet	" "	2·13 "	1·83 "	0·47 "	4·43 "

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·726	68·5	32·0	36·5	53·2	45·2	22·5	8·0	49·0	44·7	·302	3·4	0·5	86	543	—	—	1·3	6	7	9	9	4·0	6·2	48	5·76
Helston	—	70·0	28·0	42·0	55·8	46·8	28·7	9·0	51·1	43·4	·281	3·4	1·1	75	542	63·9	47·3	1·8	7	5	8	10	4·6	6·2	54	5·76
Truro	29·734	72·0	25·0	47·0	53·4	42·3	33·3	11·1	47·6	42·9	·277	3·2	0·6	84	547	—	—	2·2	7	5	7	12	—	7·1	64	6·46
Sidmouth	29·727	69·3	27·0	42·3	52·3	41·3	31·7	11·0	46·7	45·1	·301	3·5	0·3	94	548	—	—	1·0	8	7	4	12	—	3·9	34	6·46
Osborne	29·737	72·6	26·3	46·3	52·3	41·0	31·9	11·3	46·3	43·6	·286	3·3	0·3	90	546	66·0	30·3	0·3	7	5	9	10	—	7·2	44	7·79
Bournemouth	—	65·2	24·9	40·3	51·0	41·6	30·0	9·4	45·9	42·1	·269	3·1	0·5	87	551	—	—	—	11	3	5	11	—	4·8	43	7·79
Brighton	29·753	68·5	26·3	42·2	50·7	41·1	28·6	9·6	45·9	42·4	·273	3·1	0·4	89	546	79·8	35·8	0·9	8	4	7	12	—	7·4	45	5·79
Taunton	29·745	76·5	18·5	58·0	51·7	38·4	39·8	13·3	45·0	42·4	·273	3·1	0·3	91	549	56·9	35·4	0·2	9	4	4	13	2·3	7·2	37	5·79
Wilton House	29·776	71·0	17·0	54·0	52·6	35·5	41·2	17·1	43·8	40·4	·253	2·9	0·4	89	549	76·2	32·7	1·3	7	8	5	11	—	6·9	35	5·79
Barnstaple	29·716	72·0	25·0	46·0	52·3	42·4	31·5	9·9	47·1	44·3	·293	3·4	0·4	89	547	—	—	1·2	3	7	11	10	—	6·1	39	5·79
Aldershot Camp	29·733	74·6	15·4	59·2	55·9	37·5	39·7	13·4	43·9	40·7	·255	2·8	0·4	89	545	72·0	35·0	1·4	5	4	11	10	1·7	7·6	39	5·76
Strathfield Turgiss	29·774	71·8	17·4	54·4	50·4	37·4	39·0	13·0	44·0	40·5	·254	2·9	0·4	88	548	77·5	34·1	0·5	6	8	5	12	3·8	7·1	34	5·76
Weybridge Heath	29·804	74·0	16·5	57·5	50·2	38·2	40·3	12·0	43·6	39·9	·248	2·8	0·4	88	550	65·4	35·8	0·5	5	7	13	6	0·7	6·9	36	6·79
Marlborough College	29·780	69·7	15·8	53·9	49·9	35·9	42·2	14·0	42·7	40·0	·249	2·8	0·3	90	545	73·1	34·6	—	6	8	8	9	—	7·9	41	6·79
Royal Observatory	29·754	75·1	21·1	54·0	50·9	38·2	38·3	12·7	44·2	40·7	·255	2·9	0·5	88	549	71·1	32·6	0·4	4	6	9	12	—	7·2	35	5·79
Camden Town	29·760	73·4	22·9	50·5	51·0	38·3	37·1	12·7	44·6	40·5	·253	2·9	0·5	85	549	60·3	35·0	—	8	4	3	15	—	6·8	37	5·79
Oxford	29·765	71·7	20·1	51·6	50·0	38·5	39·2	11·5	44·2	40·0	·248	2·8	0·5	85	548	75·9	35·0	0·8	5	6	10	10	1·1	7·8	38	4·79
Gloucester	—	70·0	11·1	58·9	50·2	37·7	42·0	12·5	—	—	—	—	—	—	—	64·4	—	0·7	7	5	9	10	0·5	6·2	33	4·79
Royston	29·771	72·9	20·6	52·3	50·6	37·1	39·9	13·5	43·6	40·0	·248	2·9	0·4	87	547	—	—	—	—	—	—	—	—	6·4	29	4·79
Cardington	29·758	72·0	20·0	52·0	50·4	36·6	39·0	13·8	43·3	40·4	·251	2·9	0·4	90	551	56·5	29·5	0·7	4	5	7	14	—	6·4	29	4·79
Somerleyton Rectory	29·725	72·0	20·6	51·4	51·5	38·0	35·8	13·5	44·6	42·1	·270	3·1	0·3	91	550	—	29·2	0·8	6	4	10	11	6·3	5·5	45	4·79
Norwich	29·717	69·5	22·0	47·5	49·3	37·3	34·2	12·0	43·5	41·6	·264	3·0	0·3	93	551	—	—	—	5	4	10	11	—	—	30	4·79
Wisbech	—	71·1	23·5	47·6	50·2	38·2	34·1	12·0	43·5	—	—	—	—	—	—	72·7	33·1	0·4	5	2	12	12	2·2	6·3	36	4·79
Llandudno	29·694	67·4	30·0	37·4	51·4	41·6	28·8	9·8	46·6	41·3	·261	3·0	0·6	82	546	—	—	0·8	2	5	6	17	—	6·6	46	7·79
Derby	29·713	67·0	21·0	46·0	49·4	38·3	33·3	11·1	43·6	40·3	·251	2·9	0·5	88	548	—	—	—	5	4	8	14	—	—	39	5·79
Holkham	29·726	71·2	21·8	49·4	50·7	36·5	38·9	14·2	44·1	39·5	·243	2·8	0·5	84	550	70·0	31·6	1·3	4	4	14	9	—	6·3	33	3·79
Hawarden	29·692	67·0	25·0	42·0	49·1	40·7	31·0	8·4	44·5	41·9	·267	3·1	0·3	90	545	62·2	25·4	1·5	4	2	12	12	0·7	6·6	50	7·79
Liverpool	29·738	68·0	24·5	43·5	49·7	40·9	29·7	8·8	44·8	40·1	·248	2·9	0·5	83	547	—	—	1·2	3	7	10	10	—	6·6	30	7·79
Eccles	29·710	68·4	21·7	46·7	50·2	38·2	34·7	12·0	44·1	39·9	·247	2·8	0·5	86	548	54·7	31·3	0·4	5	4	9	12	2·2	6·7	35	7·79
Moorside, Halifax	29·667	67·1	25·0	42·1	48·4	38·3	31·4	10·1	43·1	40·0	·248	2·8	0·4	89	542	58·4	33·9	—	5	6	5	14	2·5	7·7	42	7·79
Bermerside, Halifax	29·704	68·8	23·2	45·6	47·4	37·7	31·5	9·7	42·7	39·1	·241	2·8	0·4	88	542	67·2	31·9	0·8	4	4	7	15	—	7·6	47	7·79
Hull	29·707	67·0	25·0	42·0	48·8	37·4	31·7	11·4	43·4	38·6	·236	2·8	0·5	85	551	60·5	34·3	—	—	—	—	—	2·0	—	40	11·79
Stonyhurst	29·720	68·0	24·9	43·1	49·2	38·1	31·6	11·1	43·3	39·8	·244	2·8	0·5	87	544	76·3	33·5	—	6	4	9	12	—	7·4	79	11·79
Bradford	29·669	68·4	28·0	40·4	50·1	39·3	29·9	10·8	44·5	40·5	·253	2·9	0·5	86	542	56·4	—	0·8	—	—	—	—	—	7·8	35	4·79
Leeds	29·682	70·0	25·0	45·0	49·7	38·9	33·0	10·8	44·7	40·4	·252	2·9	0·5	85	547	54·8	—	1·2	7	4	4	15	—	7·9	46	11·79
Cockermouth	29·634	64·2	23·0	41·2	49·7	40·3	34·1	9·4	44·5	40·8	·256	3·0	0·4	87	549	63·4	30·9	0·5	1	8	13	9	2·8	6·4	53	11·79
Allenheads	29·610	61·3	21·0	40·3	46·2	34·8	31·3	11·4	40·0	37·1	·221	2·6	0·4	90	526	67·6	31·9	1·5	—	—	—	—	—	6·8	61	10·79
Silloth	29·645	63·0	23·4	39·6	50·5	39·6	33·2	10·9	44·8	38·8	·236	2·8	0·7	79	548	69·3	34·7	1·5	4	7	6	14	9·8	6·4	49	9·79
Carlisle	29·654	63·1	21·3	41·8	49·3	36·6	36·0	12·7	42·7	39·7	·244	3·0	0·3	89	549	57·2	32·2	1·7	2	5	9	14	5·7	6·5	46	12·79
Bywell	29·629	64·0	27·0	37·0	50·6	39·5	29·7	11·1	44·6	37·5	·225	2·6	0·8	77	547	59·0	31·9	1·3	4	5	6	16	—	5·1	32	5·79
Miltown (Ireland)	29·654	65·0	25·0	40·0	49·5	38·0	32·7	11·5	43·5	39·5	·243	2·8	0·5	86	547	66·7	32·8	2·1	5	4	15	7	—	4·9	36	5·79

The highest temperatures of the air were at Taunton, 76°·5; Royal Observatory, 75°·1; Aldershot Camp, 74°·6; Weybridge Heath, 74°·0; Camden Town, 73°·4; and at Royston, 72°·9.

The lowest temperatures of the air were at Gloucester, 11°·1; Aldershot Camp, 15°·4; Marlborough College, 15°·8; Weybridge Heath, 16°·5; Wilton House, 17°·0; and at Strathfield Turgiss, 17°·4.

The greatest daily ranges of the temperatures of the air were at Holkham, 14°·2; Marlborough College, 14°·0; Cardington, 13°·9; Royston and Somerleyton, 13°·5; Aldershot Camp, 13°·4; Taunton, 13°·3; Strathfield Turgiss, 13°·0; and at Royal Observatory, Camden Town, and Carlisle, 12°·7 respectively.

The least daily ranges of the temperatures of the air were at Guernsey, 8°·0; Hawarden, 8°·4; Liverpool, 8°·8; Helston, 9°·0; Bournemouth and Cockermouth, 9°·4 respectively; Brighton, 9°·6; Bermerside, Halifax, 9°·7; and at Llandudno, 9°·8.

The greatest numbers of rainy days were at Stonyhurst, 79; Helston, 64; Allenheads, 61; Miltown, 56; Eccles, 55; Helston, 54; Cockermouth, 53; Bywell, 52; and at Hawarden and Liverpool, 50 respectively.

The least numbers of rainy days were at Cardington, 29; Norwich, 30; Holkham and Gloucester, 33 respectively; Sidmouth and Strathfield Turgiss, 34 respectively; Wilton House, Royal Observatory, and Bradford, 35 respectively; and at Weybridge Heath and Wisbech, 36 respectively.

The heaviest falls of rain were at Stonyhurst, 14·94 inches; Cockermouth, 12·09 inches; Allenheads, 10·40 inches; Silloth, 9·60 inches; Guernsey, 9·43 inches; and at Helston, 8·96 inches.

The least falls of rain were at Norwich, 3·44 inches; Holkham, 3·73 inches; Gloucester, 4·01 inches; Somerleyton, 4·08 inches; Hull, 4·32 inches; Wisbech, 4·36 inches; Leeds, 4·44 inches; and at Cardington, 4·60 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·726	68·5	32·0	36·5	53·2	45·2	22·5	8·0	49·0	44·7	·302	3·4	0·5	86	543	—	—	1·3	6	7	9	9	4·0	6·2	48	5·76
Between the latitudes 50° and 51°	29·738	69·6	26·5	43·3	52·6	42·4	30·7	10·2	47·3	43·2	·281	3·3	0·5	86	547	69·9	37·8	1·2	8	5	7	11	—	6·1	48	5·76
51° and 52°	29·761	73·0	19·1	53·9	51·0	38·0	38·8	13·0	44·3	40·9	·258	2·9	0·4	88	548	69·9	34·6	0·8	6	6	8	11	1·9	7·2	37	4·79
52° and 53°	29·729	70·3	21·2	49·1	50·4	37·9	36·2	12·5	44·1	40·7	·258	3·0	0·4	88	549	65·0	30·9	0·8	5	4	9	13	3·0	6·3	49	4·79
53° and 54°	29·700	68·1	24·7	43·4	49·2	38·8	31·6	10·4	43·9	40·0	·249	2·9	0·5	87	545	61·3	31·7	1·0	5	4	8	13	1·9	7·2	32	4·79
54° and 55°	29·634	63·1	23·1	40·0	49·3	38·2	32·9	11·1	43·3	38·8	·236	2·8	0·5	84	543	63·3	32·3	1·3	3	6	9	13	5·1	6·2	32	3·79
Miltown, Banbridge (Ireland)	29·654	65·0	25·0	40·0	49·5	38·0	32·7	11·5	43·5	39·5	·243	2·8	0·5	86	547	66·7	32·8	2·1	5	4	15	7	—	4·9	36	5·79
Mean for the Quarter, 50° to 55° — Year 1870	29·571	67·8	11·1	56·7	47·7	35·4	36·4	12·3	41·3	37·4	·227	2·7	0·5	83	547	62·6	24·6	0·9	7	7	6	11	—	6·4	30	11·79
" 1871	29·762	65·0	19·1	45·9	48·5	36·7	31·6	11·8	42·3	38·4	·232	2·7	0·5	87	550	68·1	31·2	0·9	6	6	8	10	3·1	6·2	46	6·79
" 1872	29·368	63·5	25·6	37·9	50·3	39·6	30·6	10·7	44·7	41·1	·260	3·0	0·4	88	540	64·7	34·1	1·2	5	5	10	10	3·6	6·7	67	12·79
" 1873	29·714	68·8	22·8	46·0	50·5	39·1	34·0	11·4	44·6	40·8	·256	2·9	0·5	87	546	66·1	33·5	1·0	5	5	8	12	3·2	6·6	43	7·79

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING MARCH 31, 1874.

Remarks on the Weather during the Quarter ending March 31st, 1874.

By James Glaisher, Esq., F.R.S., *&c.*

The warm period which set in on 15th December 1873, continued with very few and slight exceptions throughout the whole of January and until the 3d day of February, the average daily excess of mean temperature for these 51 days was 4°·6, and for the 34 days from 1st January was 4°·7; during this lengthened warm period, the direction of the wind was usually a compound of the S. and W. On the 4th of February the wind was N.E., and a cold period began, which continued till the 12th day, the direction of the wind being usually a compound of the E. with N. or S., the average daily deficiency was 6½°.

On the 12th day of February the direction of the wind changed to S.W., and the temperature of the air passed above the average, and continued above for 19 days, its average daily excess was 3°·1; this was followed by 10 days of cold weather, from March 4th to March 13th, and during this period snow fell generally over the country, the average daily deficiency of temperature being 4¼°; from March 13th to the end of the quarter the weather was warm, and the average excess of mean daily temperature was 5¼° nearly.

The mean temperature for the month of January at Greenwich was 1°·1 higher than that of December, that of February was 3° below that of January, and that of March was 5° above that of February. From the preceding 33 years observations the mean temperature of January is lower than that of December by 2°, that of February is higher than that of January by 1°, and that of March is higher than that of February by 2¼°. The excess of temperature of January (1873) over that of December was not general over the whole country but extended from extreme southern stations to latitude 52°, the mean increase between these parallels being 1°·1. North of the parallel of 52°, January was of lower temperature than the preceding December, to the mean amount of 1°·0; there was a decrease of temperature from January to February, everywhere, its average over the whole country being 2°·6; and there was a general increase from February to March, its mean value being 4°·2.

The reading of the barometer at 159 feet above the level of the sea was variable till the 20th of January. On the 1st it was 30 inches, decreased to the lowest point in the month on the 3d, viz., 29·12 ins.; increased to 30·2 ins. on the 6th, was generally about 29·7 ins. and 29·8 ins. from the 8th to the 15th, decreased to 29·17 on the 16th, passed above 30 ins. on the 21st, and continued at or above 30 ins. till the end of the month. The highest reading in the month was 30·39 ins. on the 25th. In February, the reading of the barometer continued high till the 13th day, and after this was alternately above and below its average till the end of the month. The highest reading was 30·46 ins. on the 4th, and the lowest was 28·95 ins. on the 26th.

In March the barometer reading was somewhat below its average on the 8th, 9th, 10th, and 11th; again on the 19th, 29th, and 31st, on all other days it was above. The highest reading in the month was 30·56 ins. on the 6th, and the lowest was 29·37 ins. on the 9th.

At Greenwich the decrease of atmospheric pressure from December 1873 to January 1874 was 0·216 in.; from January to February it was 0·039 in., and the increase from February to March was 0·161 in. The mean decrease from all stations from December to January was 0·223 in., from January to February it was 0·022 in., and from February to March there was an increase of 0·175 in.

The mean temperature of January was 41°·7 being 5°·4 higher than the average of 103 years, and 3°·4 higher than the average of the preceding 33 years. It was 0°·4 lower than in 1873 and 0·4 higher than in 1871, so that the mean temperature for the last 3 consecutive Januaries is 41°·7. Back to 1771 there is only one instance in which the mean temperature of 3 consecutive Januaries has been so high, viz., in the years 1851, 1852, and 1853 when the values were 42°·9, 42°·0, and 42°·4, the mean of which is 42°·4. Since the year 1771 there have been 9 Januaries of somewhat higher temperature than in last January, viz.:—

In the year 1796 it was 45°·3. In the year 1846 it was 43°·7. In the year 1853 it was 42°·4.
" 1804 " 43°·2. " 1851 " 42°·9. " 1863 " 41°·8.
" 1834 " 44°·4. " 1852 " 42°·0. " 1866 " 42°·6.

The mean temperature of February was 38°·7, being 0°·6 lower than the average of the preceding 33 Februaries, 4°·4 warmer than in 1873, and 6°·1 colder than in 1872.

The mean temperature of March was 43°·7 being 2¾° higher than the average of 103 years, and 2°·1 higher than that of the preceding 33 years, higher than in 1873 by 1°·8, but lower than in 1872 by 0°·9. The month of March was warm, but back to 1771 the mean temperature has been exceeded 21 times.

The mean temperature of the quarter was 41°·4, the average temperature for the first 3 months of the year as found from the previous 103 years was 38°·7, and as found from the preceding 33 years 39°·8; the excess of temperature for the quarter over the former is 2°·7, and over the latter is 1°·6.

The mean high day temperatures were respectively 4°·1 and 2°·9 higher than their averages in January and March, but 0°·5 lower in February.

The mean low night temperatures were higher than their respective averages in January and March by 2°·6 and 1°·4, but lower in February by 0°·7.

Thus the days and nights were warm in January and March, but somewhat cold in February.

The daily ranges of temperature were greater than their respective averages in January, February, and March by 1°·5, 0°·2, and 1°·5 respectively.

The fall of rain in January was one inch, being only about one half of the average, in February it was 0·94 in., being about two thirds of the average, and in March it was 0·45 in. only, being less than one third of the average. Since the year 1815 there have been 12 Januaries with falls of one inch, or less than one inch, viz., the fall

In the year 1815 was 0·9.	In the year 1829 was 0·4.	In the year 1858 was 0·8.
„ 1822 „ 0·6.	„ 1835 „ 0·7.	„ 1859 „ 0·8.
„ 1824 „ 1·0.	„ 1838 „ 0·9.	„ 1861 „ 0·6.
„ 1826 „ 0·3.	„ 1842 „ 1·0.	„ 1864 „ 0·9.

Since the year 1815 there have been 16 Februaries with falls of one inch or less than one inch, viz., the fall

In the year 1820 was 0·6.	In the year 1832 was 0·9.	In the year 1863 was 0·5.
„ 1821 „ 0·4.	„ 1855 „ 1·0.	„ 1864 „ 0·8.
„ 1825 „ 1·0.	„ 1856 „ 0·9.	„ 1870 „ 0·5.
„ 1827 „ 0·7.	„ 1857 „ 0·2.	„ 1872 „ 0·8.
„ 1834 „ 0·4.	„ 1859 „ 0·9.	
„ 1845 „ 0·9.	„ 1862 „ 0·5.	

Since the year 1815 there have been 19 instances in March with falls of one inch or less than one inch, viz., the fall

In the year 1828 was 1·0.	In the year 1840 was 0·3.	In the year 1854 was 0·3.
„ 1829 „ 0·7.	„ 1843 „ 0·5.	„ 1857 „ 1·0.
„ 1830 „ 0·3.	„ 1846 „ 0·9.	„ 1858 „ 0·8.
„ 1833 „ 1·0.	„ 1847 „ 0·8.	„ 1863 „ 0·7.
„ 1834 „ 0·7.	„ 1849 „ 0·6.	„ 1865 „ 0·8.
„ 1837 „ 0·5.	„ 1850 „ 0·4.	
„ 1838 „ 1·0.	„ 1852 „ 0·2.	

So that five times only, viz., in the years 1830, 1840, 1850, 1852, and 1854, has the fall of rain in March been smaller than in March 1874.

The fall of rain in the three months ending 31st March 1874 was 2·39 ins., the average fall for these three months is 5·0 ins., so that the fall is less than one half of its usual amount; back to 1815 the instances of falls in these three months not exceeding 3 ins. are as follows:—

In the year 1820 it was 3·0.	In the year 1829 it was 2·4.
„ 1854 „ 2·9.	„ 1874 „ 2·4.

So that the only instance of so small a fall in these months was in the year 1829.

The fall of rain in December was 0·3 in. only, and in the four consecutive months ending March the total fall was 2·69 ins.

The average fall for the four months was 7·0 ins., so that for one third part of a year, viz., December to March, the fall of rain has been but little more than one third part of its average fall.

Instances of small falls of rain in these four consecutive months back to 1815 are:—

In 1829	the amount was	4·9.	In 1830	the amount was	4·6.
1847	„	4·7.	1854	„	3·7.
1858	„	3·7.	1859	„	4·8.
1864	„	4·3.	1874	„	2·7.

So that, back to 1815, there is no instance of so small a rainfall as $2\frac{3}{4}$ ins. in these four months.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter, were as follows:—

Direction of Wind.	January.			February.			March.		
	Average.	1874.	Departure from Average.	Average.	1874.	Departure from Average.	Average.	1874.	Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	$1\frac{1}{2}$	2	$+\frac{1}{2}$	2	2	0	$2\frac{3}{4}$	3	$+\frac{1}{4}$
N.	3	3	0	3	4	+1	$3\frac{3}{4}$	4	$+\frac{1}{4}$
N.E.	$3\frac{1}{2}$	0	$-3\frac{1}{2}$	$3\frac{1}{2}$	2	$-1\frac{1}{2}$	4	2	−2
E.	$\frac{3}{4}$	0	$-\frac{3}{4}$	$2\frac{1}{4}$	2	$-\frac{1}{4}$	$2\frac{1}{2}$	1	$-1\frac{1}{2}$
S.E.	$2\frac{1}{2}$	1	$-1\frac{1}{2}$	$1\frac{1}{4}$	3	$+1\frac{3}{4}$	$2\frac{1}{2}$	2	$-\frac{1}{2}$
S.	$4\frac{1}{2}$	3	$-1\frac{1}{2}$	3	4	+1	$2\frac{1}{2}$	1	$-1\frac{1}{2}$
S.W.	$9\frac{1}{4}$	11	$+1\frac{3}{4}$	8	7	−1	$7\frac{1}{4}$	8	$+\frac{3}{4}$
W.	$3\frac{1}{2}$	11	$+7\frac{1}{2}$	3	3	0	$3\frac{1}{2}$	9	$+5\frac{1}{2}$
Calm, nearly.	$2\frac{1}{2}$	0	$-2\frac{1}{2}$	2	1	−1	$2\frac{1}{4}$	1	$-1\frac{1}{4}$

The + signs, denoting excesses over averages, are confined in January entirely to a compound of the W.; in February to N., S.E. and S., and in March to N.W. and N., and to S.W. and W. The prevalence of — signs opposite to E. and compounds of the E., in both January and March are remarkable. The excess in the duration of the West wind in these months is also marked.

Thunderstorms occurred, on the 3rd of January at Guernsey and Helston; and on the 4th at Eccles. On the 8th of March at Helston; on the 9th at Llandudno; and on the 31st at Stonyhurst.

Thunder was heard, but lightning was not seen, on the 4th of January at Halifax.

Lightning was seen, but thunder was not heard, on the 3rd of January at Taunton and Norwich; on the 12th at Norwich; on the 16th at Halifax; and on the 18th at Silloth. On the 18th of February at Osborne and Taunton. On the 9th of March at Eccles, Halifax, and Hull; and on the 10th at Strathfield Turgiss and Halifax.

1874. Months.	Temperature of Air. Mean.	Air. Diff. from average of 103 years.	Air. Diff. from average of 33 years.	Evaporation. Mean.	Evaporation. Diff. from average of 33 years.	Dew Point. Mean.	Dew Point. Diff. from average of 33 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 33 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 33 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 33 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	grs.
Jan. –	41·7	+5·4	+3·4	40·0	+3·1	37·9	+2·9	11·1	+1·5	41·0	0·228	+0·025	2·6	+0·2
Feb. –	38·7	+0·1	−0·6	36·8	−0·8	34·2	−0·9	11·5	+0·2	40·3	0·197	−0·009	2·3	+0·1
Mar. –	43·7	+2·7	+2·1	41·2	+1·9	38·2	+1·8	16·2	+1·5	43·8	0·231	+0·015	2·7	+0·2
Means -	41·4	+2·7	+1·6	39·3	+1·4	36·8	+1·3	12·9	+1·1	41·7	0·219	+0·010	2·5	+0·2

1874. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 33 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 33 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 33 years.	Rain. Amount.	Rain. Diff. from average of 59 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
Jan. –	87	−1	29·891	+0·156	552	−1	1·0	−0·9	334	16	12	3	19·0	42·0
Feb. –	85	0	29·852	+0·056	555	+2	0·9	−0·6	261	18	8	2	14·3	44·7
Mar. –	81	−1	30·013	+0·271	552	+2	0·5	−1·1	332	14	12	5	15·0	46·8
Means -	84	−1	29·919	+0·161	553	+1	Sum 2·4	Sum −2·6	Mean 311	Sum 48	Sum 32	Sum 10	Lowest 14·3	Highest 46·8

NOTE.—In reading this table it will be borne in mind that the minus sign (−) signifies below the average, and that the plus sign (+) signifies above the average.

Solar halos were seen, on the 1st of January at Oxford; and on the 6th at Weybridge Heath. On the 11th of February at Oxford and Halifax. On the 14th of March at Weybridge Heath; on the 20th at Carlisle; on the 21st at Halifax; on the 24th at Oxford; on the 25th at Weybridge Heath, Strathfield Turgiss, and Halifax; on the 26th at Stonyhurst; and on the 27th at Helston.

Lunar halos were seen, on the 2nd of January at Portsmouth, Weybridge Heath, Salisbury, Oxford, Royston, Halifax, and Leicester; on the 3rd at Oxford and North Shields; on the 4th and 6th at North Shields; on the 23rd at Silloth; on the 24th at Oxford; on the 25th at Wisbech; on the 26th at Portsmouth; on the 27th at Halifax; on the 28th at North Shields; and on the 30th at Halifax. On the 1st of February at Bywell; on the 4th at London; on the 24th at Taunton; and on the 28th at London, Oxford, and Halifax. On the 23rd of March at London; on the 24th at Wisbech, Stonyhurst, and North Shields; on the 26th at Halifax, Eccles, Stonyhurst, Cockermouth, and Silloth; on the 27th at Oxford and Halifax; on the 28th at Wisbech and Leicester; on the 30th at Leicester and Halifax; and on the 31st at Halifax.

Auroræ boreales were seen, on the 6th of January at Cockermouth; on the 16th at Weybridge Heath and Silloth; on the 17th at Stonyhurst and Carlisle; on the 18th at Carlisle; and on the 24th at Helston. On the 4th of February at Portsmouth, Taunton, Weybridge Heath, Salisbury, Streatley, Leicester, Oxford, Wisbech, Eccles, Stonyhurst, Cockermouth, Allenheads, Silloth, and Bywell; on the 5th at Silloth; on the 16th at Weybridge Heath; and on the 17th at Silloth. On the 7th of March at Silloth, Bywell, and North Shields.

Snow fell, on the 2nd, 3rd, 4th, 5th, 16th, 17th, 24th, and 25th of January, and on the 8th, 10th, 15th, 17th, 18th, and 26th of February at several stations. On the 7th and 8th of March at Helston; and on the 9th, 10th, 11th, and 12th all over the country.

Hail fell, on 7 days in January, 5 days in February, and 10 days in March.

Fog was more than usually prevalent during the quarter.

Leaf buds first appeared—

On the Field Elm,	the earliest	February 8,	at Eastbourne;	the latest	March 23, at Carlisle.
„ Lime,	„	March 18,	at Weybridge;	„	March 30, at Guernsey.
„ Sycamore,	„	January 19,	at Eastbourne;	„	March 15, at Carlisle.
„ Horsechestnut,	„	January 12,	at Eastbourne;	„	March 25, at Carlisle.
„ Hawthorne,	„	February 8,	at Eastbourne;	„	March 14, at Guernsey.
In leaf Horsechestnut,	„	March 21,	at Helston;	„	March 31, at Guernsey.
„ Hawthorne,	„	March 3,	at Helston;	„	March 28, at Guernsey.
In blossom Peach,	„	February 14,	at Llandudno;	„	March 20, at Wisbech.
„ Plum,	„	March 2,	at London;	„	March 26, at Silloth.
„ Cherry,	„	March 25,	at Miltown;	„	March 31, at Oxford.

Swallow arrived, on the 8th of March at Taunton.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING MARCH 31ST, 1874.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the fifth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1874. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.M.S.	204	Jan.	29·908	1·190	54·0	34·5	19·5	50·3	41·7	8·6	46·1	43·0	·277	3·2	0·4	89	548	–	–	1·6	5	4	11	11	4·4	6·7	20	1·94
		Feb.	29·796	1·464	52·5	27·0	25·5	48·7	39·7	9·0	43·9	39·6	·244	2·8	0·5	85	548	–	–	1·3	6	8	8	6	3·0	3·9	14	2·42
		Mar.	30·032	1·018	60·0	31·0	29·0	50·4	42·0	8·4	45·2	41·1	·258	3·0	0·5	86	551	–	–	1·4	8	4	7	12	4·3	5·1	12	0·85
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	Jan.	30·047	1·170	56·0	32·0	24·0	53·0	42·5	10·5	47·9	43·2	·279	3·4	0·7	84	546	57·8	38·3	1·8	8	3	7	13	4·9	6·3	20	4·57
		Feb.	29·861	1·650	56·0	35·0	21·0	53·2	41·2	12·0	47·1	40·3	·250	3·1	0·9	78	543	63·6	37·0	2·2	4	8	8	8	4·9	5·8	16	2·95
		Mar.	30·149	1·013	60·0	27·0	33·0	54·3	42·9	11·4	47·9	41·4	·261	3·2	0·9	77	553	72·5	39·0	1·8	8	6	7	10	4·2	5·5	11	1·65
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	Jan.	30·054	1·230	55·0	30·0	25·0	51·0	41·0	10·0	45·7	41·2	·260	3·0	0·6	85	551	–	–	2·5	8	1	5	17	–	7·8	23	4·80
		Feb.	29·931	1·598	53·0	31·0	22·0	50·3	40·5	9·8	45·0	39·8	·245	2·8	0·6	82	549	–	–	2·8	5	6	8	9	–	7·5	18	4·35
		Mar.	30·208	0·979	58·0	28·0	30·0	52·7	42·3	10·4	46·5	40·7	·255	2·9	0·7	82	553	–	–	2·7	10	5	2	14	–	7·1	17	1·17
SIDMOUTH (Devon), J. Ingleby Mackenzie, Esq., M.B., F.M.S.	30	Jan.	30·065	1·272	53·8	29·1	24·7	49·3	38·2	11·1	44·3	38·5	·233	2·7	0·6	80	553	–	–	1·0	8	1	3	19	–	4·2	15	2·86
		Feb.	29·955	1·628	52·0	28·1	23·9	47·3	37·8	9·5	42·3	40·3	·250	2·9	0·2	93	553	–	–	1·5	7	7	8	6	–	3·7	16	3·36
		Mar.	30·222	1·110	58·6	25·0	33·6	50·9	39·5	11·4	44·9	41·7	·264	3·0	0·4	90	555	–	–	1·5	7	4	7	13	–	3·5	7	0·47
EASTBOURNE (Sussex), Miss W. L. Hall.	12	Jan.	30·079	1·114	53·0	30·1	22·9	48·9	38·7	10·2	44·2	40·3	·250	2·9	0·4	86	553	57·9	31·6	0·5	5	1	8	17	4·5	–	15	2·99
		Feb.	30·033	1·314	54·6	24·5	30·1	47·0	35·2	11·8	41·2	37·8	·227	2·6	0·4	88	557	71·2	29·3	0·6	7	5	8	8	2·8	–	10	1·16
		Mar.	30·212	0·989	65·5	23·7	41·8	52·7	37·9	14·8	45·4	40·7	·253	2·9	0·5	84	554	92·3	31·4	0·5	10	2	4	15	2·5	–	10	0·79
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	Jan.	29·808	1·264	52·7	28·3	24·4	48·7	37·6	11·1	43·3	41·1	·258	3·0	0·3	92	550	58·3	27·1	0·3	4	2	10	15	–	7·6	16	1·82
		Feb.	29·830	1·462	55·3	25·4	29·9	47·3	34·9	12·4	41·0	38·5	·233	2·7	0·3	91	552	67·3	24·7	0·2	5	6	7	10	–	6·2	14	2·18
		Mar.	30·048	1·108	62·3	23·7	38·6	52·3	37·2	15·1	44·2	41·2	·260	2·9	0·4	89	552	79·1	33·0	0·2	5	4	8	14	–	6·5	15	0·46
BOURNEMOUTH (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	128	Jan.	30·050	1·330	53·2	31·3	21·9	48·4	38·7	9·7	43·8	38·1	·230	2·8	0·4	80	553	–	–	–	7	1	7	16	–	4·5	15	2·17
		Feb.	30·015	1·420	51·0	25·3	25·7	45·9	36·2	9·7	40·8	38·5	·235	2·8	0·4	92	556	–	–	–	10	6	6	6	–	4·8	13	2·25
		Mar.	30·230	1·070	58·0	25·9	32·1	50·7	39·3	11·4	44·4	40·1	·250	2·9	0·4	84	556	–	–	–	10	4	3	14	–	4·6	7	0·20
PORTSMOUTH, William C. Ellis, Esq.	16	Jan.	30·082	1·310	56·2	25·0	31·2	51·9	37·3	14·6	44·7	38·8	·236	2·7	0·6	80	553	54·4	33·6	1·6	4	3	10	14	1·9	6·5	15	1·52
		Feb.	30·028	1·500	55·8	22·4	33·4	48·9	34·3	14·6	40·7	38·5	·234	2·7	0·4	92	556	66·2	32·0	2·5	4	5	8	11	1·5	5·5	13	1·70
		Mar.	30·216	1·126	—	—	—	—	—	—	—	—	—	—	—	—	—	80·0	34·0	2·0	5	5	8	13	2·5	6·5	8	0·36
WORTHING (Sussex), W. J. Harris, Esq., M.R.C.S.E., L.S.A., F.M.S.	31	Oct.	29·834	1·591	69·0	32·1	36·9	58·4	44·5	13·9	50·1	48·0	·335	3·8	0·3	93	541	92·5	40·2	0·8	6	8	6	11	2·9	6·0	19	3·94
		Nov.	29·842	1·245	59·5	34·8	24·7	51·3	41·8	9·5	46·3	41·6	·251	3·0	0·6	88	546	69·8	37·7	1·0	8	8	4	10	3·8	6·8	14	1·75
		Dec.	30·231	1·036	54·8	26·9	27·4	47·6	38·4	9·2	43·2	39·6	·242	2·8	0·4	87	557	60·9	34·1	0·6	9	4	6	12	4·4	6·3	7	0·66
		Jan.	30·070	1·251	52·7	29·2	23·5	47·9	38·1	9·8	43·2	39·9	·247	2·8	0·4	88	554	65·4	32·5	0·9	6	3	6	16	2·8	6·0	17	2·04
		Feb.	29·963	1·529	55·0	28·6	26·4	46·6	36·8	9·8	41·4	37·8	·238	2·6	0·4	88	554	72·1	–	1·0	6	6	8	8	3·9	5·4	9	1·07
		Mar.	30·181	1·185	58·5	23·4	35·1	51·4	38·8	12·6	44·5	40·0	·247	2·9	0·4	84	555	91·4	32·9	0·9	9	3	3	16	2·3	6·0	7	0·64
BRIGHTON (Sussex), Frederick E. Sawyer, Esq., F.M.S.	200	Jan.	29·880	1·223	51·0	29·7	20·3	46·0	38·1	7·9	42·2	39·6	·243	2·8	0·3	90	551	71·4	31·5	0·9	8	0	7	16	–	6·7	16	2·23
		Feb.	29·824	1·551	50·4	25·0	25·4	44·2	35·8	8·4	39·8	36·8	·219	2·6	0·3	90	553	72·8	30·5	0·9	9	5	8	6	–	6·2	10	1·56
		Mar.	30·011	1·159	58·0	22·8	35·2	48·9	38·5	10·4	43·3	38·7	·235	2·7	0·5	83	553	86·9	32·8	0·9	8	2	5	16	–	7·9	11	0·60
TAUNTON (Somerset), James Bottomley, Esq.	80	Jan.	29·966	1·281	54·0	25·0	29·0	49·3	38·3	11·0	44·0	40·9	·257	2·9	0·4	89	551	53·8	33·4	0·3	7	1	7	16	6·1	6·6	16	3·16
		Feb.	29·902	1·598	54·2	15·5	38·7	47·9	33·4	14·5	40·9	38·8	·236	2·7	0·3	93	553	53·4	30·5	0·4	7	7	6	8	3·0	7·4	15	2·72
		Mar.	30·158	1·098	61·0	26·0	35·0	52·7	38·7	14·0	45·3	40·0	·248	2·8	0·6	82	553	62·1	35·5	0·4	12	3	4	12	7·2	2·8	10	0·39
WILTON HOUSE (near Salisbury), T. Challis, Esq.	186	Jan.	29·882	1·222	56·0	21·0	35·0	49·5	32·0	17·5	41·2	38·5	·233	2·7	0·3	91	553	68·4	28·7	1·0	2	5	8	16	4·0	7·0	16	2·84
		Feb.	29·798	1·588	54·0	29·0	34·0	48·4	30·7	17·7	39·5	36·5	·216	2·5	0·3	89	553	79·4	27·9	1·4	5	10	8	5	–	6·8	12	2·96
		Mar.	30·019	1·122	68·0	29·5	47·5	55·2	34·9	20·3	44·0	41·8	·265	3·0	0·3	92	552	94·6	33·0	1·6	8	4	7	12	3·2	6·9	12	0·58
BARNSTAPLE (Devon), [illegible]	43	Jan.	30·028	1·340	55·0	30·0	25·0	49·7	39·6	10·1	44·3	42·7	·273	3·2	0·2	93	551	–	–	1·2	5	2	10	14	–	6·1	24	4·06
		Feb.	29·928	1·760	54·5	30·5	24·0	48·7	36·8	9·9	44·4	40·7	·255	2·9	0·4	88	551	–	–	1·5	4	6	12	6	–	5·3	17	2·81
		Mar.	30·218	1·102	58·5	27·5	30·5	52·5	38·5	14·0	46·4	40·8	·265	3·0	0·3	90	552	–	–	1·5	5	3	8	15	–	5·7	14	2·07

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1874. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
ALDERSHOT CAMP (Hants), John Arnold, Esq., M.S.C., F.M.S.	325	Jan.	29·701	1·112	53·8	29·2	24·6	47·9	35·3	12·6	40·2	38·3	·232	2·7	0·3	93	551	69·4	31·9	1·6	4	0	14	13	1·8	7·6	20	1·82
		Feb.	29·652	1·410	52·4	22·0	30·4	45·0	32·7	12·3	38·4	36·3	·214	2·4	0·3	93	552	69·3	28·2	1·5	5	4	9	10	1·6	7·9	16	2·27
		Mar.	29·822	1·122	67·2	22·0	45·2	53·9	35·4	18·5	43·4	38·4	·232	2·7	0·4	82	548	88·1	30·2	1·8	7	3	6	15	1·9	7·3	9	0·48
ST. AUGUSTINE'S MONASTERY, (Ramsgate), Rev. E. J. Stutter, O.S.B.	108	Jan.	29·973	1·028	52·5	30·5	22·5	47·5	37·2	10·3	43·3	41·1	·259	3·0	0·3	92	552	71·3	33·8	1·8	6	3	5	17	–	6·3	–	–
		Feb.	29·934	1·305	54·3	24·0	30·3	45·6	35·2	10·4	40·7	38·2	·231	2·7	0·2	91	556	80·5	32·7	1·4	6	4	11	7	–	7·6	–	–
		Mar.	30·055	1·226	61·0	25·3	35·7	51·6	38·2	13·4	44·6	40·4	·253	2·9	0·5	86	552	99·4	34·5	1·5	8	5	5	13	–	7·0	–	–
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	Jan.	29·873	1·236	53·0	30·0	23·0	47·3	35·5	11·8	41·6	38·2	·231	2·7	0·3	89	551	70·8	31·3	0·6	4	2	9	16	4·5	6·4	15	2·11
		Feb.	29·812	1·308	52·9	22·6	30·3	45·3	32·6	12·7	38·8	36·2	·215	2·5	0·3	92	551	71·6	28·1	0·6	7	7	7	7	3·5	7·1	12	1·79
		Mar.	29·996	1·136	64·7	24·3	40·4	52·3	36·5	15·8	43·8	38·4	·232	2·7	0·5	91	552	97·2	31·2	0·8	7	4	6	14	5·2	6·7	12	0·49
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	Jan.	29·955	1·121	54·3	27·5	26·8	46·1	36·5	9·6	41·2	38·5	·232	2·7	0·4	91	554	57·0	31·3	0·8	4	4	16	7	1·4	6·2	15	1·19
		Feb.	29·892	1·580	54·0	29·5	33·5	45·0	33·4	11·6	38·6	35·5	·210	2·4	0·4	90	556	62·7	30·9	0·7	6	8	12	2	1·4	6·7	13	1·52
		Mar.	30·073	1·166	67·5	19·5	48·0	53·4	35·8	17·6	43·8	38·8	·236	2·7	0·6	82	553	83·2	32·5	0·8	5	3	13	10	1·3	6·4	13	0·49
MARLBOROUGH COLLEGE (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	456	Jan.	29·581	1·282	52·2	25·3	26·9	46·8	34·3	12·5	40·6	38·8	·236	2·7	0·2	93	548	63·4	31·8	–	4	0	14	13	–	8·0	18	3·46
		Feb.	29·534	1·528	54·4	21·3	33·1	44·7	31·8	12·9	38·3	34·7	·202	2·3	0·3	88	550	74·6	31·1	–	7	6	6	9	–	8·2	16	2·57
		Mar.	29·720	1·154	61·0	22·6	38·4	50·7	35·7	15·0	42·1	38·3	·233	2·7	0·4	87	549	101·0	34·7	–	9	5	4	13	–	8·0	13	0·93
ROYAL OBSERVATORY (Kent), The Astronomer Royal.	159	Jan.	29·891	1·275	55·0	23·1	26·9	47·3	36·2	11·1	41·7	37·9	·228	2·6	0·4	87	552	63·7	30·7	0·6	4	0	9	18	–	6·6	12	1·00
		Feb.	29·852	1·599	55·9	21·0	34·9	45·0	33·5	11·5	38·7	34·2	·197	2·3	0·5	85	555	68·5	28·1	0·4	5	7	11	5	–	7·1	9	0·94
		Mar.	30·013	1·187	65·4	22·6	42·8	52·8	36·6	16·2	43·7	38·2	·231	2·7	0·6	81	552	87·4	30·3	0·7	7	3	6	15	–	6·5	11	0·45
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.A.S., F.M.S.	150	Jan.	29·933	1·305	53·7	27·8	25·9	47·9	36·2	11·7	42·4	39·2	·239	2·7	0·4	89	552	52·7	–	1·7	5	1	10	15	–	6·3	18	1·99
		Feb.	29·821	1·630	54·4	21·9	32·5	45·9	34·1	11·8	40·0	37·0	·220	2·5	0·4	90	553	51·4	–	1·5	6	4	8	10	–	6·8	11	2·07
		Mar.	30·063	1·154	68·8	18·4	50·4	54·1	36·2	17·9	45·3	40·3	·230	3·1	0·6	82	551	65·3	–	1·7	9	2	7	13	–	6·6	9	0·59
ST. JOHN'S COLLEGE, BATTERSEA, Rev. J. P. Faunthorpe, M.A., F.R.G.S.	13	Jan.	30·006	1·270	57·0	25·0	32·0	52·0	33·0	19·0	42·7	40·8	·255	2·9	0·4	92	553	60·6	25·6	1·3	2	4	12	13	–	7·6	12	1·92
		Feb.	29·976	1·458	55·0	21·0	35·0	45·8	30·6	15·2	39·0	35·8	·210	2·4	0·4	89	557	55·8	24·6	1·5	3	4	12	9	–	7·3	12	1·05
		Mar.	30·150	1·138	66·0	22·0	44·0	49·2	29·5	19·7	44·3	41·5	·261	3·0	0·4	90	554	68·3	27·5	2·0	2	3	11	15	–	6·8	8	0·53
CAMDEN TOWN (London), G. J. Symons, Esq., F.M.S.	123	Jan.	29·941	1·102	55·4	28·0	27·4	47·4	35·9	11·5	42·1	38·6	·234	2·7	0·4	87	553	52·9	33·7	–	5	0	8	18	–	6·3	17	1·18
		Feb.	29·893	1·524	54·5	22·4	32·1	44·8	33·3	11·5	39·2	36·0	·212	2·4	0·4	92	555	54·9	31·1	–	10	2	9	7	–	6·6	16	0·91
		Mar.	30·065	1·182	65·4	21·9	43·5	53·3	36·9	16·4	44·5	39·4	·242	2·8	0·6	83	553	78·5	34·9	–	8	3	3	17	–	7·0	12	0·39
CHISWICK (London), Thiselton Dyer, Esq.	25	Jan.	30·030	1·252	54·2	25·0	29·2	48·4	35·9	12·5	41·9	34·8	·203	2·4	0·7	77	555	66·8	33·5	–	4	2	13	12	–	–	16	1·14
		Feb.	29·995	1·472	55·0	21·2	33·8	45·4	33·7	11·7	39·6	36·0	·211	2·4	0·4	87	557	66·0	31·6	–	6	7	9	6	–	–	12	1·24
		Mar.	30·166	1·170	60·5	21·2	39·3	53·1	36·5	16·6	43·7	38·5	·232	2·7	0·6	80	555	88·1	33·6	–	6	2	7	16	–	–	13	0·59
TOWN MUSEUM (Leicester), W. J. Harrison, Esq.	245	Jan.	29·810	1·186	52·6	28·1	24·5	46·5	36·5	10·0	41·4	38·7	·235	2·7	0·3	91	551	65·1	30·7	1·0	3	1	13	14	–	7·0	15	1·87
		Feb.	29·833	1·488	53·0	18·5	34·5	44·6	32·1	12·5	38·5	34·0	·193	2·3	0·5	85	555	76·6	27·1	0·9	3	7	11	7	–	6·7	15	1·55
		Mar.	29·898	1·182	64·4	19·5	44·9	50·7	37·3	13·4	43·6	38·3	·232	2·6	0·4	82	551	92·3	32·2	1·0	3	2	11	15	–	7·5	16	0·94
OXFORD (Oxfordshire), Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	Jan.	29·833	1·333	54·0	29·8	24·2	47·6	37·2	10·4	42·4	38·8	·235	2·7	0·5	87	550	73·1	35·1	1·1	4	2	10	15	1·6	7·6	19	2·30
		Feb.	29·785	1·571	53·3	23·0	30·3	44·7	33·9	10·8	39·3	35·8	·211	2·5	0·4	88	553	75·8	32·5	1·0	5	6	9	8	1·9	7·6	16	1·68
		Mar.	29·973	1·162	63·6	22·8	40·8	51·8	37·5	14·3	44·5	38·0	·229	2·7	0·7	78	551	94·1	35·3	1·4	6	4	5	16	3·5	7·3	13	0·61
GLOUCESTER (Gloucester), E. Toller, Esq., M.D.	100	Jan.	29·904	1·283	54·9	30·9	24·0	47·8	37·6	10·2	43·2	38·8	·236	2·7	0·5	84	555	58·0	34·0	1·0	6	1	11	13	0·6	5·9	19	2·60
		Feb.	29·944	1·657	54·0	22·0	32·0	47·1	34·0	13·1	40·2	36·5	·216	2·5	0·4	87	544	72·3	30·4	1·0	6	6	7	9	1·5	5·6	12	1·76
		Mar.	30·135	1·155	61·9	21·0	40·9	53·6	37·9	15·7	45·0	38·9	·237	2·7	0·7	79	551	87·0	34·2	0·8	9	3	6	13	1·3	5·8	13	0·66
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	Jan.	29·768	1·167	54·7	26·3	28·4	47·2	34·7	12·5	40·9	37·7	·226	2·6	0·3	89	551	–	–	–	3	1	10	17	–	5·5	17	1·40
		Feb.	29·731	1·540	53·1	14·6	38·5	44·7	31·9	12·8	38·5	35·0	·203	2·4	0·4	87	553	–	–	–	6	5	11	6	–	6·1	12	1·22
		Mar.	29·900	1·143	66·7	16·2	50·5	53·0	35·0	18·0	43·3	37·6	·225	2·6	0·6	80	551	–	–	–	6	2	7	16	–	7·0	16	0·86
CARDINGTON (near Bedford), Mr. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	105	Jan.	29·944	1·360	54·6	24·0	30·6	47·0	34·0	13·0	40·7	38·7	·235	2·7	0·2	93	560	48·2	27·1	1·6	2	0	9	20	–	6·3	13	1·60
		Feb.	29·925	1·500	54·0	19·6	34·4	44·7	31·6	13·1	38·1	35·7	·209	2·4	0·3	91	557	51·9	26·1	1·8	6	4	10	8	–	6·8	12	1·23
		Mar.	30·063	1·206	68·0	19·6	46·4	52·4	35·7	16·7	43·8	39·5	·243	2·8	0·4	84	553	74·1	27·3	2·5	8	3	5	15	–	7·0	8	0·70
ST. DAVID'S COLLEGE, LAMPETER (Cardiganshire), Prof. A. W. Scott.	420	Feb.	29·529	1·704	55·0	20·5	34·5	48·4	34·5	13·9	40·9	38·9	·236	2·8	0·2	93	547	65·9	–	–	–	–	–	–	–	–	11	4·39
		Mar.	29·758	1·118	62·0	8·0	54·0	51·6	35·5	16·1	43·0	41·0	·257	2·9	0·3	93	548	87·0	–	–	8	2	9	12	–	–	15	2·80

Lampeter.—The observations for the month of January are incomplete.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1874. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	50	Jan.	29·969	1·088	55·4	26·7	28·7	46·4	33·6	12·8	40·2	38·2	·231	2·7	0·2	93	555	—	25·2	1·0	3	1	12	15	6·9	5·5	17	0·97
		Feb.	29·975	1·454	54·1	17·5	36·6	45·2	32·1	13·1	38·0	36·3	·214	2·5	0·2	94	558	—	23·4	1·0	3	5	12	8	7·1	6·1	11	1·06
		Mar.	30·084	1·220	65·2	29·2	45·0	52·1	35·4	16·7	43·2	40·2	·246	2·8	0·3	88	554	—	25·1	1·0	7	3	8	13	5·8	5·2	14	0·95
NORWICH (Norfolk), John Quinton, Esq., Jun.	42	Jan.	29·960	1·374	55·0	27·0	28·0	45·4	33·8	11·6	40·0	38·6	·234	2·7	0·2	95	555	—	—	—	2	2	13	14	—	—	11	0·99
		Feb.	29·974	1·498	52·0	19·0	33·0	43·3	31·2	12·1	37·0	35·8	·210	2·5	0·2	95	559	—	—	—	4	4	11	9	—	—	10	1·00
		Mar.	30·085	1·244	64·5	20·0	44·5	50·7	34·7	16·0	42·3	40·3	·250	2·9	0·2	93	555	—	—	—	4	4	6	17	—	—	9	0·64
WISBECH (Cambridgeshire), S. H. Miller, Esq., F.R.A.S., F.M.S.	14	Jan.	29·981	1·392	54·2	27·2	27·0	46·5	35·1	11·4	41·1	38·9	·239	2·7	0·2	93	554	63·6	30·8	0·6	1	2	15	13	—	5·7	12	1·28
		Feb.	29·992	1·492	54·8	20·5	34·3	44·9	32·7	12·2	38·2	35·5	·208	2·4	0·3	90	558	70·2	29·2	0·6	4	6	10	8	—	6·5	12	0·93
		Mar.	30·124	1·280	68·0	19·4	48·6	53·0	35·8	17·2	43·8	39·6	·244	2·8	0·5	84	554	91·4	31·3	0·9	5	4	7	15	—	6·3	13	1·11
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	100	Jan.	29·860	1·450	55·0	34·2	20·8	49·0	40·0	9·0	44·5	39·5	·243	2·8	0·6	83	549	—	—	0·8	3	0	4	24	—	6·1	13	2·88
		Feb.	29·825	1·770	55·0	26·2	28·8	48·4	36·0	12·4	42·3	36·7	·218	2·6	0·5	82	550	—	—	0·7	3	1	9	15	—	5·7	13	1·47
		Mar.	30·012	1·216	59·4	27·5	31·9	52·7	40·2	12·5	46·3	41·0	·258	2·9	0·6	83	549	—	—	1·0	2	2	3	24	—	6·5	17	2·12
DERBY (Derbyshire), John Davis, Esq.	174	Jan.	29·778	1·385	57·0	28·0	29·0	47·2	36·2	11·0	41·1	37·1	·220	2·6	0·5	85	551	—	—	—	3	0	5	23	—	—	14	1·95
		Feb.	29·795	1·581	54·0	21·0	33·0	44·6	32·8	11·8	38·5	34·3	·198	2·3	0·5	86	554	—	—	—	5	4	10	9	—	—	15	1·45
		Mar.	29·945	1·192	67·0	21·0	46·0	52·2	38·1	14·1	44·1	37·8	·228	2·7	0·6	78	551	—	—	—	6	2	6	17	—	—	13	1·22
NOTTINGHAM (Notts), M.O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	183	Jan.	29·765	1·206	52·8	25·2	27·6	46·7	33·9	12·8	40·6	38·1	·229	2·7	0·3	91	551	57·0	28·1	0·7	1	0	11	19	3·3	7·2	22	1·42
		Feb.	29·776	1·512	52·6	19·9	32·7	44·3	31·0	13·3	37·3	35·5	·207	2·4	0·2	93	555	63·7	27·0	0·5	6	5	8	9	3·0	7·3	17	1·79
		Mar.	29·928	1·190	67·7	18·1	49·6	52·0	36·5	15·5	43·4	39·5	·242	2·8	0·4	86	551	83·2	30·9	0·6	3	3	8	17	3·2	7·4	20	1·02
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	39	Jan.	29·931	1·290	51·0	24·0	27·0	45·0	32·7	12·3	40·0	35·9	·211	2·4	0·5	86	555	53·7	27·7	1·6	4	1	15	11	—	6·0	9	1·05
		Feb.	29·954	1·536	52·5	17·0	35·5	43·6	29·4	14·2	37·3	33·0	·188	2·2	0·5	85	559	75·2	25·4	1·3	4	6	15	3	—	5·7	9	1·35
		Mar.	30·032	1·226	65·5	21·0	44·5	50·7	32·9	17·8	42·5	35·2	·205	2·4	0·8	76	554	99·4	28·3	1·6	5	1	12	13	—	6·2	12	1·00
LIVERPOOL OBSERVATORY. John Hartnup, Esq., F.R.A.S.	197	Jan.	29·737	1·366	53·2	30·6	22·6	47·4	38·9	8·5	43·0	38·4	·232	2·6	0·6	82	548	—	—	1·6	1	3	10	17	—	7·1	16	2·26
		Feb.	29·725	1·715	51·2	23·5	27·7	43·8	35·3	8·5	39·2	35·5	·210	2·4	0·4	87	552	—	—	1·1	3	10	8	7	—	7·0	12	1·22
		Mar.	29·916	1·224	55·7	25·5	31·2	50·0	40·0	10·0	44·2	38·4	·233	2·7	0·6	80	550	—	—	1·6	3	4	8	16	—	5·8	17	1·47
ECCLES (near Manchester), T. Mackereth, Esq., F.R.A.S., F.M.S.	145	Jan.	29·805	1·298	53·7	28·9	24·8	47·4	36·1	11·3	41·8	38·2	·231	2·7	0·4	88	551	50·0	29·1	0·7	5	0	11	15	—	6·6	20	3·26
		Feb.	29·807	1·706	54·2	20·3	33·9	45·3	32·6	12·7	38·7	35·2	·203	2·4	0·4	83	554	51·9	27·9	0·4	5	3	12	8	—	6·0	14	1·46
		Mar.	29·974	1·210	60·7	14·9	45·8	51·4	37·0	14·4	43·8	39·7	·244	2·8	0·5	86	552	60·3	30·2	1·0	7	4	7	13	—	7·0	21	2·99
MOOR SIDE OBSERVATORY, HALIFAX (Yorkshire), Louis J. Crossley, Esq., F.M.S.	429	Jan.	29·431	1·354	51·6	29·4	22·2	45·9	36·3	9·6	40·9	35·5	·207	2·4	0·6	82	545	52·8	32·0	—	4	0	4	23	3·0	7·0	17	2·92
		Feb.	29·467	1·600	51·4	20·0	31·4	43·6	32·4	11·2	37·7	32·2	·183	2·1	0·6	81	549	61·4	27·6	—	5	5	6	12	3·0	7·3	12	1·68
		Mar.	29·607	1·210	57·4	18·7	38·7	49·1	37·5	11·6	42·3	34·0	·198	2·3	0·8	75	547	72·5	32·0	—	6	4	4	17	4·7	6·6	16	3·79
BERMERSIDE OBSERVATORY, HALIFAX (Yorkshire), Edward Crossley, Esq., F.R.A.S.	520	Jan.	29·337	1·404	51·0	27·0	24·0	44·1	35·7	8·4	41·2	35·4	·207	2·4	0·6	80	543	65·0	28·8	1·0	2	1	10	18	—	7·7	20	3·02
		Feb.	29·421	1·608	53·3	19·6	33·7	43·3	32·0	11·3	37·1	35·3	·205	2·4	0·2	94	549	69·9	25·4	0·6	4	5	7	12	—	7·2	11	1·33
		Mar.	29·551	1·216	57·0	11·9	45·1	48·8	35·4	13·4	41·3	38·1	·231	2·6	0·4	90	546	84·1	28·8	1·4	5	4	7	15	—	6·5	13	3·89
THE PARK, HULL (Yorkshire), Mr. E. Peak.	12	Jan.	29·932	1·274	52·0	25·0	27·0	45·2	34·8	10·4	40·5	35·3	·206	2·4	0·6	82	555	57·0	31·4	—	—	—	—	—	—	—	11	1·17
		Feb.	29·973	1·576	52·0	20·0	32·0	43·7	33·1	10·6	39·7	35·8	·210	2·4	0·4	86	556	58·6	30·3	—	—	—	—	—	—	—	16	1·46
		Mar.	30·093	1·363	61·0	16·0	45·0	50·9	34·6	16·3	43·2	38·4	·232	2·7	0·5	83	554	74·0	31·5	—	—	—	—	—	—	—	14	1·27
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.A.S., F.M.S.	363	Jan.	29·545	1·303	52·0	26·8	25·2	46·0	36·4	9·6	41·2	38·5	·233	2·7	0·3	91	546	73·3	31·6	—	1	0	14	16	—	7·8	25	5·26
		Feb.	29·558	1·733	52·0	22·3	29·7	44·3	32·9	11·4	38·3	34·5	·200	2·3	0·4	87	550	80·1	27·5	—	7	4	8	9	—	6·4	22	1·78
		Mar.	29·722	1·255	56·7	11·1	45·6	49·4	36·9	12·5	42·7	39·0	·237	2·7	0·4	86	548	96·9	32·0	—	3	5	7	16	—	7·5	26	6·46
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	366	Jan.	29·518	1·390	53·0	30·6	22·4	47·4	38·0	9·4	42·7	39·0	·237	2·7	0·4	86	544	52·8	—	1·2	4	1	3	23	—	5·2	16	2·21
		Feb.	29·565	1·614	51·0	21·1	29·9	44·1	32·1	12·0	38·1	34·1	·196	2·3	0·5	86	551	52·4	—	0·7	—	—	—	—	—	6·1	9	0·96
		Mar.	29·734	1·246	57·4	21·8	35·6	49·7	37·8	11·9	42·8	38·8	·236	2·7	0·5	86	548	66·0	—	0·8	—	—	—	—	—	5·3	12	2·64
LEEDS PHILOSOPHICAL HALL (Yorkshire), Louis C. Miall, Esq.	137	Jan.	29·771	1·356	54·0	28·0	26·0	46·9	36·4	10·5	42·5	38·1	·231	2·6	0·4	85	549	51·3	—	1·2	8	1	3	19	—	7·6	17	1·54
		Feb.	29·815	1·650	53·0	21·0	32·0	44·8	32·7	12·1	39·3	34·0	·196	2·3	0·6	82	554	51·2	—	1·0	5	2	10	11	—	8·1	11	1·20
		Mar.	29·962	1·248	60·0	21·0	39·0	51·6	37·3	14·3	44·4	38·6	·255	2·7	0·6	80	551	69·0	—	1·4	10	2	4	15	—	7·1	17	1·67
COCKERMOUTH (Cumberland), R. Dobson, Esq., M.D., F.R.A.S., F.M.S.	140	Jan.	29·726	1·384	50·4	29·2	20·2	45·5	38·9	6·6	42·4	39·3	·241	2·8	0·3	89	549	52·5	30·9	0·6	1	2	15	15	5·5	7·4	20	5·05
		Feb.	29·745	1·734	52·5	22·7	29·8	45·0	34·7	10·3	39·6	36·0	·212	2·4	0·4	86	553	53·5	29·4	0·3	2	1	10	16	2·3	5·3	21	2·02
		Mar.	29·966	1·362	59·5	23·7	35·8	49·7	37·2	12·5	44·2	38·7	·245	2·8	0·4	84	552	68·4	28·8	0·3	2	4	13	11	3·0	5·9	21	2·16

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1874. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
ALLENHEADS (Northumberland), Mr. S. Kidd, Assistant to W. B. Beaumont, Esq., M.P.	1360	Jan.	28·378	1·272	47·0	24·0	23·0	43·0	32·1	10·9	37·2	35·3	·206	2·4	0·2	93	529	62·7	31·0	1·8	7	2	7	15	—	7·3	22	4·56
		Feb.	28·386	1·476	44·0	20·0	24·0	41·5	28·3	13·2	34·4	30·6	·171	2·1	0·3	85	533	61·9	25·9	1·6	4	10	8	6	—	5·8	13	2·59
		Mar.	28·562	1·232	57·0	10·0	47·0	46·5	32·6	13·9	38·5	34·0	·197	2·1	0·4	85	532	75·4	30·6	1·8	4	4	9	14	—	5·7	23	4·09
SILLOTH RECTORY (Cumberland), Rev. Francis Redford, M.A., F.R.A.S., F.M.S.	28	Jan.	29·825	1·445	50·5	31·5	19·0	46·7	39·1	7·6	43·0	37·5	·224	2·6	0·6	80	550	66·8	34·6	1·9	2	1	8	20	10·4	6·1	19	4·06
		Feb.	29·865	1·757	55·6	23·8	31·8	48·0	34·8	13·2	41·0	34·9	·202	2·3	0·7	79	553	72·7	30·8	1·3	6	5	8	9	7·6	5·0	11	2·04
		Mar.	30·022	1·473	61·5	25·9	35·6	52·5	39·2	13·3	45·1	39·7	·244	2·8	0·6	81	551	80·7	35·2	1·8	6	2	6	17	9·4	6·3	15	1·99
CARLISLE (Cumberland). J. Cartmell, Esq., F.M.S.	114	Jan.	29·730	1·358	52·8	27·1	25·7	46·6	36·4	10·2	41·4	38·5	·233	2·7	0·3	90	549	55·5	32·3	2·5	1	2	5	23	7·0	6·7	15	3·36
		Feb.	29·804	1·696	52·5	23·4	29·1	45·8	32·2	13·6	38·7	35·2	·206	2·4	0·4	88	554	64·8	27·4	1·5	4	4	13	7	5·6	6·0	12	2·37
		Mar.	29·954	1·499	58·8	18·5	40·3	50·9	36·9	14·0	43·3	39·2	·240	2·7	0·5	85	552	77·8	32·1	2·5	4	5	5	17	7·5	5·9	15	2·14
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	Jan.	29·704	1·294	53·0	29·0	24·0	47·5	37·2	10·3	42·2	35·3	·207	2·4	0·7	78	549	50·9	29·8	1·5	8	1	5	17	—	5·4	16	2·65
		Feb.	29·800	1·642	53·0	23·0	30·0	46·8	33·8	13·0	39·8	35·4	·207	2·2	0·6	78	553	55·0	26·6	1·0	4	5	6	13	—	5·5	15	2·28
		Mar.	29·918	1·398	61·0	20·0	41·0	53·0	38·4	14·6	44·5	36·2	·215	2·5	0·8	72	550	65·6	31·6	1·5	7	4	4	16	—	5·1	22	1·47
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	Dec.	29·978	1·201	55·0	27·5	27·5	48·9	38·8	10·1	44·0	38·3	·213	2·5	0·8	73	552	—	35·7	1·6	10	0	3	18	—	5·9	10	0·29
		Jan.	29·732	1·301	52·0	28·0	24·0	46·4	36·2	10·2	41·1	35·2	·206	2·4	0·6	80	550	—	34·2	1·7	10	0	4	17	—	4·8	11	1·50
		Feb.	29·840	1·475	50·0	22·7	27·3	42·8	33·3	9·5	37·5	35·3	·207	2·4	0·2	92	556	—	31·6	1·5	6	3	7	12	—	5·7	20	0·96
		Mar.	29·916	1·407	58·5	20·6	37·9	49·9	37·9	12·0	43·3	37·2	·223	2·6	0·6	79	551	—	36·3	2·0	8	4	4	15	—	5·5	20	1·04
MILTOWN (Banbridge, Ireland), John Smyth, Esq., jun., M.A., M.I.C.E.I.	200	Jan.	29·662	1·385	54·0	30·0	24·0	47·1	36·3	10·8	41·6	37·8	·228	2·6	0·4	87	548	56·8	29·9	2·0	2	1	18	10	—	5·5	17	1·74
		Feb.	29·634	1·940	52·0	22·0	30·0	46·6	35·5	11·1	41·0	37·2	·221	2·6	0·4	86	548	69·6	29·4	2·0	3	7	14	4	—	5·0	12	1·78
		Mar.	29·790	1·540	59·0	20·0	39·0	51·8	39·4	12·4	45·1	39·7	·245	2·8	0·7	81	547	86·5	33·5	2·5	4	1	16	10	—	5·1	16	1·34

NOTE.—*The Barometer Reading,* St. John's College, Battersea, 10th January, 9h. a.m., 28·840 in., has been altered to 29·840 in.
" Allenheads, 16th January, 9h. a.m., 27·742 in., " 28·742 in.
" Portsmouth, 6th March, 3h. p.m., 29·738 in., " 30·738 in.
" Carlisle, 7th " 5h. p.m., 29·850 in., " 30·350 in.
" Llandudno, 19th " 9h. p.m., 30·850 in., " 29·850 in.
" St. John's College, Battersea, 31st " 3h. p.m., 30·884 in., " 29·884 in.

Second Rain-gauges are placed—

				January.	February.	March.	Total during the Quarter.
At Eastbourne,	at the height of	160 feet	*above the sea,* the amount collected was	2·58 inches.	1·27 inches.	0·51 inches.	4·36 inches.
" Beachy Head,	"	515 feet	" "	1·96 "	0·75 "	0·81 "	3·52 "
" " "	"	495 feet	" "	1·32 "	1·21 "	0·61 "	3·14 "
" Portsmouth,	"	20 feet	*above the ground,* "	1·32 "	1·60 "	0·30 "	3·22 "
" Strathfield Turgiss,	"	38 feet	" "	1·52 "	1·33 "	0·29 "	3·14 "
" Eccles (Manchester),	"	34 feet	" "	2·34 "	1·17 "	2·30 "	5·81 "
" Carlisle,	"	3 feet	" "	1·31 "	1·01 "	1·64 "	3·96 "
" Miltown (Ireland),	"	40 feet	" "	1·44 "	1·07 "	1·15 "	3·66 "
" Oxford,	"	22 feet	" "	2·14 "	1·53 "	0·38 "	4·05 "
" Marlborough College,	"	8 inches	" "	3·65 "	2·53 "	0·88 "	7·03 "
" " "	"	1 foot	" "	3·76 "	2·43 "	0·87 "	7·06 "
" Cardington,	"	36 feet	" "	1·25 "	1·00 "	0·44 "	2·69 "
" Nottingham,	"	39 feet	" "	1·21 "	1·53 "	0·88 "	3·62 "
" Wisbech,	"	8 feet	" "	1·26 "	0·85 "	1·07 "	3·18 "
" Aldershot Camp,	"	25 feet	" "	1·41 "	1·78 "	0·37 "	3·56 "

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Mean Depth of Rain.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									
Guernsey - - -	29·878	60·0	27·0	33·0	49·8	41·1	24·7	8·7	45·1	41·2	·260	3·0	0·5	87	549	—	—	1·4	6	5	9	10	3·9	5·2	7·5	46·9
Helston - - -	29·873	60·0	27·0	33·0	53·3	42·2	26·0	11·3	47·6	41·6	·263	3·2	0·8	80	547	64·6	38·1	1·9	7	6	7	10	4·7	5·9	7·1	45·6
Truro - - -	29·838	58·0	28·0	30·0	51·3	41·3	25·7	10·0	45·7	40·6	·253	2·9	0·6	83	551	—	—	2·7	8	4	5	13	—	6·5	6·9	45·1
Osborne - - -	29·896	62·3	23·7	38·6	49·4	36·6	31·0	12·8	42·8	40·3	·250	2·9	0·3	91	551	68·2	28·3	0·2	5	4	8	13	—	4·6	7·4	42·8
Bournemouth - -	—	58·0	25·3	32·7	48·3	38·1	26·6	10·2	43·0	38·9	·238	2·8	0·4	85	555	—	—	—	9	4	5	12	—	5·8	7·9	45·8
Portsmouth - -	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	66·9	33·2	2·0	4	4	9	13	2·0	5·9	7·6	45·2
Worthing - - -	29·861	58·5	23·4	35·1	48·6	37·9	29·0	10·7	43·0	39·2	·244	2·8	0·4	87	554	76·3	—	0·9	7	4	6	13	3·0	5·9	7·9	45·0
Taunton - - -	29·851	61·0	15·5	45·5	50·0	36·8	34·2	13·2	43·4	39·9	·247	2·8	0·4	88	552	56·4	33·1	0·4	9	4	6	12	5·4	6·9	7·6	45·4
Wilton House - -	29·876	68·0	20·0	48·0	51·0	32·5	38·8	18·5	41·6	38·9	·238	2·7	0·3	91	553	80·8	29·9	1·3	5	6	8	11	—	5·3	7·9	44·1
Barnstaple - -	29·820	60·0	27·0	33·0	50·4	40·3	27·3	10·1	45·3	41·4	·261	3·0	0·4	87	551	—	—	1·3	5	4	10	12	—	7·6	6·9	44·8
Aldershot Camp -	29·846	67·2	22·0	45·2	48·9	34·5	33·4	14·5	40·7	37·7	·225	2·6	0·3	89	550	75·6	30·1	1·6	5	2	10	13	1·8	7·9	7·1	45·7
Ramsgate - -	29·869	61·0	24·0	37·0	48·2	36·9	29·5	11·3	42·9	39·9	·248	2·9	0·3	90	553	83·7	33·7	1·6	7	4	7	12	—	6·7	7·9	45·4
Strathfield Turgiss -	29·888	64·7	22·6	42·1	48·3	34·9	31·2	13·4	41·4	37·3	·226	2·6	0·4	91	551	79·9	30·2	0·7	6	4	7	12	4·4	6·4	8·1	44·7
Weybridge Heath -	29·916	67·5	19·5	48·0	48·2	35·2	36·1	13·0	41·2	37·6	·225	2·6	0·5	88	554	67·6	31·6	0·8	5	5	14	6	1·4	5·8	6·6	45·1
Marlborough College	29·805	61·0	21·3	39·7	47·4	33·9	32·8	13·5	40·3	37·3	·224	2·6	0·3	89	549	79·7	32·5	—	7	4	8	12	—	6·9	6·6	44·6
Royal Observatory -	29·878	65·4	21·0	44·4	48·4	35·4	34·9	13·0	41·4	36·8	·219	2·5	0·5	84	553	74·2	29·7	0·6	5	3	9	13	—	6·6	7·9	44·3
Streatley Vicarage -	29·873	68·8	18·4	50·4	49·3	35·5	36·3	13·8	42·6	38·3	·236	2·8	0·5	87	552	55·8	—	1·6	7	2	8	13	—	7·9	6·9	44·8
St. John's Col., Battrs.	29·820	66·0	21·0	45·0	49·0	31·0	37·0	18·0	42·0	39·4	·242	2·8	0·4	90	555	61·6	25·9	1·6	2	4	12	12	—	6·8	7·1	44·5
Camden Town - -	29·873	65·4	21·9	43·5	48·5	35·4	34·3	13·1	41·9	38·0	·229	2·6	0·5	87	554	62·1	33·2	—	8	2	7	14	—			
Chiswick - - -	29·875	60·5	21·2	39·3	49·0	35·4	34·1	13·6	41·7	36·4	·215	2·5	0·6	81	555	73·6	32·9	—	5	4	10	11	—	7·1	7·5	44·1
Leicester - - -	29·899	64·4	18·5	45·9	47·3	35·3	34·6	12·0	41·2	37·0	·220	2·5	0·4	86	552	78·0	30·0	1·0	3	3	12	12	—	5·4	7·5	44·3
Oxford - - -	29·863	63·6	22·8	40·8	48·0	36·2	31·8	11·8	42·1	37·5	·225	2·6	0·5	84	551	81·0	34·3	1·2	5	4	8	13	2·3	5·8	6·9	44·2
Gloucester - - -	29·884	61·9	21·0	40·9	49·5	36·5	32·3	13·0	42·8	38·1	·230	2·6	0·5	83	550	72·4	32·9	0·9	7	3	8	12	1·1	6·1	6·9	44·0
Royston - - -	29·885	66·7	14·6	52·1	48·3	33·9	39·1	14·4	40·9	35·8	·218	2·5	0·4	85	552	—	—	—	5	3	9	13	—	6·4	7·1	44·3
Cardington - - -	29·861	66·0	19·6	46·4	48·0	33·8	37·1	14·2	40·9	38·0	·229	2·6	0·3	89	557	58·1	25·8	2·0	5	2	8	14	—	5·6	7·5	44·1
Somerleyton Rectory	29·835	65·2	17·5	47·7	47·9	33·7	36·8	14·2	40·5	33·2	·231	2·7	0·2	92	556	—	24·6	1·0	4	3	11	12	6·6	6·1	7·1	44·3
Norwich - - -	29·820	64·5	19·0	45·5	46·5	33·2	35·2	13·3	39·8	38·2	·231	2·7	0·2	94	553	—	—	—	3	3	10	13	—	6·1	7·5	44·1
Wisbech - - -	29·817	68·0	19·4	48·6	48·1	34·5	36·6	13·6	41·0	38·0	·230	2·6	0·3	89	555	75·1	30·4	0·7	3	4	11	12	—	6·1	7·1	44·1
Llandudno - - -	29·771	59·4	23·2	33·2	50·0	38·7	27·2	11·3	44·4	39·1	·240	2·8	0·6	83	549	—	—	0·8	3	1	5	21	—			
Derby - - -	29·816	67·0	21·0	46·0	48·0	35·7	33·0	12·3	41·2	36·4	·215	2·5	0·5	83	552	—	—	—	5	2	7	16	—	6·0	7·1	44·1
Holkham - - -	29·815	65·5	17·0	48·5	46·4	31·7	35·7	14·7	39·9	34·7	·201	2·3	0·6	82	556	76·4	27·1	1·5	4	3	14	9	—	6·5	7·5	44·1
Eccles - - -	29·795	60·7	14·9	45·8	48·0	35·2	34·8	12·8	41·4	37·7	·227	2·6	0·4	87	552	54·1	29·1	0·7	6	2	10	12	—	7·1	7·1	44·1
Moorside, Halifax -	29·781	57·4	18·7	38·7	46·2	35·4	30·8	10·8	40·3	33·9	·193	2·3	0·7	79	547	62·2	30·5	—	5	3	5	17	3·6	6·5	7·1	44·1
Bermerside, Halifax	29·795	57·0	11·9	45·1	45·4	34·4	34·3	11·0	39·9	36·3	·215	2·5	0·4	88	546	73·0	27·7	1·0	4	3	8	15	—			
Hull - - -	29·794	61·0	16·0	45·0	46·6	34·2	34·7	12·4	41·1	36·5	·216	2·5	0·5	84	555	63·2	31·1	—	—	—	—	—	—	7·1	7·1	44·1
Stonyhurst - - -	29·805	56·7	11·1	45·6	46·6	35·4	33·5	11·2	40·7	37·3	·223	2·6	0·4	88	548	83·4	30·4	—	4	3	10	14	—	5·5	7·1	44·1
Bradford - - -	29·722	57·4	21·1	36·3	47·1	36·0	29·3	11·1	41·2	37·3	·223	2·6	0·5	86	548	57·1	—	0·9	—	—	—	—	—	6·5	7·5	44·1
Cockermouth - -	29·724	58·2	21·5	36·7	47·1	37·2	28·6	9·9	41·9	38·4	·233	2·7	0·4	88	550	67·0	28·2	0·5	4	4	12	10	3·1	6·3	7·1	44·1
Allenheads - - -	29·706	57·0	10·0	47·0	43·7	31·0	31·3	12·7	36·7	33·3	·191	2·2	0·3	88	531	66·7	29·2	1·7	5	5	8	12	—	5·5	7·1	44·1
Silloth - - -	29·712	61·5	23·8	37·7	49·1	37·7	28·8	11·4	43·0	37·4	·223	2·6	0·6	80	551	73·4	33·5	1·7	5	3	7	15	9·1	5·6	7·1	44·1
Carlisle - - -	29·730	58·8	18·5	40·3	47·8	35·2	31·7	12·6	41·1	37·6	·226	2·6	0·4	88	552	66·0	30·6	2·2	3	4	8	16	6·7	5·5	7·1	44·1
Bywell - - -	29·690	61·0	20·0	41·0	49·1	36·5	31·7	12·6	42·2	35·6	·210	2·4	0·7	76	551	57·2	29·3	1·3	6	3	5	15	—	5·5	7·1	44·1
North Shields - -	—	58·5	20·6	37·9	46·4	35·8	29·7	10·6	40·6	35·9	·212	2·5	0·5	84	552	—	34·0	1·7	8	2	5	15	—	5·2	7·1	44·1
Miltown (Ireland) -	29·682	59·0	20·0	39·0	48·5	37·1	31·0	11·4	42·6	38·2	·231	2·7	0·5	85	548	71·0	30·9	2·2	3	3	16	8	—			

The highest temperatures of the air were at Streatley Vicarage, 68°·8; Wilton House and Wisbech, 68°·0 respectively; Weybridge Heath, 67°·5; Aldershot Camp, 67°·2; Derby, 67°·0; Royston, 66°·7; and at Battersea and Cardington, 66°·0 respectively.

The lowest temperatures of the air were at Allenheads, 10°·0; Stonyhurst, 11°·1; Bermerside, Halifax, 11°·9; Royston, 14°·6; Aldershot Camp, 14°·9; Taunton, 15°·5; Hull, 16°·0; Holkham, 17°·0; and at Somerleyton Rectory, 17°·5.

The greatest daily ranges of the temperatures of the air were at Wilton House, 18°·5; Battersea, 18°·0; Holkham, 14°·7; Aldershot Camp, 14°·5; Royston, 14°·4; and at Cardington, 14°·2.

The least daily ranges of the temperatures of the air were at Guernsey, 8°·4; Cockermouth, 9°·9; Truro, 10°·0; Barnstaple, 10°·0; Bournemouth, 10°·2; North Shields, 10°·6; Worthing, 10°·7; Moorside, Halifax, 10°·8; and at Bermerside, Halifax, 11°·0.

The greatest numbers of rainy days were at Stonyhurst, 73; Truro and Allenheads, 58 respectively; Eccles, 55; Bywell, 53; Cockermouth and North Shields, 51 respectively; Oxford, 48; Helston and Marlborough College, 47 respectively; and at Guernsey and Llandudno, 46 respectively.

The least numbers of rainy days were at Norwich and Holkham, 30 respectively; Royal Observatory and Battersea, 32 respectively; Worthing and Cardington, 33 respectively; and at Bournemouth, 35.

The heaviest falls of rain were at Stonyhurst, 13·50 inches; Allenheads, 11·24 inches; Cockermouth, 11·15 inches; Truro, 10·32 inches; Helston, 9·17 inches; Barnstaple, 8·94 inches; and at Bermerside, Halifax, 8·24 inches.

The least falls of rain were at the Royal Observatory, 2·39 inches; Camden Town, 2·48 inches; Norwich, 2·63 inches; Cardington, 2·97 inches; Somerleyton Rectory, 2·98 inches; and at Weybridge Heath, 3·20 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest readings of the Thermometer.	Mean of all Lowest readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Mean Depth of Rain.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									
Guernsey - - -	29·878	60·0	27·0	33·0	49·8	41·1	24·7	8·7	45·1	41·2	·260	3·0	0·5	87	549	—	—	1·4	6	5	9	10	3·9	5·2	7·5	46·9
Between the latitudes 50° and 51°	29·864	59·4	25·5	33·9	50·2	39·2	27·7	11·0	44·4	40·1	·249	2·9	0·5	85	552	69·0	33·2	1·5	7	4	7	12	3·2	6·1	7·3	45·6
Between the latitudes 51° and 52°	29·870	64·2	21·1	43·2	48·8	35·3	33·8	13·5	42·0	38·3	·232	2·7	0·4	87	552	72·1	31·3	1·1	6	4	9	12	3·1	6·3	7·1	45·1
Between the latitudes 52° and 53°	29·834	64·9	19·5	45·4	48·1	34·6	35·1	13·5	41·3	37·5	·225	2·6	0·4	87	554	70·5	28·4	1·1	5	3	9	13	3·6	6·1	7·1	45·1
Between the latitudes 53° and 54°	29·782	58·4	15·6	42·8	46·7	35·1	32·9	13·6	40·8	36·5	·217	2·5	0·5	85	549	65·5	29·8	0·9	5	3	8	14	—	6·3	7·1	45·1
Between the latitudes 54° and 55°	29·712	59·3	18·8	40·5	47·4	35·5	30·4	11·9	41·0	36·5	·217	2·5	0·4	84	549	66·1	30·2	1·5	5	4	8	13	—	5·5	7·1	45·1
North Shields - -	—	58·5	20·6	37·9	46·4	35·8	29·7	10·6	40·6	35·9	·212	2·5	0·5	84	552	—	34·0	1·7	8	2	5	15	—	5·2	7·1	44·1
Miltown, Bambridge (Ireland)	29·682	59·0	20·0	39·0	48·5	37·1	31·0	11·4	42·6	38·2	·231	2·7	0·5	85	548	71·0	30·9	2·2	3	3	16	8	—			
Mean for the Quarter, 50° to 55° — Year 1871	29·713	67·0	14·1	52·9	46·2	34·6	34·2	11·6	40·1	33·2	·216	2·5	0·4	83	551	63·4	28·1	1·2	5	6	9	10	—	6·6	7·1	44·1
Mean for the Quarter, 50° to 55° — " 1872	29·454	61·2	25·2	36·0	49·3	38·0	28·7	11·3	43·3	39·4	·243	2·8	0·5	87	544	69·6	22·6	1·0	4	5	13	9	4·5	6·7	7·1	44·1
Mean for the Quarter, 50° to 55° — " 1873	29·650	63·3	20·5	42·8	45·7	34·7	31·1	11·0	39·8	35·9	·216	2·5	0·4	86	551	63·4	29·6	1·1	7	7	8	8	4·0	7·5	7·1	44·1
Mean for the Quarter, 50° to 55° — " 1874	29·812	61·3	20·1	41·2	48·2	35·9	32·0	12·3	41·9	37·8	·228	2·6	0·4	86	551	68·6	30·6	1·2	6	4	8	13	4·1	6·2	7·1	44·1

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING JUNE 30, 1874.

Remarks on the Weather during the Quarter ending June 30th, 1874.

By James Glaisher, Esq., F.R.S., *&c.*

The warm period which set in on 13th March (the excess of the daily temperature of which over daily averages till the end of March was $5\frac{1}{4}$°) continued with very slight exceptions throughout April, the average daily excess of temperature for this month being 4°. On several days towards the end of the month the days were very warm, the excesses being as large as 10° to 13°. On 1st May a cold period set in, and continued without exception till the 21st; these three weeks of low temperature were very painful, following so immediately the heat of the preceding seven weeks. A period of warm weather then occurred from 22nd May to 11th June, the average daily excess of temperature being $4\frac{1}{2}$°, and from this time to the end of the quarter low temperatures prevailed, the deficiency of daily temperature amounting to nearly $4\frac{1}{2}$°.

The mean temperature of April at Greenwich was 6°·3 higher than that of March; that of May was only 0°·5 higher than that of April, while that of June was 7°·5 above that of May. (From preceding 33 years' observations the mean temperature of April is higher than that of the March by 5°·5, that of May higher than that of April by 5°·8, and that of June than that of May by 6°·1).

The mean temperature of April above that of March over the whole country was $5\frac{1}{2}$° nearly; the mean temperature of May was at many places lower than that of April, but taking the mean of all, the excess over April was 0°·2. The excess of June over May, obtained from all the stations was $7\frac{1}{4}$° nearly, the increase at southern stations being about a degree less than this amount, and at northern stations about a degree more.

The readings of the barometer at 159 feet above sea level were variable, but generally below their averages from the 1st to the 14th of April; the lowest reading in the month being 29·0 ins. on the 11th. From the 15th to the 28th, a steady increase was experienced, and the maximum 30·2 ins. (the highest reading in the month) was attained on the last named day. Throughout the month of May the reading of the barometer was alternately above and below its average, the highest reading being 30·2 ins. on the 16th, and the lowest 29·3 ins. on the 23d.

In June the barometer reading was above its average from the 1st to 23rd, below from the 24th to the 29th, and again above on the 30th. The highest reading in the month was 30·4 ins. on the 15th, and the lowest was 29·4 ins. on the 26th.

At Greenwich the decrease of atmospheric pressure from March to April was 0·309 in., the increase from April to May was 0·099 in., while that from May to June was 0·136 in. The mean increase from all stations from April to May was 0·307 in., being somewhat larger at southern, and smaller at northern stations; from May to June the increase was 0·132 in. being less than this amount at southern and larger at northern stations, and the further increase from May to June was 0·122 in., the increase being greater than this value at midland stations, and less both at southern and northern stations.

The mean temperature of April was 50°·0 being 4°·0 higher than the average of 103 years, and 2°·9 higher than that of the preceding 33 years. It was higher than in 1873 by 4°·1, and higher than in 1872 by 1°·7.

Going back to the year 1771 there have been but 5 Aprils of so high a temperature as in 1874, viz.:

The year 1779 when the mean temperature of April was 50°·7.
" 1821 " " 50°·4.
" 1844 " " 51°·7.
" 1865 " " 52°·3.
" 1869 " " 50°·3.

The mean temperature of May was 50°·5, being 2°·0 lower than the average of 103 years, and 2°·4 lower than that of the preceeding 33 years, it was 0°·1 and 0°·4 colder than in 1873 and 1872 respectively.

The mean temperature of June was 58°·0 being respectively 0°·2 and 1°·0 lower than the averages of 103 years, and the preceding 33 years; it was 0°·9 below the corresponding value for 1873, and 1°·2 below that of 1872.

The mean temperature of the quarter was 52°·8, the average temperature for the second 3 months of the year as deduced from the previous 103 years is 52°·2, and as deduced from the preceding 33 years 53°·0; showing that the excess of temperature for the quarter over the former is 0°·6, and the defect below the latter 0°·2.

The mean high day temperatures were 3°·7 and 0°·1 higher than their respective averages in April and June, and 1°·3 lower in May.

The mean low night temperatures were respectively 3°·3 and 1°·7 below their averages in May and June, and 2°·1 above in April.

The mean daily ranges of temperature were greater than their respective averages in April, May, and June by 1°·7, 2°·0, and 1°·8 respectively.

The fall of rain in April was 1·4 inches, being 0·3 inch below the average, in May it was 0·4 inch only, and in June it was 2·4 inches, being 0·5 inch above the average.

Since the year 1815 there have been 9 Mays with falls of rain of less than one inch, viz., the fall

In the year 1823 was 0·8. In the year 1844 was 0·4. In the year 1857 was 0·6.
" 1829 " 0·6. " 1848 " 0·4. " 1870 " 0·5.
" 1833 " 0·2. " 1851 " 0·8. " 1871 " 0·6.

This continued deficiency of rain is very remarkable, and it seems to be general over the whole country, at Greenwich the fall of rain

In the 4 months ending April was 3·79 inches, being 2·96 inches less than the average.
" 5 " " April " 4·09 " " 4·66 " "
In the 5 months ending May was 4·19 inches, being 4·70 inches less than the average.
" 6 " " May " 4·49 " " 6·40 " "
In the 6 months ending June was 6·59 inches, being 4·23 inches less than the average.
" 7 " " June " 6·89 " " 5·93 " "

Back to the year 1815:—In the 4 months ending April, there is only one instance of a smaller fall than in this year, viz., in 1854 when the amount was 3·5 inches.

In the 5 months ending April, there is no instance of so small a fall; the nearest approach was in the year 1854 when the amount was 4·3 inches.

In the 5 months ending May, there is no instance of so small a fall; the nearest approach was in the year 1870, when the amount was 4·9 inches.

In the 6 months ending May, there is no instance of so little rain; the nearest approach was in the year 1847, when the amount was 7·1 inches.

In the 6 months ending June, the fall in the year 1870 was 5·3 inches only, being 1¼ inch less than in this year; the nearest smallest amount recorded was in the year 1854, when the amount was 7·0 inches.

In the 7 months ending June, there is no instance of so small a fall; the nearest approach was in the year 1870, when the amount was 8·1 inches being 1·2 inch greater, so that, as far back as trustworthy records extend, the fall of rain from December 1873 to June 1874, both months inclusive, is the smallest on record.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter, were as follows:—

Direction of Wind.	April.			May.			June.		
	Average.	1874.	Departure from Average.	Average.	1874.	Departure from Average.	Average.	1874.	Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	2¼	2	− ¼	1¼	1	− ¼	2	1	−1
N.	4	2	−2	4½	8	+3½	3½	3	− ½
N.E.	6	3	−3	7	7	0	3½	8	+4½
E.	3½	5	+1½	2½	4	+1½	2¼	4	+1¾
S.E.	2	1	−1	1¾	1	− ¾	1¾	2	+ ¼
S.	2½	1	−1½	2¼	1	−1¼	2¼	2	− ¼
S.W.	6¼	9	+2¾	7½	4	−3½	10	7	−3
W.	2½	7	+4½	2	5	+3	3¾	3	− ¾
Calm, nearly.	1	0	−1	2	0	−2	1½	0	−1½

The + signs denote excesses over averages; in the month of April the largest numbers are opposite to the W. and S.W. winds, in May to the N. and W. winds; and in June to N.E. and E.

The — signs denote defect below averages; in April the largest numbers are opposite to the N. and N.E. winds; in May to the S.W. and S. winds; and in June to the S.W. and N.W. winds.

Thus the prevailing winds in April were W. and S.W.; in May, N. and W., and in June, N.E. and E.

1874. Months.	Temperature of Air. Mean.	Air. Diff. from average of 103 years.	Air. Diff. from average of 33 years.	Evaporation. Mean.	Evaporation. Diff. from average of 33 years.	Dew Point. Mean.	Dew Point. Diff. from average of 33 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 33 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 33 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 33 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.
April -	50·0	+4·0	+2·9	46·9	+2·9	43·6	+3·0	20·3	+1·7	50·5	0·284	+0·030	3·3	+0·4
May -	50·5	−2·0	−2·4	46·7	−2·4	42·8	−2·6	22·5	+2·0	54·9	0·275	−0·027	3·2	−0·2
June -	58·0	−0·2	−1·0	53·5	−1·1	49·5	−1·2	22·8	+1·8	62·5	0·355	−0·016	3·9	−0·3
Means -	52·8	+0·6	−0·2	49·0	−0·2	45·3	−0·3	21·9	+1·8	56·0	0·305	−0·004	3·5	0·0

1874. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 33 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 33 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 33 years.	Rain. Amount.	Rain. Diff. from average of 59 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
April -	79	0	29·704	−0·066	539	−4	1·4	−0·3	306	6	20	4	22·3	47·0
May -	76	0	29·803	+0·023	541	0	0·4	−1·7	226	15	9	7	20·2	51·2
June -	74	0	29·939	+0·128	535	+3	2·4	+0·5	247	1	13	16	26·9	55·0
Means -	76	0	29·815	+0·028	538	0	Sum 4·2	Sum −1·5	Mean 260	Sum 22	Sum 42	Sum 27	Lowest 20·2	Highest 55·0

NOTE.—In reading this table it will be borne in mind that the minus sign (−) signifies below the average, and that the plus sign (+) signifies above the average.

Thunderstorms occurred, on the 3rd of April at Carlisle; on the 4th at Guernsey and Hull; on the 5th at Eccles; on the 6th at Bywell; on the 9th at Stonyhurst; and on the 12th at Hull. On the 3rd of May at Taunton; on the 4th at Guernsey; on the 6th at Liverpool, Eccles, and Leeds; on the 7th at Guernsey, Cardington, and Wisbech; on the 8th at London; on the 9th at Guernsey and Llandudno; on the 21st at London; on the 22d at Weybridge Heath and Cardington; on the 24th at Salisbury and Norwich; on the 25th at Osborne, Aldershot Camp, Weybridge Heath, London, Leicester, Royston, Cardington, and Wisbech; and on the 26th at Osborne. On the 2nd of June at Cardington; on the 6th at Strathfield Turgiss; on the 22nd at Cardington, Somer-

leyton, Norwich, and Hull; on the 24th at Helston, Taunton, Weybridge Heath, Strathfield Turgiss, Streatley, Royston, Cardington, Norwich, Eccles, Hull, Stonyhurst, and North Shields; on the 25th at Somerleyton, Norwich, Hull, Silloth, and Miltown; on the 26th at Halifax and Allenheads; on the 28th at Halifax, Allenheads, and Miltown; and on the 29th at North Shields and Miltown.

Thunder was heard, but lightning was not seen in April on 7 days; in May on 12 days, and in June on 12 days.

Lightning was seen, but thunder was not heard, on the 3rd of April at Silloth, on the 4th at Portsmouth and Stonyhurst; and the 12th at Allenheads. On the 7th of May at Hastings; on the 8th at Helston and Llandudno; on the 9th at Portsmouth and Hastings; on the 11th at Hastings; and on the 29th at Helston. On the 4th of June at Hastings; on the 8th at Weybridge Heath; on the 10th at Guernsey; and on the 26th at Carlisle.

Solar halos were seen, on the 1st, 2nd, 3rd, and 4th of April at Halifax; on the 5th at Oxford; on the 7th at Portsmouth, Oxford, and Halifax; on the 10th at Portsmouth, Oxford, and Halifax; on the 11th at Portsmouth and Oxford; on the 15th at Oxford and Halifax; on the 17th at Streatley; on the 19th at Carlisle; on the 22nd and 24th at Halifax; and on the 28th at Portsmouth. On the 2nd, 5th, 8th, 10th, 14th, and 17th of May at Halifax; on the 21st at Oxford and Gloucester; on the 27th at Halifax; on the 28th at Wisbech; and on the 30th at Halifax. On the 1st of June at Halifax; on the 3rd at Oxford and Halifax; on the 4th at Liverpool and Halifax; on the 6th at Oxford and Halifax; on the 9th, 10th, 13th, and 22nd at Halifax; on the 23rd at Weybridge Heath, Oxford, and Halifax; on the 26th at Halifax; on the 28th at Oxford and Carlisle; and on the 29th at Halifax.

Lunar halos were seen, on the 3rd, 19th, and 22nd of April at Halifax; on the 23rd at Leicester; on the 24th at Leicester and Oxford; on the 27th at Leicester and Halifax; and on the 28th at Portsmouth, Salisbury, and Eccles. On the 20th of June at Oxford; on the 28th at Weybridge Heath; and on the 29th at Weybridge Heath, London, and Oxford.

Auroræ boreales were seen, on the 3rd of June at Oxford and Liverpool; and on the 13th at Guernsey.

Snow fell, on the 1st of April at Bradford; on the 2nd at Royston; on the 3rd at Allenheads; on the 4th at Halifax, Stonyhurst, Carlisle, and Bywell; and on the 13th at Halifax and Allenheads. On the 3rd of May at Allenheads; on the 4th at Halifax and Allenheads; on the 6th at Allenheads; on the 7th at Bradford and Allenheads; on the 8th at Hastings, Streatley, and Allenheads; on the 9th at Bradford and Allenheads; and on the 10th at Halifax and Allenheads.

Hail fell in April on 11 days, in May on 11 days, and in June on the 23rd at Guernsey, and on the 24th at Weybridge, Streatley, Oxford, Royston, Cardington, Hull, and North Shields.

Fog prevailed on the 10th of April at Gloucester; on the 11th at North Shields; on the 12th at London; on the 15th at London; on the 19th and 20th at Helston; on the 21st at Guernsey, London, and North Shields; on the 23rd at North Shields; on the 26th at London, Bywell, and North Shields; and on the 27th at Bywell and North Shields. On the 14th of May at Allenheads; on the 16th at Miltown; on the 22nd at Allenheads; on the 23rd at Llandudno, Halifax, and Allenheads; on the 24th at Hastings, Oxford, Llandudno, Eccles, Halifax, and Allenheads; on the 25th at Wisbech, Llandudno, Halifax, Allenheads, and North Shields; on the 26th at Guernsey, Llandudno, Halifax, and Miltown; and on the 28th at Llandudno. On the 5th of June at Llandudno; on the 7th at London; on the 15th, 16th, and 17th at Allenheads; on the 19th at London and North Shields; and on the 20th at London.

In leaf—				
Field Elm,	the earliest,	April 7, at Oxford;	the latest,	May 20, at Hull.
Wych Elm,	,,	April 10, at Oxford;	,,	May 20, at Hull.
Oak,	,,	April 20, at Guernsey;	,,	May 29, at Hull.
Lime,	,,	April 9, at Wisbech;	,,	May 8, at Hull.
Sycamore,	,,	April 6, at Strathfield Turgiss;	,,	May 12, at Hull.
Horsechestnut,	,,	April 8, at Wisbech;	,,	May 22, at Hastings.
Common Poplar	,,	April 6, at Helston;	,,	April 26, at Hastings.
Hawthorne,	,,	April 3, at Osborne;	,,	May 2, at Hull and Silloth.
Hazel,	,,	April 20, at Miltown;	,,	May 14, at Hull.
Walnut,	,,	April 10, at Oxford;	,,	April 26, at Weybridge Heath.
In blossom—				
Lilac,	,,	April 13, at Helston;	,,	April 30, at Miltown.
Privet,	,,	June 6, at Strathfield Turgiss;	,,	June 22, at Weybridge Heath.
Honeysuckle,	,,	May 19, at Strathfield Turgiss;	,,	June 23, at Hull.
Mountain Ash,	,,	April 27, at Weybridge Heath;	,,	May 25, at Hastings.
Syringa,	,,	May 24, at Strathfield Turgiss;	,,	June 25, at Hastings.
Laburnam,	,,	April 15, at Helston;	,,	May 15, at Hull.
Yellow Broom,	,,	April 5, at Weybridge Heath;	,,	May 3, at Hull.
Hardy Apple,	,,	April 19, at Oxford;	,,	April 30, at Hull.
Hardy Pear,	,,	April 14, at North Shields;	,,	April 25, at Strathfield Turgiss.
Cherry,	,,	April 4, at Silloth;	,,	April 20, at Hastings.
Plum,	,,	April 3, at Silloth;	,,	April 10, at Hull.
In flower—				
Wheat,	,,	June 7, at Weybridge Heath;	,,	June 26, at Hull.
In ear—				
Wheat,	,,	June 6, at Strathfield Turgiss;	,,	June 15, at Cockermouth.
Barley,	,,	June 4, at Helston;	,,	June 24, at Cockermouth.
Oats,	,,	June 8, at Helston;	,,	June 25, at Cockermouth.
Arrived—				
Swallow,	,,	April 1, at Osborne;	,,	May 5, at Truro.
Nightingale,	,,	April 18, at Royston;	,,	April 23, at Cardington.
Cuckoo,	,,	April 11, at Bywell;	,,	April 29, at Helston.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING JUNE 30TH, 1874.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the fifth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1874. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.=100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.M.S.	204	April	29·683	1·132	70·0	39·0	31·0	56·5	43·0	10·5	49·6	45·3	·304	3·5	0·5	86	540	–	–	1·3	8	6	7	9	3·8	3·6	12	3·63
		May	29·770	0·862	67·5	39·0	28·5	57·7	46·5	11·2	50·4	45·9	·307	3·5	0·6	86	540	–	–	1·0	13	5	3	10	3·8	3·6	9	0·94
		June	29·883	0·920	69·0	49·5	19·5	62·9	52·6	10·3	55·3	51·5	·330	4·3	0·7	87	537	–	–	1·3	11	8	4	7	4·0	4·6	7	1·13
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	April	29·787	1·063	70·0	35·0	35·0	60·2	45·6	14·6	51·7	44·4	·293	3·5	1·1	76	538	82·7	40·7	2·1	6	7	6	11	4·9	4·3	14	2·12
		May	29·905	0·846	74·0	34·0	40·0	63·2	47·2	16·0	54·0	43·9	·287	3·4	1·6	68	536	93·8	41·0	2·1	11	5	6	9	4·2	3·2	9	1·23
		June	30·004	0·968	76·0	45·0	31·0	69·4	55·1	14·3	59·9	50·2	·364	4·2	1·8	71	531	102·1	47·0	2·1	9	5	7	9	4·2	3·4	8	2·06
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	April	29·845	1·046	70·0	30·0	40·0	58·0	44·7	13·3	51·4	42·2	·270	3·0	1·2	71	541	–	–	2·8	6	8	5	11	–	5·9	14	1·97
		May	29·960	0·825	69·0	31·0	38·0	61·0	43·0	18·0	50·8	43·0	·278	3·2	1·0	75	543	–	–	2·4	12	8	4	7	–	6·4	10	1·34
		June	30·096	0·897	75·0	41·0	34·0	67·8	50·3	17·5	57·1	49·6	·355	4·0	1·3	75	539	–	–	2·3	9	9	7	5	–	5·4	8	1·84
SIDMOUTH (Devon), J. Ingleby Mackenzie, Esq., M.B., F.M.S.	30	April	29·856	1·246	65·5	32·9	32·6	56·6	43·1	13·5	48·8	45·8	·310	3·6	0·6	90	544	–	–	1·1	6	5	10	9	–	2·5	13	2·02
		May	29·972	0·885	68·3	34·8	33·5	59·2	43·5	15·7	49·9	45·6	·304	3·4	0·8	85	544	–	–	1·2	7	4	11	9	–	2·9	9	1·30
		June	30·102	0·924	75·8	40·0	35·8	65·6	50·3	15·3	57·0	49·5	·353	3·9	1·3	76	539	–	–	1·8	4	9	11	6	–	3·0	6	1·85
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	April	29·708	1·122	73·8	34·2	39·6	60·0	43·0	17·0	49·9	46·2	·314	3·5	0·5	88	540	97·8	38·1	0·2	5	7	9	9	–	4·8	12	2·70
		May	29·797	0·872	74·7	35·0	39·7	63·5	43·5	20·0	52·0	46·5	·316	3·6	0·8	82	539	105·9	39·0	0·4	9	9	3	10	–	5·6	11	0·61
		June	29·932	0·906	86·5	42·2	44·3	71·1	50·1	21·0	59·0	54·7	·428	4·8	0·8	86	533	112·6	46·4	0·6	8	12	4	6	–	5·7	12	1·63
PORTSMOUTH, William C. Ellis, Esq.	16	April	29·923	1·128	–	–	–	–	–	–	–	–	–	–	–	–	–	103·3	39·6	2·0	5	9	6	10	4·9	4·6	13	2·62
		May	29·979	0·870	–	–	–	–	–	–	–	–	–	–	–	–	–	110·0	39·7	1·6	6	7	6	12	5·5	6·0	9	1·21
		June	30·071	0·870	–	–	–	–	–	–	–	–	–	–	–	–	–	120·3	47·0	1·5	7	10	7	6	5·0	5·4	10	1·93
WORTHING (Sussex), W. J. Harris, Esq., M.R.C.S.E., L.S.A., F.M.S.	31	April	29·847	1·120	69·0	35·3	33·7	59·2	44·5	14·7	51·0	43·1	·279	3·2	1·2	72	541	105·1	40·2	1·0	6	7	4	13	3·4	5·0	9	1·45
		May	29·945	0·878	68·0	34·4	33·6	59·7	43·3	16·4	50·7	41·9	·276	3·2	0·9	76	543	115·9	39·4	0·5	9	9	6	7	0·8	5·6	7	0·54
		June	30·080	0·869	76·4	40·9	35·5	67·0	50·7	16·3	57·8	48·8	·344	3·8	1·5	71	538	118·6	47·3	0·7	8	10	5	7	2·5	5·1	10	1·99
BRIGHTON (Sussex), Frederick E. Sawyer, Esq., F.M.S.	200	April	29·678	1·101	69·1	35·0	34·1	56·7	43·9	12·8	49·8	41·2	·260	3·0	1·0	73	540	106·7	39·2	1·1	4	4	8	14	–	5·1	11	1·79
		May	29·758	0·930	69·6	34·0	35·6	59·9	43·3	16·6	50·6	40·7	·254	2·9	1·3	69	540	111·2	40·3	0·7	11	5	5	10	–	6·6	7	0·24
		June	29·888	0·887	75·3	39·7	35·6	66·3	50·5	15·8	57·4	48·7	·344	3·8	1·4	65	535	113·8	47·9	0·6	11	11	3	5	–	5·0	10	1·60
MANOR HOUSE (Hastings), Alex. E. Murray, Esq., F.M.S.	174	April	29·722	1·080	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1·3	–	–	–	–	–	5·3	–	–
		May	29·802	0·880	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1·3	11	7	6	7	–	5·7	–	–
		June	29·942	0·864	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1·6	11	7	6	6	–	5·2	–	–
TAUNTON (Somerset), James Bottomley, Esq.	80	April	29·800	1·204	77·0	30·0	47·0	60·2	41·7	18·5	50·3	43·5	·283	3·3	0·9	78	541	71·2	35·2	0·3	8	9	5	8	5·0	5·0	12	2·23
		May	29·918	0·876	76·4	29·5	46·9	64·8	41·1	23·7	51·3	44·6	·296	3·4	0·9	78	542	78·3	53·9	0·3	7	10	7	7	5·3	7·1	10	1·60
		June	30·041	0·964	83·7	31·0	52·7	70·8	47·8	23·0	57·7	48·7	·344	3·8	1·5	71	537	83·6	46·6	0·3	6	6	7	11	–	6·2	8	1·21
WILTON HOUSE (near Salisbury), T. Challis, Esq.	186	April	29·675	1·132	78·5	27·5	51·0	62·4	37·9	24·5	49·5	44·3	·292	3·3	0·7	83	540	109·3	34·7	1·5	4	6	9	11	–	4·8	14	2·06
		May	29·782	0·874	78·0	28·0	52·0	66·4	37·8	28·6	51·0	44·9	·299	3·4	0·8	80	540	116·6	34·0	1·2	9	12	8	2	–	6·3	9	0·76
		June	29·926	0·864	85·0	31·0	54·0	73·4	44·8	28·6	57·6	50·0	·360	4·0	1·3	75	535	118·8	42·4	1·4	6	12	6	6	–	6·1	9	1·22
BARNSTAPLE (Devon), T. Mackrell, Esq.	43	April	29·825	1·250	79·0	35·0	44·0	60·5	46·1	14·4	52·3	45·4	·303	3·4	1·1	77	539	–	–	1·1	5	5	8	12	–	3·0	11	1·89
		May	29·912	0·850	71·0	34·0	37·0	63·8	47·2	16·6	54·3	46·0	·309	3·7	1·2	73	539	–	–	1·0	12	4	6	9	–	4·0	9	0·70
		June	30·059	0·940	79·0	43·0	36·0	70·6	55·2	17·4	60·0	51·7	·390	4·2	1·5	74	535	–	–	1·3	5	5	11	9	–	3·6	7	1·48

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1874. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.=100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
ALDERSHOT CAMP (Hants). John Arnold, Esq., M.S.C., F.M.S.	325	April	29·509	1·100	77·2	30·2	47·0	62·3	40·1	22·2	49·9	41·3	·262	3·0	1·1	73	537	104·5	34·8	1·6	6	4	7	13	2·0	6·1	13	2·46
		May	29·609	0·876	76·4	29·0	47·4	63·7	39·6	24·1	49·8	40·6	·254	2·9	1·2	71	538	120·0	36·1	1·4	14	6	3	8	1·5	6·7	10	0·82
		June	29·742	0·872	85·0	36·0	49·0	71·4	47·7	23·7	57·5	49·1	·348	3·8	1·4	73	532	125·3	45·2	1·5	8	8	7	7	1·2	6·8	10	2·43
ST. AUGUSTINE'S MONASTERY, (Ramsgate), Rev. E. J. Stutter, O.S.B.	108	April	29·788	1·080	71·0	33·0	38·0	58·4	42·5	15·9	49·7	42·9	·277	3·2	0·9	78	542	97·4	40·1	1·4	6	9	6	9	–	4·9	–	–
		May	29·862	0·857	78·5	36·4	42·1	61·1	43·1	18·0	51·0	42·8	·276	3·1	1·1	74	539	106·7	41·6	1·5	13	8	3	7	–	5·2	–	–
		June	30·013	0·861	79·0	43·0	36·0	68·2	51·4	16·8	58·5	50·9	·373	4·2	1·3	76	536	108·9	46·7	1·9	12	7	3	8	–	5·7	–	–
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	April	29·687	1·152	77·3	29·8	47·5	60·7	41·1	19·6	49·9	42·2	·269	3·0	1·0	76	539	111·9	36·4	0·7	8	4	5	13	4·5	5·0	12	1·99
		May	29·769	0·878	75·7	29·3	46·4	61·8	41·0	20·8	50·2	43·0	·277	3·2	0·9	77	541	152·2	37·1	0·5	14	10	0	7	4·5	6·4	9	0·83
		June	29·914	0·919	81·3	33·7	47·6	69·7	47·1	22·6	56·7	48·0	·335	3·8	1·2	73	536	119·0	43·9	0·6	7	11	4	8	4·0	5·7	6	0·91
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	April	29·744	1·135	81·3	28·5	52·8	62·6	40·6	22·0	50·5	43·3	·281	3·3	0·9	77	540	101·0	37·2	0·8	6	9	9	6	1·8	4·7	12	1·69
		May	29·850	0·826	75·0	28·8	46·2	62·7	39·8	22·9	50·1	43·7	·285	3·3	0·8	79	542	103·9	35·8	0·7	10	12	5	4	1·4	5·9	10	1·11
		June	29·985	0·930	83·5	35·0	48·5	70·3	47·8	22·5	57·6	49·4	·352	3·9	1·4	74	536	109·2	44·8	0·7	11	7	6	6	0·9	5·3	13	3·54
MARLBOROUGH COLLEGE (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	456	April	29·404	1·160	77·0	28·2	48·8	57·9	39·4	18·5	47·5	41·1	·259	3·0	0·8	80	537	117·3	38·5	–	9	6	7	8	–	6·8	13	1·87
		May	29·513	0·858	68·7	26·4	42·3	58·3	39·1	19·2	47·5	40·1	·248	2·8	0·9	76	539	132·1	37·6	–	10	12	3	6	–	7·7	11	0·67
		June	29·648	0·920	80·2	30·6	49·6	66·4	45·3	21·1	54·3	45·8	·307	3·5	1·3	72	534	142·6	44·3	–	4	11	4	11	–	7·0	8	1·22
ROYAL OBSERVATORY (Kent), The Astronomer Royal.	159	April	29·704	1·117	79·7	30·5	49·2	61·5	41·3	20·2	50·0	43·6	·284	3·3	0·8	79	539	109·9	34·5	0·5	4	7	6	13	–	5·8	12	1·35
		May	29·803	0·898	77·6	31·1	46·5	63·2	40·7	22·5	50·5	42·8	·275	3·2	1·0	76	541	123·5	32·4	0·2	12	8	4	7	–	6·8	7	0·42
		June	29·939	0·911	83·7	37·5	46·2	71·1	48·3	22·8	58·0	49·5	·355	3·9	1·5	74	535	132·7	41·1	0·2	8	9	7	6	–	6·4	11	2·42
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.A.S., F.M.S.	150	April	29·719	1·207	80·3	30·3	50·0	61·9	41·1	20·8	50·8	45·3	·303	3·6	0·8	82	539	71·7	–	1·6	7	7	6	10	–	5·6	13	1·49
		May	29·832	0·881	73·2	29·4	43·8	63·4	40·8	22·6	51·2	45·6	·305	3·5	0·8	81	540	75·6	–	1·3	12	7	4	8	–	6·3	9	1·23
		June	29·978	0·908	84·3	35·0	49·3	70·5	46·5	24·0	57·2	49·3	·351	3·9	1·3	75	537	81·0	–	1·6	10	7	4	9	–	5·8	7	1·06
ST. JOHN'S COLLEGE, BATTERSEA (London), Rev. J. P. Faunthorpe, M.A., F.R.G.S.	13	April	29·835	1·134	78·0	29·0	49·0	60·2	38·9	21·3	49·7	47·9	·332	3·9	0·3	94	542	78·4	31·6	1·8	2	5	13	10	–	4·8	7	1·09
		May	29·923	0·876	73·0	29·0	44·0	59·9	38·9	21·0	49·5	48·4	·341	3·9	0·2	96	544	85·7	34·8	1·5	7	9	8	7	–	5·9	3	0·69
		June	30·063	0·926	80·5	35·0	45·5	68·5	45·2	23·3	56·7	–	–	–	–	–	–	96·7	43·0	1·7	4	10	9	7	–	5·8	10	2·40
CAMDEN TOWN (London), G. J. Symons, Esq., F.M.S.	123	April	29·750	1·160	79·2	32·7	46·5	61·9	42·1	19·8	50·8	43·0	·278	3·2	1·0	75	540	97·0	38·8	–	8	5	5	12	–	5·2	11	1·26
		May	29·848	0·869	73·9	33·3	40·6	63·2	42·5	20·7	51·4	42·4	·272	3·1	1·2	72	541	111·4	39·3	–	16	2	3	10	–	5·9	7	1·14
		June	29·993	0·900	81·7	39·5	42·2	70·8	49·4	21·4	58·4	48·7	·340	3·9	1·0	81	540	121·4	46·8	–	12	4	8	6	–	5·7	12	2·06
CHISWICK, Thiselton Dyer, Esq.	25	April	29·811	1·130	79·7	28·5	51·2	61·6	40·6	21·0	50·2	40·3	·251	2·9	1·3	69	542	104·7	37·7	–	6	4	7	13	–	–	11	1·33
		May	29·948	0·876	75·0	27·0	48·0	63·1	39·0	24·1	49·8	40·1	·250	3·0	1·0	70	545	115·9	36·1	–	16	7	2	6	–	–	5	0·46
		June	30·078	0·914	81·7	33·7	48·0	70·3	46·8	23·5	57·0	48·0	·334	3·8	1·4	72	539	122·4	43·7	–	10	6	7	7	–	–	9	2·38
TOWN MUSEUM (Leicester), W. J. Harrison, Esq.	245	April	29·599	1·330	74·6	33·9	40·7	58·4	41·7	16·7	49·4	41·7	·265	3·0	1·0	75	539	114·8	36·2	0·8	5	6	10	9	–	5·5	13	1·39
		May	29·734	0·888	67·0	33·0	34·0	57·6	42·3	15·3	48·8	42·2	·268	3·1	0·9	78	542	116·5	36·2	0·8	13	10	3	5	–	8·2	15	1·75
		June	29·863	0·924	76·2	39·8	36·4	65·9	48·4	17·5	56·2	46·8	·324	3·6	1·5	71	536	120·7	40·8	0·9	8	7	6	9	–	6·3	7	0·53
OXFORD (Oxfordshire). Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	April	29·647	1·186	75·6	31·5	44·1	60·2	41·7	18·5	50·8	42·8	·276	3·2	1·0	75	538	112·7	37·7	0·9	6	6	7	11	4·9	6·5	10	1·28
		May	29·768	0·880	72·4	30·6	41·8	60·3	42·7	17·6	51·1	42·7	·275	3·1	1·1	73	540	112·3	38·5	0·6	15	7	4	5	4·2	7·8	9	1·56
		June	29·887	0·924	80·7	37·6	43·1	68·6	48·1	20·5	58·1	48·4	·341	3·8	1·6	70	534	119·8	44·6	0·9	7	10	6	7	4·8	7·0	8	0·68
GLOUCESTER (Gloucester), E. Toller, Esq., M.D.	100	April	29·809	1·241	78·3	31·2	44·1	62·9	42·0	20·9	51·0	43·6	·285	3·2	1·0	76	542	110·5	38·3	0·6	7	6	7	10	2·0	4·6	14	1·47
		May	29·940	0·887	72·8	27·7	45·1	64·4	41·7	22·6	50·9	39·9	·247	2·8	1·4	69	543	106·1	38·9	0·4	11	11	2	7	1·4	5·6	6	0·35
		June	30·013	0·937	82·8	34·6	48·2	71·1	48·3	22·8	57·8	48·9	·346	3·9	1·5	72	537	112·3	45·1	0·4	8	8	7	7	2·8	5·3	6	1·50
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	April	29·578	1·165	78·3	30·3	48·0	61·6	39·8	21·8	49·2	44·0	·289	3·3	0·7	83	538	–	–	–	5	6	9	10	–	6·0	11	1·37
		May	29·722	0·888	75·3	27·8	47·5	62·0	38·8	23·2	49·2	43·2	·280	3·2	0·8	80	541	–	–	–	18	4	2	7	–	7·3	9	1·01
		June	29·864	0·897	84·4	33·8	50·6	71·0	46·3	24·7	56·9	48·8	·345	3·9	1·3	74	535	–	–	–	12	5	5	8	–	6·6	10	1·26
CARDINGTON (near Bedford), Mr. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	105	April	29·765	1·190	78·4	30·0	48·4	61·3	40·3	21·0	50·3	43·9	·288	3·4	0·8	79	540	97·7	33·2	1·7	6	4	10	10	–	5·6	11	1·25
		May	29·878	0·890	75·0	29·0	46·3	61·3	40·3	21·0	50·0	43·2	·279	3·0	1·0	78	543	105·7	34·8	1·3	15	9	2	5	–	6·9	11	1·50
		June	30·009	0·906	82·0	37·0	45·0	70·2	47·0	23·2	57·8	49·3	·350	4·0	1·2	77	537	107·4	40·5	1·3	9	7	4	10	–	5·9	8	1·10
ST. DAVID'S COLLEGE, LAMPETER (Cardiganshire), Prof. A. W. Scott.	420	April	29·411	1·158	76·5	28·0	48·5	60·0	39·2	20·8	48·8	41·5	·263	2·9	0·9	76	536	104·1	–	–	9	4	9	9	–	–	12	2·11
		May	29·569	0·848	78·0	32·0	46·0	63·6	42·2	21·4	51·8	43·2	·280	3·2	1·1	73	536	110·5	–	–	10	8	10	3	–	–	9	1·71

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1874. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	50	April	29·818	1·198	71·9	29·9	42·0	58·1	40·5	17·6	48·0	43·8	·285	3·3	0·5	86	544	–	31·2	1·2	4	7	9	10	5·9	5·4	7	0·84
		May	29·904	0·848	73·2	31·6	41·6	58·9	40·7	18·2	48·5	43·0	·282	3·1	0·8	81	545	–	30·8	1·0	12	12	2	5	5·0	6·0	16	1·69
		June	30·052	0·884	77·7	36·2	41·5	67·0	46·9	18·1	55·6	50·1	·355	3·9	1·0	83	540	–	37·6	1·1	8	12	6	4	4·5	5·6	13	2·39
NORWICH (Norfolk), John Quinton, Esq., Jun.	42	April	29·821	1·182	74·5	30·5	44·0	57·8	40·2	17·6	48·0	44·8	·296	3·4	0·4	89	544	–	–	–	4	6	9	11	–	–	9	1·17
		May	29·921	0·866	73·0	32·0	41·0	58·1	40·3	17·8	48·1	45·8	·308	3·5	0·3	92	546	–	–	–	15	6	3	7	–	–	14	1·09
		June	30·057	0·904	80·5	38·5	42·0	67·0	48·0	19·0	56·0	51·2	·378	4·3	0·8	84	539	–	–	–	12	6	8	4	–	–	10	1·83
WISBECH (Cambridgeshire), S. H. Miller, Esq., F.R.A.S., F.M.S.	14	April	29·836	1·212	77·0	31·8	45·2	61·4	40·5	20·9	50·2	43·2	·280	3·1	1·0	78	542	108·1	36·3	0·5	7	6	6	11	3·8	5·1	12	1·14
		May	29·954	0·884	73·1	31·4	41·7	61·0	41·3	29·7	50·0	44·2	·291	3·3	0·8	81	544	113·6	36·6	0·4	14	6	3	8	3·0	7·3	13	1·53
		June	30·086	0·942	83·0	35·9	47·1	69·6	47·7	21·9	57·4	49·2	·353	4·0	1·2	74	538	120·4	43·6	0·5	10	5	7	8	3·5	6·6	9	1·63
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	100	April	29·703	1·360	81·0	35·3	45·7	61·0	41·7	19·3	51·0	45·9	·311	3·5	0·9	83	538	–	–	0·8	4	5	6	15	–	4·2	12	1·41
		May	29·886	0·880	65·8	36·6	29·2	59·1	43·7	15·4	50·6	42·8	·275	3·1	1·0	76	543	–	–	0·8	5	15	4	7	–	5·9	11	2·68
		June	30·015	0·940	72·0	41·2	30·8	66·6	49·1	17·5	56·8	47·6	·320	3·7	1·4	71	538	–	–	0·7	7	10	5	8	–	4·5	5	0·35
DERBY (Derbyshire), John Davis, Esq.	174	April	29·646	1·146	75·0	31·0	44·0	61·0	42·0	19·0	49·6	42·8	·276	3·1	0·9	78	539	–	–	–	2	7	9	12	–	–	11	1·26
		May	29·788	0·891	70·0	31·0	39·0	59·2	43·7	15·5	49·8	42·6	·274	3·2	0·8	76	541	–	–	–	10	12	3	6	–	–	12	1·33
		June	29·917	0·954	80·0	41·0	39·0	69·1	48·8	20·3	56·9	46·8	·320	3·6	1·4	69	536	–	–	–	7	5	5	13	–	–	–	1·07
NOTTINGHAM (Notts), M.O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	183	April	29·634	1·206	78·0	30·6	47·4	61·2	40·6	20·6	49·4	42·4	·272	3·1	0·9	77	539	112·6	33·2	0·7	6	4	6	14	3·1	4·7	14	1·17
		May	29·768	0·834	72·1	33·1	39·0	59·5	42·3	17·2	49·0	42·8	·276	3·1	0·9	79	542	109·1	35·4	0·4	18	7	2	4	3·1	6·8	16	1·24
		June	29·901	0·934	82·2	40·2	42·0	69·2	47·5	21·7	56·5	42·2	·271	3·1	2·0	69	537	125·9	40·1	0·4	8	8	7	7	4·1	6·5	11	0·89
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	39	April	29·804	1·212	75·0	28·0	47·0	58·5	37·7	20·8	48·0	39·6	·243	2·8	1·0	73	544	117·0	35·0	1·4	10	5	9	6	–	5·2	8	1·18
		May	29·900	0·884	70·6	30·0	40·6	57·7	38·4	19·3	47·5	41·2	·270	3·0	0·7	80	546	130·2	36·3	1·6	14	6	4	7	–	6·6	16	1·08
		June	30·027	0·926	78·0	33·0	45·0	72·2	46·4	25·8	56·8	50·5	·357	4·1	1·0	79	538	130·1	42·2	1·5	12	4	7	7	–	6·1	9	1·35
LIVERPOOL OBSERVATORY. John Hartnup, Esq., F.R.A.S.	197	April	29·617	1·310	72·2	34·1	38·1	56·8	43·4	13·4	49·0	40·7	·255	2·9	1·1	73	539	–	–	1·4	3	4	9	14	–	5·4	14	0·95
		May	29·778	0·842	63·1	37·9	25·2	56·1	44·4	11·7	49·0	41·1	·260	3·0	1·0	74	542	–	–	1·0	11	9	3	8	–	6·1	17	1·73
		June	29·904	0·959	69·4	44·2	25·2	64·5	50·3	14·2	56·0	46·6	·322	3·6	1·4	71	537	–	–	1·0	6	8	6	10	–	5·2	7	0·30
ECCLES (near Manchester), T. Mackereth, Esq., F.R.A.S., F.M.S.	145	April	29·673	1·428	77·5	31·3	46·2	60·1	40·4	19·7	49·2	42·1	·268	3·0	1·0	77	540	75·1	33·1	0·3	4	5	10	11	2·2	5·4	17	0·82
		May	29·840	0·854	67·9	28·8	39·6	58·5	40·8	17·7	48·8	41·7	·264	3·0	0·9	77	544	75·7	34·5	0·2	12	7	4	8	2·1	7·9	19	1·96
		June	29·957	0·966	74·7	35·1	39·6	68·2	46·0	22·2	55·1	47·8	·333	3·7	1·2	74	538	86·0	39·5	0·3	10	3	5	12	1·6	5·7	8	0·89
MOOR SIDE OBSERVATORY, HALIFAX (Yorkshire), Louis J. Crossley, Esq., F.M.S.	429	April	29·316	1·266	72·8	28·8	44·0	57·0	40·3	16·7	47·2	39·5	·243	2·8	0·9	76	536	89·5	34·4	–	5	6	4	15	3·0	6·5	17	2·15
		May	29·495	0·833	66·8	30·2	36·6	55·7	41·5	14·2	46·4	39·8	·245	2·8	0·8	79	540	85·1	38·1	–	9	15	2	5	2·0	8·6	18	1·26
		June	29·603	0·952	73·0	35·7	36·3	66·3	47·6	18·7	55·1	45·2	·302	3·4	1·5	70	532	102·2	41·2	–	6	6	4	14	1·6	6·5	7	0·86
BERMERSIDE OBSERVATORY, HALIFAX (Yorkshire), Edward Crossley, Esq., F.R.A.S.	520	April	29·259	1·264	74·5	29·0	45·5	58·0	38·5	19·5	46·9	39·0	·238	2·7	0·7	75	535	95·6	–	0·9	1	9	8	12	–	6·1	13	2·16
		May	29·428	0·822	67·0	29·5	37·5	56·4	39·5	16·9	46·1	39·9	·247	2·8	0·8	79	539	91·6	–	0·7	10	12	3	6	–	7·5	10	1·10
		June	29·520	0·966	74·0	35·0	39·0	66·9	44·5	22·4	54·5	45·6	·306	3·4	1·4	72	531	111·0	–	0·7	5	5	7	13	–	5·9	4	1·94
THE PARK, HULL (Yorkshire), Mr. E. Peak.	12	April	29·833	1·204	74·0	30·0	44·0	57·6	38·3	19·3	47·4	41·3	·260	3·0	0·7	81	545	85·2	36·0	–	–	–	–	–	–	–	8	1·11
		May	29·978	0·898	70·0	27·0	43·0	56·6	40·0	16·6	47·2	42·6	·273	3·2	0·6	85	548	86·0	38·0	–	–	–	–	–	–	–	18	1·73
		June	30·094	0·984	77·0	37·0	40·0	67·9	46·4	21·5	55·6	48·6	·344	3·8	1·1	78	540	97·5	43·6	–	–	–	–	–	–	–	10	0·60
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.A.S., F.M.S.	363	April	29·444	1·502	72·0	31·7	40·3	57·8	39·9	17·9	47·6	42·1	·268	3·1	0·7	81	537	113·9	35·0	–	6	6	9	9	–	5·9	19	1·81
		May	29·596	0·881	68·0	31·4	36·6	58·2	41·6	16·6	48·1	43·3	·280	3·2	0·7	84	540	111·3	37·9	–	14	8	3	6	–	8·2	18	1·84
		June	29·615	0·990	72·0	34·3	37·7	66·1	45·0	21·1	54·2	48·3	·337	3·9	0·9	80	533	125·7	41·3	–	6	5	8	11	–	6·6	11	2·05
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	366	April	29·495	1·566	73·8	33·4	40·4	57·4	41·3	16·1	48·0	41·3	·260	3·0	0·9	77	538	82·8	–	0·8	5	4	6	15	–	4·4	15	1·75
		May	29·622	0·910	65·0	34·6	30·4	55·5	42·3	13·2	46·7	42·5	·273	3·2	0·5	85	542	77·9	–	1·0	15	7	1	8	–	7·3	13	0·79
		June	29·673	0·980	73·0	42·6	30·4	65·7	49·2	16·5	55·7	46·6	·319	3·6	1·3	71	533	95·4	–	1·0	7	3	4	16	–	5·7	10	0·81
LEEDS PHILOSOPHICAL HALL (Yorkshire), Louis C. Miall, Esq.	137	April	29·685	1·252	79·0	33·0	46·0	61·6	40·8	20·8	50·3	41·5	·262	3·0	1·1	72	539	70·9	–	1·2	7	5	5	13	–	6·5	14	1·33
		May	29·832	0·840	72·0	34·0	38·0	60·3	42·0	18·3	49·2	42·6	·274	3·1	0·9	78	543	68·7	–	1·1	13	13	1	4	–	7·4	18	0·95
		June	29·947	0·988	79·0	41·0	38·0	70·2	48·6	21·6	58·0	48·2	·337	3·7	1·7	70	535	78·3	–	1·3	8	7	3	12	–	7·0	9	0·47
COCKERMOUTH (Cumberland), H. Dobsons, Esq., M.D., F.R.A.S., F.M.S.	146	April	29·618	1·626	76·2	32·1	44·1	57·1	41·9	15·2	48·7	42·1	·268	3·1	0·8	79	540	100·8	34·4	0·6	3	5	10	12	2·2	5·3	13	1·51
		May	29·819	0·824	64·9	31·2	35·7	51·9	41·7	10·2	49·1	41·7	·265	3·0	1·0	75	545	103·3	35·5	0·5	10	12	4	5	2·1	5·9	12	1·38
		June	29·925	0·978	75·3	34·1	41·2	66·2	47·3	13·7	55·3	48·9	·344	3·8	1·1	78	537	112·4	40·5	0·5	7	4	4	15	1·4	4·5	9	1·23

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1874. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sats. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
ALLENHEADS (Northumberland), Mr. T. Kidd, Assistant to W. B. Beaumont, Esq., M.P.	1360	April	28·315	1·200	69·0	30·0	39·0	53·3	36·5	16·8	43·0	37·5	·225	2·6	0·6	81	522	101·0	33·8	1·5	–	–	–	–	–	5·4	13	2·75
		May	28·528	0·712	64·0	29·0	35·0	52·6	37·4	15·2	42·5	38·1	·232	2·6	0·5	85	526	106·6	35·2	1·0	–	–	–	–	8·0	16	2·32
		June	28·619	0·888	71·5	31·0	40·5	63·0	43·4	19·6	51·0	46·3	·316	3·5	0·8	84	529	120·0	39·7	1·2	–	–	–	–	6·3	12	1·55
SILLOTH RECTORY (Cumberland), Rev. Francis Redford, M.A., F.R.A.S., F.M.S.	28	April	29·714	1·605	75·2	33·5	41·7	59·1	41·4	17·7	49·4	41·3	·261	3·0	1·0	74	541	91·6	37·9	1·5	2	4	7	17	9·2	4·7	11	1·26
		May	29·945	0·854	69·2	31·8	37·4	60·8	42·0	18·8	49·8	41·3	·261	3·0	1·1	74	545	95·4	38·4	1·3	5	15	1	10	9·5	5·7	11	1·04
		June	30·059	0·999	76·5	34·0	42·5	70·0	46·5	23·5	56·7	47·5	·328	3·7	0·9	71	539	106·7	42·8	1·1	5	5	6	14	6·9	4·2	6	0·71
CARLISLE (Cumberland), J. Cartmell, Esq., F.M.S.	114	April	29·672	1·392	75·4	29·7	45·7	57·8	39·0	18·8	47·6	40·2	·249	3·0	1·0	76	542	90·6	34·2	2·0	3	5	6	16	6·5	5·8	9	1·13
		May	29·874	0·836	68·6	27·5	41·1	57·8	39·5	18·3	47·8	39·2	·240	2·8	0·9	73	545	91·8	35·1	2·1	12	9	4	6	5·4	6·9	14	1·38
		June	29·973	1·023	74·7	29·4	45·3	67·2	44·7	22·5	55·4	44·9	·299	3·4	1·6	68	539	105·0	39·7	1·7	2	7	3	8	5·3	4·8	8	1·11
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	April	29·655	1·486	75·0	34·0	41·0	59·9	42·3	17·6	49·1	38·5	·234	2·7	1·3	66	540	83·2	35·8	1·4	5	7	5	13	–	4·0	14	1·61
		May	29·871	0·830	66·0	35·0	31·0	55·6	43·3	12·3	47·9	40·4	·250	3·0	0·7	76	545	72·2	36·8	1·2	5	17	2	7	–	5·8	20	2·85
		June	29·958	0·968	74·0	39·0	35·0	66·5	49·7	16·8	56·1	46·2	·316	3·5	1·5	69	538	96·3	43·0	1·3	7	6	3	14	–	4·0	13	1·61
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	April	29·704	1·615	71·5	33·4	38·1	54·2	40·7	13·5	46·3	38·2	·234	2·7	0·9	74	544	–	38·9	1·6	6	5	5	14	–	4·8	10	0·72
		May	29·898	0·839	65·5	31·8	33·7	52·2	41·5	10·7	45·8	39·8	·246	2·8	0·7	80	548	–	40·7	1·4	9	13	5	4	–	6·8	17	2·30
		June	29·995	1·019	72·0	37·0	35·0	62·8	47·6	15·2	53·8	45·1	·300	3·4	1·0	72	541	–	46·9	1·7	8	5	5	12	–	5·4	8	1·00
MILTOWN (Banbridge, Ireland), John Smyth, Esq., jun., M.A., M.I.C.E.I.	200	April	29·441	1·311	70·0	30·0	40·0	56·6	40·3	16·3	48·2	39·8	·245	2·9	0·9	73	537	103·2	34·4	2·2	3	3	15	9	–	4·1	14	1·68
		May	29·661	0·726	68·0	31·0	37·0	57·0	41·9	15·1	48·8	40·3	·250	2·8	1·0	72	541	100·8	37·0	1·8	10	8	9	4	–	5·0	11	0·68
		June	29·755	0·940	75·0	35·0	40·0	66·8	45·4	21·4	55·6	44·9	·300	3·4	1·6	68	534	121·3	38·5	1·7	10	4	8	8	–	4·5	11	1·12

NOTE.—*The Barometer Reading*, BRADFORD, 2nd April, 3h. p.m., 29·832 in., has been altered to 29·332 in.
The Wet Bulb Thermometer, CHISWICK, 28th May, 3h. p.m., 29°2, has been altered to 59°2.
ST. JOHN'S COLLEGE, Battersea, June, all Wet Bulb Thermometer readings are wrong. Muslin probably in a bad state from deposition of lime salts from hard water.

Second Rain-gauges are placed—

			April.	May.	June.	Total during the Quarter.
At Portsmouth, at the height of	20 feet	*above the ground*,	the amount collected was 2·52 inches.	1·15 inches.	1·81 inches.	5·48 inches.
" Strathfield Turgiss, "	38 feet	"	" 1·42 "	0·64 "	0·74 "	2·80 "
" Eccles (Manchester), "	34 feet	"	" 0·67 "	1·85 "	0·70 "	3·22 "
" Carlisle, "	3 feet	"	" 3·27 "	3·18 "	4·50 "	10·95 "
" Miltown (Ireland), "	40 feet	"	" 1·39 "	1·39 "	0·96 "	3·74 "
" Oxford, "	22 feet	"	" 1·16 "	1·52 "	0·67 "	3·35 "
" Marlborough College, "	8 inches	"	" 1·82 "	0·65 "	1·18 "	3·65 "
" " "	1 foot	"	" 1·75 "	0·63 "	1·17 "	3·55 "
" Cardington, "	36 feet	"	" 1·00 "	1·00 "	0·75 "	2·75 "
" Nottingham, "	39 feet	"	" 1·17 "	1·24 "	0·84 "	3·25 "
" Wisbech, "	8 feet	"	" 1·09 "	1·51 "	1·61 "	4·21 "
" Aldershot Camp, "	25 feet	"	" 1·86 "	0·63 "	1·93 "	4·42 "

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·669	70·0	39·0	31·0	59·0	48·4	26·3	10·7	51·8	47·6	·330	3·8	0·6	86	539	—	—	1·2	11	6	5	9	3·9	3·9	28	3·70
Helston	—	76·0	34·0	42·0	64·3	49·3	35·3	15·0	55·2	46·2	·315	3·7	1·5	72	535	92·9	42·9	2·1	9	6	6	10	4·4	3·6	26	3·70
Truro	29·713	75·0	30·0	45·0	62·3	46·0	37·3	16·3	53·1	44·9	·301	3·4	1·2	74	541	—	—	2·5	9	8	5	8	—	3·6	22	3·07
Sidmouth	29·688	75·8	32·9	42·9	60·5	45·6	34·0	14·9	51·9	47·0	·322	3·6	0·9	84	542	—	—	1·4	6	6	11	8	—	4·0	22	3·47
Osborne	29·647	86·5	34·2	52·3	64·9	45·5	41·2	19·4	53·6	49·1	·353	4·0	0·7	85	537	105·4	41·2	0·4	7	9	5	8	—	5·3	23	3·70
Portsmouth	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	114·5	42·1	1·7	6	9	6	9	5·1	5·3	24	3·70
Worthing	29·690	76·4	34·4	42·0	62·0	46·2	34·3	15·8	53·2	44·6	·300	3·4	1·2	73	541	113·2	42·3	0·7	8	9	5	9	2·2	5·3	23	3·70
Brighton	29·703	75·3	34·0	41·3	61·0	45·9	35·1	15·1	52·6	43·5	·286	3·2	1·2	69	538	110·6	42·5	0·8	9	7	5	10	—	5·4	20	3·70
Hastings	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1·4	—	—	—	—	—	5·4	—	—
Taunton	29·699	83·7	29·5	54·2	65·3	43·5	48·9	21·8	53·2	45·6	·308	3·5	1·1	76	540	77·7	45·5	0·3	7	8	6	9	—	6·1	23	3·70
Salisbury	29·680	85·0	26·0	59·0	67·4	40·2	52·3	27·2	42·7	46·4	·317	3·6	0·9	79	538	114·9	37·0	1·4	6	10	8	6	—	5·7	22	3·70
Barnstaple	29·658	79·0	34·0	45·0	65·0	48·8	39·0	16·2	55·5	47·7	·334	3·8	1·3	75	538	—	—	1·1	7	5	8	10	—	3·3	23	3·70
Aldershot Camp	29·686	85·0	29·0	56·0	65·8	42·5	47·8	23·3	42·4	43·7	·288	3·2	1·2	72	536	116·6	38·7	1·5	9	6	6	9	1·6	6·3	22	3·70
Ramsgate	29·699	79·0	33·0	46·0	62·6	45·7	38·7	16·9	53·1	45·5	·309	3·5	1·1	76	539	104·3	42·8	1·6	10	8	4	8	—	5·3	21	3·70
Strathfield Turgiss	29·710	81·3	29·3	52·0	64·1	43·1	47·2	21·0	52·3	44·4	·294	3·3	1·0	75	539	127·7	39·1	0·6	10	8	3	9	4·3	5·7	22	3·70
Weybridge Heath	29·720	83·5	28·5	55·0	65·2	42·7	49·2	22·5	52·7	45·5	·306	3·5	0·8	77	539	104·7	39·3	0·7	9	9	7	5	1·4	5·3	22	3·70
Marlborough College	29·744	80·2	26·4	53·8	60·9	41·3	46·9	19·6	49·8	42·3	·271	3·1	1·0	76	537	130·7	40·1	—	8	10	5	8	—	7·2	22	3·70
Royal Observatory	29·685	83·7	30·5	53·2	65·3	43·4	47·3	21·9	52·8	45·3	·305	3·5	1·1	76	538	122·0	35·0	0·3	8	8	6	9	—	6·3	22	3·70
Streatley Vicarage	29·690	84·3	29·4	54·9	65·3	42·8	47·7	22·5	53·1	46·7	·320	3·7	1·0	79	539	76·1	—	1·5	10	7	5	9	—	5·9	22	3·70
Battersea (London)	—	80·5	29·0	51·5	62·9	41·0	46·2	21·9	52·0	—	—	—	—	—	—	86·9	35·5	1·7	4	8	10	8	—	5·5	22	3·70
Camden Town (Lndn.)	29·701	81·7	32·7	49·0	65·3	44·7	43·1	20·6	53·5	44·7	·297	3·4	1·0	76	540	109·9	41·6	—	12	4	5	9	—	5·6	23	3·70
Chiswick	29·696	81·7	27·0	54·7	65·0	42·1	49·1	22·9	52·3	42·8	·278	3·2	1·2	70	542	114·3	39·2	—	11	6	5	9	—	—	23	3·70
Leicester	29·719	76·2	43·2	33·0	60·6	44·1	37·0	16·5	51·5	43·6	·286	3·2	1·1	75	539	117·3	37·7	0·8	9	8	6	8	—	6·7	21	3·70
Oxford	29·700	80·7	30·6	50·1	63·9	44·2	43·0	18·9	53·3	44·6	·297	3·4	1·2	73	537	114·9	41·3	0·8	9	8	6	8	4·6	7·1	23	3·70
Gloucester	29·753	82·8	27·7	55·1	66·1	44·0	45·8	22·1	53·2	44·1	·293	3·3	1·3	72	541	109·6	40·8	0·5	9	8	5	8	2·1	5·2	20	3·70
Royston	29·704	84·4	27·8	56·6	64·9	41·6	48·7	23·2	51·8	45·3	·305	3·5	0·9	79	538	—	—	—	12	5	5	8	—	6·6	20	3·70
Cardington	29·688	82·0	29·0	53·0	64·3	42·5	46·5	21·7	52·7	45·5	·306	3·5	1·0	78	540	103·6	36·2	1·1	10	7	5	8	—	6·1	23	3·70
Somerleyton Rectory	29·670	77·7	29·9	47·8	61·3	42·7	41·7	18·0	50·7	45·6	·311	3·4	0·8	83	543	—	33·2	1·1	8	10	6	6	5·1	5·7	23	3·70
Norwich	29·650	80·5	30·5	50·0	61·0	42·8	42·3	18·2	50·7	47·3	·327	3·7	0·5	88	543	—	—	—	10	6	7	7	—	—	24	3·70
Wisbech	29·666	83·0	31·4	51·6	64·0	43·2	44·7	20·8	52·5	45·5	·308	3·5	1·0	78	541	114·0	38·8	0·5	10	6	5	9	3·4	6·3	23	3·70
Llandudno	29·673	81·0	35·3	45·7	62·2	44·8	35·2	17·4	52·8	45·4	·305	3·4	1·1	77	540	—	—	0·8	5	10	5	10	—	4·9	21	3·70
Derby	29·684	80·0	31·0	49·0	63·1	44·8	40·7	18·3	52·1	44·1	·290	3·3	0·8	74	539	—	—	—	6	8	6	10	—	—	21	3·70
Nottingham	29·695	82·2	30·6	51·6	63·3	43·5	42·8	19·8	51·6	42·5	·273	3·1	1·3	75	539	115·9	36·2	0·5	11	6	5	8	3·4	6·0	23	3·70
Holkham	29·660	78·0	28·0	50·0	62·8	40·8	45·9	22·0	50·8	43·8	·293	3·3	0·9	77	533	—	—	1·5	12	5	7	7	—	6·0	23	3·70
Liverpool	29·701	72·2	34·1	38·1	59·1	46·0	29·5	13·1	51·3	42·8	·279	3·2	1·2	73	539	—	—	1·0	7	7	6	11	—	5·6	23	3·70
Eccles	29·694	77·5	28·3	49·2	62·3	42·4	41·8	19·9	51·4	43·9	·288	3·2	1·0	76	541	78·9	35·7	0·3	9	5	6	10	2·0	6·3	24	3·70
Moorside, Halifax	29·672	73·0	28·8	44·2	59·7	43·1	39·0	16·6	49·6	41·5	·254	3·0	1·1	75	536	92·3	37·9	—	7	9	3	11	2·2	7·2	22	3·70
Bermerside, Halifax	29·700	74·5	29·0	45·5	60·4	40·8	40·7	19·6	49·2	41·5	·254	3·0	1·0	75	532	99·4	—	0·8	5	9	6	10	—	6·3	26	3·70
Hull	29·690	77·0	27·0	50·0	60·7	41·6	42·3	19·1	50·1	44·2	·292	3·3	0·8	81	544	99·6	39·2	—	—	—	—	—	—	—	18	3·70
Stonyhurst	29·670	72·0	31·4	40·6	60·7	42·2	38·2	18·5	50·0	44·6	·295	3·4	0·8	82	537	117·0	38·1	—	9	6	7	9	—	6·9	23	3·70
Bradford	29·707	73·8	33·4	40·4	59·5	41·3	33·7	15·3	50·1	43·5	·284	3·3	0·9	78	538	85·4	—	0·9	9	5	4	13	—	5·3	41	3·70
Leeds	29·680	79·0	33·0	46·0	64·0	43·8	40·7	20·2	52·5	44·1	·291	3·3	1·2	73	539	72·6	—	1·2	9	8	3	10	—	7·0	24	3·70
Cockermouth	29·656	76·2	31·2	45·0	60·4	43·7	39·7	18·7	51·1	44·1	·292	3·3	1·0	77	540	103·5	36·8	0·5	7	7	6	11	1·9	5·2	41	3·70
Allenheads	29·659	71·5	29·0	42·5	56·3	39·1	38·2	17·2	45·5	40·6	·258	2·9	0·6	83	526	109·2	36·2	1·2	—	—	—	—	—	6·6	38	3·70
Silloth	29·654	76·5	31·8	44·7	63·3	43·3	40·5	20·0	52·0	43·4	·283	3·2	1·0	78	542	97·9	39·7	1·3	4	8	5	14	8·5	4·2	31	3·70
Carlisle	29·702	75·4	27·5	47·9	60·9	41·1	44·0	19·8	50·3	41·4	·263	3·1	1·2	72	542	95·8	36·3	1·9	6	7	4	10	5·7	5·8	47	3·70
Bywell	29·656	75·0	34·0	41·0	60·7	45·1	35·7	15·6	51·0	41·7	·267	3·1	1·2	70	541	83·9	38·5	1·3	6	10	3	11	—	4·6	55	3·70
North Shields	—	72·0	31·8	40·2	56·4	43·3	35·6	13·1	48·6	41·0	·260	3·0	0·9	75	544	—	42·2	1·6	8	8	5	10	—	5·7	36	3·70
Miltown (Ireland)	29·670	75·0	30·0	45·0	60·1	42·5	39·0	17·6	50·9	41·7	·265	3·0	1·2	71	537	108·4	36·6	1·9	8	5	11	7	—	4·5		3·70

The highest temperatures of the air were at Osborne, 86°·5; and both at Aldershot and Streatley, 85°·0.

The lowest temperatures of the air were at Salisbury, 26°·0; Marlborough, 26°·4; and at Chiswick, 27°·0.

The greatest daily ranges of the temperatures of the air were at Salisbury, 27°·2; Aldershot, 23°·3; and at Royston, 23°·2.

The least daily ranges of the temperatures of the air were at Guernsey, 10°·7; North Shields, 13°·1; and Liverpool, 13°·1.

The greatest numbers of rainy days were at Bywell, 47; and Eccles, 44.

The least numbers of rainy days were 26 both at Gloucester and Worthing; and at Barnstaple, 27.

The heaviest falls of rain were at Allenheads, 6·62 inches; Weybridge, 6·34 inches; and at Portsmouth, 5·76 inches.

The least falls of rain were at Leeds, 2·75 inches; and at Silloth, 3·01 inches.

QUARTERLY METEOROLOGICAL TABLE for different PARALLELS of LATITUDE.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days on which it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·669	70·0	39·0	31·0	59·0	48·4	26·3	10·7	51·8	47·6	·330	3·8	0·6	86	539	—	—	1·2	11	6	5	9	3·9	3·9	28	3·70
Between the latitudes 50° and 51°	29·684	77·9	33·1	44·8	62·8	46·5	36·4	16·3	53·4	46·4	·318	3·6	1·1	78	539	106·5	42·1	1·5	8	8	6	9	3·9	4·8	29	3·70
Between the latitudes 51° and 52°	29·701	82·1	29·5	52·6	64·6	43·3	46·1	21·3	51·5	44·9	·301	3·4	1·1	75	539	107·9	39·8	1·0	9	8	6	8	2·8	5·9	25	3·70
Between the latitudes 52° and 53°	29·679	81·4	30·7	50·7	63·0	43·2	42·8	19·7	51·9	45·2	·303	3·4	0·9	79	540	111·2	36·1	0·8	9	7	6	8	4·0	5·9	29	3·70
Between the latitudes 53° and 54°	29·688	75·3	30·1	45·1	61·0	42·5	39·6	18·4	50·4	43·9	·283	3·2	1·0	77	538	99·2	37·7	0·8	8	7	5	10	2·1	6·6	26	3·70
Between the latitudes 54° and 55°	29·665	74·9	30·7	44·2	60·3	42·4	39·6	17·9	50·0	42·2	·273	3·1	1·0	75	538	98·7	37·5	1·2	6	8	5	11	5·4	5·7	25	3·70
North Shields	—	72·0	31·8	40·2	56·4	43·3	35·6	13·1	48·6	41·0	·260	3·0	0·9	75	544	—	42·2	1·6	8	8	5	10	—	5·7	36	3·70
Miltown, Banbridge (Ireland)	29·670	75·0	30·0	45·0	60·1	42·5	39·0	17·6	50·9	41·7	·265	3·0	1·2	71	537	108·4	36·6	1·9	8	5	11	7	—	4·5		3·70
Mean for the Quarter, 50° to 55° — Year 1871	29·644	77·9	28·5	49·4	61·1	43·6	39·1	17·5	50·8	44·4	·294	3·3	0·9	79	540	—	38·0	0·7	8	8	5	9	—	6·0	41	3·70
Mean for the Quarter, 50° to 55° — " 1872	29·591	82·5	29·6	52·7	61·1	43·8	39·8	17·3	51·1	44·8	·298	3·5	0·9	80	539	104·4	38·4	1·2	6	4	7	13	4·2	6·1	38	3·70
Mean for the Quarter, 50° to 55° — " 1873	29·693	76·8	28·8	48·0	61·0	43·7	37·7	17·3	51·2	44·3	·297	3·4	0·9	78	541	100·7	37·6	1·2	9	6	6	10	3·8	6·0	48	3·70
Mean for the Quarter, 50° to 55° — " 1874	29·683	78·3	30·8	47·5	62·3	45·6	40·9	18·7	51·4	44·5	·296	3·3	1·0	77	539	103·3	38·6	1·1	8	8	6	9	3·6	5·7	34	3·70

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING SEPTEMBER 30, 1874.

REMARKS ON THE WEATHER DURING THE QUARTER ENDING SEPTEMBER 30TH, 1874.

By JAMES GLAISHER, ESQ., F.R.S., *&c.*

The cold weather which prevailed during the last three weeks of June, was succeeded at the beginning of July by weather which was generally warm, but frequently cold; the average daily excess over the average daily temperature till the 2nd August was $2\frac{1}{2}°$. A period of moderately cold weather followed, and the daily temperatures were, with the exceptions of a few warm days, below their averages till the 19th day of September, the average daily deficiency for the 48 days ending 19th September was 1°; from the 20th of September the weather was warm till the end of the quarter, the average daily excess being as large as 5°. The mean temperature of July was 6°·4 higher than in June; that of August was 4°·1 lower than in July; and that of September was 2°·4 below that of August. (From the preceding 33 years' observations the mean temperature of July is higher than that of June by 3°·2; that of August is 0°·8 lower than July; and September 4°·2 lower than in August.)

The mean temperature of July above that of June over the whole country was 6°0; that of August below that of July was 3°·8; and that of September below August was 2°·2. the mean temperature of July over that of June was largest in the Midland Counties, and was smallest both at extreme Northern and Southern stations. The decrease from July to August and from August to September were nearly the same at all places.

The readings of the barometer at 159 feet above the level of the sea were variable, but generally above their averages from the 1st to the 19th of July; the highest reading in the month being 30·1 ins. on the 6th. From the 20th to the 29th the readings were below their averages, the minimum reading for the month (29·5 ins.) occurring on the 28th. On the 30th and 31st the values were again in excess, but only to a small amount.

In August the barometer readings were generally below their averages from the 1st to the 14th, above from the 15th to the 26th, and again below from the 27th to the end of the month. The highest reading in the month was 30·3 ins. on the 21st, and the lowest 29·3 ins. on the 14th.

From the 1st to the 12th of September the barometer readings were all below their averages, the lowest reading in the month being 29·3 ins. on the 9th. From the 13th to the 30th the readings were alternately above and below their averages for short periods. The highest reading in the month was 30·2 ins. on the 14th.

At Greenwich the mean decrease of atmospheric pressure from June to July was 0·113 in., that from July to August 0·043 in., and that from August to September 0·031 in.

The mean decrease from all stations from June to July was 0·125 in.; from July to August was 0·060 in.; and from August to September was 0·046 in. The decrease from month to month was nearly the same at all stations.

The mean temperature of the air for July was 64°·4, being respectively 2°·8 and 2°·2 higher than the averages of 103 years, and the preceding 33 years; it was 1°·0 higher than that of 1873 and 0°·6 lower than that of 1872.

The mean temperature of August was 60°·5, being 0°·5 lower than the average of 103 years, and 1°·1 lower than that of the preceding 33 years, it was respectively 2°·4 and 0°·7 lower than the corresponding values in 1873 and 1872.

The mean temperature of September was 57°·9, being respectively 1°·4 and 0°·7 higher than the averages of 103 years, and the preceding 33 years; and 3°·2 and 0°·5 respectively higher than those recorded in the month of September in the years 1873 and 1872.

The mean high day temperatures of the air were 4°·7 and 0°·7 higher than their respective averages in July and September, and 0°·9 lower in August.

The mean low night temperatures were respectively 0°·4 and 1°·2 higher than their averages in July and September, and 1°·6 lower in August.

The mean daily ranges of temperature were greater than their respective averages in July and August by 4°·3 and 0°·8, but that for September was lower by 0°·4.

Therefore the days and nights of July and September were warm, particularly the nights in September are thus distinguished; the lowest reading of a thermometer at night in this month was 43°·4; usually the temperature at night in September declines several times below 40°, and at times to 32°; in the year 1868 the lowest reading was nearly the same, and there is no other instance back for many years.

The fall of rain in July was 2·6 ins., being 0·1 in. above the average; in August it was 1·4 ins., being 1·0 in. below the average, and in September it was 2·2 ins., being 0·2 in. below the average.

The fall of rain, therefore, continues remarkably deficient:

			Ins.		Ins.	
In the 7 months ending July	-	it was	9·17,	being	4·18	less than the average.
8 "	" -	"	9·47	"	5·85	"
8 "	August -	"	10·61	"	5·13	"
9 "	"	"	10·91	"	6·80	"
9 "	September	"	12·83	"	5·37	"
10 "	"	"	13·13	"	7·04	"

Back to the year 1815:—There are only three instances of a fall of rain in the 7 months ending July being less than 9·2 ins., viz., in 1847, when it was 8·2 ins.; in 1864, when it was 8·2 ins.; and in 1870, when it was 7·3 ins.

There are two instances of less fall than 9·5 ins. in the 8 months ending July, viz., in 1847, when it was 9·3 ins.; and in 1864, when it was also 9·3 ins.

There are four instances of less falls than 10·6 ins. in the 8 months ending August, viz., in 1840, 10·4 ins.; in 1847, 10·2 ins.; in 1864, 9·6 ins.; and in 1870, 9·3 ins.

There is only one instance of a smaller fall than 10·9 ins. in the 9 months ending August, viz., in 1864, when the fall was 10·7 ins.

There are three instances of smaller falls than 12·8 ins. in the 9 months ending September, viz., in 1847, 11·8 ins.; in 1864, 12·4 ins.; and in 1870, 10·9 ins.

There is only one instance of a smaller fall than 13·1 ins. in the 10 months ending September, viz., in 1847, when it was 12·9 ins.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter, were as follows:—

Direction of Wind.	July.			August.			September.		
	Average.	1874.	Departure from Average.	Average.	1874.	Departure from Average.	Average.	1874.	Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	2½	1	−1½	2	1	−1	1½	1	−½
N.	3½	1	−2½	3	1	−2	3½	1	−2½
N.E.	3¾	2	−1¾	3	2	−1	5¾	1	−4¾
E.	1	3	+2	1	2	+1	2	1	−1
S.E.	½	3	+2½	1¼	2	+¾	1½	2	+½
S.	2¾	2	−¾	3	1	−2	2	5	+3
S.W.	10½	9	−1½	10½	13	+2½	7¼	13	+5¾
W.	4	9	+5	3¾	9	+5¼	2½	6	+3½
Calm, nearly.	2½	1	−1½	3½	0	−3½	4½	0	−4½

The + signs denote excesses over averages; in the months of July and August the largest numbers affected with this sign is the W. wind, and in September the S.W. wind.

The − signs denote defects below averages; in July the largest number with this sign is the N. wind; in August is both the N. and S. winds; and in September the N.E. wind.

Thus the prevailing winds throughout the quarter have been W. and S.W.

1874. Months.	Temperature of Air.			Temperature of Evaporation.		Temperature of Dew Point.		Air—Daily Range.		Water of the Thames.	Elastic Force of Vapour.		Weight of Vapour in a Cubic Foot of Air.	
	Mean.	Diff. from average of 103 years.	Diff. from average of 33 years.	Mean.	Diff. from average of 33 years.	Mean.	Diff. from average of 33 years.	Mean.	Diff. from average of 33 years.		Mean.	Diff. from average of 33 years.	Mean.	Diff. from average of 33 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.
July -	64·4	+2·8	+2·2	59·0	+1·3	54·6	+0·7	25·4	+4·3	67·0	0·427	+0·010	4·7	+0·1
August	60·3	−0·5	−1·1	56·6	−0·7	53·3	−0·5	20·6	+0·8	64·0	0·407	−0·009	4·5	−0·1
Sept. -	57·9	+1·4	+0·7	55·4	+1·4	53·1	+2·1	18·1	−0·4	60·5	0·404	+0·025	4·5	+0·3
Means -	60·9	+1·2	+0·6	57·0	+0·7	53·7	+0·8	21·4	+1·6	63·8	0·413	+0·009	4·6	+0·1

1874. Months.	Degree of Humidity.		Reading of Barometer.		Weight of a Cubic Foot of Air.		Rain.		Daily Horizontal movement of the Air.	Reading of Thermometer on Grass.				
										Number of Nights it was			Lowest Reading at Night.	Highest Reading at Night.
	Mean.	Diff. from average of 33 years.	Mean.	Diff. from average of 33 years.	Mean.	Diff. from average of 33 years.	Amount.	Diff. from average of 59 years.		At or below 30°.	Between 30° and 40°.	Above 40°.		
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
July -	70	−5	29·826	+0·025	526	−2	2·6	+0·1	220	0	4	27	37·0	58·0
August	78	+2	29·783	−0·010	530	+1	1·4	−1·0	301	0	5	26	33·9	54·6
Sept. -	84	+4	29·752	−0·055	531	−2	2·2	−0·2	259	0	8	22	34·7	54·0
Means -	77	0	29·787	−0·013	529	−1	Sum 6·2	Sum −1·1	Mean 260	Sum 0	Sum 17	Sum 75	Lowest 33·9	Highest 58·0

NOTE.—In reading this table it will be borne in mind that the minus sign (−) signifies below the average, and that the plus sign (+) signifies above the average.

Thunderstorms occurred, on the 9th of July at Guernsey, Osborne, Portsmouth, Brighton, Strathfield Turgiss, and Hastings; on the 10th at Strathfield Turgiss, Streatley, Royston, and Cardington; on the 11th at Weybridge Heath and Streatley; on the 19th at Carlisle; on the 20th at Norwich, Calcethorpe, Hull, Cockermouth, Allenheads, Silloth, and Bywell; on the 21st at Oxford, Leicester, Cardington, Norwich, Wisbech, Halifax, Calcethorpe, Bradford, Leeds, Cockermouth, Carlisle, and Bywell; on the 22nd at Eccles, Stonyhurst, Silloth, and Carlisle; on the 23rd at Leicester, Royston, Cardington, Norwich, Wisbech, Calcethorpe, Bradford, Allenheads, Bywell, and North Shields; on the 24th at Brighton, Taunton, Salisbury, Streatley, Gloucester, Royston, Cardington, Somerleyton, Norwich, Llandudno, and Hull; on the 25th at Norwich; on the 28th at Norwich, Hawarden, Halifax, Hull, Bradford, and Leeds; on the 29th at Osborne, Portsmouth, Hastings, Streatley, Cardington, Somerleyton, Wisbech, Calcethorpe, and North Shields. On the 3rd of August at Hull; on the 7th at Miltown; on the 8th at Wisbech and Eccles; on the 9th at Portsmouth and

Eccles; on the 10th at Salisbury, Cardington, Somerleyton, Calcethorpe, Eccles, North Shields, and Miltown; on the 13th at Eccles, Stonyhurst, Cockermouth, Allenheads, Silloth, Carlisle, and North Shields; on the 25th at Royston and Cardington; on the 28th at Stonyhurst; and on the 29th at Heston, Truro, Salisbury, Royston, Cardington, Somerleyton, Wisbech, Hull, Cockermouth, and Carlisle. On the 2nd of September at Llandudno, Eccles, Halifax, Hull, Stonyhurst, Leeds, and North Shields; on the 3rd at Truro, Osborne, and Carlisle; on the 9th at Truro, Osborne, Bournemouth, Weybridge Heath, Cardington, Wisbech, Eccles, Stonyhurst, and Silloth; on the 10th at Hull and Stonyhurst; on the 21st at Allenheads and Carlisle; on the 23rd and 27th at Calcethorpe; on the 29th at Silloth; and on the 30th at Guernsey, Portsmouth, Barnstaple, and Calcethorpe.

Thunder was heard, but lightning was not seen, on the 2nd of July at Stonyhurst; on the 10th at Aldershot Camp and Calcethorpe; on the 11th at Hastings and Hull; on the 16th at Cockermouth; on the 20th at Gloucester, Stonyhurst, and Allenheads; on the 21st at Hawarden, Hull, Stonyhurst, Allenheads, and Silloth; on the 22nd at Allenheads; on the 23rd at Gloucester, Hawarden, Eccles, Halifax, and Hull; on the 24th at Osborne, Weybridge Heath, Leicester, Wisbech, Calcethorpe, Stonyhurst, Allenheads, and Silloth; on the 25th at Calcethorpe; on the 27th at Helston and Royston; on the 28th at Guernsey, Somerleyton, Calcethorpe, Eccles, Stonyhurst, Cockermouth, Silloth, and Carlisle; and on the 29th at Oxford and Allenheads. On the 5th and 7th of August at Hull; on the 10th at Streatley, Rayston, and Halifax; on the 13th at Halifax; and on the 29th at Strathfield Turgiss, Royston, Eccles, and Silloth. On the 1st of September at Strathfield Turgiss; on the 2nd at Gloucester, Cockermouth, and Allenheads; on the 4th at Osborne; on the 9th at Leicester, Royston, Somerleyton, Carlisle, and Bywell; on the 10th at Portsmouth, Weybridge Heath, Oxford, and Eccles; on the 21st at Hastings and Eccles; on the 23rd at Somerleyton and Stonyhurst; on the 24th at Calcethorpe; on the 29th at Carlisle; on the 30th at Weybridge Heath.

Lightning was seen, but thunder was not heard, on the 9th of July at Taunton, Weybridge Heath, Oxford, and Cardington; on the 10th at Brighton, Hastings, Weybridge Heath, Oxford, Leicester, and Royston; on the 14th at Silloth; on the 19th at Hastings; on the 22nd at Hawarden and Halifax; and on the 27th at Leicester, Cockermouth, and Carlisle. On the 3rd of August at Allenheads; on the 8th at Oxford and Allenheads; on the 10th at Guernsey, Portsmouth, Oxford, Halifax, Hull, and Leeds; on the 14th at Hull; on the 28th at Carlisle; and on the 29th at Silloth. On the 2nd of September at Cardington, Llandudno, Allenheads, and Silloth; on the 4th at Calcethorpe; on the 5th at North Shields; on the 9th at Portsmouth, Hastings, Salisbury, Halifax, and Allenheads; on the 21st at Somerleyton; on the 22nd and 23rd at Guernsey; on the 27th at Guernsey, Osborne, Portsmouth, Streatley, Oxford, and Cardington; and on the 28th at Hastings.

Solar halos were seen, on the 2nd of July at Halifax; on the 8th at Oxford and Halifax; on the 20th at Streatley, Oxford, and Halifax; and on the 27th at Calcethorpe. On the 7th of August at Wisbech; on the 10th at Calcethorpe; and on the 27th and 30th at Halifax. On the 4th of September at Portsmouth on the 9th at Hastings; on the 10th at Calcethorpe; on the 20th at Oxford; on the 22nd at Hastings.

Lunar halos were seen, on the 29th of August at Portsmouth. On the 22nd of September at Hastings; on the 23rd at Leicester, Wisbech, and Eccles; and on the 26th at Bournemouth and Calcethorpe.

Auroræ boreales were seen, on the 2nd of July at Halifax; and on the 22nd at Streatley. On the 31st of August at Silloth.

Hail fell on 3rd of July at Stonyhurst; on the 21st at Leicester; on the 24th at Weybridge Heath, Norwich, and Wisbech; and on the 28th at Hawarden and Halifax. On the 29th of August at Truro, Oxford, Cockermouth, and Carlisle. On the 2nd and 4th of September at Oxford; on the 8th at Eccles; on the 9th at Truro, Osborne, Royston, Cockermouth, and Silloth; on the 10th at Guernsey, Aldershot Camp, Hull, and Cockermouth; on the 24th at Calcethorpe; on the 29th Cockermouth and Silloth; and on the 30th at Silloth.

Fog prevailed on the 11th of July at Calcethorpe; on the 12th at Allenheads; on the 13th at Hastings, Calcethorpe, and Allenheads; and on the 19th at Weybridge Heath and Wisbech. On the 1st of August at Guernsey; on the 13th and 18th at Allenheads; on the 19th at Guernsey and Oxford; on the 20th at Calcethorpe and Allenheads; on the 21st and 22nd at Oxford; on the 23rd and 25th at Allenheads; and on the 26th at Oxford. On the 2nd of September at Oxford; on the 6th at Allenheads and North Shields; on the 7th at North Shields; on the 8th, 9th, and 11th at Allenheads; on the 13th at Oxford; on the 14th at Portsmouth and Taunton; on the 16th at Portsmouth and Halifax; on the 19th at Portsmouth and Taunton; on the 21st at Allenheads; on the 23rd at Weybridge Heath, Strathfield Turgiss, Oxford, Calcethorpe, and Hull; on the 24th at Weybridge Heath, Strathfield Turgiss, and Gloucester; on the 25th at Portsmouth and Carlisle; on the 26th at Helston, Portsmouth, Calcethorpe, and Carlisle; and on the 27th at Portsmouth, Weybridge Heath, Strathfield Turgiss, Cardington, Carlisle, and North Shields.

Wheat cut, on 16th of July at Brighton; on the 17th at Guernsey; on the 18th at Osborne and Streatley; on the 22nd at Weybridge Heath; on the 23rd at Cardington; on the 27th at Hastings; and on the 29th at Helston. On the 1st of August at Llandudno; on the 3rd at Silloth; on the 10th at North Shields; on the 11th at Calcethorpe; and on the 12th at Bywell.

Barley cut, on the 24th of July at Weybridge Heath; and on the 31st at North Shields. On the 3rd of August at Helston; on the 6th at Bywell; on the 7th at Llandudno; and on the 18th at Calcethorpe.

Oats cut, on the 14th of July at Brighton; and on the 21st at Weybridge Heath. On the 3rd of August at Llandudno; on the 4th at Helston; on the 6th at Bywell; and on the 10th at Calcethorpe.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING SEPTEMBER 30TH, 1874.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the fifth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.M.S.	204	July	29·817	0·762	72·0	51·5	20·5	67·6	56·7	10·9	60·3	56·2	·453	5·1	0·8	87	530	–	–	0·9	8	3	8	12	3·9	3·5	10	1·85
		Aug.	29·810	0·814	69·5	51·5	18·0	65·0	56·1	8·9	58·6	54·2	·421	4·7	0·8	85	532	–	–	1·4	7	5	8	11	5·0	4·7	14	1·67
		Sept.	29·743	0·829	72·0	48·0	24·0	64·6	54·7	9·9	58·4	54·7	·429	4·7	0·8	87	531	–	–	1·3	4	5	11	10	4·2	4·2	15	2·69
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	July	29·930	0·715	82·0	42·0	40·0	72·8	54·0	18·8	62·4	55·7	·444	5·0	1·7	75	525	106·1	50·9	1·8	5	4	9	13	4·0	3·5	13	1·78
		Aug.	29·912	1·014	77·0	46·0	31·0	69·4	54·0	15·4	60·1	52·1	·389	4·5	1·4	76	534	97·1	49·9	2·0	6	5	8	12	4·7	4·2	17	3·12
		Sept.	29·838	0·820	76·0	44·0	32·0	66·7	53·1	13·6	58·6	52·5	·396	4·6	1·3	78	532	87·9	51·1	2·0	3	6	12	9	4·9	4·2	20	6·31
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	July	30·004	0·703	78·0	41·0	37·0	70·0	54·5	15·5	60·6	52·0	·388	4·3	1·6	73	533	–	–	2·4	8	5	6	12	–	6·2	18	1·60
		Aug.	29·970	0·948	79·0	45·0	34·0	68·0	54·0	14·0	59·5	52·9	·401	4·5	1·2	79	534	–	–	2·9	5	5	5	16	–	6·1	16	3·71
		Sept.	29·882	0·794	74·0	39·0	35·0	65·0	52·6	12·4	57·8	52·5	·395	4·4	1·4	82	534	–	–	2·5	5	3	9	13	–	6·4	24	5·90
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	July	29·828	0·638	88·2	48·2	40·0	76·8	55·0	21·8	64·6	56·2	·453	5·2	1·7	74	526	123·4	51·2	0·6	3	5	10	13	–	4·0	8	0·75
		Aug.	29·802	0·928	84·2	47·5	36·7	70·7	53·5	17·2	60·5	55·8	·446	5·0	0·9	85	529	109·0	50·0	0·2	3	5	11	12	–	5·5	18	2·46
		Sept.	29·750	0·846	75·5	44·8	30·7	67·1	52·3	14·8	58·4	55·7	·445	4·9	0·6	90	531	97·5	48·3	0·1	2	2	13	13	–	6·2	16	2·96
BOURNEMOUTH (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	128	April	29·892	1·100	70·0	33·0	37·0	57·5	42·7	14·8	49·3	42·1	·268	2·9	1·0	76	544	–	–	–	9	6	7	8	–	2·1	10	2·40
		May	30·002	0·840	68·0	33·9	34·1	59·0	42·7	16·3	50·0	41·0	·257	2·9	1·2	72	545	–	–	–	16	6	2	7	–	3·0	13	1·02
		June	30·142	0·900	74·4	38·8	35·6	65·7	50·4	15·3	56·8	47·6	·330	3·7	1·4	71	540	–	–	–	8	9	6	7	–	2·9	11	1·42
		July	30·010	0·600	75·7	47·1	28·6	71·4	54·1	17·3	61·5	53·9	·415	4·7	1·2	76	532	–	–	–	2	3	11	15	–	2·6	10	1·20
		Aug.	29·968	0·970	73·1	47·5	25·6	67·1	52·6	14·5	58·9	51·5	·382	4·2	1·4	76	534	–	–	–	3	2	10	16	–	3·2	14	2·29
		Sept.	29·907	0·850	67·8	43·8	24·0	63·7	52·0	11·7	57·1	50·3	·363	4·0	1·2	78	537	–	–	–	2	0	10	18	–	2·7	18	2·01
PORTSMOUTH, William C. Ellis, Esq.	16	July	30·026	0·592	–	–	–	–	–	–	–	–	–	–	–	–	–	126·3	51·7	1·3	1	5	16	9	1·5	3·8	7	0·89
		Aug.	29·980	0·950	–	–	–	–	–	–	–	–	–	–	–	–	–	116·3	49·6	1·5	2	4	12	13	1·7	5·4	12	1·35
		Sept.	29·921	0·982	–	–	–	–	–	–	–	–	–	–	–	–	–	106·9	48·3	0·8	3	3	12	12	2·6	6·8	16	2·54
BRIGHTON (Sussex), Frederick E. Sawyer, Esq., F.M.S.	200	July	29·801	0·728	80·0	50·4	29·6	72·4	56·1	16·3	63·4	53·0	·404	4·5	2·0	69	527	121·8	54·0	0·7	3	7	10	11	–	5·0	8	1·88
		Aug.	29·782	0·961	74·5	49·8	24·7	67·8	53·9	13·9	60·0	49·8	·359	4·0	1·8	69	530	113·6	51·3	1·3	2	5	10	14	–	5·4	17	1·71
		Sept.	29·744	0·852	72·4	44·6	27·8	65·3	53·1	12·2	58·6	52·6	·396	4·4	1·1	80	531	102·8	50·0	0·8	3	3	10	14	–	7·0	16	3·33
MANOR HOUSE (Hastings), Alex. E. Murray, Esq., F.M.S.	169	July	29·849	0·618	84·8	50·0	34·8	72·5	56·6	15·9	62·8	55·8	·446	4·9	1·4	78	528	–	–	1·6	4	7	11	9	–	4·3	9	0·49
		Aug.	29·804	0·933	75·5	47·5	28·0	67·4	54·4	13·0	60·0	53·6	·411	4·6	1·2	80	530	–	–	1·7	4	4	8	15	–	5·7	16	1·21
		Sept.	29·779	0·914	72·1	44·1	28·0	64·1	54·2	9·9	58·4	53·2	·408	4·5	1·0	83	532	–	–	1·5	4	4	12	10	–	6·1	20	3·06
TAUNTON (Somerset), James Bottomley, Esq.	80	July	29·930	0·708	93·8	42·5	51·3	77·0	52·3	24·7	63·6	51·9	·386	4·3	2·0	68	529	83·4	40·3	0·3	4	5	7	15	–	6·0	8	0·86
		Sept.	29·823	0·824	78·5	40·0	38·5	67·9	48·1	19·8	57·1	52·7	·400	4·4	0·9	85	534	79·7	39·1	0·3	–	–	–	–	–	7·0	9	2·10
WILTON HOUSE (near Salisbury), T. Challis, Esq.	186	July	29·816	0·636	91·0	41·0	50·0	79·3	48·8	30·5	62·6	54·8	·430	4·8	1·6	76	528	123·8	46·4	1·3	5	2	11	13	4·2	4·4	8	0·96
		Aug.	29·770	1·070	85·0	40·0	45·0	72·5	48·1	24·4	59·4	53·0	·402	4·5	1·2	80	530	115·2	45·3	1·9	3	2	5	21	4·5	6·0	16	2·52
		Sept.	29·704	0·882	77·0	36·0	41·0	68·2	45·9	22·3	56·2	51·0	·375	4·2	1·0	83	532	105·4	42·9	1·5	2	2	10	16	4·3	7·1	17	4·34
BARNSTAPLE (Devon), T. Mackrell, Esq.	43	July	29·976	0·720	86·0	48·5	37·5	74·1	57·2	16·9	64·3	55·9	·443	4·9	1·9	75	529	–	–	1·1	1	5	13	12	–	3·3	14	2·77
		Aug.	29·894	1·060	83·0	48·5	34·5	69·7	56·0	13·7	61·3	55·8	·444	4·9	1·0	82	530	–	–	1·6	0	6	10	15	–	4·0	21	5·65
		Sept.	29·854	0·840	79·0	48·0	31·0	66·8	53·5	13·3	58·9	53·0	·405	4·5	1·0	81	532	–	–	1·4	1	2	16	11	–	4·5	21	5·93

Names of Stations and Observers.	Height of Station above Sea Level.	Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
ALDERSHOT CAMP (Hants), John Arnold, Esq., M.S.C., F.M.S.	325	July	29·635	0·590	91·4	45·0	46·4	80·2	53·3	26·9	64·8	55·4	·439	4·8	1·8	72	522	123·0	49·3	1·7	5	5	10	11	1·5	5·9	7	1·38
		Aug.	29·617	1·018	82·4	42·6	39·8	72·1	50·5	21·6	59·3	49·3	·351	3·9	1·7	70	528	116·2	46·9	1·8	1	5	8	17	1·9	6·5	14	2·41
		Sept.	29·572	0·768	76·6	44·4	32·2	66·8	50·6	16·2	57·0	52·7	·399	4·4	0·9	86	529	100·6	45·7	1·6	2	3	10	15	2·0	6·8	16	2·98
ST. AUGUSTINE'S MONASTERY, (Ramsgate), Rev. E. J. Stutter, O.S.B.	108	July	29·921	0·621	89·5	51·0	38·5	76·8	57·5	19·3	65·5	55·2	·436	4·8	2·1	69	527	121·4	54·4	1·6	6	9	6	10	–	4·5	–	–
		Aug.	29·866	1·003	77·2	47·3	29·9	70·0	54·9	15·1	61·4	53·2	·405	4·5	1·5	75	530	116·6	50·6	2·1	2	7	1	20	–	5·0	–	–
		Sept.	29·851	0·786	79·0	43·2	35·8	67·3	53·1	14·2	59·6	51·9	·387	4·4	1·4	76	532	108·6	52·2	2·0	3	2	7	18	–	4·2	–	–
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	July	29·799	0·659	88·3	42·7	45·6	76·9	55·2	21·7	64·5	52·6	·397	4·4	2·3	65	526	131·8	47·6	0·6	5	5	7	14	5·5	4·9	6	1·08
		Aug.	—	—	82·2	40·0	42·2	73·4	49·8	23·6	60·3	50·9	·373	4·2	1·6	71	532	126·5	45·2	0·5	–	–	–	–	4·5	5·0	–	1·38
		Sept.	29·722	0·868	77·1	41·6	35·5	65·9	49·6	16·3	57·1	51·5	·381	4·3	1·0	82	532	114·3	44·5	0·5	2	5	11	12	4·1	5·4	15	3·33
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	July	29·894	0·562	90·5	44·8	45·7	80·0	52·7	27·3	64·0	56·7	·461	5·1	1·5	77	527	119·8	49·1	0·5	–	–	–	–	7·0	3·8	8	0·59
		Sept.	29·790	0·895	80·0	42·0	38·0	68·7	48·9	19·8	57·5	51·8	·386	4·3	1·0	82	533	103·8	46·5	0·5	3	1	16	10	0·8	6·4	14	3·01
MARLBOROUGH COLLEGE (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	456	July	29·530	0·684	86·6	40·4	46·2	73·5	50·4	23·1	61·7	50·4	·365	4·1	2·0	68	524	149·1	48·2	–	8	3	6	14	–	5·5	11	1·47
		Aug.	29·493	1·008	78·6	38·9	39·7	67·0	50·1	16·9	57·5	49·5	·356	4·0	1·4	75	528	128·0	45·6	–	6	3	7	15	–	6·3	15	2·55
		Sept.	29·447	0·852	74·2	39·2	35·0	63·7	49·0	14·7	55·4	50·5	·368	4·0	0·9	84	529	100·1	44·0	–	2	1	13	14	–	7·3	16	4·40
ROYAL OBSERVATORY (Kent), The Astronomer Royal.	159	July	29·826	0·668	92·0	46·2	45·8	79·0	53·6	25·4	64·4	54·6	·427	4·7	2·0	70	526	140·3	46·4	0·2	3	6	7	15	–	5·7	10	2·59
		Aug.	29·783	1·023	81·2	44·0	37·2	72·1	51·5	20·6	60·1	53·3	·407	4·5	1·3	78	530	125·1	44·4	0·5	3	4	8	16	–	6·8	12	1·44
		Sept.	29·752	0·911	78·1	43·4	34·7	68·4	50·3	18·1	57·9	53·1	·404	4·5	0·8	84	531	113·2	42·7	0·4	1	3	12	14	–	6·8	16	2·22
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.A.S., F.M.S.	150	July	29·845	0·667	91·5	40·8	50·7	79·6	50·1	29·5	63·5	53·4	·408	4·6	1·9	70	527	89·9	–	1·5	3	6	8	14	–	3·6	11	1·46
		Aug.	29·815	1·031	84·4	42·8	41·6	72·8	50·1	22·7	60·1	52·6	·397	4·5	1·3	76	530	82·4	–	1·6	7	2	7	15	–	5·4	16	1·52
		Sept.	29·768	0·851	79·5	43·4	36·4	67·5	49·1	18·4	57·7	51·6	·385	4·3	0·9	80	532	77·2	–	1·7	3	3	11	13	–	5·4	13	3·25
CAMDEN TOWN (London), G. J. Symons, Esq., F.M.S.	123	July	29·875	0·642	90·8	47·3	43·5	78·4	54·6	23·8	64·6	55·5	·440	4·9	1·6	73	527	125·4	52·4	–	4	4	8	14	–	4·3	11	0·82
		Aug.	29·838	1·039	84·0	45·5	38·5	72·2	52·1	20·1	60·8	53·2	·405	4·5	1·3	76	530	114·0	50·2	–	6	1	7	17	–	5·9	16	1·32
		Sept.	29·800	0·905	78·2	43·3	34·9	68·1	50·7	17·4	58·4	51·5	·380	4·2	1·1	78	532	100·4	48·3	–	3	0	16	11	–	6·2	15	2·62
CHISWICK (London), Prof. Thiselton Dyer.	25	July	29·995	0·666	91·5	40·0	51·5	78·7	50·7	28·0	63·4	51·6	·383	4·3	2·2	68	530	136·5	45·2	–	4	5	12	10	–	–	12	1·81
		Aug.	29·928	1·030	81·2	41·5	39·7	71·8	49·3	22·5	59·5	50·4	·367	4·1	1·4	72	533	129·1	43·2	–	4	5	9	13	–	–	16	1·37
		Sept.	29·897	0·828	88·2	39·2	49·0	69·0	48·8	20·2	58·0	51·8	·385	4·2	1·1	80	534	118·6	42·9	–	2	3	18	7	–	–	10	1·77
TOWN MUSEUM (Leicester), W. J. Harrison, Esq.	245	July	29·721	0·673	84·3	46·0	38·3	73·6	53·6	20·0	62·6	52·2	·392	4·3	2·0	69	526	131·5	45·9	0·7	4	8	7	12	–	5·2	11	1·22
		Aug.	29·651	1·191	81·7	43·6	38·1	67·9	51·4	16·5	58·7	50·2	·365	4·2	1·2	73	529	121·8	44·2	1·0	2	6	8	15	–	6·2	20	2·07
		Sept.	29·617	0·911	74·0	42·0	32·0	64·2	50·2	14·0	56·5	49·0	·350	3·9	1·1	76	531	112·7	44·0	1·0	3	2	13	12	–	6·6	18	2·53
OXFORD (Oxfordshire), Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	July	29·768	0·687	88·1	43·5	44·6	77·4	53·2	24·2	65·4	52·0	·387	4·3	2·6	61	524	129·8	50·1	0·8	4	5	8	14	3·2	6·0	11	0·49
		Aug.	29·715	1·095	79·4	44·9	34·5	70·1	52·2	17·9	60·6	52·4	·394	4·4	1·5	74	528	121·6	48·3	1·1	2	6	7	16	4·4	6·2	16	1·82
		Sept.	29·676	0·899	73·1	43·8	29·3	65·5	50·6	14·9	57·7	51·8	·386	4·3	1·0	81	530	111·6	46·9	0·9	1	5	13	11	2·4	7·6	17	3·34
GLOUCESTER (Gloucester), E. Toller, Esq., M.D.	100	July	29·963	0·634	90·3	45·4	44·9	78·7	54·8	23·9	65·3	52·3	·391	4·3	2·6	62	527	126·7	49·7	0·4	7	5	6	13	1·2	4·6	9	0·84
		Aug.	29·885	1·072	83·7	42·5	41·2	72·3	53·1	19·2	61·1	53·1	·404	4·4	1·6	75	531	117·5	48·7	0·8	8	2	5	16	0·8	6·0	15	2·00
		Sept.	29·837	0·884	75·9	39·4	36·5	67·2	51·2	16·0	58·2	53·0	·404	4·5	1·0	83	533	106·4	46·8	0·7	5	1	10	14	1·5	6·1	19	4·17
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	July	29·738	0·669	92·2	43·8	48·4	80·0	51·2	28·8	64·2	53·7	·414	4·6	2·0	68	525	–	–	–	5	6	10	10	–	5·2	7	0·53
		Aug.	29·683	1·091	86·6	39·9	46·1	72·7	49·4	23·3	59·8	52·5	·395	4·4	1·3	77	528	–	–	–	5	2	8	16	–	6·4	14	1·17
		Sept.	29·656	0·866	77·6	42·1	35·5	68·5	49·1	19·4	57·4	51·5	·381	4·3	1·0	81	530	–	–	–	2	1	14	13	–	5·8	14	2·80
CARDINGTON (near Bedford), Mr. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	100	July	29·877	0·696	91·6	44·4	47·2	79·5	52·6	26·9	66·4	53·0	·402	4·5	2·6	62	525	122·5	45·7	1·1	3	7	5	16	–	4·7	8	1·16
		Aug.	29·826	1·140	83·0	40·0	43·0	72·3	50·0	22·3	60·8	53·0	·402	4·5	1·2	76	530	106·4	43·9	2·7	4	3	6	18	–	5·6	13	1·37
		Sept.	29·796	0·866	77·0	40·0	37·0	67·2	49·1	18·1	57·5	53·7	·415	4·7	0·7	87	533	93·1	43·2	2·1	2	2	11	15	–	6·3	15	3·20
ST. DAVID'S COLLEGE, LAMPETER (Cardiganshire), Prof. A. W. Scott.	420	Aug.	29·555	1·090	82·5	39·0	43·5	68·0	47·4	20·6	58·0	51·8	·372	4·2	1·2	80	527	97·0	–	0·6	0	2	19	10	–	7·2	19	4·36
		Sept.	29·512	0·790	77·0	31·0	46·0	63·3	42·8	20·5	54·0	48·1	·334	3·8	0·9	80	532	89·0	–	0·5	0	1	18	11	–	6·2	15	6·04

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1874. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	50	July	29·930	0·652	87·4	42·9	44·5	76·0	53·4	22·6	62·8	54·5	·425	4·6	1·6	75	530	–	42·7	1·0	4	7	11	9	3·6	3·8	12	1·10
		Aug.	29·877	1·224	81·0	40·8	40·2	70·5	51·8	18·7	59·5	49·7	·364	4·0	1·7	70	533	–	40·9	1·2	6	4	8	13	4·1	5·1	11	1·76
		Sept.	29·856	0·942	81·1	36·2	44·9	67·7	50·3	17·4	57·8	53·8	·415	4·6	0·7	86	534	–	39·9	1·1	3	1	14	12	5·4	5·2	16	3·48
NORWICH (Norfolk), John Quinton, Esq., Jun.	42	July	29·934	0·668	88·0	47·0	41·0	75·3	54·4	20·9	63·7	56·6	·459	5·1	1·5	78	528	–	–	–	5	8	10	8	–	–	8	1·58
		Aug.	–	–	80·5	40·5	40·0	68·0	50·6	17·4	58·4	54·2	·421	4·7	0·8	86	530	–	–	–	4	1	11	15	–	–	10	1·85
		Sept.	29·850	0·924	76·0	38·0	38·0	65·3	49·7	15·6	57·0	54·7	·428	4·7	0·5	92	534	–	–	–	1	2	17	10	–	–	11	2·36
WISBECH (Cambridgeshire), S. H. Miller, Esq., F.R.A.S., F.M.S.	14	July	29·951	0·700	90·8	44·3	46·5	77·7	52·6	25·1	64·8	54·0	·418	4·6	2·0	69	528	130·6	48·7	0·5	6	5	11	9	2·6	5·2	9	1·31
		Aug.	29·888	1·212	83·4	43·0	40·4	70·4	50·1	20·3	59·2	51·8	·386	4·4	1·3	78	533	120·4	47·0	1·0	4	2	11	14	3·7	6·0	15	2·06
		Sept.	29·867	0·896	74·6	40·8	33·8	66·5	49·8	16·7	57·0	53·2	·405	4·5	0·7	87	534	108·7	45·7	0·8	2	2	14	12	3·4	6·2	14	2·78
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	100	July	29·851	0·710	81·3	46·0	35·3	73·2	55·2	18·0	62·5	54·2	·420	4·6	1·6	75	528	–	–	0·6	4	3	11	13	–	5·8	11	1·97
		Aug.	29·778	1·280	77·9	49·3	28·6	69·1	54·2	14·9	60·6	53·0	·407	4·5	1·3	76	529	–	–	0·8	2	5	5	19	–	6·0	17	2·81
		Sept.	29·722	0·990	74·3	45·0	29·3	65·2	51·6	13·6	57·2	50·3	·366	4·1	1·1	78	532	–	–	0·8	3	2	7	18	–	5·9	17	2·53
DERBY (Derbyshire), John Davis, Esq.	174	July	29·760	0·776	86·0	47·0	39·0	75·1	53·9	21·2	63·2	51·8	·385	4·3	2·2	66	526	–	–	–	5	3	6	17	–	–	14	1·28
		Aug.	29·704	1·168	81·0	45·0	36·0	68·2	52·0	16·2	58·7	52·7	·396	4·4	0·9	80	530	–	–	–	4	5	5	17	–	–	–	2·54
		Sept.	29·670	0·896	71·0	41·0	30·0	62·9	50·1	12·8	56·3	51·7	·382	4·2	1·0	84	532	–	–	–	3	0	11	16	–	–	–	2·64
NOTTINGHAM (Notts), M.O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	183	July	29·756	0·676	86·7	44·3	42·4	76·2	52·2	24·0	62·7	52·3	·393	4·4	2·0	69	527	130·3	44·0	0·4	4	3	10	14	2·6	5·5	12	0·75
		Aug.	29·688	1·210	83·6	39·9	43·7	69·8	49·9	19·9	58·2	52·2	·391	4·4	1·0	80	530	111·6	41·8	0·7	1	3	10	17	4·8	6·6	20	1·96
		Sept.	29·654	0·860	74·2	41·1	33·1	65·5	48·8	16·7	56·4	51·6	·383	4·3	0·8	84	531	101·3	40·3	0·7	2	4	12	12	3·7	6·2	22	2·25
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	39	July	29·913	0·688	90·7	40·5	50·2	80·3	50·4	29·9	64·0	53·0	·403	4·5	2·1	67	528	142·9	45·1	1·3	10	5	8	8	–	5·2	8	0·61
		Aug.	29·839	1·194	80·4	35·0	45·4	71·5	48·5	23·0	58·8	49·7	·357	4·0	1·5	80	532	134·8	43·8	1·7	7	2	9	13	–	6·8	16	1·65
		Sept.	29·818	0·895	74·8	33·8	41·0	69·8	48·2	21·6	58·1	51·2	·379	4·3	1·1	79	533	116·9	41·8	1·6	4	2	15	9	–	6·0	12	2·02
CALCETHORPE MANOR (near) Louth (Lincolnshire), D. Grant Briggs, Esq., F.M.S.	332	June	29·700	0·935	76·7	36·7	40·0	65·0	46·5	18·5	54·1	47·0	·321	3·6	1·2	77	535	124·7	41·4	0·7	9	6	7	8	6·2	6·3	8	1·69
		July	29·561	0·698	85·5	45·0	40·5	72·3	51·4	20·9	60·1	51·7	·384	4·3	1·9	74	526	130·2	45·0	0·5	3	4	13	11	5·8	5·7	15	1·34
		Aug.	29·477	1·268	79·9	40·1	39·8	65·9	48·5	17·4	55·8	49·6	·356	4·0	1·0	80	529	117·9	42·2	0·9	4	2	11	14	5·9	6·8	21	2·65
		Sept.	29·444	0·899	71·5	37·4	34·1	63·2	48·3	14·9	54·6	50·3	·365	4·1	0·5	85	529	112·0	41·7	0·9	3	1	18	8	6·2	6·1	16	2·59
HAWARDEN (Flint), T. Moffat, Esq., M.D., F.R.A.S.	270	July	29·666	0·692	85·5	50·5	35·0	71·2	58·1	13·1	62·4	55·7	·441	4·9	1·3	79	525	146·5	39·5	2·1	7	2	8	14	0·4	5·5	14	2·57
		Sept.	29·532	0·878	72·0	44·5	27·5	62·9	52·8	10·1	56·1	50·2	·365	4·1	0·9	81	530	104·2	33·9	2·2	4	1	12	13	0·6	6·0	15	1·99
ECCLES (near Manchester), T. Mackereth, Esq., F.R.A.S., F.M.S.	145	July	29·803	0·696	87·4	45·3	42·1	73·3	51·2	22·1	61·1	53·3	·407	4·6	1·5	76	529	92·3	44·7	0·3	5	1	7	18	1·6	5·5	17	2·14
		Aug.	29·720	1·270	83·1	41·8	41·3	67·6	50·5	17·1	57·8	52·2	·391	4·4	1·0	82	531	80·5	43·7	0·5	5	3	8	15	2·6	7·1	20	5·77
		Sept.	29·686	0·930	78·3	39·8	38·5	64·5	48·6	15·9	55·5	49·5	·355	4·0	1·0	81	533	76·5	41·4	0·5	2	2	13	13	1·8	6·2	23	3·48
MOOR SIDE OBSERVATORY, HALIFAX (Yorkshire), Louis J. Crossley, Esq., F.R.A.S.	429	July	29·454	0·678	82·5	45·3	37·2	71·4	52·8	18·6	61·0	49·8	·358	4·0	2·0	67	523	109·8	46·6	0·6	6	5	7	13	1·0	6·1	12	3·02
		Aug.	29·362	1·233	76·8	43·0	33·8	65·9	50·9	15·0	56·8	50·7	·370	4·1	1·1	79	526	102·3	45·8	1·0	5	5	5	16	2·8	6·7	16	2·75
		Sept.	29·339	0·872	71·6	37·7	33·9	62·5	49·6	12·9	54·4	49·6	·355	4·0	0·8	84	528	99·4	43·5	0·8	3	3	9	15	2·0	7·1	20	2·52
BERMERSIDE OBSERVATORY, HALIFAX (Yorkshire), Edward Crossley, Esq., F.R.A.S.	520	July	29·398	0·694	81·8	44·5	37·3	71·6	50·6	21·0	60·3	51·8	·385	4·3	1·6	74	523	113·8	–	0·7	1	6	8	16	–	5·0	8	3·43
		Aug.	29·278	0·950	74·0	37·5	33·5	63·1	48·1	15·0	54·1	49·2	·349	4·0	0·7	84	527	103·3	45·4	0·9	1	4	11	14	–	6·5	19	2·32
THE PARK, HULL (Yorkshire), Mr. E. Peak.	12	July	29·947	0·700	84·0	44·0	40·0	73·2	51·5	21·7	61·0	55·4	·439	4·9	1·1	82	531	101·4	50·0	–	–	–	–	–	1·0	–	13	1·85
		Aug.	29·860	1·292	78·0	40·0	38·0	67·0	48·9	18·1	57·3	52·6	·396	4·3	0·9	84	534	94·0	46·2	–	–	–	–	–	1·4	–	18	2·56
		Sept.	29·840	0·840	74·0	40·0	34·0	64·4	49·2	15·2	56·2	51·0	·375	4·2	0·8	83	535	88·7	46·7	–	–	–	–	–	0·5	–	15	2·11
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.A.S., F.M.S.	363	July	29·551	0·714	83·0	41·3	41·7	71·3	51·8	19·5	60·0	54·8	·430	4·8	1·0	83	526	129·8	48·7	–	6	3	8	14	–	6·8	16	3·05
		Aug.	29·464	1·267	80·8	40·2	40·6	65·8	50·2	15·6	56·3	51·8	·386	4·3	0·7	85	528	121·2	46·6	–	4	4	8	15	–	7·2	22	7·21
		Sept.	29·418	1·012	73·0	38·2	34·8	62·0	47·9	15·0	54·3	49·2	·347	4·0	0·9	82	530	114·6	43·7	–	3	2	14	11	–	7·3	23	5·63
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E.	366	July	29·515	0·680	80·9	46·9	34·0	71·1	54·4	16·7	61·1	55·4	·409	4·6	1·4	76	525	98·7	–	0·7	–	–	–	–	–	5·9	12	1·59
		Aug.	29·402	1·274	78·8	46·0	32·8	66·3	52·8	13·5	57·7	52·6	·360	4·4	0·9	82	526	90·8	–	1·5	–	–	–	–	–	5·9	17	2·41
		Sept.	29·325	0·970	73·0	41·0	32·0	62·0	48·7	13·3	54·7	50·7	·345	4·2	0·8	82	528	84·8	–	0·9	–	–	–	–	–	5·2	15	2·10

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1874. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sats. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
LEEDS PHILOSOPHICAL HALL (Yorkshire), Louis C. Miall, Esq.	137	July	29·795	0·686	90·0	48·0	42·0	76·0	54·1	21·9	64·2	52·8	·400	4·5	2·2	66	526	83·3	–	1·2	7	3	6	15	–	6·7	18	2·54
		Aug.	29·703	1·262	84·0	44·0	40·0	68·8	51·4	17·4	59·2	49·7	·358	4·1	1·6	71	530	76·7	–	1·2	6	2	5	18	–	7·1	19	1·79
		Sept.	29·675	0·930	75·0	42·0	33·0	65·4	50·2	15·2	56·8	50·0	·363	4·2	0·8	77	531	74·3	–	1·2	2	1	10	17	–	6·7	17	1·87
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.R.A.S., F.M.S.	146	July	29·752	0·722	81·6	44·2	37·4	69·5	51·4	18·1	59·8	51·4	·380	4·3	1·3	74	530	119·5	47·1	0·4	3	5	11	12	1·4	5·8	16	2·65
		Aug.	29·656	1·295	76·1	44·3	31·8	65·3	52·6	12·7	57·5	51·4	·382	4·4	0·9	79	530	105·9	46·2	0·6	4	5	6	16	1·5	6·1	22	6·70
		Sept.	29·619	1·008	66·4	37·6	28·8	61·3	50·0	11·3	54·8	47·9	·330	3·9	1·0	76	533	99·3	40·9	0·8	2	5	12	11	2·2	6·5	22	5·86
ALLENHEADS (Northumberland), Mr. T. Kidd, Assistant to W. B. Beaumont, Esq., M.P.	1360	July	28·521	0·668	80·5	40·0	40·5	69·0	50·0	19·0	57·4	51·9	·387	4·3	1·0	82	510	124·6	45·5	1·4	–	–	–	–	–	5·5	12	1·88
		Aug.	28·412	1·230	76·0	41·0	35·0	63·2	47·1	16·1	52·8	48·4	·340	3·9	0·6	85	513	114·5	43·7	1·6	–	–	–	–	–	6·3	20	4·80
		Sept.	28·350	0·888	64·0	33·5	30·5	58·1	44·7	13·4	49·9	46·0	·311	3·5	0·5	87	515	98·3	42·4	1·9	–	–	–	–	–	6·6	19	4·31
SILLOTH RECTORY (Cumberland), Rev. Francis Redford, M.A., F.R.A.S., F.M.S.	28	July	29·881	0·711	83·5	46·9	36·6	73·5	53·7	19·8	61·8	54·2	·419	4·7	1·5	77	530	112·1	49·6	1·1	2	4	5	20	6·7	5·5	14	2·96
		Aug.	29·784	1·310	79·3	43·2	36·1	69·3	51·6	17·7	58·4	52·4	·393	4·4	1·0	80	532	104·0	47·7	1·2	4	6	5	16	8·0	6·4	21	5·62
		Sept.	29·739	1·033	70·3	37·0	33·3	65·4	48·4	17·0	55·8	49·0	·349	4·0	1·0	79	534	98·7	44·5	1·4	0	5	10	15	9·3	5·8	20	3·93
CARLISLE (Cumberland), J. Cartmell, Esq., F.M.S.	114	July	29·809	0·692	81·2	41·2	40·0	71·4	51·2	20·2	60·7	50·6	·369	4·1	1·7	71	530	108·1	45·9	2·0	2	4	6	19	5·1	6·1	17	2·40
		Aug.	29·704	1·247	77·0	40·1	36·9	66·5	48·6	17·9	56·7	50·6	·372	4·2	0·9	80	532	99·8	44·3	2·4	4	5	5	17	6·0	6·4	20	6·95
		Sept.	29·656	1·001	67·3	36·9	30·4	62·6	48·0	14·6	54·2	48·3	·338	3·9	0·9	80	534	92·2	42·2	2·0	2	4	11	13	6·3	6·1	21	4·01
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	July	29·788	0·668	84·0	46·0	38·0	72·4	56·2	16·2	62·4	51·3	·378	4·2	1·9	67	528	105·5	50·0	1·3	4	7	4	16	–	3·0	18	1·72
		Aug.	29·680	1·312	82·0	47·0	35·0	69·7	52·3	17·4	58·5	53·1	·402	4·5	1·1	82	530	93·6	45·6	1·6	3	6	6	16	–	5·4	19	2·60
		Sept.	29·642	0·956	75·0	42·0	33·0	64·8	49·6	15·2	55·5	46·7	·320	3·6	1·3	72	532	79·3	42·7	1·4	5	3	5	17	–	4·7	17	2·63
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	July	29·800	0·738	75·2	45·0	30·2	67·4	54·8	12·6	59·6	51·7	·385	4·4	1·4	75	531	–	52·6	1·2	2	6	5	18	–	6·6	11	1·47
		Aug.	29·729	1·230	74·3	43·0	31·3	64·0	50·5	13·5	56·3	46·1	·313	3·5	1·6	68	533	–	49·6	1·7	9	3	4	15	–	6·6	18	1·55
		Sept.	29·692	1·078	67·0	41·0	26·0	60·8	48·8	12·0	53·6	46·9	·320	3·7	1·0	77	535	–	47·0	1·7	6	2	5	17	–	6·4	17	1·76
MILTOWN (Banbridge, Ireland), John Smyth, Esq., jun., M.A., M.I.C.E.I.	200	July	29·572	0·696	77·0	43·0	34·0	68·6	52·3	16·3	59·3	50·5	·372	4·1	1·5	74	528	114·2	47·4	1·7	5	1	19	6	–	5·1	19	2·89
		Aug.	29·499	1·110	77·0	43·0	34·0	65·8	50·1	15·7	56·5	50·2	·367	4·2	1·0	80	529	110·0	46·2	2·1	5	2	17	7	–	6·7	20	4·41
		Sept.	29·415	1·016	63·0	38·0	25·0	59·6	47·2	12·4	53·2	46·6	·320	3·6	1·0	78	531	96·4	42·6	2·6	4	1	18	7	–	5·8	20	2·95

NOTE.—*The Barometer Reading*, Helston, 2nd July, 3h. p.m., 30·808 in., has been altered to 29·808 in.
" Hull, 3rd Aug., 5h. p.m., 29·040 in., " 30·040 in.
" Bradford, 13th " 5h. p.m., 29·990 in., " 29·490 in.
" " 31st " 9h. a.m., 30·316 in., " 29·316 in.
" Somerleyton, 11th Sept., 9h. a.m., 30·268 in., " 29·768 in.
" Leeds, 19th " 4h. p.m., 28·820 in., " 29·820 in.
The Wet Bulb Thermometer, Chiswick, 22nd Aug., 9h. a.m., 36°7, has been altered to 56°7.

NOTE.—Strathfield Turgiss, August. The observations for the month of August have been deduced from 18 days observations, viz., 1st and 2nd, and from 16th to 31st (inclusive).
Taunton, September. " September " 19 " viz., from 12th to 30th (inclusive).

Second Rain-gauges are placed—

			July.	August.	September.	Total during the Quarter.
At Portsmouth,	at the height of 20 feet	*above the ground*, the amount collected was	0·86 inches.	1·22 inches.	2·35 inches.	4·43 inches.
" Strathfield Turgiss,	" 38 feet	" "	0·73 "	0·95 "	2·29 "	3·97 "
" Eccles (Manchester),	" 34 feet	" "	1·82 "	4·76 "	2·77 "	9·35 "
" Carlisle,	" 3 feet	" "	4·54 "	3·18 "	2·35 "	10·07 "
" Miltown (Ireland),	" 40 feet	" "	2·52 "	4·26 "	— "	— "
" Oxford,	" 22 feet	" "	0·49 "	1·72 "	3·36 "	5·57 "
" Marlborough College,	" 8 inches	" "	1·41 "	2·55 "	4·33 "	8·29 "
" " "	" 1 foot	" "	1·37 "	2·52 "	4·28 "	8·17 "
" Cardington,	" 36 feet	" "	0·90 "	1·10 "	2·90 "	4·90 "
" Nottingham,	" 39 feet	" "	0·62 "	1·75 "	2·19 "	4·56 "
" Wisbech,	" 8 feet	" "	1·30 "	2·01 "	2·77 "	6·08 "
" Aldershot Camp,	" 25 feet	" "	1·19 "	1·89 "	2·33 "	5·41 "

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°								
Guernsey	29·576	72·0	48·0	24·0	65·7	55·8	20·8	9·9	59·1	55·0	·434	4·8	0·8	86	531	—	—	1·2	6	4	9	11	4·4	4·1	20
Helston	29·597	82·0	42·0	40·0	69·6	53·7	34·3	15·9	60·4	53·4	·410	4·7	1·3	76	530	97·0	50·6	1·9	5	5	10	11	4·5	4·0	20
Truro	29·603	79·0	39·0	40·0	67·7	53·7	35·3	14·0	59·3	52·5	·395	4·4	1·4	78	534	—	—	2·6	6	4	7	14	—	3·2	20
Osborne	29·528	88·2	44·8	43·4	71·5	53·6	35·8	17·9	61·2	55·9	·418	5·0	1·1	83	529	110·0	49·8	0·3	3	4	11	13	—	3·3	23
Bournemouth	—	75·7	43·8	31·9	67·4	52·9	26·7	14·5	59·2	51·9	·387	4·3	1·6	77	534	—	—	—	2	2	10	16	1·9	2·3	23
Portsmouth	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	116·5	49·9	1·2	2	4	13	11	—	5·4	20
Brighton	29·614	80·0	44·6	35·4	68·5	54·4	27·4	14·1	60·7	51·8	·386	4·3	1·6	73	529	112·7	51·8	0·9	3	5	10	13	—	5·8	20
Hastings	29·572	84·8	44·1	40·7	68·0	55·1	30·3	12·9	60·4	54·2	·422	4·7	1·2	80	530	—	—	1·6	4	5	10	11	—	3·3	20
Salisbury	29·563	91·0	35·0	55·0	73·3	47·6	45·3	25·7	59·4	52·9	·402	4·5	1·5	80	530	114·8	44·9	1·6	3	2	9	17	4·3	3·9	20
Barnstaple	29·523	83·0	48·0	38·0	70·2	55·6	34·3	14·6	61·5	54·9	·431	4·8	1·3	79	530	—	—	1·4	1	4	13	13	—	4·6	20
Aldershot Camp	29·556	91·4	42·6	48·8	73·0	51·5	39·5	21·5	60·4	52·5	·396	4·4	1·5	76	526	113·3	47·3	1·7	3	4	9	14	1·8	6·4	20
Ramsgate	29·586	89·5	43·2	46·3	71·4	55·2	34·7	16·2	62·2	53·4	·409	4·6	1·7	73	530	115·5	52·4	1·9	4	6	5	16	—	5·1	20
Strathfield Turgiss	—	83·3	40·0	48·3	72·1	51·5	41·1	20·6	60·6	51·7	·384	4·3	1·6	73	530	124·2	45·8	0·5	—	—	—	—	4·7	6·4	20
Marlborough College	29·611	86·6	38·9	47·7	68·1	49·8	40·3	18·3	58·2	50·1	·363	4·0	1·4	76	527	125·7	45·9	—	5	2	9	14	—	6·4	20
Royal Observatory	29·546	92·0	43·4	48·6	73·2	51·8	39·2	21·4	60·8	53·7	·413	4·6	1·4	77	529	120·2	44·5	0·4	2	4	9	15	—	4·8	20
Streatley Vicarage	29·575	91·5	40·8	50·7	73·3	49·8	42·9	23·5	60·4	52·5	·397	4·5	1·4	75	530	83·2	—	1·5	4	4	9	14	—	5·3	20
Camden Town (Lndn.)	29·559	90·8	43·3	47·5	72·9	52·5	39·0	20·4	61·3	53·4	·408	4·5	1·3	76	530	113·3	50·3	—	4	2	10	14	—	6·0	20
Chiswick	29·589	91·5	39·2	52·3	73·2	49·6	46·7	23·6	60·3	51·3	·378	4·2	1·6	73	532	128·1	43·8	—	3	4	13	10	—	6·6	20
Leicester	29·554	84·3	42·0	42·3	68·6	51·7	36·1	16·9	59·3	50·5	·369	4·1	1·4	73	529	122·0	44·7	0·9	3	5	9	13	3·3	6·6	20
Oxford	29·558	88·1	43·5	44·6	71·0	52·0	36·1	19·0	61·2	52·1	·389	4·3	1·7	72	527	121·0	48·4	0·9	2	5	9	14	1·2	5·8	20
Gloucester	29·593	90·3	39·4	50·9	72·7	53·0	40·9	19·7	61·5	52·8	·400	4·4	1·7	73	530	116·9	48·4	0·6	7	3	7	14	—	5·3	20
Royston	29·490	92·2	39·9	52·3	73·7	49·9	43·3	23·8	60·5	52·6	·397	4·4	1·4	75	528	—	—	—	4	3	11	13	—	5·3	20
Cardington	29·535	91·6	40·0	51·6	73·0	50·6	42·4	22·4	61·6	53·2	·406	4·6	1·5	75	529	107·8	44·3	2·0	3	4	7	16	—	4·7	20
Somerleyton Rectory	29·542	87·4	36·2	51·2	71·4	51·8	43·2	19·6	60·0	52·7	·401	4·4	1·3	77	532	—	41·2	1·1	4	4	11	11	—	4·4	20
Norwich	—	88·9	38·0	50·0	69·5	51·6	39·7	17·9	59·7	55·2	·436	4·8	0·9	85	531	—	—	—	3	4	13	11	—	3·8	20
Wisbech	29·514	90·8	40·8	50·0	71·5	50·8	40·2	20·7	60·3	53·0	·403	4·5	1·3	78	532	119·9	47·1	0·8	4	3	12	12	—	5·9	20
Llandudno	29·495	81·3	45·0	34·3	69·2	53·7	31·1	15·5	60·1	52·5	·398	4·4	1·3	76	530	—	—	0·7	3	3	8	17	—	6·1	20
Derby	29·510	86·0	41·0	45·0	68·7	52·0	35·0	16·7	59·4	52·1	·388	4·3	1·4	77	529	—	—	—	4	3	7	17	3·7	6·6	20
Nottingham	29·508	86·7	39·9	46·8	70·5	50·3	39·7	20·2	59·1	52·0	·389	4·4	1·3	78	529	114·4	42·0	0·6	2	3	11	14	—	6·3	20
Holkham	29·520	90·7	33·8	56·9	73·9	49·0	45·5	24·9	60·3	51·3	·380	4·3	1·6	75	531	131·5	43·6	1·5	7	3	11	10	—	6·3	20
Calcethorpe	29·535	85·5	37·4	48·1	67·1	49·4	38·1	17·7	56·8	50·5	·368	4·1	1·1	80	528	120·0	43·0	0·8	3	2	14	11	6·0	6·3	20
Eccles	29·510	87·4	39·8	47·6	68·5	50·1	40·6	18·4	58·1	51·7	·384	4·3	1·2	80	531	83·1	43·3	0·4	4	2	9	15	2·0	6·6	20
Moorside, Halifax	29·483	82·5	37·7	44·8	66·9	51·1	35·9	15·5	57·4	50·0	·361	4·0	1·3	77	526	103·8	45·3	0·8	5	4	7	15	1·9	6·8	20
Hull	29·492	84·0	40·0	44·0	68·2	49·9	37·3	18·3	58·2	53·0	·403	4·5	0·9	85	533	94·7	47·6	—	—	—	—	—	1·0	7·1	20
Stonyhurst	29·478	83·0	38·2	44·8	66·7	50·0	39·0	16·7	56·9	51·9	·388	4·4	0·9	83	528	121·9	46·3	—	4	3	10	13	—	7·1	20
Bradford	29·525	80·9	41·2	39·7	65·9	52·5	32·5	14·4	58·3	52·1	·391	4·4	1·1	80	526	91·4	—	0·9	—	—	—	—	—	6·8	20
Leeds	29·496	90·0	42·0	48·0	70·1	51·9	38·3	18·2	60·1	50·8	·374	4·3	1·5	71	529	78·1	—	1·2	5	2	7	17	1·7	6·1	20
Cockermouth	29·471	81·6	37·6	44·0	65·4	51·3	32·7	14·1	57·4	50·2	·364	4·2	1·1	76	531	108·2	44·7	0·6	3	5	10	13	—	6·1	20
Allenheads	29·507	80·5	33·5	47·0	63·4	47·3	35·3	16·1	53·4	48·8	·346	3·9	0·7	85	513	112·5	43·9	1·6	—	—	—	—	8·0	6·3	20
Silloth	29·445	83·5	37·0	46·5	69·4	51·2	35·3	18·2	58·7	51·9	·387	4·4	1·2	79	532	104·9	47·3	1·2	2	5	7	17	5·8	6·2	20
Carlisle	29·485	81·2	36·9	44·3	66·8	49·3	35·8	17·6	57·2	49·8	·360	4·1	1·2	77	532	100·0	44·1	2·1	3	4	7	16	—	4·4	20
Bywell	29·430	84·0	42·0	42·0	69·0	52·7	35·3	16·3	58·8	50·4	·367	4·1	1·4	74	530	92·8	46·1	1·4	4	5	5	16	—	6·2	20
North Shields	—	75·2	41·0	34·2	64·1	51·4	29·2	12·7	56·5	48·2	·339	3·9	1·3	73	533	—	49·7	1·5	6	4	5	17	—	3·7	20
Miltown (Ireland)	—	77·0	38·0	39·0	64·7	49·9	31·0	14·8	56·3	49·1	·333	4·0	1·2	77	529	106·9	45·4	2·1	5	1	18	7	—		

The highest temperatures of the air were at Royston, 92°·2; and the Royal Observatory, 92°·0.

The lowest temperatures of the air were at Allenheads, 33°·5; and Holkham, 33°·8.

The greatest daily ranges of the temperatures of the air were at Salisbury, 25°·7; and Holkham, 24°·9.

The least daily ranges of the temperatures of the air were at Guernsey, 9°·9; and North Shields, 12°·7.

The greatest numbers of rainy days were at Stonyhurst, 61; Eccles and Cockermouth, both 60.

The least numbers of rainy days were at Norwich, 29; Portsmouth and Royston, 35 respectively.

The heaviest falls of rain were at Stonyhurst, 15·89 inches; and Cockermouth, 15·21 inches.

The least falls of rain were at Holkham, 4·28 inches; and Royston, 4·50 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°								
Guernsey	29·576	72·0	48·0	24·0	65·7	55·8	20·8	9·9	59·1	55·0	·434	4·8	0·8	86	531	—	—	1·2	6	4	9	10	4·4	4·2	20
Between the latitudes 50° and 51°	29·582	81·6	43·0	38·6	68·8	53·9	31·5	14·9	60·2	53·3	·408	4·6	1·3	78	531	105·0	50·4	1·4	4	4	10	13	3·2	5·1	20
Between the latitudes 51° and 52°	29·568	89·3	41·6	47·7	71·8	51·7	39·7	20·1	60·6	52·4	·395	4·4	1·5	75	529	117·0	47·0	1·1	3	4	10	13	3·8	5·9	20
Between the latitudes 52° and 53°	29·514	88·3	39·4	48·9	71·3	51·2	40·0	20·1	60·1	52·7	·400	4·5	1·3	77	530	118·3	43·6	1·1	4	3	10	14	3·2	6·3	20
Between the latitudes 53° and 54°	29·503	84·8	39·5	45·3	67·7	50·7	37·3	17·0	58·0	51·4	·381	4·3	1·1	79	529	99·0	45·1	0·8	4	3	9	14	3·2	6·3	20
Between the latitudes 54° and 55°	29·468	82·2	37·4	44·8	66·8	50·4	34·9	16·4	57·1	50·2	·365	4·1	1·1	78	528	105·7	45·2	1·4	3	5	7	16	3·2	6·3	20
North Shields	—	75·2	41·0	34·2	64·1	51·4	29·2	12·7	56·5	48·2	·339	3·9	1·3	73	533	—	49·7	1·5	6	4	5	17	—	3·7	20
Miltown, Banbridge (Ireland)	—	77·0	38·0	39·0	64·7	49·9	31·0	14·8	56·3	49·1	·333	4·0	1·2	77	529	106·9	45·4	2·1	5	1	18	7	—		
Mean for the Quarter, 50° to 55° — Year 1871	29·517	84·5	36·9	47·6	67·0	50·2	37·0	16·8	58·9	52·2	·394	4·4	1·2	79	530	108·7	46·8	1·0	5	6	8	12	4·0	5·5	20
" " 1872	29·489	85·2	34·3	50·9	68·9	52·2	41·4	16·7	59·3	52·7	·403	4·5	1·2	79	529	108·7	46·4	1·1	6	5	8	12	3·4	5·5	20
" " 1873	29·536	87·5	36·6	50·9	67·9	51·3	37·5	16·6	58·4	51·9	·389	4·3	1·2	79	529	103·9	45·5	1·0	4	3	9	15	4·2	6·3	20
" " 1874	29·527	85·3	40·2	45·1	69·3	51·6	36·7	17·7	59·2	52·0	·389	4·4	1·3	78	529	108·8	46·2	1·2	4	4	9	14	3·6	6·0	20

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING DECEMBER 31, 1874.

Remarks on the Weather during the Quarter ending December 31st, 1874.

By James Glaisher, Esq., F.R.S., *&c.*

The warm period which began on 20th September ended on 1st October, and was followed by eight days of cold weather; the deficiency of daily mean temperature was on the average 4°. From 10th October to 20th November the weather was warm, with the exception of the few days from 20th October to 24th October, and from 11th November to 14th November, which were cold. The average daily temperature of the 42 days ending 20th November was 49°·1, exceeding the average by 2°·4. The excess over the average on some days was as large as 8° or 9°. On 21st November a severe cold period set in and continued with very slight exceptions till 1st January 1875; the average daily temperature of the 42 days ending on this day was 33°·5, being 6°·6 below the average. The temperature on several days was more than 10° in defect; on 10th and 22nd December it was about 12°; on 23rd December it was 14¼°; on 29th December 12½°; on 30th December 12¾°; and on the last day of the year it was as large as 16½° nearly. On this day the mean temperature was 21°·1 only; the day being painfully cold. The following are all the instances of mean daily temperatures of about the same value or less than 21°·1, with the average temperatures for the same days, and departures below their averages, back to the year 1814.

Year.	Date.	Temperature. Average of 50 Years.	Temperature. Mean of Day.	Temperature. Departure below average.
1814	Jan. 10	35°·9	19°·6	16°·3
1814	" 14	36·3	21·0	15·3
1815	Dec. 24	37·8	20·9	16·9
1815	Jan. 14	36·3	16·2	20·1
1816	" 24	37·9	20·9	17·0
1816	Feb. 8	38·9	19·7	19·2
1819	" 9	38·9	12·6	26·3
1820	Dec. 11	40·7	20·9	19·8
1820	Jan. 1	37·3	19·9	17·4
1820	" 13	36·2	18·7	17·5
1823	" 15	36·4	14·6	21·8
1826	" 19	36·9	13·4	23·5
1826	" 14	36·3	19·5	16·8
1826	" 15	36·4	18·4	18·0
1829	" 16	36·5	18·9	17·6
	" 23	37·7	21·1	16·6
1830	Jan. 18	36·7	18·1	18·6
1830	" 31	37·9	20·0	17·9
1830	Feb. 2	37·7	17·0	20·7
1830	" 3	37·8	19·2	18·6
1830	" 5	38·3	19·0	19·3
1830	" 6	38·6	18·7	19·9
1830	Dec. 24	37·8	20·9	16·9
1830	" 25	37·6	18·6	19·0
1835	" 25	37·6	21·3	16·3
1838	Jan. 9	35·8	20·9	14·9
1838	" 11	36·0	21·0	15·0
1838	" 12	36·1	16·8	19·3
1838	" 13	36·2	20·9	15·3
1838	" 15	36·4	16·2	20·2
1838	" 18	36·7	21·3	15·4
1838	" 19	36·9	17·0	19·9
1838	Jan. 20	37·0	10·7	26·3
1841	" 7	35·8	17·4	18·4
1841	" 8	35·7	12·8	22·9
1841	" 9	35·8	20·9	14·9
1841	Feb. 3	37·8	19·2	18·6
1845	" 12	38·4	19·2	19·2
1848	Jan. 28	38·4	21·0	17·4
1855	" 19	36·9	21·1	15·8
1855	Feb. 18	38·3	21·1	17·2
1855	Dec. 21	38·8	20·2	18·6
1860	" 25	37·6	20·2	17·4
1864	Jan. 6	36·0	21·1	14·9
1867	" 4	36·4	13·2	23·2
1867	" 14	36·3	19·3	17·0
1870	Dec. 25	37·6	20·6	17·0
1874	" 31	37·5	21·1	16·4

Of these remarkably low mean daily temperatures there have been 48 since the year 1814, but 11 only in the last 30 years, viz., five in January, two in February, and four in December; of these 11 instances three took place in 1855, viz., in January, February, and December. During that remarkable cold period of 42 days extending from 14th January to 27th February 1855 the mean temperature was 29°·0, and, therefore, was much colder than in the recent period; the departure of these 42 days was 9¾° nearly, below their average. There was another analogous period of 42 days cold, extending from 21st December 1870 to 31st January 1871; the mean temperature of this period was 31°·1, or 6° below the average.

The mean temperature of the air on 22nd, 23rd, 29th, 30th, and 31st December descended to low points at many stations. The following table gives the lowest readings on these days.

Table of Minimum Temperatures of the Air on the 22nd, 23rd, 29th, 30th, and 31st days of December 1874.

Names of Stations.	Minimum Temperature on the 22nd.	23rd.	29th.	30th.	31st.	Names of Stations.	Minimum Temperature on the 22nd.	23rd.	29th.	30th.	31st.	Names of Stations.	Minimum Temperature on the 22nd.	23rd.	29th.	30th.	31st.
	°	°	°	°	°		°	°	°	°	°		°	°	°	°	°
Guernsey	29·5	31·0	36·5	27·5	27·0	Streatley	17·0	19·2	25·2	18·3	15·0	Sheffield	27·8	20·0	24·0	14·7	15·5
Helston	37·0	40·0	40·0	36·0	39·0	Bristol	25·0	22·2	26·9	23·4	13·8	Calcethorpe	17·3	22·8	15·6	13·1	8·1
Truro	32·0	32·0	36·0	37·0	32·0	Camden Town	22·7	18·4	25·4	19·1	19·0	Hawarden	27·0	23·0	27·0	23·0	16·5
Bournemouth	25·4	25·1	30·1	27·4	26·0	Chiswick	18·5	18·5	25·5	17·5	17·0	Liverpool	23·0	23·5	23·5	17·5	18·0
Portsmouth	27·0	22·1	30·7	28·6	25·1	Leicester	19·9	19·0	12·9	16·2	10·7	Eccles	22·7	18·9	21·8	17·0	7·3
Worthing	22·4	17·0	27·0	22·8	20·7	Oxford	18·0	18·0	18·2	17·4	15·0	Moorside	22·7	19·0	20·5	17·0	14·6
Hastings	23·8	21·0	27·7	24·9	26·4	Gloucester	21·8	21·0	27·7	11·5	12·8	Bermerside	22·8	18·5	—	17·0	14·5
Taunton	27·5	24·8	29·0	25·2	25·1	Royston	21·4	18·2	21·8	15·8	16·9	Hull	16·0	11·0	9·0	5·0	9·0
Salisbury	19·5	24·5	29·5	26·0	17·0	Cardington	18·0	19·0	24·0	6·0	10·0	Stonyhurst	13·0	15·7	16·4	13·2	14·9
Barnstaple	28·5	20·5	26·0	21·0	18·5	Somerleyton	24·0	22·0	11·2	10·0	14·8	Bradford	26·9	21·0	20·0	15·2	15·0
Aldershot	17·0	24·0	31·5	30·0	26·0	Birmingham	24·0	18·0	24·5	19·7	20·0	Leeds	26·0	23·0	20·0	11·0	15·0
Ramsgate	21·5	18·2	24·4	17·0	13·8	Norwich	27·0	22·0	15·0	10·0	15·0	Cockermouth	18·9	15·3	12·1	12·2	14·1
Strathfieldsaye	16·8	25·0	24·5	22·3	18·4	Wolverhampn.	18·2	20·1	25·0	20·5	15·7	Allenheads	22·5	13·0	8·5	7·5	8·0
Marlborough	19·0	18·8	25·0	15·0	10·2	Wisbech	24·2	17·0	14·0	14·5	18·2	Silloth	17·5	11·5	13·9	11·4	11·0
Greenwich	16·7	15·0	23·3	12·8	14·0	Llandudno	26·2	22·2	30·1	26·0	21·6	Carlisle	13·4	25·0	6·9	11·2	12·0
	25·2	14·3	23·5	19·5	8·8	Nottingham	23·3	16·7	23·0	12·1	12·5	Sunderland	28·5	24·0	15·0	11·0	21·0
		18·9	20·0	19·8	18·5	Holkham	21·2	20·5	11·7	7·7	16·0	Bywell	25·0	20·0	10·0	9·0	21·0
												North Shields	24·7	19·5	12·3	6·8	22·8

From the numbers in this Table we see that great differences of temperature prevailed on every day; the lowest temperatures were 5° at Hull, 6° at Cardington, 6°·8 at North Shields on the 30th, 6°·9 at Carlisle on the 29th; but in Cornwall it was above 32°.

On 1st January 1875 the temperature descended to low points; it was 9°·8 at Leicester; 10°·5 at Norwich; 11°·9 at Sheffield; 12°·0 at Nottingham; and generally less than 17° in the Midland and Northern counties.

The mean temperature of December was 33°·2, being 5°·9 below its average, as found from 103 years observations; 6°·7 below the average of 60 years, and 7°·1 below the average of 33 Decembers.

Since the year 1771, the following are all the instances of so low a mean temperature in December as 33°·2. In the year—

1784 it was 31°·0	1799 it was 32°·8	1846 it was 32°·9
1788 „ 29°·0	1840 „ 33°·3	1874 „ 33°·2
1796 „ 30°·4	1844 „ 33°·0	

The mean temperature of November and December taken together was 37°·6; since the year 1829, when the mean temperature of these two months was 37°·1, there has been only one instance of so low a mean temperature as in this year, viz., in 1870, when it was 37°·55.

At Silloth the mean temperature of December was remarkable, being 10° below the average of 20 years. Also at Cockermouth it was remarked as being by far the coldest December observed there for 13 years.

The mean temperature of October was 6°·2 lower than in September; that of November was 9°·7 lower than in October; and December was 8°·8 lower than that of November. (From the preceding 33 years observations the mean temperature of October is lower than that of September by 7°·0; that of November is 6°·6 lower than that of October; and December 3°·5 lower than in November.)

The mean temperature of October below that of September over the whole country was 5°·6; that of November below that of October was 8°·4; and that of December below November was 9°·3. The decrease from month to month in this quarter was nearly the same at all stations.

The readings of the barometer at 159 feet above the level of the sea were alternately below and above their averages to the 16th of October, and were above their averages from the 17th to the 31st, with the exception of two days, viz., 21st and 22nd, which were 0·33 in. and 0·19 in. below. The highest reading in the month was 30·11 ins. on the 31st, and the lowest 29·09 ins. on the 5th, the range being 1·02 ins. In November the readings of the barometer were all above their averages from the 1st to the 11th, but from the 12th to the 30th they were alternately below and above for short periods. The highest reading on the 8th was 30·36 ins., and the lowest on the 29th was 28·47 ins., the range being 1·89 ins. From the 1st to the 25th of December the barometer readings were all below their averages, except on a few days, and from the 26th to the 31st of December they were above, but to very small amounts. The highest reading in the month was 30·14 ins. on the 30th, and the lowest 28·45 ins. on the 9th, the range being 1·69 ins.

At Greenwich the mean decrease of atmospheric pressure from September to October was 0·044 in.; the mean increase from October to November was 0·071 in.; and the mean decrease from November to December was 0·167 in.

The mean decrease from all stations from September to October was 0·059 in.; the mean increase from October to November was 0·106 in.; and the mean decrease from November to December was 0·144 in.

The mean temperature of the air for October was 51°·7, being respectively 2°·1 and 1°·5 higher than the averages of 103 years, and the preceding 33 years; it was 3°·9 higher than that of 1873 and 1872 respectively.

The mean temperature of November was 42°·0, being 0°·3 lower than the average of 103 years, and 1°·6 lower than that of the preceding 33 years; and 2°·2 and 3°·3 respectively lower than those recorded in the month of November in the years 1873 and 1872.

The mean temperature of December was 33°·2, being 5°·9 and 7°·1 respectively lower than the averages of 103 years, and the preceding 33 years; it was 7°·4 and 9°·7 lower than the corresponding value in 1873 and 1872.

The mean high day temperatures of the air were 0°·6 and 7°·1 lower than their respective averages in November and December, and 1°·1 higher in October.

The mean low night temperatures of the air were 0°·7 and 7°·0 lower than their respective averages in November and December, and 2°·1 higher in October.

The mean daily ranges of temperature were 1°·1 and 0°·2 lower than their respective averages in October and December, but 0°·1 higher in November.

Therefore the days and nights of November and December were cold, particularly those of December, but those of October were warm.

The fall of rain in the three months was 7·2 ins., making 20·0 ins. in the year, being 5·4 ins. below the average annual fall.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter, were as follows:—

Direction of Wind.	October.			November.			December.		
	Average.	1874.	Departure from Average.	Average.	1874.	Departure from Average.	Average.	1874.	Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	2	1	−1	2	3	+1	2	3	+1
N.	3	1	−2	3¾	4	+ ¼	2¾	7	+4¼
N.E.	2½	2	− ½	3½	2	−1½	2	5	+3
E.	1½	2	+ ½	2	2	0	1¾	2	+ ¼
S.E.	1¼	1	− ¼	2	4	+2	1¾	2	+¼
S.	3½	6	+2½	3½	3	− ½	3	2	−1
S.W.	9	12	+3	7¾	6	−1¾	9¾	4	−5¾
W.	4½	6	+1½	2	5	+3	4	6	+2
Calm, nearly.	3¾	0	−3¾	3½	1	−2½	4	0	−4

The + signs denote excesses over averages; in the month of October the largest numbers affected with this sign are the S. and S.W., in November is the W., and in December is the N. wind.

The − signs denote defect below averages; in October the largest numbers with this sign are opposite N. and N.W.; in November and December is S.W.

Thus the prevailing winds in October were S. and S.W.; in November were W. and S.E.; and in December were N.

1874. Months.	Temperature of Air. Mean.	Air. Diff. from average of 103 years.	Air. Diff. from average of 33 years.	Evaporation. Mean.	Evaporation. Diff. from average of 33 years.	Dew Point. Mean.	Dew Point. Diff. from average of 33 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 33 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 33 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 33 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.
Oct. -	51·7	+2·1	+1·5	50·2	+2·0	48·7	+2·6	13·8	−1·1	54·9	0·344	+0·031	3·9	+0·3
Nov. -	42·0	−0·3	−1·6	40·3	−1·1	38·3	−1·3	11·8	+0·1	47·5	0·231	−0·017	2·7	−0·1
Dec. -	33·2	−5·9	−7·1	32·1	−6·7	29·9	−7·1	9·3	−0·2	35·7	0·166	−0·056	2·0	−0·6
Means -	42·3	−1·4	−2·4	40·9	−1·9	39·0	−1·9	11·6	−0·4	46·0	0·247	−0·014	2·9	−0·1

1874. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 33 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 33 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 33 years.	Rain. Amount.	Rain. Diff. from average of 59 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
Oct. -	90	+3	29·708	+0·009	537	−2	3·6	+0·9	293	5	12	14	27·7	51·9
Nov. -	87	−1	29·779	+0·025	550	+2	1·9	−0·4	259	16	11	3	18·3	44·9
Dec. -	88	0	29·612	−0·194	557	+5	1·7	−0·3	285	25	6	0	12·0	32·0
Means -	88	+1	29·700	−0·052	548	+2	Sum 7·2	Sum +0·2	Mean 279	Sum 46	Sum 29	Sum 17	Lowest 12·0	Highest 51·9

NOTE.—In reading this table it will be borne in mind that the minus sign (−) signifies below the average, and that the plus sign (+) signifies above the average.

Thunderstorms occurred, on 5 days during October; 2 days during November; and 3 days during December.

Thunder was heard, but lightning was not seen, on 7 days during the quarter at different stations.

Lightning was seen, but thunder was not heard, on 10 days in October; 3 in November; and 4 in December, mostly in the southern and midland counties.

Solar halos were seen, on 12 days during the quarter.

Lunar halos were seen, on 15 nights during the quarter, mostly in the midland and northern counties.

Auroræ boreales were seen, on the 3rd, 4th, 13th, 14th, and 18th of October generally over the country.

Snow fell, on 8 days in November, and 28 days in December all over the country.

Hail fell on 8 days in October; 9 in November; and 20 in December; mostly in the midland and northern counties.

Fog prevailed, on 61 days during the quarter, in October, mostly in the midland counties, but in November and December all over the country.

Field Elm divested of leaves, on 6th of November at Hull; the 7th at Helston and Brighton; on the 23rd at Weybridge Heath; and on the 30th at Guernsey.

Wych Elm divested of leaves, on the 25th of October at Oxford; on the 7th of November at Llandudno; and on the 14th at Hull.

Oak divested of leaves, on the 20th of November at Hull; and on the 25th at Guernsey.

Lime divested of leaves, on the 23rd of October at Guernsey and Llandudno; on the 24th at Wisbech; and on the 31st at Hull. On the 2nd of November at Strathfield Turgiss; on the 9th at Oxford; and on the 20th at Weybridge Heath.

Sycamore divested of leaves, on the 21st at Calcethorpe; on the 27th at Hull; and on the 31st at Guernsey. On the 4th of November at Weybridge Heath; and on the 6th at Llandudno.

Horsechesnut divested of leaves, on the 21st of October at Hull; on the 25th at Llandudno; on the 28th at Guernsey; and on the 29th at Oxford. On the 1st of November at Strathfield Turgiss; on the 5th at Helston; and on the 6th at Weybridge Heath.

Occidental Plane divested of leaves, on the 9th of November at Helston; and on the 17th at Hull.

Common Poplar divested of leaves, on the 5th of November at Calcethorpe; on the 6th at Llandudno; and on the 16th at Hull.

Oriental Plane divested of leaves, on the 17th of November at Hull.

Hawthorne divested of leaves, on the 7th of November at Llandudno; and on the 15th at Hull.

Hazel divested of leaves, on the 14th of November at Hull; and on the 18th at Weybridge Heath.

Walnut divested of leaves, on the 3rd of November at Hull; on the 9th at Oxford; and on the 28th at Weybridge Heath.

Swallow departed, on the 3rd of October from Guernsey; on the 5th from Calcethorpe; on the 16th from Weybridge Heath; and on the 18th from Hull. On the 6th of November from Osborne.

Fieldfare departed, on the 18th of November from Hull.

Woodcock departed, on the 14th of November from Hull.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING DECEMBER 31ST, 1874.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the fifth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1874. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., E.R.S., F.M.S.	204	Oct.	29·702	1·605	63·0	45·0	18·0	59·0	50·8	8·2	54·1	49·9	·359	4·0	0·7	85	535	—	—	1·4	5	4	10	12	4·7	6·0	23	6·82
		Nov.	29·763	1·568	61·0	36·5	24·5	53·0	45·4	7·6	48·8	44·7	·297	3·2	0·5	86	542	—	—	1·5	8	7	7	8	4·3	6·1	14	3·57
		Dec.	29·587	1·316	54·5	27·0	27·5	45·2	36·3	8·9	40·9	36·2	·212	2·5	0·5	84	548	—	—	1·8	11	5	5	10	5·1	7·1	26	7·90
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	Oct.	29·780	0·988	68·0	32·0	36·0	61·7	45·4	16·3	53·4	48·8	·345	4·0	0·6	84	537	75·9	43·2	2·2	8	2	8	13	4·8	4·9	22	5·42
		Nov.	29·890	1·498	66·0	26·0	40·0	57·7	38·5	19·2	48·2	43·2	·279	3·2	0·7	84	545	64·0	35·4	1·9	9	6	6	9	4·9	5·5	18	4·50
		Dec.	29·754	1·228	55·0	26·0	29·0	49·2	36·7	12·5	42·3	37·0	·220	2·5	0·8	82	549	53·7	32·8	2·3	13	4	3	11	5·7	5·2	25	7·67
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	Oct.	29·830	0·980	63·0	38·0	25·0	59·0	48·0	11·0	52·8	47·4	·328	3·6	0·8	82	539	—	—	2·5	9	1	8	13	—	7·1	24	4·59
		Nov.	29·930	1·495	61·0	31·0	30·0	54·4	44·3	10·1	48·8	43·8	·286	3·3	0·5	83	545	—	—	2·2	9	6	6	9	—	7·3	22	4·43
		Dec.	29·782	1·421	54·0	26·0	28·0	46·5	35·5	11·0	41·0	35·4	·206	2·4	0·6	81	550	—	—	2·5	17	4	2	8	—	7·1	24	8·04
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	Oct.	29·699	1·056	66·9	38·2	28·7	59·5	47·8	11·7	53·0	48·6	·344	3·8	0·7	85	536	77·4	44·4	0·3	3	3	13	12	—	7·2	23	4·67
		Nov.	29·782	1·830	61·6	29·5	32·1	50·9	39·3	11·6	44·6	43·3	·280	3·2	0·1	95	547	61·5	35·9	0·3	5	8	8	9	—	7·5	15	3·32
		Dec.	29·652	1·392	53·2	23·1	30·1	40·5	30·3	10·2	35·3	33·6	·193	2·2	0·2	93	555	45·3	27·6	0·6	12	5	4	10	—	7·4	15	2·92
BOURNEMOUTH (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	128	Oct.	29·886	1·010	63·0	37·9	25·1	57·8	49·1	8·7	53·3	49·9	·359	4·0	0·7	88	539	—	—	—	4	4	10	13	—	4·4	22	4·35
		Nov.	29·989	1·860	58·2	28·9	29·3	50·3	39·7	10·6	45·1	41·7	·263	3·0	0·5	88	550	—	—	—	10	6	4	10	—	5·3	11	2·89
		Dec.	29·806	1·310	52·8	22·0	30·8	40·7	30·6	10·1	35·7	31·9	·181	2·1	0·4	86	558	—	—	—	16	4	3	8	—	4·1	12	3·52
PORTSMOUTH, William C. Ellis, Esq.	16	Oct.	29·872	0·906	—	34·6	—	—	45·0	—	56·4	49·5	·355	4·0	1·0	78	536	93·7	42·8	1·7	5	4	10	12	0·9	7·4	24	4·91
		Nov.	29·963	1·677	—	22·0	—	—	36·5	—	47·1	41·3	·260	3·0	0·7	81	548	73·5	34·4	1·5	7	9	6	8	0·2	7·1	16	2·60
		Dec.	29·774	1·540	—	17·0	—	—	26·8	—	36·8	32·2	·183	2·1	0·5	84	556	—	25·9	1·6	16	4	3	8	1·8	6·4	16	3·65
BRIGHTON (Sussex), Frederick E. Sawyer, Esq., F.M.S.	206	Oct.	29·689	1·052	65·8	37·6	28·2	58·2	48·2	10·0	53·0	48·0	·334	3·8	0·8	83	536	92·2	44·8	0·9	5	5	11	10	—	8·0	25	3·88
		Nov.	29·751	1·858	59·0	28·6	30·4	48·8	39·2	9·6	43·8	40·0	·248	2·9	0·4	87	547	75·5	35·1	0·8	11	7	4	8	—	6·7	15	2·52
MANOR HOUSE (Hastings), Alex. E. Murray, Esq., F.M.S.	169	Oct.	29·738	0·960	63·7	39·4	24·3	56·2	48·1	8·1	52·7	47·9	·332	3·7	0·8	83	537	—	—	1·6	5	5	12	9	—	6·1	21	3·46
		Nov.	29·772	1·862	57·9	31·5	26·4	48·4	40·8	7·6	44·3	40·4	·252	2·9	0·5	86	548	—	—	1·6	10	6	6	8	—	6·7	11	1·50
		Dec.	29·605	1·588	51·7	24·8	26·9	38·2	31·9	6·3	34·8	31·4	·176	2·0	0·3	87	555	—	—	1·6	14	6	3	8	—	6·2	15	2·41
TAUNTON (Somerset), James Bottomley, Esq.	80	Oct.	29·786	0·996	65·0	32·2	32·8	62·3	45·0	17·3	52·4	47·4	·328	3·7	0·7	83	540	67·9	37·9	0·3	10	1	4	16	—	7·8	20	3·52
		Nov.	29·893	1·778	63·0	28·5	34·5	52·6	38·5	14·1	45·2	40·5	·251	2·9	0·6	84	548	57·3	33·9	0·3	9	5	6	10	—	7·2	13	2·39
		Dec.	29·744	1·550	55·1	17·0	38·1	41·4	30·6	10·8	36·6	33·7	·191	2·3	0·3	90	554	49·5	27·2	0·5	11	8	1	11	—	7·0	14	3·38
WILTON HOUSE (near Salisbury), T. Challis, Esq.	186	Oct.	29·665	1·016	68·0	29·0	39·0	60·8	42·9	17·9	51·2	47·1	·327	3·7	0·6	84	538	90·5	40·2	1·4	4	3	11	13	4·6	7·8	22	5·09
		Nov.	29·749	1·832	60·0	19·0	41·0	50·2	33·9	16·3	41·9	39·7	·246	2·9	0·3	93	550	73·0	31·7	1·4	9	7	7	7	5·0	7·4	15	2·99
		Dec.	29·584	1·372	54·0	18·5	35·5	39·7	26·6	14·1	33·2	30·4	·169	2·0	0·3	89	557	56·1	23·4	1·5	19	7	1	4	4·8	6·4	14	3·41
BARNSTAPLE (Devon), T. Mackrell, Esq.	43	Oct.	29·818	0·970	64·0	41·5	22·5	59·8	49·7	10·1	54·0	49·1	·345	3·9	0·8	83	537	—	—	1·4	4	1	14	12	—	5·3	25	4·44
		Nov.	29·919	1·640	62·0	34·0	28·0	53·5	43·4	10·1	48·0	43·4	·281	3·1	0·6	85	546	—	—	1·4	8	10	5	7	—	4·0	14	3·06
		Dec.	29·797	1·590	54·0	24·0	30·0	43·7	33·4	10·3	38·8	34·6	·201	2·3	0·5	85	554	—	—	1·3	14	4	1	12	—	4·2	22	7·10
ALDERSHOT CAMP (Hants), John Arnold, Esq., M.S.C., F.M.S.	325	Oct.	29·500	1·014	66·6	36·0	30·6	60·0	45·9	14·1	51·4	49·8	·358	4·0	0·3	94	534	67·8	41·4	1·7	2	3	14	12	2·1	7·0	23	4·71
		Nov.	29·564	1·962	62·3	23·6	38·3	48·7	35·2	13·5	41·2	38·7	·235	2·7	0·3	92	547	74·2	31·8	1·4	7	4	7	12	1·8	6·9	14	2·20
		Dec.	29·392	1·516	52·0	13·8	38·2	38·7	27·0	11·7	32·6	30·8	·173	2·0	0·2	93	554	51·6	22·6	1·6	10	5	4	12	1·7	7·6	13	2·55
ST. AUGUSTINE'S MONASTERY, (Ramsgate), Rev. E. J. Hutter, O.S.B.	108	Oct.	29·793	0·917	66·6	35·8	30·8	60·1	47·9	12·2	53·7	48·4	·358	3·8	0·8	82	537	92·9	44·9	1·6	5	5	11	10	—	6·8	14	2·98
		Nov.	29·840	1·795	64·0	28·6	35·4	49·9	38·7	11·2	44·1	39·5	·248	2·8	0·5	85	549	83·5	35·7	1·0	7	8	8	7	—	5·2	12	1·50
		Dec.	29·648	1·370	51·4	18·4	33·0	38·5	30·5	9·0	35·5	31·2	·175	2·0	0·4	84	555	62·9	28·5	1·2	10	9	7	5	—	6·7	19	5·15

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1874. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	Oct.	29·672	1·020	64·3	35·0	29·3	57·9	46·8	11·1	52·0	48·0	·335	3·8	0·6	86	537	98·5	40·8	0·5	6	4	8	13	4·0	7·0	20	3·79
		Nov.	29·762	1·883	59·0	22·2	36·8	48·3	36·4	11·9	42·4	38·7	·235	2·7	0·4	87	549	73·2	32·1	0·5	6	9	7	8	3·0	7·7	13	3·16
		Dec.	29·586	1·513	53·3	10·2	43·1	38·1	27·2	10·9	33·4	30·3	·169	1·9	0·3	92	557	57·3	24·5	0·5	15	7	3	6	2·5	6·9	12	1·70
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	Oct.	29·756	1·040	70·0	34·0	36·0	59·6	45·1	14·5	51·5	47·5	·329	3·7	0·6	87	538	84·4	42·3	0·7	4	4	16	7	0·7	7·0	21	4·13
		Nov.	29·822	1·898	61·5	24·0	37·5	46·8	36·6	10·2	41·0	38·3	·232	2·7	0·5	90	552	60·9	32·7	0·5	8	7	9	6	0·6	6·1	15	2·62
		Dec.	29·636	1·618	52·5	12·8	39·7	36·8	27·9	8·9	32·3	28·3	·155	1·9	0·3	85	559	42·9	25·3	0·8	10	8	8	6	0·6	6·1	12	1·65
MARLBOROUGH COLLEGE (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	456	Oct.	29·397	0·994	61·7	32·8	28·9	56·9	44·8	12·1	50·7	47·4	·329	3·7	0·5	89	533	80·4	39·5	—	5	2	8	16	—	8·2	21	4·89
		Nov.	29·491	1·873	56·0	22·0	34·0	47·5	34·1	13·4	40·5	39·4	·241	2·8	0·1	96	546	64·9	30·3	—	10	4	8	8	—	7·6	19	3·52
		Dec.	29·327	1·541	53·3	8·8	44·5	37·1	25·2	11·9	31·7	29·4	·162	1·8	0·2	91	554	49·9	23·6	—	17	5	4	5	—	6·8	15	2·82
ROYAL OBSERVATORY (Kent), The Astronomer Royal.	159	Oct.	29·708	1·022	69·6	36·0	33·6	59·5	45·7	13·8	51·7	48·7	·344	3·9	0·4	90	537	88·0	39·0	0·6	2	3	13	13	—	6·9	17	3·58
		Nov.	29·779	1·889	62·6	25·0	37·6	48·4	39·6	11·8	42·0	38·3	·231	2·7	0·4	87	550	66·1	30·2	0·4	6	6	8	10	—	6·3	10	1·85
		Dec.	29·612	1·690	53·3	18·5	34·8	37·9	28·6	9·3	33·2	29·9	·166	2·0	0·2	88	557	46·5	23·7	0·5	10	6	4	11	—	7·2	12	1·69
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.A.S., F.M.S.	150	Oct.	29·709	0·930	67·5	32·3	35·2	59·8	45·4	14·4	52·9	47·1	·324	3·9	0·9	81	536	66·2	—	1·7	6	3	10	12	—	7·2	20	3·34
		Nov.	29·808	1·848	61·5	24·0	37·5	49·6	36·8	12·8	43·2	39·7	·262	3·0	0·4	89	549	53·6	—	1·6	6	7	8	9	—	6·9	13	3·12
		Dec.	29·632	1·638	54·6	15·0	39·6	39·7	27·7	12·0	34·2	30·6	·174	2·1	0·3	86	556	44·2	—	1·4	10	7	5	9	—	7·0	11	1·94
CAMDEN TOWN (London), G. J. Symons, Esq., F.M.S.	123	Oct.	29·766	1·065	68·1	34·8	33·3	59·5	46·6	12·9	52·5	47·5	·329	3·7	0·8	83	538	80·9	44·3	—	4	4	14	9	—	6·6	18	3·34
		Nov.	29·817	1·927	60·0	25·6	34·4	47·4	36·9	10·5	42·2	38·7	·235	2·7	0·5	88	551	57·7	34·6	—	11	2	4	13	—	6·6	15	2·21
		Dec.	29·659	1·599	53·8	18·4	35·4	38·1	28·7	9·4	33·7	30·6	·171	2·0	0·3	88	557	42·9	27·4	—	18	2	5	6	—	6·6	14	1·58
CHISWICK (Middlesex), Prof. Thiselton Dyer, M.A., B.Sc., F.L.S.	25	Oct.	29·843	0·992	67·7	29·0	38·7	59·8	44·4	15·4	52·0	47·0	·323	3·7	0·7	83	540	89·7	37·6	—	1	5	18	7	—	—	18	4·94
		Nov.	29·932	1·876	61·7	23·0	38·7	50·0	35·7	14·3	42·5	39·6	·242	2·7	0·4	90	552	61·0	30·3	—	7	6	5	12	—	—	13	1·75
		Dec.	29·750	1·544	55·0	17·0	38·0	40·1	27·8	12·3	34·4	32·9	·187	2·2	0·1	94	558	51·3	24·1	—	10	6	3	12	—	—	15	1·75
TOWN MUSEUM (Leicester), W. J. Harrison, Esq.	245	Oct.	29·577	1·134	64·6	36·3	28·3	57·5	45·7	11·8	50·9	46·4	·315	3·6	0·5	87	536	94·3	39·6	1·0	2	6	11	12	—	7·1	22	2·33
		Nov.	29·663	1·923	57·3	24·2	33·1	47·2	36·0	11·2	41·6	38·5	·234	2·7	0·3	90	548	69·5	30·8	0·5	8	5	7	10	—	7·5	16	2·22
		Dec.	29·519	1·653	50·8	10·7	40·1	36·9	26·0	10·9	32·0	27·7	·151	1·8	0·3	83	557	52·1	21·4	0·5	12	7	6	6	—	8·0	16	1·80
OXFORD (Oxfordshire), Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	Oct.	29·646	1·005	63·9	34·7	29·2	58·4	46·3	12·1	52·1	47·9	·334	3·8	0·6	85	536	93·8	43·1	1·0	2	6	13	10	2·2	7·7	19	3·13
		Nov.	29·709	1·875	57·0	23·0	34·0	47·6	36·7	10·9	42·2	39·1	·239	2·8	0·3	90	549	70·5	33·9	0·7	6	7	7	10	0·6	7·9	15	2·52
		Dec.	29·573	1·599	53·0	15·0	38·0	38·2	28·0	10·2	33·0	29·7	·165	2·0	0·3	88	557	59·4	25·8	0·8	11	4	5	11	1·0	7·7	11	1·83
GLOUCESTER (Gloucester), E. Toller, Esq., M.D.	100	Oct.	29·782	1·005	63·8	37·9	25·9	59·6	47·2	12·4	52·7	49·5	·355	4·0	0·5	84	538	82·0	43·1	0·6	7	2	9	13	0·4	6·1	24	2·32
		Nov.	29·902	1·894	57·1	25·6	31·5	48·7	36·8	11·9	42·6	39·3	·241	2·7	0·4	88	551	58·7	33·9	0·4	8	5	8	9	0·0	6·7	16	2·56
		Dec.	29·754	1·642	51·5	11·9	39·6	39·2	27·1	12·1	33·6	30·8	·172	2·0	0·3	89	559	43·7	27·1	0·5	10	7	6	8	0·0	7·0	12	2·09
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	Oct.	29·578	0·993	68·0	33·4	34·6	59·6	45·3	14·3	51·6	48·4	·340	3·8	0·5	89	535	—	—	—	2	2	16	11	—	6·3	14	2·18
		Nov.	29·658	1·890	59·3	19·4	39·9	48·0	34·8	13·2	41·1	37·3	·223	2·6	0·4	87	549	—	—	—	4	2	14	10	—	6·4	14	2·01
		Dec.	29·493	1·648	52·0	13·8	38·2	38·0	26·8	11·2	32·3	29·1	·161	1·9	0·2	88	556	—	—	—	10	4	5	12	—	7·2	17	1·97
CARDINGTON (near Bedford), Mr. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	100	Oct.	29·746	1·086	65·6	32·0	33·6	58·8	44·5	14·3	52·4	45·7	·308	3·6	1·0	84	538	71·9	38·8	2·1	3	4	11	13	—	7·1	17	1·70
		Nov.	29·843	1·870	57·0	23·0	34·0	47·1	34·3	12·8	40·6	37·9	·227	2·7	0·4	90	553	51·4	28·5	1·3	7	5	7	11	—	6·6	15	2·10
		Dec.	29·681	1·582	52·0	6·0	46·0	37·8	26·0	11·8	32·0	29·3	·162	1·9	0·2	89	560	38·8	20·3	1·7	11	5	4	11	—	7·4	13	1·70
ST. DAVID'S COLLEGE, LAMPETER (Cardiganshire), Prof. A. W. Scott.	420	Oct.	29·397	1·028	65·0	33·0	32·0	56·9	43·9	13·0	50·0	44·0	·288	3·4	0·8	81	534	81·6	—	—	5	5	9	12	—	—	22	5·08
		Nov.	29·510	1·824	60·0	25·0	35·0	50·4	36·8	13·6	44·1	39·5	·243	2·8	0·5	82	543	67·0	—	—	7	7	8	8	—	—	18	4·29
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	50	Oct.	29·809	1·028	67·0	32·1	34·9	59·6	44·9	14·7	51·9	48·3	·338	3·8	0·6	87	539	—	35·9	1·2	2	4	12	13	4·4	6·8	17	1·39
		Nov.	29·877	1·986	60·0	26·4	33·6	49·0	36·7	12·3	42·3	40·3	·250	2·8	0·2	93	551	—	26·9	0·9	8	3	9	10	4·5	6·0	18	2·00
		Dec.	29·678	1·564	51·0	10·0	41·0	37·8	26·9	10·9	32·7	32·3	·183	2·1	0·0	96	559	—	19·4	1·1	10	4	8	9	4·2	6·3	22	3·04
NORWICH (Norfolk), John Quinton, Esq., Jun.	42	Oct.	29·799	1·136	65·0	32·0	33·0	57·3	44·7	12·6	51·0	50·0	·361	4·0	0·2	96	540	—	—	—	2	4	17	8	—	—	14	1·99
		Nov.	29·880	1·954	58·8	28·5	30·3	47·1	36·5	10·6	41·9	39·3	·242	2·8	0·3	89	552	—	—	—	4	5	9	12	—	—	16	2·30
		Dec.	29·709	1·652	51·0	10·0	41·0	36·1	26·9	9·2	31·9	30·9	·173	2·0	0·1	95	560	—	—	—	9	2	5	15	—	—	20	2·15

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1874. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°								in.
WISBECH (Cambridgeshire), S. H. Miller, Esq., F.R.A.S., F.M.S.	14	Oct.	29·816	1·124	66·4	32·0	34·4	55·3	45·5	12·8	51·5	49·0	·347	3·9	0·7	89	540	85·7	40·6	0·7	3	2	15	11	3·2	6·8	16	1·44
		Nov.	29·921	1·872	59·2	22·8	36·4	47·0	36·2	10·8	41·0	39·2	·239	2·7	0·4	93	554	70·5	32·9	0·5	5	3	9	13	1·6	6·3	13	2·21
		Dec.	29·747	1·599	50·7	14·0	36·7	36·3	26·8	9·5	31·5	28·5	·156	1·8	0·3	87	562	54·3	23·7	0·6	10	3	5	13	2·7	6·9	15	2·03
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	10	Oct.	29·684	1·270	66·4	43·8	22·6	58·3	47·2	11·1	52·3	45·0	·300	3·4	1·0	76	537	—	—	1·1	2	3	12	14	—	7·2	21	3·42
		Nov.	29·799	1·950	67·5	34·8	32·7	52·0	41·6	10·4	46·6	40·6	·254	2·9	0·7	81	545	—	—	0·7	7	3	9	11	—	6·6	22	5·64
		Dec.	29·695	1·690	50·5	21·6	28·9	41·4	34·0	7·4	37·8	32·1	·182	3·1	0·5	81	554	—	—	0·9	6	9	7	9	—	5·7	19	4·43
DERBY (Derbyshire), John Davis, Esq.	174	Oct.	29·594	1·153	63·0	37·0	26·0	56·7	44·6	12·1	50·1	47·2	·326	3·7	0·7	90	537	—	—	—	6	3	7	15	—	—	—	1·90
		Nov.	29·735	1·890	57·0	22·0	35·0	47·0	36·3	10·7	41·2	36·9	·219	2·6	0·4	85	550	—	—	—	5	3	6	16	—	—	—	2·71
		Dec.	29·592	1·677	50·0	16·0	34·0	36·9	30·0	6·9	33·1	31·2	·176	2·1	0·1	94	557	—	—	—	13	7	3	8	—	—	—	1·90
NOTTINGHAM (Notts), M.O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	183	Oct.	29·598	1·138	68·4	34·8	33·6	58·1	43·8	14·3	50·3	47·2	·326	3·7	0·4	90	537	84·7	35·9	0·5	4	3	13	11	4·1	7·8	25	1·58
		Nov.	29·727	1·922	58·1	23·7	34·4	47·5	35·5	12·0	41·1	39·0	·238	2·7	0·3	93	550	62·2	28·6	0·5	6	7	6	11	1·6	6·8	20	2·26
		Dec.	29·560	1·510	51·1	12·1	39·0	37·1	25·6	11·5	31·7	28·5	·156	1·8	3·3	86	558	46·7	19·9	0·5	14	5	3	9	1·7	6·9	19	1·54
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	39	Oct.	29·746	1·128	64·8	27·2	37·6	58·6	43·1	15·5	51·5	45·4	·306	3·5	0·8	89	538	77 6	36·4	1·8	5	4	16	6	—	7·6	20	2·25
		Nov.	29·864	1·488	60·7	22·0	38·7	50·8	34·4	16·4	42·8	38·5	·233	2·6	0·5	85	551	57·6	27·5	1·3	6	3	11	10	—	7·9	16	2·52
		Dec.	29·612	1·612	50·2	7·7	42·5	38·4	24·1	14·3	32·6	29·0	·160	1·9	0·2	86	558	42·1	21·4	1·4	9	2	7	13	—	8·0	19	3·10
CALCETHORPE MANOR (near) Louth (Lincolnshire), D. Grant Briggs, Esq., F.M.S.	382	Oct.	29·384	1·213	63·0	32·0	31·0	55·7	43·4	12·3	48·7	45·8	·309	3·5	0·4	90	535	90·7	37·2	1·6	4	3	14	10	6·3	7·0	22	1·72
		Nov.	29·493	1·932	56·3	24·8	31·5	45·7	35·5	10·2	39·9	36·9	·220	2·6	0·3	90	547	76·8	31·3	1·0	6	3	11	10	6·4	6·5	21	3·23
		Dec.	29·341	1·624	46·3	8·0	38·3	35·2	25·3	9·9	30·2	27·8	·152	1·8	0·3	90	555	66·0	22·3	1·2	9	4	7	11	4·9	6·8	24	2·89
HAWARDEN (Flint), T. Moffat, Esq., M.D., F.R.A.S.	270	Oct.	29·513	1·246	61·5	41·0	20·5	55·2	47·9	8·2	50·2	46·9	·320	3·6	0·5	89	536	75·3	29·5	2·2	6	1	10	14	1·0	7·1	24	3·04
		Nov.	29·642	1·900	60·5	27·0	33·5	49·9	39·2	7·7	42·8	39·7	·244	2·8	0·4	88	546	54·0	22·9	2·2	5	4	10	11	0·8	7·3	21	3·08
		Dec.	29·524	1·730	49·0	16·5	32·5	38·0	30·5	7·5	35·5	33·2	·191	2·2	0·3	91	553	39·2	14·2	1·7	12	3	6	10	0·6	6·4	15	3·51
LIVERPOOL OBSERVATORY, John Hartnup, Esq., F.R.A.S.	197	July	29·747	0·717	82·3	50·0	32·3	69·4	55·4	14·0	61·1	49·7	·357	4·0	2·0	67	528	—	—	1·1	2	4	9	16	—	5·7	15	2·84
		Aug.	29·653	1·203	75·1	49·7	25·4	65·7	53·7	12·0	58·2	50·2	·365	4·1	1·4	75	530	—	—	1·5	2	5	9	15	—	6·6	18	2·47
		Sept.	29·593	0·904	73·0	43·6	29·4	62·1	51·6	10·5	55·6	48·6	·344	3·8	1·1	78	531	—	—	1·2	3	4	13	10	—	6·5	19	2·38
		Oct.	29·571	1·249	62·8	42·0	20·8	56·1	46·4	9·7	50·5	45·0	·300	3·4	0·7	79	537	—	—	1·5	3	5	12	11	—	7·1	26	3·86
		Nov.	29·695	1·930	59·9	27·6	32·3	48·1	39·2	8·9	43·6	38·6	·234	2·7	0·5	83	547	—	—	1·5	4	2	9	8	—	6·3	17	3·53
		Dec.	29·572	1·709	51·9	17·5	34·4	39·0	30·0	9·0	34·4	30·6	·171	2·1	0·3	85	555	—	—	1·2	10	7	6	8	—	6·5	15	2·42
ECCLES (near Manchester), T. Mackereth, Esq., F.R.A.S., F.M.S.	145	Oct.	29·644	1·264	66·0	34·0	32·0	56·7	43·9	12·8	50·0	45·0	·299	3·4	0·7	84	538	63·6	37·1	0·6	4	4	13	10	2·7	7·5	25	4·09
		Nov.	29·757	1·912	60·2	25·8	34·4	48·2	36·5	11·7	42·2	38·2	·231	2·7	0·5	86	549	51·2	29·5	0·4	9	5	6	10	1·9	7·6	19	5·11
		Dec.	29·636	1·624	49·5	7·3	42·2	37·1	25·1	12·0	31·6	27·3	·149	1·7	0·4	84	560	37·4	19·1	0·4	11	11	6	3	1·6	7·2	13	3·17
MOOR SIDE OBSERVATORY, HALIFAX (Yorkshire), Louis J. Crossley, Esq., F.R.A.S.	429	Oct.	29·291	1·268	64·0	34·7	29·3	55·1	44·2	10·9	48·6	43·3	·281	3·2	0·7	83	534	81·8	38·0	1·0	5	5	8	13	2·7	7·6	23	4·72
		Nov.	29·418	1·905	57·1	24·2	32·9	46·6	36·5	10·1	41·0	36·2	·213	2·5	0·5	83	545	58·9	31·6	0·8	7	6	5	12	0·1	6·8	13	3·46
		Dec.	29·288	1·668	49·0	14·6	34·4	36·1	27·1	9·0	31·5	26·4	·143	1·6	0·5	82	553	47·7	20·9	0·6	11	5	5	10	1·0	6·5	15	2·77
BERMERSIDE OBSERVATORY, HALIFAX (Yorkshire), Edward Crossley, Esq., F.R.A.S.	520	Oct.	29·281	1·254	65·6	34·0	31·6	54·4	43·3	11·1	48·2	45·8	·308	3·5	0·3	92	534	86·9	39·5	0·9	3	5	10	13	—	7·4	25	4·78
		Nov.	29·354	1·884	57·0	23·4	33·6	45·1	36·1	9·0	40·1	36·1	·212	2·5	0·4	86	544	66·8	32·5	0·5	5	7	7	11	—	6·2	13	3·74
		Dec.	29·173	1·694	47·0	14·5	32·5	35·8	27·2	8·6	31·5	29·8	·161	1·9	0·1	94	551	58·8	25·0	0·6	7	6	7	11	—	5·5	10	3·06
THE PARK, HULL (Yorkshire), Mr. E. Peak.	12	Oct.	29·783	1·312	64·0	32·0	32·0	56·4	44·1	12·3	50·0	45·5	·304	3·5	0·6	85	541	73·8	42·0	—	—	—	—	—	2·3	—	19	2·02
		Nov.	29·888	1·946	57·0	21·0	36·0	46·0	35·0	11·0	41·0	36·0	·212	2·4	0·6	83	553	57·3	32·9	—	—	—	—	—	2·7	—	18	3·50
		Dec.	29·758	1·710	46·0	5·0	41·0	35·6	24·3	11·3	30·0	—	—	—	—	—	—	44·1	21·5	—	—	—	—	—	2·0	—	22	2·50
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.A.S., F.M.S.	363	Oct.	29·356	1·383	63·0	31·8	31·2	56·2	43·5	12·7	49·2	44·2	·291	3·3	0·8	84	534	94·1	39·2	—	2	3	11	15	—	7·8	25	6·90
		Nov.	29·493	1·859	60·0	27·9	32·1	47·4	36·9	10·5	41·8	37·7	·227	2·6	0·5	86	545	75·8	32·7	—	3	6	4	17	—	7·5	24	5·35
		Dec.	29·372	1·639	49·0	13·0	36·0	36·6	24·9	11·7	31·0	26·2	·143	1·7	0·4	81	555	60·9	20·2	—	14	6	5	6	—	5·9	19	3·95
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	366	Oct.	29·383	1·308	62·0	38·0	24·0	56·2	45·5	10·7	49·6	46·3	·314	3·6	0·5	89	534	68·5	—	1·0	5	4	8	14	—	6·5	19	2·83
		Nov.	29·518	1·446	56·8	25·0	30·8	47·0	37·7	9·3	42·0	38·0	·229	2·6	0·5	86	545	58·4	—	0·8	4	5	8	13	—	6·8	12	2·74
		Dec.	29·395	1·672	49·8	15·0	34·8	36·8	27·8	9·0	32·3	29·0	·159	1·9	0·3	87	554	40·7	—	1·0	12	4	4	11	—	7·3	11	2·64

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1874. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°								in.
LEEDS PHILOSOPHICAL HALL (Yorkshire), Louis C. Miall, Esq.	137	Oct.	29·624	1·291	64·0	37·0	27·0	56·4	44·5	11·9	50·5	47·0	·322	3·6	0·6	89	537	66·0	—	1·1	7	2	6	16	—	7·4	23	2·17
		Nov.	29·779	1·915	60·0	25·0	35·0	46·8	36·5	10·3	42·1	37·4	·224	2·6	0·5	84	550	54·6	—	1·0	7	2	7	14	—	7·3	17	2·67
		Dec.	29·611	1·676	49·0	11·0	38·0	35·5	28·0	7·5	32·8	28·2	·154	2·0	0·3	84	558	43·7	—	1·0	13	3	3	12	—	7·0	20	2·64
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.R.A.S., F.M.S.	146	Oct.	29·573	1·478	64·7	31·9	32·8	55·3	44·5	10·8	49·7	44·1	·290	3·3	0·7	82	537	73·2	33·5	0·8	5	5	9	12	2·6	7·1	24	8·80
		Nov.	29·711	1·782	55·2	27·8	27·4	47·7	39·0	8·7	43·0	39·7	·245	2·8	0·4	88	548	56·6	31·3	0·4	9	6	7	8	1·4	7·2	18	4·54
		Dec.	29·621	1·684	49·0	12·1	36·9	36·2	24·9	11·3	30·3	27·1	·152	1·8	0·2	87	561	38·8	20·1	0·4	12	11	5	3	1·7	4·6	13	2·57
ALLENHEADS (Northumberland), Mr. T. Kidd, Assistant to W. B. Beaumont, Esq., M.P.	1360	Oct.	28·298	1·418	58·5	30·5	28·0	50·5	38·4	12·1	43·6	41·4	·262	3·0	0·4	92	521	74·8	35·9	1·8	3	6	10	12	—	7·0	23	5·72
		Nov.	28·425	1·464	55·5	24·0	31·5	44·3	32·8	11·5	37·6	35·0	·205	2·4	0·4	91	530	64·9	30·8	1·3	7	3	7	13	—	5·8	18	4·52
		Dec.	28·285	1·605	42·5	7·5	35·0	35·5	20·5	15·0	27·0	26·4	·144	1·7	0·1	97	539	57·6	21·9	1·0	9	5	7	10	—	6·4	23	6·76
SILLOTH RECTORY (Cumberland), Rev. Francis Redford, M.A., F.R.A.S., F.M.S.	28	Oct.	29·692	1·551	64·0	31·4	32·6	56·8	43·8	13·0	49·5	44·5	·294	3·4	0·7	84	540	79·9	40·8	1·6	5	3	8	15	10·6	6·4	21	6·51
		Nov.	29·833	1·952	56·9	29·3	27·6	48·2	38·9	9·3	42·8	39·5	·243	2·8	0·4	88	550	64·8	35·2	1·1	6	9	3	12	9·5	6·7	18	3·43
		Dec.	29·753	1·776	48·8	10·5	38·3	35·8	25·8	10·0	30·4	25·0	·134	1·8	0·4	78	563	50·3	23·1	1·0	11	13	1	6	8·7	5·2	13	2·47
CARLISLE (Cumberland), J. Cartmell, Esq., F.M.S.	114	Oct.	29·610	1·519	64·0	29·7	34·3	55·5	41·7	13·8	48·2	43·6	·283	3·3	0·6	85	540	73·3	36·4	2·8	2	4	10	15	6·7	6·4	22	5·12
		Nov.	29·760	1·799	57·5	25·9	31·6	46·8	36·9	9·9	41·5	38·3	·232	2·7	0·3	89	550	55·2	31·3	1·8	4	8	7	11	6·0	7·3	19	3·65
		Dec.	29·664	1·753	49·5	6·9	42·6	35·5	23·4	12·1	29·8	24·4	·137	1·6	0·2	80	562	39·6	18·0	1·2	10	8	6	7	4·3	6·4	8	2·11
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	Oct.	29·590	1·506	64·0	35·0	29·0	57·6	45·4	12·2	50·4	42·6	·275	3·1	0·9	76	537	70·8	37·9	1·6	4	3	7	17	—	5·0	24	2·18
		Nov.	29·750	1·846	64·0	28·0	36·0	48·4	38·3	10·1	42·5	36·0	·216	2·5	0·6	79	549	57·5	30·5	1·3	6	7	5	12	—	6·2	19	4·28
		Dec.	29·637	1·644	46·0	9·0	37·0	36·1	27·0	9·1	31·8	27·2	·148	1·8	0·4	81	559	39·9	20·1	1·4	5	4	7	15	—	6·6	23	5·06
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	Oct.	29·619	1·543	61·8	34·5	27·3	54·8	43·1	11·7	48·0	42·1	·267	3·1	0·7	80	540	—	40·6	1·9	7	3	7	14	—	6·6	16	1·66
		Nov.	29·780	1·743	59·0	28·0	31·0	46·3	37·2	9·1	41·2	36·3	·213	2·5	0·5	83	551	—	35·0	1·4	10	5	3	12	—	6·8	24	3·30
		Dec.	29·666	1·679	50·0	6·8	43·2	37·2	27·3	9·9	32·0	28·0	·153	1·8	0·3	84	560	—	25·8	1·5	13	4	3	11	—	7·0	24	3·79
MILTOWN (Banbridge, Ireland), John Smyth, Esq., jun., M.A., M.I.C.E.I.	200	Oct.	29·390	1·340	59·0	30·0	29·0	54·2	41·4	12·8	47·9	42·3	·270	3·1	0·7	81	536	83·4	36·0	2·0	4	3	16	8	—	5·8	18	3·62
		Nov.	29·559	1·586	57·0	30·0	27·0	49·2	39·3	9·9	44·2	40·9	·256	2·9	0·4	89	543	59·4	35·7	1·5	3	6	11	10	—	5·9	22	3·25
		Dec.	29·480	1·768	50·0	18·0	32·0	39·6	28·6	11·0	34·0	30·1	·168	2·0	0·3	85	554	47·5	24·4	0·8	8	6	6	11	—	5·2	20	3·04

NOTE.—*The Barometer Reading*, Barnstaple, 2nd October, 9h. a.m., 30·400 in., has been altered to 29·400 in.
" Taunton, 28th " 9h. a.m., 29·074 in., " 30·074 in.
" Strathfield Turgiss, 30th November, 9h. a.m., 29·797 in., " 28·797 in.
" Barnstaple, 11th December, 9h. a.m., 29·880 in., " 28·880 in.
" Leeds, 11th " 4h. p.m., 29·505 in., " 28·505 in.

NOTE.—Derby, October, November, and December. No readings of instruments are given, only sums and means, and therefore their accuracy cannot be tested.

Second Rain-gauges are placed—

				October.	November.	December.	Total during the Quarter.
At Portsmouth,	at the height of	20 feet	*above the ground*,	the amount collected was 4·66 inches.	2·42 inches.	3·80 inches.	10·88 inches.
" Strathfield Turgiss,	"	38 feet	"	" 2·45 "	2·10 "	1·11 "	5·66 "
" Eccles (Manchester),	"	34 feet	"	" 3·26 "	4·25 "	2·31 "	9·82 "
" Carlisle,	"	3 feet	"	" 1·46 "	1·02 "	0·14 "	2·62 "
" Miltown (Ireland),	"	40 feet	"	" 3·20 "	2·65 "	2·52 "	8·37 "
" Oxford,	"	22 feet	"	" 3·06 "	2·37 "	1·80 "	7·23 "
" Marlborough College,	"	8 inches	"	" 4·71 "	3·37 "	2·83 "	10·91 "
" "	"	1 foot	"	" 4·66 "	3·30 "	2·72 "	10·68 "
" Cardington,	"	36 feet	"	" 1·50 "	1·80 "	1·40 "	4·70 "
" Nottingham,	"	39 feet	"	" 1·36 "	1·75 "	1·54 "	4·65 "
" Wisbech,	"	8 feet	"	" 1·35 "	2·15 "	1·87 "	5·37 "
" Aldershot Camp,	"	25 feet	"	" 3·79 "	1·82 "	2·10 "	7·71 "

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days on which it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·617	63·0	27·0	36·0	52·4	44·2	23·3	8·2	47·9	43·6	·289	3·2	0·6	85	542	—	—	1·6	8	5	7	10	4·7	6·4	63	18·29
Helston	29·644	68·0	26·0	42·0	56·2	40·2	35·0	16·0	48·0	43·0	·281	3·2	0·7	83	544	64·5	37·1	2·1	10	4	6	11	5·1	5·2	65	17·06
Truro	29·621	63·0	26·0	37·0	53·3	42·6	27·7	10·7	47·5	42·2	·273	3·1	0·6	82	545	—	—	2·4	12	4	5	10	—	7·2	70	16·73
Osborne	29·628	66·9	23·1	43·8	50·3	39·1	30·3	11·2	44·3	41·8	·272	3·1	0·3	91	549	61·4	36·0	0·4	7	5	8	10	—	7·4	53	10·73
Bournemouth	—	63·0	22·0	41·0	49·6	39·8	28·4	9·8	44·7	41·2	·268	3·0	0·5	87	549	—	—	—	10	5	6	10	—	4·6	56	11·79
Portsmouth	29·621	—	17·0	—	—	36·1	—	—	46·8	41·0	·266	3·0	0·7	81	547	—	34·4	1·6	9	6	6	9	1·0	7·0	47	7·57
Hastings	29·638	63·7	24·8	38·9	47·6	40·3	25·9	7·3	43·9	39·9	·253	2·9	0·5	85	547	—	—	1·6	10	6	7	8	—	6·3	47	9·32
Taunton	29·640	65·0	17·0	48·0	52·1	38·0	35·1	14·1	44·7	40·5	·257	3·0	0·5	86	547	58·2	33·0	0·4	10	5	6	12	—	7·3	47	11·07
Salisbury	29·624	68·0	18·5	49·5	50·2	34·1	38·5	16·1	42·1	39·1	·247	2·9	0·4	89	548	73·2	31·8	1·4	11	6	6	8	4·8	7·2	51	14·00
Barnstaple	29·616	64·0	24·0	40·0	52·3	42·2	26·8	10·1	46·9	42·4	·276	3·1	0·6	84	546	—	—	1·4	9	5	7	10	—	4·5	61	7·00
Aldershot Camp	29·590	66·6	13·8	52·8	49·1	36·0	35·7	13·1	41·7	39·8	·255	2·9	0·3	93	545	64·5	31·9	1·6	6	4	8	12	1·9	7·2	50	7·00
Ramsgate	29·629	66·6	18·4	48·2	49·8	39·0	33·1	10·8	44·4	39·7	·252	2·9	0·6	83	547	79·8	36·4	1·3	7	7	9	7	—	6·2	43	5·60
Strathfield Turgiss	29·645	64·3	10·2	54·1	48·1	35·8	36·4	11·3	42·9	39·0	·246	2·8	0·4	88	548	76·3	32·5	0·5	9	7	6	9	3·2	7·2	48	8·00
Weybridge Heath	29·675	70·0	12·8	57·2	47·7	36·5	37·7	11·2	41·6	38·0	·239	2·8	0·5	87	550	62·7	33·4	0·7	7	6	11	6	0·6	6·4	55	11·20
Marlborough College	29·666	61·7	8·8	52·9	47·2	34·7	35·8	12·5	41·0	38·7	·244	2·8	0·3	92	544	65·1	31·1	—	10	4	7	10	—	7·5	39	7·00
Royal Observatory	29·631	69·6	18·5	51·1	48·6	37·0	35·3	11·6	42·3	39·0	·247	2·9	0·3	88	548	66·9	31·0	0·5	6	5	8	11	—	6·8	49	8·00
Streatley Vicarage	29·630	67·5	15·0	52·5	49·7	36·6	37·4	13·1	43·4	39·1	·254	3·0	0·5	85	547	54·7	—	1·6	7	6	8	10	—	7·0	44	7·00
Camden Town	29·638	68·1	18·4	49·7	48·3	37·4	34·4	10·9	42·8	38·9	·245	2·8	0·5	86	549	60·5	35·1	—	11	3	8	9	—	6·6	46	6·00
Chiswick	29·619	67·7	17·0	50·7	50·0	36·0	38·5	14·0	43·0	39·8	·251	2·9	0·4	89	550	67·3	34·0	—	6	6	9	10	—	—	54	7·00
Leicester	29·625	64·6	10·7	53·9	47·2	35·9	33·8	11·3	41·5	37·5	·233	2·7	0·4	87	547	72·0	30·6	0·7	7	6	8	9	—	7·5	45	7·00
Oxford	29·627	63·9	15·0	48·9	48·1	37·0	33·7	11·1	42·4	38·0	·246	2·9	0·4	88	547	74·6	34·3	0·8	6	6	8	10	1·3	7·8	52	8·00
Gloucester	29·667	63·8	11·9	51·9	49·2	37·0	32·3	12·2	43·0	39·9	·256	2·9	0·4	87	549	61·5	34·7	0·5	8	5	8	10	0·1	6·6	45	6·00
Royston	29·632	68·0	13·8	54·2	48·5	35·6	37·6	12·9	41·7	38·3	·241	2·8	0·4	88	547	—	—	—	5	3	12	11	—	6·6	45	7·00
Cardington	29·636	65·6	6·0	59·6	47·9	34·9	37·9	13·0	41·7	37·6	·232	2·7	0·5	88	550	54·0	29·2	1·7	7	5	7	12	—	7·0	57	7·00
Somerleyton Rectory	29·587	67·0	10·0	57·0	48·8	36·2	36·5	12·6	42·3	40·3	·257	2·9	0·3	92	550	—	27·4	1·1	6	4	10	11	4·4	6·4	59	8·00
Norwich	29·583	65·0	10·0	55·0	46·8	36·0	34·8	10·8	41·6	40·1	·259	2·9	0·2	93	551	—	—	—	5	4	10	12	—	—	44	15·00
Wisbech	29·596	66·4	14·0	52·4	47·2	36·2	35·8	11·0	41·3	38·9	·247	2·8	0·5	90	552	70·5	32·4	0·6	6	3	10	12	2·5	6·7	62	15·00
Llandudno	29·591	67·5	21·6	45·9	50·6	40·9	28·1	9·7	45·6	39·2	·245	2·8	0·7	79	545	—	—	0·9	5	5	9	11	—	6·5	—	8·00
Derby	29·590	63·0	16·0	47·0	46·9	37·0	31·7	9·9	41·5	38·4	·240	2·8	0·4	90	548	—	—	—	8	4	5	13	—	—	54	5·00
Nottingham	29·590	68·4	12·1	56·3	47·6	35·0	35·7	12·6	41·0	38·2	·240	2·7	0·3	90	548	64·5	28·1	0·5	8	5	7	10	2·5	7·2	64	7·00
Calcethorpe	29·601	63·0	8·0	55·0	45·5	34·7	33·6	10·8	39·6	36·8	·227	2·6	0·3	90	546	77·8	30·3	1·3	6	3	11	10	5·9	6·8	67	9·00
Hawarden	29·606	61·5	16·5	45·0	46·7	38·9	28·8	7·8	42·2	39·9	·252	2·9	0·4	89	545	56·2	22·2	2·0	8	3	9	11	0·8	6·9	69	9·00
Liverpool	29·595	62·8	17·5	45·3	47·7	38·5	29·2	9·2	42·8	38·1	·235	2·7	0·5	82	546	—	—	1·4	6	7	9	9	—	7·0	58	12·00
Eccles	29·613	66·0	7·3	58·7	47·3	35·2	36·2	12·1	41·3	36·8	·226	2·6	0·5	85	549	50·7	28·6	0·5	8	7	8	8	2·1	7·4	57	10·00
Moorside, Halifax	29·595	64·0	14·6	49·4	45·9	35·9	32·2	10·0	40·4	35·3	·212	2·4	0·6	83	544	62·8	30·2	0·8	8	5	6	12	1·3	7·0	51	10·00
Bermerside ,,	29·622	65·6	14·5	51·1	45·1	35·5	32·6	9·6	39·9	37·2	·227	2·6	0·3	91	543	70·8	32·3	0·7	5	6	8	12	—	6·4	48	5·00
Hull	29·601	64·0	5·0	59·0	46·0	34·5	36·3	11·5	40·3	—	—	—	—	—	—	65·1	32·1	—	—	—	—	—	2·3	—	59	16·00
Stonyhurst	29·587	63·0	13·0	50·0	46·7	35·1	33·1	11·6	40·7	36·0	·220	2·5	0·6	84	545	78·3	30·7	—	6	5	7	13	—	7·1	68	9·00
Bradford	29·598	62·0	15·0	47·0	46·7	37·0	29·9	9·7	41·3	37·8	·234	2·7	0·4	87	544	55·2	—	0·9	7	4	7	13	—	6·9	42	7·00
Leeds	29·598	64·0	11·0	53·0	46·2	36·3	33·3	9·9	41·8	37·5	·233	2·7	0·5	86	548	54·8	—	1·0	9	2	5	14	—	7·2	69	11·00
Cockermouth	29·569	64·7	12·1	52·6	46·4	36·1	32·4	10·3	41·0	37·0	·229	2·6	0·4	86	549	56·2	28·3	0·5	9	7	7	8	1·9	6·3	54	17·00
Allenheads	29·597	58·5	7·5	51·0	43·4	30·6	31·5	12·8	36·1	34·3	·204	2·4	0·3	93	530	65·8	29·5	1·4	6	5	8	12	—	6·4	64	11·00
Silloth	29·566	64·0	10·5	53·5	46·9	36·2	32·8	10·7	40·9	36·3	·224	2·7	0·5	83	551	65·0	33·0	1·2	7	8	4	11	9·6	6·1	52	12·00
Carlisle	29·587	64·0	6·9	57·1	45·9	34·0	36·2	11·9	39·8	35·4	·217	2·5	0·4	85	551	56·0	28·6	1·9	5	7	8	11	5·7	6·7	49	11·00
Bywell	29·542	64·0	9·0	55·0	47·4	36·9	34·0	10·5	41·6	35·3	·213	2·5	0·6	79	548	56·1	29·5	1·4	5	5	6	15	—	5·9	66	8·00
North Shields	—	61·8	6·8	55·0	46·1	35·9	33·8	10·2	40·4	35·5	·211	2·5	0·5	82	550	—	33·8	1·6	10	4	4	12	—	6·8	64	9·00
Miltown (Ireland)	—	59·0	18·0	41·0	47·7	36·4	29·3	11·3	42·0	37·8	·231	2·7	0·5	85	544	63·4	32·0	1·4	5	5	11	10	—	5·6	60	9·00

The highest temperatures of the air were at Weybridge, 70°·0; and the Royal Observatory, 69°·6.

The lowest temperatures of the air were at Hull, 5°·0; Cardington, 6°·0; and North Shields, 6°·8.

The greatest daily ranges of the temperatures of the air were at Salisbury, 16°·1; and Helston, 16°·0.

The least daily ranges of the temperatures of the air were at Hastings, 7°·3; and Hawarden, 7°·8.

The greatest numbers of rainy days were at Truro, 70; Stonyhurst, 68; and Calcethorpe, 67.

The least numbers of rainy days were at the Royal Observatory, 39; and Bradford, 42.

The heaviest falls of rain were at Guernsey, 18·29 inches; Helston, 17·59 inches; and Truro, 17·06 inches.

The least falls of rain were at Nottingham, 5·38 inches; Cardington, 5·50 inches; and Wisbech, 5·68 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days on which it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·617	63·0	27·0	36·0	52·4	44·2	23·3	8·2	47·9	43·6	·289	3·2	0·6	85	542	—	—	1·6	8	5	7	10	4·7	6·4	63	18·29
Between the latitudes 50° and 51°	29·630	65·4	25·0	40·4	51·8	40·5	29·7	11·3	46·1	41·6	·269	3·1	0·6	84	546	65·0	35·8	1·6	11	5	6	9	3·0	6·5	65	17·00
51° and 52°	29·635	66·1	15·1	51·0	49·1	36·8	35·1	12·3	42·8	39·3	·250	2·9	0·4	88	548	66·0	32·8	1·0	8	5	8	10	2·0	6·8	61	16·00
52° and 53°	29·601	66·4	13·0	53·4	48·1	36·5	34·8	11·6	42·1	38·9	·245	2·8	0·4	89	549	63·0	29·3	0·9	6	4	9	12	3·1	6·7	62	17·00
53° and 54°	29·602	63·6	12·2	51·4	46·4	36·2	32·5	10·2	41·0	37·3	·230	2·6	0·5	86	546	63·5	29·6	1·1	7	5	8	11	2·5	7·0	57	12·00
54° and 55°	29·572	63·0	9·2	53·8	46·0	34·8	33·4	11·2	39·9	35·7	·217	2·6	0·4	85	546	59·8	29·8	1·3	6	6	7	12	5·7	6·3	64	15·00
North Shields	—	61·8	6·8	55·0	46·1	35·9	33·8	10·2	40·4	35·5	·211	2·5	0·5	82	550	—	33·8	1·6	10	4	4	12	—	6·8	60	9·00
Miltown, Banbridge (Ireland)	—	59·0	18·0	41·0	47·7	36·4	29·3	11·3	42·0	37·8	·231	2·7	0·5	85	544	63·4	32·0	1·4	5	5	11	10	—	5·6		
Mean for the Quarter, 59° to 55° — Year 1871	29·762	65·0	19·1	45·9	48·5	36·7	31·6	11·8	42·3	38·4	·238	2·7	0·5	87	550	68·1	31·2	0·9	6	6	8	10	3·1	6·2	46	12·00
,, 1872	29·368	63·5	25·6	37·9	50·3	39·6	30·6	10·7	44·7	41·1	·260	3·0	0·4	88	540	64·7	34·1	1·2	5	5	10	10	3·6	6·7	67	17·00
,, 1873	29·714	68·8	22·8	46·0	50·5	39·1	34·0	11·4	44·6	40·8	·256	2·9	0·5	87	546	66·1	33·5	1·0	5	5	8	12	3·2	6·6	45	12·00
,, 1874	29·608	64·9	14·9	50·0	48·3	37·0	33·1	11·3	42·4	38·6	·242	2·8	0·5	86	547	63·1	31·5	1·2	7	5	8	11	5·3	6·7	53	15·00

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING MARCH 31, 1875.

Remarks on the Weather during the Quarter ending March 31st, 1875.

By James Glaisher, Esq., F.R.S., *&c.*

The severe cold period which set in on 21st November 1874, continued to the 1st January 1875, this was followed by a very unusually warm period, beginning on the 2nd day of January and ending on the 30th; the mean daily temperature of these 29 days was 6°¾ in excess over the average of 60 years. On several days the excess over the average was as large as 10°, 11°, and 12°, and during this period the direction of the wind was mostly S.W., or S.S.W., or W.S.W. On the only day within the period, on January 22nd, that the wind was from N.E. and N.W., the mean temperature was 2°¼ below its average. On the last day of January a cold period again set in and continued very nearly to the end of the quarter; the direction of the wind was almost continuously East or a compound of the East till March 24th; the average daily deficiency of temperature for the 54 days ending March 24th was more than 3° daily; on a few days within this period when the direction of the wind was W. or a compound of the west, the temperature was somewhat in excess of the average. From 25th March to the end of the quarter the wind was mostly from a compound of west and the daily temperature was in excess of the average to the amount of 3°¼ daily. Taking into account the very severe weather from 21st November to 1st January, and from 31st January to the end of the quarter, with the long continuance of east wind, this winter has been one of most unusual severity.

The mean temperature of January was 10°·2 higher than in December, that of February was 8°·4 lower than in January; and that of March was 5°·2 higher than in February. (From the preceding 34 years observations the mean temperature of January is lower than that of December by 1°·9; that of February is 0°·9 higher than in January; and March 2°·4 higher than in February).

The mean temperature of January above that of December over the whole country was 9°·8; that of February below that of January was 7°·2; and that of March above that of February was 4°·5.

The mean temperature of the air for January was 43°·4, being respectively 7°·0 and 5°·0 higher than the averages of the preceding 104 years and 34 years; it was 1°·7 and 1°·3 higher than the values in 1874 and 1873 respectively.

Since the year 1771 there have been three Januaries only of higher temperature than 43°·4, viz., in the year 1796 when it was 45°·3; in the year 1834 when it was 44°·4, and in the year 1846 when it was 43°·7, exceeding the value this year by 1°·9 in 1796; by 1°·0 in 1834, and 0°·3 in 1846.

The mean temperature of February was 35°·0, being 3°·6 and 4°·3 lower than the averages of the preceding 104 years and 34 years; it was 3°·7 lower than in 1874, and 0°·7 higher than in 1873.

The temperature of February was low, but since 1771 there have been 17 Februaries of still lower temperature, viz.: In the year—

1771	it was	1°·6	lower	1795	it was	0°·9	lower	1845	it was 2°·3 lower
1772	,,	0°·8	,,	1800	,,	0°·9	,,	1853	,, 1°·7 ,,
1773	,,	0°·1	,,	1814	,,	1°·0	,,	1855	,, 5°·6 ,,
1782	,,	0°·6	,,	1827	,,	3°·4	,,	1858	,, 0°·4 ,,
1784	,,	3°·1	,,	1830	,,	0°·8	,,	1873	,, 0°·7 ,,
1785	,,	4°·6	,,	1838	,,	2°·1	,,		

The mean temperature of March was 40°·2, being 0°·9 lower than the average of the preceding 104 years, and 1°·5 lower than the average of the preceding 34 years; it was 3°·5 and 1°·7 lower than the values in 1874 and 1873 respectively.

The mean high day temperatures of the air were 5°·1 and 2°·9 lower than their respective averages in February and March, and 4°·4 higher in January.

The mean low night temperatures of the air were 5°·9 and 0°·8 higher than their respective averages in January and March, and 2°·3 lower in February.

The mean daily ranges of temperature were all small, and were 1°·4, 2°·7, and 3°·6 lower than their respective averages in January, February, and March.

Therefore the days and nights of February and March were cold, and in January were warm.

The readings of the barometer at 160 feet above the level of the sea were above their averages from the 1st to the 9th of January, with the exception of the 4th, which was 0·07 in. below; they were alternately above and below from the 10th to the end of the month. The highest reading in the month was 30·41 ins. on the 30th, and the lowest 29·19 ins. both on the 24th and 25th, the range of readings being 1·22 in. From the 1st to the 22nd of February the readings of the barometer were all above their averages, with one exception, viz., the 12th, which was 0·08 in. below, the values for the 1st and 16th being as much as 0·41 in. and 0·47 in. in excess; from the 23rd to the end of the month the values were all below their averages. The maximum reading in the month was 30·28 ins. on the 16th, and the minimum 29·14 ins. on the 24th, the range being 1·14 in. In March the readings of the barometer were below their averages from the 1st to the 9th, a little above on the 10th and 11th, again below on the 12th and 13th, but to very small amounts, and from the 14th to the end of the month the values were all above their averages; on the last three days of the month they were no less than 0·51 in., 0·55 in., and 0·60 in. respectively in excess. The highest reading in the month occurred on the 18th, 30·37 ins., and the lowest on the 1st, 29·58 ins.; the range was 0·79 in.

At about London the mean increase of atmospheric pressure from December to January was 0·150 in., from January to February was 0·095 in., and from February to March was 0·097 in. In January, at stations north of Allenheads, there was a decrease of pressure from December to January, and an increase from all stations south of latitude 54°½. In February, there was an increase at all stations amounting to 0·08 in. at stations south of latitude 51°; increasing going northwards to 0·33 in. north of latitude 54°, and in March an increase at all stations not differing much from each other to the mean value of 0.12 in.

The fall of rain in the three months was 4·4 ins.; there was an excess in January of 1·1 in. over the average fall for January, and a deficiency in both February and March below their averages of 1·7 in., and thus a deficiency of 0·6 in. on the quarter; the deficiency of rain in the year 1874 was 5 ins., and in December 1873 was 1·7 in., so that the deficiency of rain from December 1873 to the present time amounts to 7·3 ins.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter, were as follows:—

Direction of Wind.	January.			February.			March.		
	Average.	1875.	Departure from Average.	Average.	1875.	Departure from Average.	Average.	1875.	Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	1½	2	+½	2	2	0	2¾	4	+1¼
N.	3	0	−3	3	3	0	3¾	4	+¼
N.E.	3½	1	−2½	3½	6	+2½	4	8	+4
E.	¾	0	−¾	2½	5	+2½	2½	7	+4½
S.E.	2¼	2	−¼	1½	3	+1½	2¼	2	−¼
S.	4¼	7	+2¾	3	3	0	2½	2	−½
S.W.	9¾	13	+3¼	8	3	−5	7¾	2	−5¾
W.	3¾	6	+2¼	2½	3	+½	3¼	2	−1¼
Calm, nearly.	2¼	0	−2¼	2½	0	−2½	2¼	0	−2¼

The + signs denote excesses over averages; in the month of January the numbers affected with this sign are opposite to the S., S.W., and W. winds, and these were the dominant winds during this month; in the month of February and March, the + signs are exclusively opposite to E. or N. and their compounds, thus showing the prevalence, particularly in March, of these winds.

The — signs denote deficiency below averages; in January this sign is opposite to the N.E. and N. winds, and in both February and March are opposite to the S. and W. winds, thus January in all particulars was the opposite of both February and March.

1875. Months.	Temperature of Air. Mean.	Air. Diff. from average of 104 years.	Air. Diff. from average of 34 years.	Evaporation. Mean.	Evaporation. Diff. from average of 34 years.	Dew Point. Mean.	Dew Point. Diff. from average of 34 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 34 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 34 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 34 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.
Jan. -	43·4	+7·0	+5·0	41·0	+4·0	38·2	+3·2	9·0	−0·6	39·4	0·230	+0·029	2·7	+0·3
Feb. -	35·0	−3·6	−4·3	33·2	−4·4	30·3	−4·7	9·8	−1·5	38·9	0·168	−0·038	2·0	−0·4
Mar. -	40·2	−0·9	−1·5	37·4	−2·0	33·8	−2·7	12·5	−2·2	41·3	0·194	−0·023	2·3	−0·2
Means -	39·5	+0·8	−0·3	38·6	+0·6	34·1	−1·4	10·4	−1·4	39·9	0·221	+0·013	2·5	−0·1

1875. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 34 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 34 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 34 years.	Rain. Amount.	Rain. Diff. from average of 60 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
Jan. -	81	−7	29·762	+0·023	548	−5	3·0	+1·1	339	5	18	8	15·5	42·5
Feb. -	82	+3	29·857	+0·060	559	+6	0·8	−0·7	246	21	6	1	13·5	41·0
Mar. -	78	−4	29·954	+0·204	555	+5	0·6	−1·0	309	20	7	4	17·1	46·5
Means -	80	−2	29·858	+0·096	554	+2	Sum 4·4	Sum −0·6	Mean 298	Sum 46	Sum 31	Sum 13	Lowest 13·5	Highest 46·5

NOTE.—In reading this table it will be borne in mind that the minus sign (−) signifies below the average, and that the plus sign (+) signifies above the average.

Thunderstorms occurred, on the 17th of January at Leicester, Royston, and Liverpool; on the 19th at Helston; on the 20th at Guernsey, Salisbury, Halifax, Leeds, Cockermouth, Silloth, and Carlisle; on the 21st at Osborne; on the 23rd at Guernsey and Helston; on the 24th at Guernsey, Helston, Truro, Osborne, and Hastings; and on the 25th at Marlborough, Streatley, and Oxford. On the 25th of February at Osborne.

Thunder was heard, but lightning was not seen, on 20th of January at Strathfield Turgiss; on the 24th at Oxford; and on the 26th at Carlisle. On the 27th of March at Royston.

Lightning was seen, but thunder was not heard, on the 20th of January at Portsmouth, Hastings, Liverpool, and Halifax; on the 21st at Hastings; on the 22nd at Cardington; on the 24th at Portsmouth, Salisbury, Strathfield Turgiss, Weybridge Heath, Marlborough, Blackheath, Streatley, Gloucester, Cardington, Somerleyton, and Wisbech; and on the 25th at Portsmouth, Taunton, Strathfield Turgiss, and Gloucester. On the 16th of February at Hull; and on the 25th at Portsmouth.

Solar halos were seen on the 14th of January at Halifax and Hull; on the 17th and 19th at Halifax; on the 20th at Hastings; on the 22nd at Hull; on the 26th at Calcethorpe; on the 29th at Halifax; and on the 30th at Calcethorpe. On the 2nd of February at Strathfield Turgiss and Oxford; on the 3rd at Halifax; on the 16th at Calcethorpe and Halifax; and on the 26th at Strathfield Turgiss and Wisbech. On the 10th of March at Halifax; on the 14th at Hastings; on the 15th at Wisbech; on the 19th at Oxford; on the 23rd at Wisbech; and on the 25th at Calcethorpe and Hull.

Lunar halos were seen on the 13th of January at Hastings; on the 14th at Calcethorpe; on the 15th at Oxford; on the 17th at Wisbech; on the 18th at Silloth and North Shields; on the 20th at Leicester, Oxford, Wisbech, and Calcethorpe; on the 22nd at Portsmouth, Oxford, Wisbech, Calcethorpe, Eccles, and North Shields; and on the 23rd at Silloth. On the 12th of February at Wisbech; on the 15th at Eccles, Halifax, Silloth, and North Shields; and on the 16th at Oxford and Halifax. On the 14th of March at Hastings and Salisbury, on the 15th at Hastings; on the 18th at Hastings, Salisbury, Weybridge Heath, and Oxford; on the 20th at Halifax and Stonyhurst; on the 23rd at Weybridge Heath; and on the 24th at Oxford.

Auroræ boreales were seen on the 4th of March at Cardington.

Snow fell on the 1st of January at Guernsey, Salisbury, Strathfield Turgiss, Marlborough, Oxford, Gloucester, Calcethorpe, Hawarden, Eccles, Halifax, Stonyhurst, Bradford, Cockermouth, and North Shields; on the 20th at Allenheads; on the 21st at Strathfield Turgiss, Marlborough, Halifax, Stonyhurst, Allenheads, Silloth, Bywell, and North Shields; on the 22nd at Calcethorpe, Eccles, Hull, Stonyhurst, Allenheads, Bywell, and North Shields; on the 23rd at Hawarden, Liverpool, Halifax, Bradford, Allenheads, and North Shields; on the 24th at Allenheads; on the 25th at Halifax, Stonyhurst, and North Shields; on the 26th at Eccles, Halifax, Stonyhurst, Allenheads, Silloth, Bywell, and North Shields; and on the 29th at Allenheads. On the 3rd of February at Halifax; on the 4th at Somerleyton and Calcethorpe; on the 6th at Halifax and Stonyhurst; from the 7th to the 11th generally; and from the 18th of February to the 18th of March, with the exception of 3 days it fell very generally over the whole country. On the 20th of March at Hastings, Royston, and Somerleyton; on the 21st at Hastings and Stonyhurst; on the 26th at Allenheads; on the 27th at Calcethorpe and Allenheads; on the 28th at Hastings, Royston, Hull, Allenheads, and North Shields.

Hail fell on the 1st of January at Guernsey, Portsmouth, Gloucester, and Eccles; on the 2nd and 4th at Oxford; on the 17th at Leicester and Liverpool; on the 19th at Helston; on the 20th at Guernsey, Hastings, Salisbury, Cockermouth, Silloth, and Carlisle; on the 22nd at Streatley, Hawarden, Liverpool, and Eccles; on the 23rd at Guernsey and Helston; on the 24th at Guernsey, Helston, Truro, Portsmouth, Leicester, Royston, Hawarden, and Cockermouth; and on the 25th at Portsmouth and Marlborough. On the 3rd of February at Halifax; on the 8th and 9th at Taunton; on the 10th and 11th at Hastings; on the 17th at Guernsey, Cardington, and Hull; on the 18th at Guernsey, Hastings, Taunton, Salisbury, Aldershot Camp, Marlborough, Blackheath, Oxford, Gloucester, Royston, Norwich, Wisbech, Calcethorpe, Hull, and North Shields; on the 19th at Guernsey, Hastings, Taunton, Salisbury, Somerleyton, and Hull; on the 20th at Taunton and Salisbury; on the 21st at Guernsey; on the 24th at Guernsey, Taunton, and Hull; on the 25th at Osborne and Taunton; on the 26th at Truro; on the 27th at Guernsey; and on the 28th at Hull. On the 1st of March at Guernsey, Somerleyton, and Hull; on the 2nd at Guernsey; on the 7th at Allenheads; on the 11th at Calcethorpe; on the 12th at Eccles, Hull, and Bywell; on the 13th and 16th at Guernsey; on the 17th at Cardington; on the 18th at Oxford, Halifax, Hull, and Bywell; on the 20th at Wisbech, Calcethorpe, and Hull; on the 26th at Allenheads; on the 27th at Weybridge Heath, Streatley, Halifax, Hull, Cockermouth, Bywell, and North Shields; and on the 28th at Somerleyton.

Fog prevailed at one or other station on 17 days in January, viz., 1st, 3rd, 4th, 5th, 7th, 8th, 9th, 10th, 11th, 12th, 13th, 14th, 16th, 23rd, 26th, and 27th. On 19 days in February, viz., 1st, 2nd, 3rd, 5th, 6th, 7th, 8th, 10th, 11th, 12th, 13th, 14th, 15th, 16th, 18th, 19th, 22nd, 23rd, and 25th. And in March on 10 days, viz., 3rd, 4th, 5th, 10th, 12th, 15th, 16th, 19th, 24th, and 31st.

Leaf buds first appeared on the Sycamore on the 22nd of January at Llandudno; and on the 27th at Portsmouth. On the 12th of March at Strathfield Turgiss; on the 20th at Guernsey; and on the 28th at Carlisle.

Leaf buds first appeared on the Horsechestnut on the 18th of February at Portsmouth. On the 8th of March at Helston; on the 25th at Guernsey; and on the 29th at Strathfield Turgiss.

Leaf buds first appeared on the Common Poplar on the 27th of January at Portsmouth.

Leaf buds first appeared on the Hawthorne on the 20th of March at Carlisle. (*In leaf*), on the 8th of March at Helston; and on the 31st at Guernsey.

Leaf buds first appeared on the Hazel on the 4th of March at Helston.

Leaf buds first appeared on the Walnut on the 18th of February at Portsmouth.

Pear in blossom on the 22nd of March at Helston.

Peach in blossom on the 10th of March at Helston; on the 27th at Oxford; on the 29th at Guernsey; and on the 30th at Wisbech.

Plum in blossom on the 30th of March at Guernsey and Strathfield Turgiss.

Apricot in blossom on the 14th of March at Wisbech.

Woodcock last seen at Strathfield Turgiss on the 20th of February.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING MARCH 31ST, 1875.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the fifth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1875. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.M.S.	204	Jan.	29·758	1·285	53·5	27·0	26·5	50·3	43·4	6·9	46·7	44·6	·297	3·4	0·3	93	544	—	—	1·8	2	6	14	9	5·0	6·8	23	5·65
		Feb.	29·783	1·229	52·0	30·0	22·0	43·9	36·6	7·3	39·9	36·7	·217	2·5	0·4	89	532	—	—	1·2	9	10	5	4	4·0	7·2	16	3·26
		Mar.	29·916	0·930	58·5	32·0	26·5	47·8	39·2	8·6	42·4	38·6	·240	2·7	0·4	87	532	—	—	1·6	12	8	4	7	4·5	5·3	8	0·67
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	Jan.	29·800	1·382	58·0	32·0	26·0	53·4	44·6	8·8	49·2	45·9	·309	3·7	0·5	88	542	56·5	43·4	2·4	2	4	15	10	5·2	7·1	26	6·96
		Feb.	29·844	1·202	58·0	28·0	30·0	49·9	37·0	12·9	43·4	36·2	·214	2·7	1·6	81	550	60·0	36·0	2·0	8	12	4	4	3·7	6·9	15	2·52
		Mar.	29·982	1·034	64·0	30·0	34·0	52·7	38·4	14·3	44·6	38·1	·230	2·9	0·8	78	551	69·3	35·7	2·2	11	12	4	4	3·5	5·6	9	0·99
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	Jan.	29·847	1·488	55·0	37·0	18·0	52·3	45·4	6·9	48·8	46·1	·314	2·6	0·4	91	543	—	—	3·1	1	5	13	12	—	8·6	29	7·98
		Feb.	29·975	1·180	54·0	28·0	26·0	46·2	37·2	9·0	41·0	36·0	·211	2·4	0·6	83	554	—	—	1·9	8	11	5	4	—	7·9	15	2·45
		Mar.	30·096	1·073	56·0	26·0	30·0	50·0	38·2	11·8	43·3	38·1	·229	2·6	0·6	81	555	—	—	2·5	13	9	3	6	—	6·9	10	1·39
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	Jan.	29·756	1·436	53·1	26·6	26·5	49·1	40·1	9·0	44·5	43·2	·279	3·2	0·1	96	547	58·6	37·6	0·3	1	6	15	9	—	8·1	20	4·30
		Feb.	29·833	1·262	53·2	24·8	28·4	41·7	30·8	10·9	36·0	34·8	·203	2·4	0·1	96	558	56·5	28·9	0·1	9	11	4	4	—	7·1	10	2·74
		Mar.	29·953	0·916	58·9	28·9	30·0	48·8	34·1	14·7	40·9	37·3	·222	2·7	0·4	87	554	77·5	33·0	0·1	10	11	3	7	—	6·0	8	0·69
BOURNEMOUTH (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	128	Jan.	29·927	1·380	54·0	27·3	26·7	48·6	40·7	7·9	45·0	41·8	·266	3·0	0·6	89	549	—	—	—	1	3	14	13	—	5·3	20	4·26
		Feb.	30·064	0·960	50·9	27·7	23·2	41·8	32·3	9·5	36·4	33·8	·195	2·3	0·3	89	562	—	—	—	11	12	3	2	—	5·7	9	2·48
		Mar.	30·171	0·860	55·4	30·0	25·4	47·5	36·4	11·1	41·3	34·6	·202	2·4	0·6	78	558	—	—	—	13	11	2	5	—	4·7	7	1·08
PORTSMOUTH, William C. Ellis, Esq.	16	Jan.	29·914	1·423	—	25·0	—	—	37·7	—	45·9	41·7	·265	3·1	0·5	86	547	—	36·7	1·3	2	4	14	11	1·2	7·9	23	3·98
		Feb.	29·998	1·183	—	21·8	—	—	28·5	—	37·5	33·9	·195	2·2	0·4	87	559	—	27·5	1·0	9	12	4	3	2·3	7·3	18	2·73
MANOR HOUSE (Hastings), Alex. E. Murray, Esq., F.M.S.	167	Jan.	29·794	1·378	50·1	23·4	26·7	46·7	40·4	6·3	43·7	41·1	·258	3·0	0·3	90	548	—	—	1·7	2	2	17	10	—	7·5	21	4·01
		Feb.	29·840	1·170	49·5	25·5	24·0	40·1	32·6	7·5	36·2	32·0	·182	2·1	0·4	85	558	—	—	1·4	12	9	4	3	—	6·7	14	0·95
		Mar.	29·955	0·835	54·6	26·9	27·7	45·5	35·6	9·9	40·0	34·5	·200	2·3	0·6	81	556	—	—	1·9	14	7	4	6	—	7·8	9	0·86
TAUNTON (Somerset), James Bottomley, Esq.	80	Jan.	29·826	1·592	56·0	9·0	47·0	50·9	40·4	10·5	45·9	42·9	·277	3·2	0·4	90	547	52·8	37·9	0·8	1	4	6	20	6·7	8·0	21	3·15
		Feb.	29·959	1·242	56·0	22·1	33·9	44·2	30·8	13·4	36·8	35·4	·204	2·4	0·2	95	561	48·9	29·4	0·3	5	14	3	6	2·6	8·0	8	2·22
		Mar.	30·080	1·052	58·1	25·1	33·0	48·0	36·0	12·0	41·7	37·0	·222	2·6	0·4	85	556	56·0	32·6	0·5	9	12	4	6	4·0	8·0	5	1·10
WILTON HOUSE (near Salisbury), T. Challis, Esq.	186	Jan.	29·724	1·508	54·5	13·0	41·5	49·8	36·4	13·4	43·6	41·4	·262	3·0	0·3	92	547	67·3	34·6	1·6	3	4	11	13	5·2	8·0	23	5·61
		Feb.	29·822	1·168	55·5	20·0	35·5	42·4	27·6	14·8	35·2	32·6	·186	2·2	0·3	90	559	65·6	26·2	1·2	6	15	4	3	4·0	8·2	9	2·56
		Mar.	29·952	0·914	60·0	25·0	35·0	50·1	32·3	17·8	41·1	37·5	·225	2·6	0·4	89	554	82·3	30·6	1·6	13	10	3	5	3·1	8·5	6	1·54
BARNSTAPLE (Devon), T. Mackrell, Esq.	43	Jan.	29·838	1·570	57·0	27·5	29·5	51·7	44·0	7·7	47·8	44·9	·298	3·3	0·4	90	544	—	—	1·3	0	4	19	8	—	5·3	26	5·79
		Feb.	29·988	1·230	53·0	30·0	23·0	44·8	35·5	9·3	39·5	36·5	·216	2·6	0·3	90	557	—	—	1·1	7	10	7	4	—	5·8	8	1·79
		Mar.	30·101	1·090	57·0	29·0	28·0	50·0	39·4	10·6	43·8	38·8	·236	2·8	0·5	82	554	—	—	1·3	9	9	4	9	—	7·8	8	1·23
ALDERSHOT CAMP (Hants), John Arnold, Esq., M.S.C., F.M.S.	325	Jan.	29·566	1·520	52·2	14·0	38·2	48·1	38·2	9·9	43·0	40·3	·252	2·6	0·4	91	545	67·0	34·8	1·7	2	4	14	11	1·8	7·8	21	4·53
		Feb.	29·674	1·268	55·0	21·6	33·4	41·0	29·5	11·5	34·3	33·5	·192	2·3	0·1	96	557	68·1	24·9	1·4	9	8	6	5	1·9	8·1	9	3·05
		Mar.	29·768	0·830	58·0	26·0	32·0	48·9	34·1	14·8	39·8	33·8	·195	2·2	0·6	79	552	79·6	30·3	1·7	12	8	3	8	1·8	7·4	6	0·64
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	Jan.	29·728	1·699	53·3	10·3	43·0	47·8	37·9	9·9	43·6	40·9	·256	3·0	0·2	90	547	69·5	34·2	0·6	2	5	11	13	4·5	7·4	22	3·72
		Feb.	29·834	1·250	51·2	23·0	28·2	40·3	30·3	10·0	35·2	32·6	·185	2·2	0·2	90	559	59·0	28·0	0·6	9	10	5	4	2·1	8·0	15	2·58
		Mar.	29·938	0·918	57·2	26·8	30·4	48·6	35·2	13·4	41·1	35·5	·208	2·4	0·6	81	554	82·3	30·2	0·7	13	10	1	7	4·0	6·6	7	0·74

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1875. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	Jan.	29·801	1·457	53·8	15·0	38·8	47·5	38·6	8·9	43·2	40·8	·255	2·9	0·3	90	549	58·0	35·7	1·0	3	6	14	8	1·4	7·4	23	3·76
		Feb.	29·901	1·118	51·0	20·0	31·0	40·3	30·5	9·8	35·2	32·4	·184	2·1	0·3	90	560	55·9	26·0	0·8	10	7	8	3	0·7	7·7	11	1·29
		Mar.	30·009	0·895	60·0	27·3	32·7	47·9	34·3	13·6	40·7	35·4	·207	2·4	0·5	82	556	71·5	31·7	0·9	9	11	7	4	0·7	7·9	7	0·56
MARLBOROUGH, GREEN, (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	474	Jan.	29·402	1·497	52·7	28·9	23·8	47·6	39·5	8·1	43·7	41·2	·260	3·0	0·3	90	541	64·1	37·3	0·9	1	3	13	14	—	8·3	24	4·53
		Feb.	29·528	1·176	52·4	23·6	28·8	40·0	30·8	9·2	34·8	31·9	·179	2·1	0·2	89	554	64·5	29·4	0·5	4	16	3	5	—	6·7	13	2·13
		Mar.	29·633	0·926	55·2	27·7	27·5	46·9	34·5	12·4	40·5	36·0	·212	2·5	0·4	84	549	84·5	31·3	—	8	12	2	9	—	6·6	8	1·33
BLACKHEATH (London), James Glaisher, Esq., F.R.S.	159	Jan.	29·762	1·437	54·1	19·8	34·3	47·8	39·6	8·2	43·8	40·7	·255	2·9	0·3	89	548	62·9	37·1	0·7	2	3	13	13	—	7·2	22	3·11
		Feb.	29·857	1·210	50·7	26·6	24·1	40·4	31·8	8·6	35·5	33·7	·196	2·2	0·3	93	559	63·9	29·6	0·8	7	10	6	5	—	8·2	16	0·95
		Mar.	29·954	0·897	57·0	28·6	28·4	47·1	36·0	11·1	40·7	35·9	·211	2·4	0·5	81	555	76·3	32·1	0·9	8	10	4	9	—	7·5	9	0·70
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.A.S., F.M.S.	150	Jan.	29·735	1·594	54·3	14·9	39·4	48·3	39·9	8·4	45·2	40·2	·267	3·1	0·6	84	546	51·6	—	1·2	4	2	12	13	—	7·8	22	4·25
		Feb.	29·892	1·265	52·7	22·4	30·3	41·6	30·2	11·4	35·6	34·4	·197	2·3	0·2	94	560	46·6	—	1·1	9	11	4	4	—	8·1	13	2·11
		Mar.	29·496	0·900	58·2	27·8	30·4	48·2	35·2	13·0	41·5	35·8	·228	2·7	0·6	82	555	54·6	—	1·3	13	9	3	6	—	7·6	8	1·11
CAMDEN TOWN (London), G. J. Symons, Esq., F.M.S.	123	Jan.	29·805	1·563	53·8	20·7	33·1	48·2	39·2	9·0	43·2	41·9	·267	3·0	0·3	95	549	54·5	33·2	—	2	3	11	15	—	7·0	23	3·22
		Feb.	29·905	1·161	51·2	25·1	26·1	40·8	31·0	9·8	34·5	33·1	·190	2·2	0·2	95	561	54·4	29·6	—	10	7	5	6	—	7·5	16	1·06
		Mar.	30·018	0·949	59·5	27·1	32·4	48·3	35·3	13·0	41·7	35·7	·209	2·4	0·6	80	555	71·3	33·3	—	14	6	3	8	—	7·6	11	0·69
CHISWICK (Middlesex), Prof. Thiselton Dyer, M.A., B.Sc., F.L.S.	25	Jan.	29·903	1·486	56·5	21·0	35·5	49·2	39·4	9·8	44·5	41·2	·259	2·9	0·3	88	549	65·1	33·9	—	3	4	14	10	—	—	20	3·49
		Feb.	29·291	1·228	52·0	24·5	27·5	41·6	30·1	11·5	35·5	34·5	·200	2·3	0·2	98	561	61·6	27·1	—	8	9	6	5	—	—	12	1·02
		Mar.	30·113	0·898	58·7	27·7	31·0	47·9	35·0	12·9	41·0	37·2	·225	2·6	0·4	86	557	81·5	31·2	—	10	10	4	7	—	—	9	0·61
TOWN MUSEUM (Leicester), W. J. Harrison, Esq.	245	Jan.	29·603	1·622	54·8	10·7	44·1	46·5	38·0	8·5	42·4	39·8	·245	2·9	0·3	90	546	62·0	33·4	1·4	1	4	16	10	—	8·2	22	2·60
		Feb.	29·770	1·126	53·1	25·6	27·5	39·9	31·9	8·0	35·5	31·7	·179	2·0	0·4	86	557	62·5	28·1	0·8	8	10	6	4	—	8·4	14	1·02
		Mar.	29·887	1·017	56·3	26·8	29·5	45·6	35·3	10·3	40·1	32·5	·185	2·3	0·6	78	555	81·1	31·4	1·1	11	10	5	5	—	8·5	10	0·64
OXFORD (Oxfordshire), Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	Jan.	29·674	1·553	55·1	29·9	25·2	48·7	40·9	7·8	44·6	41·3	·260	2·9	0·4	88	545	70·4	38·2	1·1	0	4	16	11	1·4	8·6	24	3·57
		Feb.	29·797	1·198	54·8	25·0	29·8	40·0	31·2	8·8	35·5	35·0	·189	2·2	0·3	90	558	62·2	29·9	0·8	8	11	6	3	2·0	8·6	13	1·45
		Mar.	29·916	0·948	59·2	27·8	31·4	47·4	36·3	11·1	42·0	34·6	·203	2·3	0·8	76	555	84·8	33·5	1·0	11	10	3	7	2·9	8·4	9	1·08
GLOUCESTER (Gloucester), E. Toller, Esq., M.D.	100	Jan.	29·834	1·648	54·3	16·4	37·9	49·3	40·4	8·9	44·9	41·9	·265	3·0	0·4	90	548	58·4	38·4	0·6	2	1	13	15	0·6	7·3	21	4·06
		Feb.	29·997	1·197	53·7	24·4	29·3	45·2	31·4	13·8	37·0	34·8	·202	2·3	0·3	92	560	58·6	30·5	0·4	8	9	5	6	1·1	7·4	11	1·59
		Mar.	30·093	1·064	61·5	25·4	36·1	49·3	31·7	17·6	40·2	34·2	·198	2·3	0·1	80	558	78·2	32·0	0·5	11	10	5	5	1·4	6·9	7	0·90
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	Jan.	29·614	1·588	55·0	8·7	46·3	47·5	36·5	11·0	42·3	38·8	·226	2·7	0·4	88	547	—	—	—	1	3	17	10	—	6·7	17	2·09
		Feb.	29·783	1·136	52·2	18·5	33·7	41·4	29·3	12·1	35·0	30·8	·172	2·0	0·4	84	558	—	—	—	10	7	5	6	—	8·0	11	0·75
		Mar.	29·889	0·923	57·8	21·4	36·4	47·4	32·7	14·7	39·5	33·8	·194	2·3	0·6	80	555	—	—	—	15	8	3	5	—	7·7	9	0·47
CARDINGTON (near Bedford), Mr. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	105	Jan.	29·797	1·616	55·0	9·0	46·0	47·1	37·0	10·1	42·4	40·2	·251	2·9	0·4	91	550	49·0	31·8	1·6	1	3	16	11	—	7·2	19	2·30
		Feb.	29·944	1·156	53·4	22·0	31·4	40·9	29·9	11·0	35·0	33·4	·192	2·2	0·2	94	561	49·2	22·2	1·5	9	8	4	7	—	8·1	12	1·00
		Mar.	30·041	0·910	59·0	23·6	35·4	47·4	34·0	13·4	40·0	36·8	·218	2·5	0·4	89	557	64·5	28·0	2·5	12	12	3	4	—	7·2	6	0·50
ST. DAVID'S COLLEGE, LAMPETER (Cardiganshire), Prof. A. W. Scott.	420	Jan.	29·412	1·446	59·0	29·5	29·5	51·3	38·6	12·7	45·1	40·9	·255	2·9	0·5	86	540	62·2	—	0·7	1	0	19	11	—	9·6	27	5·91
		Feb.	29·597	1·214	48·5	20·0	28·5	42·9	31·1	11·8	36·9	34·7	·201	2·4	0·3	91	553	58·2	—	—	9	8	8	3	—	—	8	1·56
		Mar.	29·746	1·200	61·0	23·0	38·0	48·9	33·0	15·9	40·3	36·7	·218	2·5	0·4	88	551	80·3	—	—	9	10	3	9	—	—	10	1·79
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	50	Jan.	29·857	1·544	53·0	17·5	35·5	48·1	36·2	11·9	41·7	40·9	·256	3·0	0·1	97	552	—	26·2	1·2	3	2	15	11	6·0	6·9	16	1·87
		Feb.	29·991	1·068	51·3	23·7	27·6	40·2	30·9	9·3	35·3	34·4	·200	2·2	0·1	96	562	—	22·8	1·0	8	11	5	4	5·1	7·3	15	1·12
		Mar.	30·082	0·894	61·0	28·7	32·3	47·4	34·2	13·2	40·2	36·8	·218	2·5	0·4	89	558	—	24·2	1·2	8	12	4	7	4·7	6·3	11	0·53
NORWICH (Norfolk), John Quinton, Esq., Jun.	42	Jan.	29·860	1·590	55·0	10·5	44·5	45·8	35·7	10·1	40·9	40·2	·249	2·9	0·5	98	553	—	—	—	1	7	15	8	—	—	19	2·26
		Feb.	30·008	1·040	50·5	23·5	27·0	38·4	30·5	7·9	34·3	34·3	·199	2·3	0·1	100	563	—	—	—	5	13	3	7	—	—	12	1·26
		Mar.	30·096	0·218	57·2	28·5	28·7	45·3	34·1	11·2	39·2	37·1	·222	2·6	0·3	93	550	—	—	—	10	10	4	7	—	—	8	0·44

Names of Stations and Observers.	Height of Station above Sea Level.	Months.	Year 1875. Pressure of Atmosphere in Month. Mean.	Range.	Temperature of Air in Month. Highest.	Lowest.	Range.	Mean of all Highest.	Mean of all Lowest.	Mean Daily Range.	Mean Temperature. Air.	Dew Point.	Vapour. Elastic Force.	In a cubic foot of Air. Mean.	Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Minimum on Grass.	Wind. Estimated Strength.	Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
WISBECH (Cambridgeshire), S. H. Miller, Esq., F.R.A.S., F.M.S.	14	Jan.	29·864	1·626	54·1	11·8	42·3	46·6	37·1	9·5	41·6	39·3	·242	2·8	1·3	93	552	61·7	32·7	0·7	2	6	15	8	5·0	7·4	19	2·05
		Feb.	30·041	1·104	52·0	24·5	27·5	40·6	31·8	8·8	35·3	32·9	·189	2·1	0·3	91	563	68·1	28·3	0·5	10	8	4	6	2·4	7·2	14	1·21
		Mar.	30·128	0·848	59·0	27·0	32·0	48·2	34·8	13·4	40·3	35·6	·208	2·4	0·4	84	559	89·5	29·5	0·7	14	8	3	6	3·0	7·2	9	0·44
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	100	Jan.	29·674	1·660	61·8	25·7	36·1	51·6	41·2	10·4	46·2	41·5	·263	3·1	0·5	85	543	–	–	0·8	2	2	16	11	–	7·4	21	3·03
		Feb.	29·952	1·086	55·5	29·5	26·0	43·1	35·8	7·3	39·3	35·8	·211	2·4	0·4	88	556	–	–	1·0	5	11	7	5	–	7·0	16	2·14
		Mar.	30·055	1·180	56·6	30·9	25·7	48·0	37·8	10·2	42·5	36·9	·220	2·5	0·6	81	555	–	–	1·0	4	10	6	11	–	7·4	9	0·89
NOTTINGHAM (Notts), M.O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	183	Jan.	29·640	1·540	54·5	12·0	42·5	42·9	36·6	6·3	40·6	37·4	·224	2·6	0·4	89	549	56·5	29·1	0·7	1	6	15	9	3·6	8·0	26	2·70
		Feb.	29·852	1·070	52·7	21·8	30·9	40·2	30·3	9·9	35·0	33·1	·190	2·2	0·2	93	559	56·3	25·5	0·6	7	10	5	6	1·6	7·9	18	1·10
		Mar.	29·934	0·926	57·2	28·1	29·1	46·2	34·6	11·6	39·7	33·9	·195	2·3	0·6	89	556	72·3	27·8	0·7	9	13	3	6	2·4	7·8	19	0·57
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	39	Jan.	29·812	1·384	54·8	7·2	47·6	46·5	32·2	14·3	41·3	37·5	·225	2·6	0·4	87	552	58·6	31·0	1·7	1	3	18	9	–	7·3	20	1·70
		Feb.	29·987	1·048	51·8	23·2	28·6	40·3	28·3	12·0	34·6	31·4	·177	2·1	0·3	88	563	68·8	25·9	1·6	5	10	7	6	–	8·7	11	1·68
		Mar.	30·062	0·930	53·6	20·0	38·6	45·2	30·2	15·0	38·2	33·0	·183	2·2	0·5	82	560	87·8	27·9	1·9	11	8	5	7	–	7·8	13	0·77
CALCETHORPE MANOR (near) Louth (Lincolnshire), D. Grant Briggs, Esq., F.M.S.	382	Jan.	29·438	1·714	52·1	7·0	45·1	44·3	35·3	9·0	39·9	37·6	·225	2·7	0·2	92	546	67·0	32·2	1·4	2	3	15	11	6·6	7·4	23	2·19
		Feb.	29·647	1·034	51·0	23·3	27·7	38·2	31·4	6·8	34·4	31·2	·175	2·0	0·3	87	556	65·8	28·5	1·2	8	10	4	6	6·6	8·0	16	1·38
		Mar.	29·730	1·068	55·8	27·9	27·9	43·8	33·8	10·0	38·3	34·3	·198	2·3	0·4	86	554	85·7	30·3	1·2	12	8	4	7	7·4	8·0	14	0·65
HAWARDEN (Flint), T. Moffat, Esq., M.D., F.R.A.S.	270	Jan.	29·485	1·808	58·5	17·0	41·5	47·5	39·3	8·2	43·4	–	–	–	–	–	–	52·3	24·8	2·0	5	1	18	7	0·8	7·3	27	3·06
		Feb.	29·760	1·112	54·0	28·0	26·0	40·7	33·5	7·2	36·6	34·1	·198	2·2	0·3	92	556	52·4	19·2	1·5	5	8	9	6	0·3	7·2	16	1·89
LIVERPOOL OBSERVATORY, John Hartnup, Esq., F.R.A.S.	197	Jan.	29·572	1·783	55·4	18·0	37·4	47·2	38·9	8·3	43·3	39·4	·239	2·8	0·4	85	545	–	–	1·5	0	9	13	9	–	7·6	24	3·00
		Feb.	29·837	1·091	54·9	27·1	27·8	41·2	33·6	7·6	37·0	33·4	·191	2·2	0·4	87	557	–	–	1·1	6	12	5	5	–	7·6	12	1·56
		Mar.	29·905	1·095	55·0	29·5	25·5	44·7	36·3	8·4	40·0	34·0	·196	2·3	0·6	79	555	–	–	1·3	4	10	6	11	–	6·8	12	0·65
ECCLES (near Manchester), T. Mackereth, Esq., F.R.A.S., F.M.S.	145	Jan.	29·664	1·690	57·0	12·8	44·2	47·7	37·2	10·5	42·8	39·3	·240	2·8	0·4	87	546	49·1	30·3	0·4	1	7	16	7	2·6	7·5	24	3·47
		Feb.	29·904	1·102	51·2	23·3	27·9	41·3	31·8	9·5	36·6	32·5	·184	2·1	0·4	86	559	45·1	26·3	0·1	7	10	6	5	2·4	8·2	12	0·83
		Mar.	29·997	1·102	57·5	25·1	32·4	47·3	33·8	13·5	40·2	35·4	·207	2·4	0·7	83	556	55·6	27·8	0·3	8	10	5	8	2·9	7·5	13	0·78
MOOR SIDE OBSERVATORY, HALIFAX (Yorkshire), Louis J. Crossley, Esq., F.R.A.S.	429	Jan.	29·327	1·654	53·8	12·0	41·8	46·6	36·8	9·8	41·6	37·0	·220	2·6	0·4	85	542	55·0	33·2	0·9	3	6	11	11	2·5	7·8	23	5·49
		Feb.	29·560	1·043	51·5	26·2	25·3	39·4	32·2	7·2	33·1	31·3	·176	2·1	0·1	93	556	51·7	29·2	0·7	6	13	3	6	1·0	9·5	12	1·24
		Mar.	29·644	0·967	54·6	26·3	28·3	44·8	34·6	10·2	38·2	35·3	·206	2·4	0·3	89	552	67·5	31·3	1·0	7	12	3	9	2·8	8·5	13	0·68
BERMERSIDE OBSERVATORY, HALIFAX (Yorkshire), Edward Crossley, Esq., F.R.A.S.	520	Jan.	29·256	1·710	55·3	12·5	42·8	44·3	36·7	7·6	40·8	38·1	·220	2·7	0·3	90	542	61·7	33·4	0·8	1	8	11	11	–	8·0	20	5·77
		Feb.	29·503	1·052	51·5	24·2	27·3	38·0	31·9	6·1	34·0	32·6	·186	2·2	0·1	95	554	55·7	29·9	0·4	8	9	3	8	–	8·7	10	1·44
		Mar.	29·586	0·996	52·5	26·0	26·5	44·0	34·2	9·8	38·2	34·4	·199	2·3	0·4	87	552	71·1	31·6	0·6	8	8	5	10	–	8·1	9	0·76
THE PARK, HULL (Yorkshire), Mr. E. Peak.	12	Jan.	29·817	1·702	56·0	12·0	44·0	44·5	35·2	9·3	41·1	37·0	·219	2·6	0·4	82	552	51·5	33·9	–	–	–	–	–	0·9	–	21	2·48
		Feb.	30·032	1·116	54·0	23·0	31·0	40·4	30·2	10·2	32·6	31·0	·174	2·1	0·2	96	566	51·6	30·0	–	–	–	–	–	2·3	–	18	1·18
		Mar.	30·145	0·940	58·0	26·0	32·0	45·5	34·0	11·5	40·0	34·5	·200	2·3	0·6	81	559	62·4	32·0	–	–	–	–	–	2·6	–	12	0·91
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.A.S., F.M.S.	363	Jan.	29·386	1·719	54·3	24·4	29·9	47·1	38·2	8·9	42·5	39·7	·245	2·8	0·3	90	542	66·3	35·1	–	3	6	13	9	–	8·5	28	5·14
		Feb.	29·652	1·055	50·4	25·0	25·4	40·9	32·4	8·5	36·5	32·8	·187	2·2	0·4	87	554	70·5	30·2	–	8	12	4	4	–	8·5	18	1·40
		Mar.	29·748	1·144	57·2	24·0	33·2	46·7	34·9	11·8	39·9	35·5	·208	2·4	0·5	85	552	87·3	32·4	–	8	11	5	7	–	8·1	15	1·25
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	366	Jan.	29·449	1·258	57·2	13·0	44·2	47·4	37·6	9·8	42·6	38·8	·236	2·7	0·4	88	543	49·5	–	1·5	3	4	14	10	–	7·8	18	4·21
		Feb.	29·665	1·018	50·5	27·8	22·7	40·6	32·6	8·0	36·1	32·1	·183	2·1	0·4	87	555	48·8	–	1·2	8	8	4	8	–	9·0	11	1·07
		Mar.	29·773	1·029	55·0	30·2	24·8	44·7	35·2	9·5	39·4	35·1	·210	2·4	0·5	86	553	55·7	–	1·3	6	12	2	11	–	8·2	11	0·46
LEEDS PHILOSOPHICAL HALL (Yorkshire), Louis C. Miall, Esq.	137	Jan.	29·681	1·446	55·0	12·0	43·0	46·5	36·9	9·6	42·5	38·1	·232	2·7	0·4	85	548	51·2	–	1·1	3	3	12	13	–	8·2	25	3·51
		Feb.	29·922	1·131	53·0	26·0	27·0	41·0	32·1	8·9	36·8	31·5	·178	2·1	0·4	82	559	48·8	–	1·0	6	10	7	5	–	9·1	16	1·29
		Mar.	30·025	1·030	57·0	28·0	29·0	47·5	34·8	12·7	40·5	34·2	·201	2·3	0·6	79	557	57·9	–	1·0	10	9	4	8	–	8·4	15	0·48

Llandudno.—The readings of the barometer for the month of January appear to be too low by one tenth of an inch.

Names of Stations and Observers.	Height of Station above Sea Level.	Months.	Year 1875. Pressure of Atmosphere in Month. Mean.	Range.	Temperature of Air in Month. Highest.	Lowest.	Range.	Mean of all Highest.	Mean of all Lowest.	Mean Daily Range.	Mean Temperature. Air.	Dew Point.	Vapour. Elastic Force.	In a cubic foot of Air. Mean.	Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Minimum on Grass.	Wind. Estimated Strength.	Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.R.A.S., F.M.S.	146	Jan.	29·582	1·768	54·6	20·5	34·1	47·6	38.8	8·8	43·5	40·2	·250	2·8	0·4	88	545	55·7	30·6	0·9	1	4	18	8	3·9	7·5	24	4·76
		Feb.	29·901	0·986	49·4	22·7	26·7	41·4	33·1	8·3	37·0	33·6	·194	2·2	0·4	88	558	58·0	23·9	0·4	8	10	7	3	1·4	7·2	10	1·38
		Mar.	29·978	1·242	52·7	22·8	29·9	46·9	35·0	11·9	40·6	35·8	·208	2·4	0·6	84	555	78·7	26·7	0·6	6	8	9	8	2·1	6·3	9	1·33
ALLENHEADS (Northumberland), Mr. T. Kidd, Assistant to W. B. Beaumont, Esq., M.P.	1300	Jan.	28·298	1·342	48·5	16·0	32·5	41·6	31·8	9·8	36·5	–	–	–	–	–	–	63·2	31·3	1·8	2	2	18	9	–	7·5	24	6·08
		Feb.	28·568	0·907	48·5	21·5	27·0	37·5	28·4	9·1	31·9	–	–	–	–	–	–	62·0	27·6	1·3	9	10	4	5	–	7·9	19	2·62
		Mar.	28·650	0·968	58·5	21·5	37·0	41·4	30·4	11·0	34·9	–	–	–	–	–	–	71·6	29·3	1·7	6	8	6	11	–	7·0	17	1·39
SILLOTH RECTORY (Cumberland), Rev. Francis Redford, M.A., F.R.A.S., F.M.S.	28	Jan.	29·693	1·888	54·0	11·3	42·7	46·9	37·1	9·8	42·1	39·4	·242	2·7	0·4	90	548	58·7	34·1	1·5	2	8	10	11	8·9	7·0	26	4·17
		Feb.	30·039	0·989	51·2	24·7	26·5	42·6	33·3	9·3	37·2	33·1	·189	2·2	0·4	86	560	62·7	30·2	1·4	8	10	4	6	6·7	7·1	8	1·02
		Mar.	30·110	1·245	59·0	23·5	35·5	49·0	34·5	14·5	40·7	36·0	·211	2·5	0·6	84	558	76·2	31·9	1·5	10	9	2	10	7·3	6·0	7	0·92
CARLISLE (Cumberland), I. Cartmell, Esq., F.M.S.	114	Jan.	29·626	1·937	53·9	25·6	28·3	44·4	37·3	7·1	41·5	38·5	·234	2·7	0·3	90	548	54·3	31·9	2·0	2	4	16	9	6·3	7·9	23	3·81
		Feb.	29·967	0·947	50·9	21·9	29·0	40·0	32·2	7·8	35·9	32·8	·187	2·1	0·4	88	561	56·2	27·2	1·9	5	12	5	6	6·7	7·6	10	0·71
		Mar.	30·040	1·206	56·1	20·1	36·0	47·4	33·7	13·7	39·8	33·8	·194	2·4	0·4	79	557	69·7	28·8	2·0	7	10	5	9	7·1	6·7	10	0·72
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	Jan.	29·628	1·796	55·0	10·0	45·0	46·2	36·4	9·8	41·2	34·9	·202	2·4	0·7	79	548	48·9	30·9	1·3	3	6	8	14	–	6·9	23	2·58
		Feb.	29·949	0·978	53·0	25·0	28·0	42·5	33·7	8·8	37·3	32·0	·181	2·1	0·4	82	559	46·9	27·9	1·3	5	10	4	9	–	7·0	21	1·83
		Mar.	30·019	1·090	57·0	27·0	30·0	47·1	36·2	10·9	40·5	32·8	·185	2·3	0·6	74	556	55·5	30·2	1·5	6	9	5	11	–	5·8	15	0·98
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	Jan.	29·653	1·857	53·8	11·2	42·6	45·0	36·0	9·0	40·4	37·0	·222	2·5	0·4	88	550	–	34·3	1·5	6	2	9	14	–	7·7	23	2·33
		Feb.	29·972	0·968	52·0	27·4	24·6	40·4	32·7	7·7	36·5	31·1	·178	2·1	0·4	81	560	–	31·9	1·4	9	8	5	6	–	7·7	19	1·21
		Mar.	30·032	1·387	54·3	31·0	23·3	45·5	35·9	9·6	39·9	33·7	·194	2·4	0·4	79	557	–	34·5	1·6	8	6	8	9	–	6·8	9	0·51
MILTOWN (Banbridge, Ireland), John P. Smyth, Esq., Jun., M.A., M.I.C.E.I., F.G.S.	200	Jan.	29·347	1·645	55·0	26·0	29·0	48·4	38·4	10·0	43·9	40·6	·255	3·0	0·4	88	540	56·4	33·2	2·4	1	6	19	5	–	6·6	24	3·91
		Feb.	29·729	0·948	54·0	24·0	30·0	43·5	32·7	10·8	37·9	35·1	·204	2·4	0·3	89	554	63·6	29·5	1·4	12	6	5	5	–	5·6	13	1·79
		Mar.	29·809	1·165	55·0	26·0	29·0	47·4	36·9	10·5	41·9	37·6	·226	2·6	0·5	86	551	78·8	33·9	2·1	8	10	7	6	–	5·8	15	0·96

Note.—*The Barometer Reading,* Llandudno, 7th January, 9h. a.m., 29·240 in., has been altered to 29·940 in.
" Allenheads, 9th March, 9h. a.m., 27·885 in., " 28·885 in.
The Maximum Thermometer Reading, Chiswick, 22nd February, 9h. a.m., 29°·2 " 39°·2
" Allenheads, 8th March, 9h. a.m., 68°·5 " 58°·5

Note.—Allenheads. There are no readings of the Wet-bulb Thermometer given in the months of January, February, and March.

Second Rain-gauges are placed—

			January.	February.	March.	Total during the Quarter.
At Portsmouth, at the height of	20 feet	*above the ground*, the amount collected was	3·77 inches.	2·50 inches.	— inches.	— inches.
" Strathfield Turgiss, "	38 feet	" "	2·53 "	1·58 "	0·46 "	4·57 "
" Eccles (Manchester), "	34 feet	" "	2·61 "	0·59 "	0·61 "	3·81 "
" Miltown (Ireland), "	40 feet	" "	2·81 "	1·65 "	— "	— "
" Oxford, "	22 feet	" "	3·30 "	1·19 "	1·09 "	5·58 "
" Cardington, "	36 feet	" "	1·90 "	0·90 "	0·40 "	3·20 "
" Nottingham, "	39 feet	" "	2·27 "	1·35 "	0·54 "	4·16 "
" Wisbech, "	8 feet	" "	1·91 "	1·05 "	0·40 "	3·36 "
" Aldershot Camp, "	25 feet	" "	3·62 "	2·68 "	0·51 "	6·81 "

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									
Guernsey - - -	29·790	58·5	27·0	31·5	47·3	39·7	25·0	7·6	43·0	40·0	·251	2·9	0·4	90	549	—	—	1·5	8	8	8	7	4·5	6·4	47	20·7
Helston - - -	29·741	64·0	28·0	36·0	52·0	40·0	30·0	12·0	44·4	40·1	·251	3·1	1·0	82	548	61·9	38·4	2·2	7	9	8	6	4·1	6·5	47	19·7
Truro - - -	29·769	56·0	26·0	30·0	49·5	40·3	24·7	9·2	44·4	40·1	·251	2·5	0·5	85	551	—	—	2·5	7	8	7	7	—	7·8	44	17·7
Osborne - - -	29·804	58·9	24·8	34·1	46·5	35·0	28·3	11·5	40·5	38·4	·235	2·8	0·2	93	553	64·2	33·2	0·2	7	9	7	7	—	7·2	38	14·5
Bournemouth - -	—	55·4	27·3	28·1	46·0	36·5	25·1	9·5	40·9	36·7	·221	2·6	0·5	85	555	—	—	—	8	9	6	7	—	5·2	36	14·2
Hastings - - -	29·830	54·6	23·4	31·2	44·1	36·2	26·1	7·9	40·0	35·9	·213	2·5	0·4	85	554	—	—	1·7	9	6	8	6	—	7·3	34	14·0
Taunton - - -	29·811	58·1	9·0	49·1	47·7	35·7	38·0	12·0	41·5	38·4	·234	2·7	0·3	90	554	52·6	33·3	0·5	5	10	4	11	4·4	8·0	34	13·2
Salisbury - - -	29·817	60·0	13·0	47·0	47·4	32·1	37·3	15·3	40·0	37·2	·224	2·6	0·3	90	553	71·7	30·5	1·5	7	10	6	7	4·1	8·2	43	16·7
Barnstaple - - -	29·773	57·0	27·5	29·5	48·8	39·6	26·8	9·2	43·7	40·1	·250	2·9	0·4	87	552	—	—	1·2	5	8	10	7	—	6·3	43	16·5
Aldershot Camp -	29·812	58·0	14·0	44·0	46·0	34·0	34·5	12·0	39·0	35·9	·213	2·4	0·4	89	551	71·6	30·0	1·6	8	7	8	8	1·8	7·8	44	14·0
Strathfield Turgiss -	29·837	57·2	10·3	46·9	45·6	34·5	33·9	11·1	40·0	36·3	·216	2·5	0·3	87	553	70·3	30·8	0·6	8	8	6	8	3·5	7·3	41	14·2
Weybridge Heath -	29·837	60·0	15·0	45·0	45·2	34·5	34·1	10·7	39·7	36·2	·215	2·5	0·4	87	555	61·8	31·1	0·9	7	8	10	5	0·9	7·7	45	15·7
Marlborough Green	29·798	55·2	23·6	31·6	44·8	34·9	26·7	9·9	39·7	36·4	·227	2·5	0·3	88	548	71·0	32·7	—	4	10	6	9	—	7·2	41	17·0
Blackheath - -	29·815	57·0	19·8	37·2	45·1	35·8	28·9	9·3	40·0	36·8	·221	2·5	0·4	88	554	67·7	32·9	0·8	6	8	8	9	—	7·6	45	17·5
Streatley Vicarage -	29·818	58·2	14·9	43·3	46·0	35·1	33·4	10·9	40·8	36·8	·231	2·7	0·5	87	554	50·9	—	1·2	9	7	6	8	—	7·8	45	20·0
Camden Town - -	29·824	59·5	20·7	38·8	45·8	35·2	30·5	10·6	39·8	36·9	·222	2·5	0·4	90	555	69·1	32·0	—	9	5	6	10	—	7·4	43	16·0
Chiswick - - -	29·801	58·7	21·0	37·7	46·2	34·8	31·3	11·4	40·3	37·6	·228	2·6	0·3	91	556	69·4	30·7	—	7	8	8	7	—	—	46	16·0
Leicester - - -	29·823	56·3	10·7	45·6	44·0	35·1	33·7	8·9	39·3	34·7	·203	2·4	0·4	85	553	68·5	31·0	1·1	7	8	9	6	—	8·4	46	17·5
Oxford - - -	29·814	59·2	25·0	34·2	45·4	36·1	23·8	9·3	40·7	36·3	·217	2·5	0·5	85	553	72·5	33·9	1·0	6	8	8	7	2·1	8·5	43	15·2
Gloucester - - -	29·865	61·5	16·4	45·1	47·9	34·5	34·4	13·4	40·7	37·0	·222	2·5	0·3	87	555	65·1	33·6	0·8	7	7	8	9	1·0	7·2	43	16·0
Royston - - -	29·865	57·8	8·7	49·1	45·4	32·8	38·8	12·6	38·9	34·5	·197	2·3	0·5	84	553	—	—	—	9	6	8	7	—	7·5	43	15·5
Cardington - - -	29·819	59·0	9·0	50·0	45·1	33·6	37·6	11·5	39·1	36·8	·220	2·5	0·3	91	556	54·2	27·3	1·9	7	8	8	7	—	7·5	45	17·0
Lampeter - - -	29·824	61·0	20·0	41·0	47·7	34·2	32·0	13·5	40·8	37·4	·225	2·6	0·4	88	548	66·9	—	—	6	6	10	8	—	—	45	17·0
Somerleyton Rectory	29·808	61·0	17·5	43·5	45·2	33·8	31·8	11·5	39·1	37·4	·225	2·6	0·2	94	557	—	24·4	1·1	6	8	8	7	5·3	6·8	43	19·5
Norwich - - -	29·812	57·2	10·5	46·7	43·2	33·4	33·4	9·8	38·1	37·2	·223	2·6	0·3	97	558	—	—	—	5	10	7	7	—	—	46	19·0
Wisbech - - -	29·813	59·0	11·8	47·2	45·1	34·6	33·9	10·5	39·1	35·9	·213	2·4	0·7	89	558	73·1	30·2	0·6	9	7	7	7	3·5	7·3	45	17·5
Llandudno - - -	—	61·8	25·7	36·1	47·6	38·3	29·3	9·3	42·7	38·1	·231	2·7	0·5	85	551	—	—	0·9	4	8	9	9	—	7·3	44	17·0
Nottingham - -	29·810	57·2	12·0	45·2	45·0	33·8	34·2	9·2	38·4	34·8	·203	2·4	0·4	87	555	61·7	27·5	0·7	6	10	8	7	2·5	7·9	43	15·5
Calcethorpe - -	29·834	55·8	7·0	48·8	42·1	33·5	33·6	8·6	35·9	34·4	·199	2·3	0·3	88	552	72·8	30·3	1·2	7	7	8	8	6·9	7·8	45	18·0
Liverpool - -	29·786	55·4	18·0	37·4	44·4	36·3	30·2	8·1	40·1	35·6	·209	2·4	0·5	84	552	—	—	1·3	3	10	8	8	—	7·3	46	18·0
Eccles - - -	29·804	57·5	12·8	44·7	45·4	34·3	34·8	11·1	39·9	35·7	·210	2·4	0·5	85	554	49·9	28·1	0·3	5	9	9	7	2·6	7·3	45	17·5
Moorside, Halifax -	29·788	54·6	12·0	42·6	43·6	34·5	31·8	9·1	37·6	34·5	·201	2·4	0·3	89	550	58·1	31·2	0·9	5	10	6	9	2·1	8·6	46	19·5
Bermerside „ -	29·823	55·3	12·5	42·8	42·1	34·3	32·2	7·8	37·7	35·0	·205	2·4	0·3	91	549	62·8	31·6	0·6	6	8	6	10	—	8·2	41	14·0
Hull - - -	29·823	58·0	12·0	46·0	43·5	33·1	35·7	10·4	37·9	34·2	·198	2·3	0·4	86	559	55·2	32·0	—	—	—	—	—	1·9	—	41	15·0
Stonyhurst - - -	29·782	57·2	24·0	33·2	44·9	35·2	29·5	9·7	39·6	36·0	·213	2·5	0·4	87	549	74·7	32·6	—	6	10	7	7	—	8·4	40	16·5
Bradford - - -	29·819	57·2	13·0	44·2	44·2	35·1	30·6	9·1	39·0	35·3	·210	2·4	0·4	87	550	51·3	—	1·3	6	8	7	10	—	8·3	41	16·7
Leeds - - -	29·825	57·0	12·0	45·0	45·0	34·6	33·0	10·4	39·9	34·6	·204	2·4	0·5	82	555	52·6	—	1·0	6	7	8	9	—	8·6	45	18·0
Cockermouth - -	29·767	54·6	20·5	34·1	45·3	35·6	30·2	9·7	40·4	36·5	·217	2·5	0·5	87	553	64·1	27·1	0·6	5	7	11	6	2·5	7·0	45	18·0
Allenheads - - -	—	58·5	16·0	42·5	40·2	30·2	32·2	10·0	34·4	—	—	—	—	—	—	65·6	29·4	1·6	6	7	9	8	—	7·5	60	19·0
Silloth - - -	29·765	59·0	11·3	47·7	46·2	35·0	34·9	11·2	40·0	36·2	·214	2·5	0·5	87	555	65·9	32·1	1·5	7	9	5	9	9·2	6·7	41	17·0
Carlisle - - -	29·800	56·1	20·1	36·0	43·9	34·4	31·1	9·5	39·1	35·0	·205	2·4	0·4	86	555	60·1	29·3	2·0	5	9	9	8	6·7	7·4	43	17·5
Bywell - - -	29·774	57·0	10·0	47·0	45·3	35·4	34·3	9·9	39·7	33·2	·189	2·3	0·6	78	554	50·4	29·7	1·4	5	8	6	11	—	6·6	39	14·0
North Shields - -	29·826	54·3	11·2	43·1	43·6	34·9	30·2	8·7	38·9	33·9	·198	2·3	0·4	83	556	—	33·6	1·5	8	5	7	10	—	7·4	32	14·0
Miltown (Ireland) -	—	55·0	24·0	31·0	46·4	36·0	29·3	10·4	41·2	37·8	·228	2·7	0·4	88	548	66·3	32·2	2·0	7	7	10	5	—	6·0		

The highest temperatures of the air were at Helston, 64°·0; and Llandudno, 61°·8.

The lowest temperatures of the air were at Calcethorpe, 7°·0; and Royston, 8°·7.

The greatest daily ranges of the temperatures of the air were at Salisbury, 15°·8; and Lampeter, 13°·5.

The least daily ranges of the temperatures of the air were at Guernsey, 7°·6; and Bermerside Observatory, 7°·8.

The greatest numbers of rainy days were at Nottingham, 63; and Stonyhurst, 61.

The least numbers of rainy days were at Taunton, 34; and Bournemouth and Aldershot Camp, 36.

The heaviest falls of rain were at Truro, 11·82 inches; and Helston, 10·47 inches.

The least falls of rain were at Royston, 3·31 inches; and Somerleyton, 3·52 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days on which it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									
Guernsey - - - -	29·790	58·5	27·0	31·5	47·3	39·7	25·0	7·6	43·0	40·0	·251	2·9	0·4	90	549	—	—	1·5	8	8	8	7	4·5	6·4	47	20·7
Between 50° and 51° -	29·786	57·8	25·9	31·9	47·6	37·6	27·4	10·0	42·0	38·2	·234	2·7	0·5	86	552	63·0	35·8	1·7	8	8	7	7	—	6·8	44	18·7
the 51° and 52° -	29·814	58·3	17·2	41·1	46·1	35·1	32·2	11·0	40·4	36·9	·223	2·6	0·4	88	553	65·6	31·9	1·0	7	8	7	9	2·5	7·7	44	17·0
52° and 53° -	29·822	59·2	14·4	44·8	45·3	34·3	33·9	11·0	39·5	36·5	·217	2·6	0·4	89	555	64·0	27·4	1·0	6	8	8	8	3·8	7·4	49	19·0
latitudes 53° and 54° -	29·809	55·4	13·7	42·7	43·9	34·5	32·4	9·4	38·6	35·0	·205	2·4	0·4	87	552	59·7	31·0	0·9	6	9	7	8	3·4	8·1	49	19·0
54° and 55° -	29·777	57·0	15·5	41·5	44·2	34·1	32·5	10·1	38·7	35·2	·206	2·4	0·5	85	554	61·2	29·5	1·4	6	8	8	8	6·1	7·0	53	19·0
North Shields - -	29·826	54·3	11·2	43·1	43·6	34·9	30·2	8·7	38·9	33·9	·198	2·3	0·4	83	556	—	33·6	1·5	8	5	7	10	—	7·4	32	14·0
Miltown, Banbridge (Ireland)	—	55·0	24·0	31·0	46·4	36·0	29·3	10·4	41·2	37·8	·228	2·7	0·4	88	548	66·3	32·2	2·0	7	7	10	5	—	6·0		
Mean for the Year 1872	29·454	61·2	25·2	36·0	49·3	38·0	28·7	11·3	43·5	39·4	·243	2·8	0·5	87	544	69·6	22·6	1·0	4	5	13	9	4·5	6·3	61	20·0
Quarter, „ 1873	29·650	63·3	20·5	42·8	45·7	34·7	31·1	11·0	39·8	35·9	·216	2·5	0·4	86	551	63·4	29·6	1·1	7	7	8	8	4·0	7·0	47	17·0
50° to 55°. „ 1874	29·812	61·3	20·1	41·2	48·2	35·9	32·0	12·3	41·9	37·8	·228	2·6	0·4	86	551	68·6	30·6	1·2	6	4	8	13	4·1	6·3	44	18·0
„ 1875	29·802	57·7	17·3	40·4	45·4	35·1	31·7	10·3	39·8	35·4	·217	2·5	0·4	87	553	62·7	31·1	1·4	7	8	7	8	3·9	7·4	46	17·0

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING JUNE 30, 1875.

Remarks on the Weather during the Quarter ending June 30th, 1875.

By James Glaisher, Esq., F.R.S., *&c.*

In April, the weather was mild till the 6th, when the temperature descended below its average, and it was cold with the exception of the 4 days 18th to 21st, till the 26th; the average deficiency of mean temperature from the 1st to the 26th was 1°½. Vegetation, up to this time, was between 2 and 3 weeks late. On the 27th a warm period set in and continued, with few exceptions, throughout the whole month of May, which was fine and dry, till the 10th of June; the average excess of mean temperature for these 45 days was 3° daily; vegetation at this time, which had made great progress in May, was as forward on the 10th of June as in the average of seasons. From the 11th of June to the end of the quarter, the weather was cold; the deficiency on the average was 2¾° daily.

The readings of the barometer at 160 feet above the level of the sea were above their averages on the 1st, 2nd, and 3rd of April (that for the 1st being as much as 0·61 in. in excess); they were below from the 4th to the 8th, above from the 9th to the 20th, a little below on the 21st and 22nd, above from the 23rd to the end of the month. The highest reading in the month was 30·36 ins. on the 1st, and the lowest 29·14 ins. on the 5th. In May the readings of the barometer were above their respective averages, from the 2nd to the 5th (that of the 1st was 0·04 in. below); below for the 6th, 7th, and 8th; above from the 9th to the 17th; below from the 18th to the 22nd; above from the 23rd to the 27th; and below to the end of the month, with the exception of the last day, which was 0·09 in. above. The maximum reading in the month was 30·24 ins. on the 11th, and the minimum was 29·42 ins. on the 18th. From the 1st to the 8th of June the readings of the barometer were alternately above and below their averages, but only to small amounts; they were below from the 9th to the 17th; above on the 18th and 19th; below on the 20th and 21st; above on the four following days, and then below to the end of the month. The highest reading in the month was 30·02 ins. on the 24th, the lowest was 29·32 ins. on the 15th.

The mean temperature of April was 6°·1 higher than in March, that of May was 8°·7 higher than in April; and that of June was 3°·9 higher than in May. (From the preceding 34 years' observations the mean temperature of April is higher than that of March by 5°·5; that of May is 5°·6 higher than in April; and that of June is 6°·1 higher than in May).

The mean temperature of April above that of March over the whole country was 5°·7; that of May above that of April was 7°·2; and that of June above that of May was 3°·3.

The mean temperature of the air for April was 46°·3, being 0°·2 higher than the average of the preceding 104 years; and 0°·9 below the average of the preceding 34 years, it was 3°·7 lower than the value in the year 1874, and 0°·4 higher than in the year 1873.

The mean temperature of the air for May was 55°·0, being respectively 2°·5 and 2°·2 higher than the average of the preceding 104 years and 34 years; it was higher than the corresponding values in 1874 and 1873 by 4°·5 and 4°·4 respectively.

The mean temperature of June was 58°·9, being 0°·7 higher than the average of the preceding 104 years, and the same as the average of the preceding 34 years; it was 0°·9 higher than the value in 1874; and the same as in the year 1873.

The mean high day temperatures of the air were 0°·6 and 1°·6 lower than their respective averages in April and June, but 0°·2 higher in May.

The mean low night temperatures of the air were 0°·1, 6°·1, and 1°·8 higher than their respective averages in April, May, and June.

Thus the days and nights of April and June were warm, but in May they were somewhat cold.

The mean daily ranges of temperature were 1°·4 and 1°·0 higher than their respective averages in April and June, but 0°·6 lower in May.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter, were as follows:—

Direction of Wind.	April. Average.	April. 1875.	April. Departure from Average.	May. Average.	May. 1875.	May. Departure from Average.	June. Average.	June. 1875.	June. Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	2¼	1	−1¼	1¼	4	+2¾	2	1	−1
N.	4	2	−2	4½	3	−1½	3½	1	−2½
N.E.	6	8	+2	7	2	−5	3½	1	−2½
E.	3½	7	+3½	2½	2	− ½	2¼	2	− ¼
S.E.	2	1	−1	1½	2	+ ½	1¼	2	+ ¾
S.	2½	2	− ½	2¾	4	+1¼	2	4	+2
S.W.	6¼	5	−1¼	7½	8	+ ½	10	10	0
W.	2½	4	+1½	2	6	+4	3¼	8	+4¼
Calm, nearly.	1	0	−1	2	0	−2	1½	1	− ½

The + signs denote excesses over averages; in the month of April the largest with + signs are opposite the N.E. and E. winds, which were the prevalent winds during this month; in May the + signs indicating the prevailing winds are opposite to N.W., the S., and W.; and in June to the S. and W. winds.

The − signs denote defect below averages; in April the largest numbers are opposite to the N., S.E., and S.W. winds; in May to the N. and N.E. winds; and in June to N. and N.E. winds.

At about London the decrease of atmospheric pressure from March to April was 0·112 in., from April to May was 0·033 in., and from May to June was 0·066 in. Over the whole country it was 0·107 in. from March to April, from April to May there was a small increase at Guernsey, and in Cornwall and Devonshire, then a small decrease at southern stations gradually increasing going northwards to fully 0·1 in. at extreme northern stations; the average for the whole country was a decrease of 0·054 in.; and from May to June there was a decrease everywhere, and of nearly the same amount, its average was 0·095 in.

The fall of rain in the three months was 5·4 ins.; in April there was a small deficiency; in May there was also a deficiency, both months were dry; in June the first 10 days were almost without rain, these were followed by several days rain, and at the end of the month the fall of rain exceeded the average by about ¼ of an inch. On June 29th, at Cardington, 2½ ins. fell within an hour, and Mr. Whitbread remarks that such a fall had not been experienced for more than 20 years; it fell during a thunderstorm, in which two cows were killed; this storm extended to Newport Pagnell.

1875. Months.	Temperature of Air. Mean.	Air. Diff. from average of 104 years.	Air. Diff. from average of 34 years.	Evaporation. Mean.	Evaporation. Diff. from average of 34 years.	Dew Point. Mean.	Dew Point. Diff. from average of 34 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 34 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 34 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 34 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	grs.
April -	46·3	+0·2	−0·9	42·5	−1·6	38·2	−2·5	20·1	+1·4	48·4	0·232	−0·023	2·7	−0·7
May -	55·0	+2·5	+2·2	50·5	+1·5	46·2	+0·9	19·9	−0·6	58·6	0·312	+0·011	3·5	+0·1
June -	58·9	+0·7	0·0	53·9	−0·7	49·5	−1·2	22·1	+1·0	62·2	0·354	−0·017	4·0	−0·1
Means -	53·4	+1·1	+0·4	49·0	−0·3	44·6	−0·9	20·7	+0·6	56·4	0·299	−0·010	3·4	−0·1

1875. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 34 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 34 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 34 years.	Rain. Amount.	Rain. Diff. from average of 60 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°
April -	74	−5	29·842	+0·074	547	+4	1·6	−0·1	236	14	13	3	20·8
May -	73	−3	29·809	+0·029	532	−9	1·5	−0·6	272	1	18	12	29·3
June -	71	−3	29·743	−0·072	537	+5	2·3	+0·3	293	0	5	25	33·5
Means -	73	−4	29·798	+0·010	539	0	Sum 5·4	Sum −0·4	Mean 207	Sum 15	Sum 36	Sum 40	Lowest 20·8

NOTE.—In reading this table it will be borne in mind that the minus sign (−) signifies below the average, and that the plus sign (+) signifies above the average.

Thunderstorms occurred, on the 5th of April at Stonyhurst and North Shields. On the 7th of May at Cardington, Somerleyton, and Norwich; on the 8th at North Shields; on the 17th at Strathfield Turgiss, Streatley, Leicester, and Oxford; on the 18th at Gloucester, Royston, Cardington, Wisbech, and Hull; on the 19th at Chiswick, Leicester, Royston, Cardington, and Halifax; on the 23rd at Halifax, Stonyhurst, and Leeds; and on the 28th at Salisbury, Strathfield Turgiss, Cardington, Eccles, and Stonyhurst. On the 1st of June at Guernsey; on the 2nd at Guernsey and Salisbury; on the 3rd at Oxford, Llandudno, and Eccles; on the 4th at Somerleyton and Halifax; on the 8th at Helston; on the 9th at Guernsey, Truro, Brighton, Taunton, Salisbury, Strathfield Turgiss, Weybridge Heath, Leicester, Oxford, Gloucester, Royston, Cardington, and Calcethorpe; on the 10th at Cardington, Eccles, and Stonyhurst; on the 11th at Helston, Salisbury, Strathfield Turgiss, Leicester, Cardington, Calcethorpe, and Milltown; on the 12th at Strathfield Turgiss, Oxford, and Cardington; on the 15th at Calcethorpe, Eccles, Hull, Stonyhurst, and Cockermouth; on the 16th at Cardington; on the 17th at Leicester, Gloucester, Royston, Cardington, Calcethorpe, and Halifax; on the 18th at Brighton, Hastings, and Cardington; and on the 29th at Royston, Cardington, Somerleyton, and Calcethorpe.

Thunder was heard, but lightning was not seen, on the 5th of April at Halifax and Bywell. On the 6th of May at Calcethorpe, Bywell, and North Shields; on the 8th at Hastings; on the 18th at Salisbury and Calcethorpe; on the 19th at Osborne, Salisbury, Oxford, Eccles, and Hull; on the 23rd at Calcethorpe, Eccles, and Hull; on the 27th at Streatley; on the 28th at Taunton, Oxford, Royston, and Liverpool. On the 3rd of June at Strathfield Turgiss, Weybridge Heath, Streatley, Gloucester, Royston, and Cardington; on the 4th at Weybridge Heath, Royston, Cardington, Calcethorpe, and Hull; on the 9th at Osborne, Taunton, Aldershot Camp, Oxford, and Wisbech; on the 10th at Gloucester, Calcethorpe, Halifax, and Hull; on the 11th at Gloucester, Royston, Somerleyton, Halifax, and Stonyhurst; on the 12th at Eccles, Halifax, Hull, Allenheads, Norwich, and Carlisle; on the 15th at Streatley and Gloucester; on the 16th at Somerleyton, Halifax, Hull, and Cockermouth; on the 17th at Aldershot Camp, Streatley, Oxford, Somerleyton, Halifax, and Hull; on the 18th at Osborne, Weybridge Heath, Royston, Somerleyton, and Hull; on the 21st

at Calcethorpe; on the 25th at Streatley; on the 26th at Carlisle; on the 28th at Hull; and on the 29th at Leicester and Oxford.

Lightning was seen, but thunder was not heard, on the 30th of April at Guernsey. On the 21st of May at Hastings. On the 2nd of June at Brighton and Hastings; on the 3rd at Oxford and Halifax; on the 11th at Helston and Somerleyton; on the 12th at Helston; on the 13th at Allenheads; on the 17th at Weybridge Heath, Oxford, and Wisbech; and on the 26th at Allenheads.

Solar halos were seen on the 1st, 7th, 14th, and 16th of April at Halifax; on the 17th at Oxford and Wisbech; on the 26th at Brighton, Strathfield Turgiss, Weybridge Heath, Oxford, and Wisbech; on the 27th at Brighton, Hastings, and Strathfield Turgiss; and on the 28th at Brighton, Hastings, and Oxford. On the 17th of May at Halifax; and on the 21st at Oxford. On the 2nd of June at Oxford; on the 5th at Helston and Brighton; on the 8th at Brighton and Oxford; on the 9th at Brighton; and on the 10th at Hull.

Lunar halos were seen on the 10th of May at Oxford; on the 11th at Brighton and Salisbury; on the 17th at Halifax; and on the 19th at Weybridge Heath and Oxford. On the 15th of June at Helston.

Aurorœ boreales were seen on the 26th of April at Brighton; on the 30th at Streatley.

Snow fell on the 4th and 5th of April at Allenheads; on the 7th at Royston; and on the 22nd at Oxford.

Hail fell on the 5th of April at Truro, Liverpool, Eccles, and Halifax; on the 6th at Helston, Salisbury, Strathfield Turgiss, Oxford, Royston, Calcethorpe, and Halifax; on the 7th at Salisbury, on the 8th at Osborne and Silloth; and on the 22nd at Oxford and Gloucester. On the 7th of May at Cardington; on the 18th at Guernsey, Salisbury, Royston, Eccles, Cockermouth, and Allenheads; on the 19th at Osborne, Hastings, Taunton, Salisbury, Streatley, Leicester, Oxford, Royston, Cardington, Wisbech, Halifax, Stonyhurst, Allenheads, Bywell, and North Shields; on the 20th at Carlisle; on the 22nd at Halifax; on the 23rd at Wisbech, Eccles, Halifax, Hull, Stonyhurst, and Silloth; and on the 28th at Eccles. On the 10th of June at Aldershot Camp, Leicester, and Halifax; on the 11th at Salisbury, Leicester, Cardington, and Halifax; on the 12th at Weybridge Heath, Stonyhurst, Allenheads, and Carlisle; on the 13th at Allenheads; on the 15th at Eccles; on the 17th at Cardington and Cockermouth; on the 18th at Streatley; and on the 21st at Hull.

Fog prevailed on the 2nd of April at Taunton; on the 8th and 9th at Calcethorpe and Allenheads; on the 10th at Allenheads; on the 11th at Norwich, Calcethorpe, and Allenheads; on the 12th at Allenheads and Milltown; on the 14th at Aldershot Camp, Oxford, and Liverpool; on the 15th at Taunton; on the 16th at Calcethorpe and Liverpool; on the 17th at Calcethorpe and Liverpool; on the 18th at Liverpool and Hull; on the 19th at Hull; on the 27th at Guernsey; and on the 28th at Guernsey and Strathfield Turgiss. On the 1st and 2nd of May at Calcethorpe; on the 3rd and 4th at Hull; on the 5th and 8th at Hastings; on the 11th at Allenheads; on the 14th at Liverpool and Stonyhurst; on the 28th at Allenheads; and on the 30th at Eccles. On the 4th of June at Eccles; on the 19th at Helston and Weybridge Heath; on the 22nd at Helston; on the 25th at Weybridge Heath; on the 28th and 29th at Allenheads; and on the 30th at Helston and Allenheads.

Field elm in leaf,	the earliest	April 14, at Carlisle,	the latest	May 20, at Guernsey.
Wych elm in leaf,				
Oak in leaf,	,,	,, 12, at Carlisle,	,,	,, 18, at Hull.
Lime in leaf,	,,	,, 25, at Strathfield,	,,	,, 21, at Helston.
Sycamore in leaf,	,,	,, 13, at Carlisle,	,,	,, 10, at Hull & Milltown.
Horse chestnut in leaf,	,,	,, 2, at Helston,	,,	,, 10, at Calcethorpe.
Common poplar in leaf,	,,	,, 7, at Carlisle,	,,	,, 8, at Hull.
Hawthorn in leaf,	,,	,, 24, at Oxford,	,,	,, 26, at Hull.
Hawthorn in blossom,	,,	,, 6, at Calcethorpe,	,,	,, 1, at Hull.
Hazel in leaf,	,,	,, 27, at Helston,	,,	,, 17, at Calcethorpe.
Walnut in leaf,	,,	,, 30, at Milltown,	,,	,, 16, at Hull.
Apple in blossom,	,,	May 25, at Milltown,	,,	June 7, at Hull.
Pear in blossom,	,,	April 25, at Helston,	,,	May 11, at Allenheads.
Cherry in blossom,	,,	,, 10, at Milltown,	,,	April 25, at Stonyhurst.
Plum in blossom,	,,	,, 10, at Bywell,	,,	May 4, at Allenheads.
Lilac in blossom,	,,	,, 1, at Milltown,	,,	,, 1, at Hull.
Privet in blossom,	,,	,, 21, at Taunton,	,,	,, 31, at Allenheads.
Honeysuckle in blossom,	,,	June 18, at Llandudno,	,,	June 30, at Hull.
Mountain ash in blossom,	,,	May 13, at Llandudno,	,,	,, 19, at Hull.
Syringa in blossom,	,,	,, 8, at Carlisle,	,,	May 22, at Milltown.
Laburnum in blossom,	,,	,, 22, at Oxford,	,,	June 4, at Calcethorpe.
Acacia in blossom,	,,	,, 7, at Llandudno,	,,	May 20, at Milltown.
Yellow broom in blossom,	,,	June 4, at Wisbech,	,,	June 19, at Hull.
Wheat in flower,	,,	April 20, at Taunton,	,,	May 4, at Hull.
Wheat in ear,	,,	June 15, at Cardington,	,,	June 24, at Silloth.
Barley in flower,	,,	,, 4, at Calcethorpe,	,,	,, 20, at Cockermouth.
Barley in ear,	,,	,, 16, at Llandudno,	,,	,, 18, at Cardington.
Oats in ear,	,,	,, 10, at Calcethorpe,	,,	,, 16, at Llandudno.
Cuckoo arrived,	,,	,, 23, at Calcethorpe,	,,	,, 30, at Cockermouth.
Swallow arrived,	,,	April 8, at Helston,	,,	May 4, at Allenheads.
Nightingale arrived,	,,	,, 9, at Helston,	,,	,, 2, at Stonyhurst.
Cuckoo departed	,,	,, 17, at Oxford,	,,	April 28, at Taunton.

from Hull on the 27th of June.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING JUNE 30TH, 1875.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the fifth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1875. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.M.S.	204	April	29·818	1·146	69·0	38·5	30·5	53·0	42·7	10·3	46·1	42·0	·268	3·1	0·5	87	546	—	—	1·2	10	10	5	5	3·9	3·6	8	0·95
		May	29·829	0·860	70·5	44·0	26·5	60·3	48·7	11·6	52·8	48·8	·346	3·9	0·5	87	539	—	—	1·3	8	7	8	8	4·0	3·5	12	1·50
		June	29·758	0·674	66·5	48·0	18·5	62·1	51·2	10·9	54·5	51·9	·387	4·4	0·3	92	535	—	—	1·4	6	2	9	13	4·7	4·6	17	2·59
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	April	29·887	1·307	68·0	32·0	36·0	57·5	41·8	15·7	48·3	41·5	·262	3·2	1·0	77	542	84.4	37·7	2·3	6	14	5	5	4·5	4·8	11	3·07
		May	29·902	0·916	79·0	40·0	39·0	65·1	46·0	19·1	54·7	46·5	·317	3·7	1·5	71	534	99·1	43·0	3·0	7	5	10	9	3·7	4·0	15	2·28
		June	29·895	0·816	77·0	44·0	33·0	66·9	50·7	16·2	56·9	44·7	·296	3·5	2·0	63	531	91·1	48·1	2·2	5	2	10	13	3·5	5·2	20	3·36
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	April	29·993	1·298	67·0	29·0	38·0	56·0	40·6	15·4	46·5	41·1	·259	3·0	0·7	82	549	—	—	2·4	7	15	2	6	—	6·4	11	1·94
		May	29·988	0·912	76·0	37·0	39·0	63·4	46·5	16·9	53·4	46·0	·310	3·5	1·0	76	541	—	—	2·6	8	5	7	11	—	5·7	14	2·35
		June	29·916	0·802	76·0	41·0	35·0	65·2	52·0	13·2	55·9	50·3	·356	4·1	0·9	82	537	—	—	2·6	5	3	6	16	—	6·9	19	2·56
EASTBOURNE (Sussex), Miss W. L. Hall.	12	Jan.	29·906	1·278	52·0	26·0	26·0	48·5	40·6	7·9	45·0	41·8	·265	3·0	0·5	89	549	66·7	36·4	0·6	2	2	11	16	2·6	—	20	4·10
		Feb.	29·977	1·350	52·5	22·1	30·4	42·3	32·0	10·3	37·0	33·8	·194	2·2	0·4	89	560	72·6	23·0	0·3	10	9	4	5	0·9	—	12	1·32
		Mar.	30·062	0·920	57·8	26·8	31·0	48·0	35·6	12·4	41·6	36·7	·217	2·6	0·4	84	555	87·6	39·6	0·5	9	13	2	7	1·2	—	6	0·85
		April	29·968	1·179	71·8	29·4	42·4	57·3	37·4	19·9	46·6	41·3	·259	3·2	0·4	83	548	104·9	32·7	0·2	4	12	8	6	1·0	—	9	1·48
		May	29·952	0·842	77·9	36·7	41·2	65·9	46·5	19·4	55·5	48·3	·338	3·8	1·1	77	538	116·2	41·3	0·9	7	4	9	11	2·7	—	4	0·93
		June	29·823	0·644	78·2	42·0	36·2	68·7	50·3	18·4	58·7	53·2	·404	4·5	0·9	82	532	121·3	45·2	—	2	2	12	14	3·9	—	13	2·41
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	April	29·860	1·250	72·6	30·1	42·5	57·2	38·1	19·1	46·4	42·8	·276	3·2	0·5	87	546	96·5	34·4	0·0	4	14	7	5	—	4·4	10	1·07
		May	29·841	0·856	79·2	38·9	40·3	66·2	45·7	20·5	54·6	52·4	·394	4·5	0·3	92	537	104·5	42·8	0·2	5	5	10	11	—	4·2	11	1·21
		June	29·736	0·904	81·1	44·0	37·1	68·7	50·2	18·5	57·5	52·2	·384	4·4	1·1	84	532	106·0	47·9	0·3	3	2	12	13	—	5·6	13	1·97
BRIGHTON (Sussex), Frederick E. Sawyer, Esq., F.M.S.	200	Jan.	29·755	1·435	49·8	21·2	25·6	46·6	40·4	6·2	43·6	42·1	·268	3·1	0·3	92	557	—	37·4	1·0	2	3	14	12	—	8·8	21	3·69
		Feb.	29·812	1·238	47·6	24·0	23·6	39·8	31·3	8·5	35·8	33·3	·191	2·5	0·3	91	558	—	28·5	0·7	10	9	4	5	—	6·8	12	1·94
		Mar.	29·917	0·884	56·4	27·4	29·0	45·8	33·6	10·2	40·1	34·8	·202	2·1	0·8	82	554	—	31·5	0·9	12	10	1	8	—	7·6	7	0·76
		April	29·830	1·200	69·8	32·0	37·8	52·9	39·9	13·0	45·9	37·2	·223	2·6	1·0	71	547	—	35·9	1·0	5	10	8	7	—	6·0	9	1·12
		May	29·829	0·840	71·8	40·7	31·1	62·9	48·0	14·9	54·4	46·3	·313	3·5	1·2	74	537	110·2	45·0	0·9	5	3	11	12	—	5·7	8	1·13
		June	29·719	0·666	74·4	47·1	27·3	67·6	52·2	15·4	58·7	50·7	·371	4·2	1·4	75	530	112·1	49·6	1·2	4	1	11	14	—	7·5	12	3·08
MANOR HOUSE (Hastings), Alex. E. Murray, Esq., F.M.S.	167	April	29·863	1·182	68·0	33·0	35·0	52·5	40·2	12·3	45·5	37·8	·224	2·6	0·9	74	548	—	—	1·7	8	11	5	6	—	5·0	9	1·19
		May	29·850	0·814	71·2	38·8	32·4	60·4	47·3	13·1	52·7	46·1	·312	3·5	1·0	79	539	—	—	1·6	7	5	11	8	—	5·0	7	0·97
		June	29·764	0·664	77·1	46·9	30·2	64·0	52·2	11·8	56·9	50·7	·370	4·1	1·1	80	533	—	—	1·7	4	4	12	10	—	5·7	13	1·67
TAUNTON (Somerset), James Bottomley, Esq.	80	April	29·994	1·360	77·0	27·2	49·8	58·4	36·9	21·5	45·8	41·9	·236	3·0	0·5	86	549	68·4	35·0	0·6	2	13	8	7	4·5	5·5	10	1·15
		May	29·932	0·918	81·7	37·5	44·2	64·2	43·4	20·8	53·3	48·7	·343	3·9	0·7	84	540	79·1	43·2	0·6	7	7	7	10	5·0	5·4	13	2·64
		June	29·852	0·858	87·8	40·1	47·7	69·1	49·0	20·1	57·1	50·0	·359	4·0	1·2	77	534	83·9	45·3	0·4	6	3	3	18	5·4	7·4	13	2·38
WILTON HOUSE (near Salisbury), T. Challis, Esq.	186	April	29·855	1·304	76·5	26·0	50·5	60·0	33·8	26·2	46·0	38·9	·239	2·7	0·9	77	547	106·0	30·0	1·4	5	13	4	8	3·0	5·2	10	1·54
		May	29·817	0·804	83·0	26·0	57·0	67·7	41·3	26·4	53·4	47·2	·324	3·7	0·9	79	538	113·5	37·1	1·5	8	3	5	15	3·5	6·0	12	1·69
		June	29·722	0·782	81·0	40·0	41·0	70·9	47·2	23·7	57·3	51·8	·383	4·3	0·9	82	531	118·5	44·7	1·7	5	3	6	16	4·8	6·6	15	2·99
BARNSTAPLE (Devon), T. Mackrell, Esq.	43	April	29·994	1·370	74·0	35·0	39·0	59·5	44·5	14·9	50·2	42·2	·238	3·1	1·2	75	545	—	—	1·2	5	11	9	5	—	4·6	11	2·16
		May	29·962	0·940	79·0	41·5	37·5	66·0	49·0	17·0	55·8	47·8	·333	3·8	1·1	75	538	—	—	1·4	6	4	10	11	—	4·2	14	2·61
		June	29·875	0·890	80·0	44·0	36·0	67·8	55·3	14·5	58·4	51·9	·388	4·5	1·2	79	533	—	—	1·3	2	3	11	14	—	4·0	19	4·01
ALDERSHOT CAMP (Hants), John Arnold, Esq., M.R.C.S., F.M.S.	325	April	29·687	1·270	73·2	27·4	45·8	58·6	37·3	21·3	46·2	38·8	·237	2·7	0·9	75	544	103·0	22·1	1·5	8	10	6	6	1·6	6·1	10	1·64
		May	29·652	0·900	81·4	36·6	44·8	67·4	45·8	22·2	55·1	48·2	·293	3·0	1·0	74	533	122·0	28·0	1·5	8	8	8	9	1·6	6·8	13	1·65
		June	29·548	0·760	85·4	41·8	43·6	70·7	48·9	21·8	57·4	51·2	·362	3·9	1·4	74	528	124·8	35·8	1·6	4	4	4	15	1·6	7·1	13	3·65

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1875. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	April	29·845	1·295	72·9	27·3	45·6	57·6	36·1	21·5	45·9	37·7	·226	2·6	0·8	73	547	102·0	31·8	0·5	8	10	7	5	4·0	4·5	11	1·35
		May	29·812	0·867	79·4	34·7	44·7	65·4	44·2	21·2	51·4	46·9	·322	3·6	1·1	76	537	111·6	39·0	0·5	6	4	8	13	4·5	4·9	10	1·43
		June	29·722	0·777	82·7	40·9	41·8	68·3	52·0	16·3	58·5	51·3	·378	4·3	1·1	77	531	124·1	45·1	0·6	4	2	10	14	5·5	6·7	13	3·04
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	April	29·898	1·270	76·8	27·0	49·8	58·8	36·3	22·5	46·6	39·1	·259	2·8	0·9	76	547	93·1	34·1	0·7	10	10	7	3	0·9	5·9	10	1·65
		May	29·887	0·869	84·0	34·5	49·5	67·6	43·7	23·9	55·0	51·1	·275	4·2	0·7	87	537	106·0	39·5	0·8	6	7	12	6	1·1	4·6	8	1·31
		June	29·793	0·726	85·5	40·8	44·7	71·6	48·0	23·6	58·2	51·4	·380	4·3	1·2	79	532	113·3	45·9	0·8	5	5	11	9	1·0	5·4	14	2·74
MARLBOROUGH, GREEN, (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	474	April	29·835	1·324	71·0	28·5	42·5	55·7	37·1	18·6	45·7	38·6	·235	2·7	0·7	77	542	101·2	32·9	0·5	7	13	4	6	—	4·7	11	1·64
		May	29·811	0·910	79·2	38·0	41·2	63·4	44·5	18·9	52·8	45·8	·309	3·6	0·9	78	533	115·8	40·3	0·5	5	4	8	14	—	5·4	13	2·51
		June	29·416	0·820	79·9	40·5	39·4	67·0	48·9	18·1	55·6	52·5	·396	4·4	0·5	89	528	119·8	45·5	0·5	4	3	7	6	—	6·0	19	2·78
BLACKHEATH (London), James Glaisher, Esq., F.R.S.	160	April	29·860	1·271	72·0	30·0	42·0	57·3	39·4	17·9	46·8	42·8	·275	3·2	0·5	87	546	105·1	35·9	0·7	6	12	5	7	—	5·2	9	1·54
		May	29·836	0·850	81·8	41·0	40·8	64·7	50·0	14·7	55·3	48·8	·346	3·9	1·1	83	536	115·2	43·8	1·0	6	4	9	12	—	5·3	13	1·44
		June	29·735	0·759	81·1	45·1	36·0	69·4	51·8	17·6	59·0	50·1	·363	4·1	1·5	73	530	122·2	48·0	1·4	2	4	10	14	—	6·2	12	2·15
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.A.S., F.M.S.	150	April	29·898	1·191	75·3	28·4	46·9	57·8	37·0	20·8	46·8	37·7	·226	2·7	1·0	71	547	66·9	—	1·0	9	12	3	6	—	5·3	10	1·50
		May	29·859	0·816	82·5	37·9	44·6	66·7	43·6	23·1	54·5	46·4	·313	3·6	1·1	74	538	76·5	—	1·8	6	4	8	13	—	6·0	13	2·40
		June	29·756	0·808	85·2	41·0	44·2	70·2	47·6	22·6	58·0	51·2	·376	4·3	1·2	78	532	80·8	—	2·0	4	3	11	12	—	6·5	18	2·98
CAMDEN SQUARE (London), G. J. Symons, Esq., F.M.S.	123	April	29·919	1·268	74·0	29·3	44·7	58·3	38·0	20·3	47·0	38·5	·233	2·7	1·0	73	547	95·5	35·9	—	10	7	4	9	—	5·6	10	1·53
		May	29·891	0·858	78·3	39·8	38·5	67·2	46·7	20·5	55·7	46·6	·319	3·6	1·3	71	537	117·7	43·8	—	7	4	9	11	—	4·2	13	1·61
		June	29·788	0·769	85·1	43·3	41·8	72·3	50·9	21·4	59·7	50·5	·368	4·1	1·5	72	530	120·6	48·5	—	7	2	12	9	—	6·2	15	2·41
CHISWICK (Middlesex), Prof. Thiselton Dyer, M.A., B.Sc., F.L.S.	25	April	30·016	1·276	75·0	26·0	49·0	57·4	36·3	21·1	46·0	37·8	·229	2·6	1·0	74	550	107·4	31·7	1·1	7	10	7	6	—	7·0	8	1·46
		May	29·980	0·870	82·2	36·2	46·0	67·7	44·5	23·2	56·0	45·8	·309	3·4	1·6	69	538	126·5	38·9	1·4	6	4	9	12	—	6·3	10	1·18
		June	29·870	0·746	85·0	40·5	44·5	71·4	48·2	23·2	58·2	51·7	·380	4·2	1·2	78	533	132·1	44·2	1·5	4	5	9	12	—	7·3	16	1·84
TOWN MUSEUM (Leicester), W. J. Harrison, Esq.	245	April	29·779	1·406	70·5	30·0	40·5	55·1	39·3	15·8	46·4	37·4	·225	2·6	1·0	73	545	101·1	34·2	1·0	6	9	7	8	—	7·2	9	1·24
		May	29·724	0·870	73·6	38·3	35·3	63·3	45·2	18·1	53·5	40·7	·214	2·8	1·8	63	537	123·4	38·5	1·0	5	7	8	11	—	6·4	15	1·91
		June	29·613	0·931	77·7	40·6	37·1	66·5	49·5	17·0	57·1	49·2	·330	3·9	1·2	74	530	124·0	44·9	1·0	6	5	9	10	—	6·5	15	4·41
OXFORD (Oxfordshire), Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	April	29·796	1·284	70·8	29·9	40·9	56·1	38·2	17·9	47·0	39·8	·245	2·8	0·9	77	545	104·4	34·4	0·7	6	11	6	7	2·7	6·3	10	1·46
		May	29·763	0·887	80·4	38·8	41·6	65·0	46·0	19·0	55·3	47·5	·330	3·7	1·2	75	535	124·9	41·1	0·9	5	4	9	13	3·7	6·1	14	1·76
		June	29·650	0·862	81·0	40·9	40·1	69·1	50·9	18·2	59·2	51·2	·378	4·3	1·4	75	528	118·4	46·7	0·9	4	3	10	13	3·6	7·4	17	2·96
GLOUCESTER (Gloucester), E. Toller, Esq., M.D.	100	April	29·974	1·378	75·1	26·5	48·6	59·0	37·7	21·3	46·9	40·3	·251	2·9	0·8	80	547	98·3	34·5	0·4	7	8	7	8	0·3	5·0	9	1·60
		May	29·938	0·961	80·4	38·1	42·3	68·2	45·4	22·8	55·3	46·2	·314	3·6	1·4	72	539	116·8	41·6	1·0	8	3	7	13	1·5	4·7	10	1·81
		June	29·848	0·898	81·5	38·4	43·1	72·7	49·4	23·3	58·7	54·3	·423	4·8	0·6	85	532	117·6	45·2	1·0	7	4	7	12	1·6	6·1	17	3·29
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	April	29·782	1·291	74·0	27·1	46·9	58·7	36·5	22·2	46·2	38·9	·238	2·7	0·9	76	545	—	—	—	8	6	8	8	—	5·6	8	1·42
		May	29·753	0·879	81·6	33·9	47·7	68·0	43·7	24·3	54·3	46·5	·315	3·6	1·1	75	536	—	—	—	5	3	11	12	—	5·0	10	1·90
		June	29·649	0·774	84·9	38·4	46·5	72·6	47·9	24·7	58·3	51·4	·381	4·3	1·1	78	529	—	—	—	6	3	10	11	—	6·0	15	2·88
CARDINGTON (near Bedford), Mr. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	105	April	29·953	1·320	72·6	26·6	46·0	56·7	37·5	19·2	46·2	40·6	·253	2·9	0·8	81	548	83·1	31·8	1·6	9	8	5	8	—	6·2	6	1·74
		May	29·889	0·860	81·0	37·4	43·6	67·2	45·3	21·9	55·7	47·0	·324	3·8	1·1	73	537	100·8	38·2	2·2	5	5	7	14	—	5·4	12	2·00
		June	29·789	0·840	83·0	41·6	41·4	72·1	49·6	22·5	59·9	48·8	·345	3·8	2·0	68	530	106·2	44·8	2·7	5	5	6	14	—	5·7	15	4·66
ST. DAVID'S COLLEGE, LAMPETER (Cardiganshire), Prof. A. W. Scott.	420	April	29·609	1·484	73·0	24·0	49·0	58·8	35·4	23·4	47·0	38·5	·233	2·7	1·0	73	541	98·1	—	—	6	9	9	6	—	—	8	1·87
		May	29·551	0·972	80·0	33·0	47·0	65·2	40·6	24·6	53·0	44·4	·292	3·2	1·2	73	534	109·4	—	—	7	3	11	10	—	—	12	2·10
		June	29·483	0·948	80·5	33·0	45·5	67·4	45·4	22·0	55·3	48·1	·335	3·8	1·1	77	530	113·3	—	—	4	3	13	10	—	—	16	2·55
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	50	April	30·012	1·154	71·0	27·1	43·9	55·5	36·9	18·6	44·7	41·0	·257	2·9	0·4	87	551	—	27·8	1·1	8	10	7	6	6·8	5·8	7	0·69
		May	29·964	0·840	81·5	37·2	44·3	64·8	43·3	21·5	53·0	47·6	·330	3·7	0·8	82	541	—	33·9	1·4	6	8	9	8	7·5	4·1	10	1·70
		June	29·844	0·794	82·4	42·8	39·6	68·8	48·1	20·7	57·0	52·2	·391	4·4	0·8	84	534	—	40·1	1·2	4	7	11	8	7·9	4·8	17	2·16

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1875. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.ᵒ = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
NORWICH (Norfolk), John Quinton, Esq., Jun.	42	April	30·000	1·266	66·5	28·5	38·0	55·5	36·8	18·7	45·1	41·4	·261	3·0	0·5	87	550	—	—	—	11	6	5	8	—	—	5	0·64
		May	29·945	0·878	80·8	38·0	42·8	64·6	44·9	19·7	53·7	50·7	·370	4·2	0·5	89	549	—	—	—	6	4	10	11	—	—	11	1·39
		June	29·847	0·822	85·0	42·0	43·0	71·0	49·2	21·8	58·8	53·5	·410	4·5	1·0	82	532	—	—	—	5	6	13	6	—	—	13	1·60
WISBECH (Cambridgeshire), S. H. Miller, Esq., F.R.A.S., F.M.S.	14	April	30·030	1·320	73·5	30·0	43·5	58·0	38·7	19·3	46·9	40·6	·253	2·9	0·8	79	549	101·6	33·3	0·5	8	6	6	11	3·0	6·2	5	0·85
		May	29·962	0·906	81·4	39·0	42·4	67·1	44·7	22·4	55·2	47·2	·325	3·7	1·2	75	538	118·1	39·2	0·7	6	4	11	10	5·0	4·9	14	1·61
		June	29·863	0·930	85·0	42·3	42·7	73·8	49·7	24·1	60·2	52·1	·391	4·4	1·5	74	531	122·6	45·2	0·7	6	2	12	10	4·7	5·6	15	3·28
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	100	April	29·933	1·370	70·0	35·0	35·0	56·8	42·3	14·5	48·6	39·0	·238	2·7	1·2	69	546	—	—	0·6	5	7	7	11	—	4·8	6	0·94
		May	29·853	0·938	72·9	38·5	34·4	63·1	48·0	15·1	53·9	46·2	·311	3·5	1·1	75	538	—	—	0·8	4	6	8	13	—	7·0	13	1·46
		June	29·745	1·100	74·9	45·4	29·5	65·9	51·1	14·8	57·2	50·3	·365	4·0	1·2	77	532	—	—	0·7	2	4	5	19	—	6·5	16	1·81
NOTTINGHAM (Notts), M.O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	183	April	29·840	1·422	72·2	26·8	45·4	57·0	38·3	18·7	46·4	39·4	·242	2·8	0·8	77	546	104·0	32·4	0·6	9	8	5	8	3·3	6·6	8	0·76
		May	29·771	0·866	76·5	34·2	42·3	65·3	43·8	21·5	53·2	48·5	·340	3·8	0·7	83	537	122·6	38·6	0·7	5	7	10	9	4·5	6·3	16	1·70
		June	29·666	0·926	79·2	40·3	38·9	69·0	43·6	20·4	57·4	49·5	·354	3·9	1·4	74	531	121·5	44·8	0·4	7	4	9	10	5·5	5·7	16	3·02
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	30	April	29·974	1·184	63·6	23·2	43·4	53·6	34·8	18·8	44·2	37·3	·222	2·6	0·6	76	551	107·1	31·5	1·5	14	4	4	8	—	5·9	6	0·85
		May	29·922	0·868	76·4	30·0	46·4	63·4	41·2	22·2	52·5	44·3	·288	3·3	1·1	73	541	122·0	37·8	1·6	10	3	10	8	—	4·8	10	1·08
		June	29·821	0·865	76·7	33·0	40·7	67·4	45·8	21·6	56·2	48·5	·343	3·8	1·2	75	535	128·7	43·7	1·6	8	5	11	6	—	6·2	13	2·02
CALCETHORPE MANOR (near) Louth (Lincolnshire), D. Grant Briggs, Esq., F.M.S.	382	April	29·631	1·391	68·0	29·6	38·4	52·9	37·5	15·4	44·0	38·6	·234	2·7	0·6	81	545	101·9	31·2	0·9	8	7	9	6	6·8	6·0	9	0·73
		May	29·574	0·837	72·9	35·8	37·1	60·8	43·1	17·7	50·8	43·6	·285	3·3	0·9	77	538	119·1	38·1	0·9	4	6	11	10	6·9	5·7	15	1·44
		June	29·476	0·996	76·0	40·1	35·9	64·3	47·2	17·3	54·7	47·1	·324	3·7	1·2	75	531	123·4	44·1	1·0	5	4	11	10	6·0	6·2	17	3·14
LIVERPOOL OBSERVATORY, John Hartnup, Esq., F.R.A.S.	197	April	29·824	1·372	70·2	33·8	36·4	54·4	41·6	12·8	47·0	37·2	·222	2·6	1·2	69	545	—	—	1·0	3	10	9	8	—	4·8	7	0·59
		May	29·746	0·908	74·0	42·5	31·5	59·9	47·5	12·4	52·4	44·3	·292	3·4	1·0	74	539	—	—	1·4	3	6	6	16	—	5·5	16	1·93
		June	29·646	1·127	78·0	44·6	33·4	63·4	50·7	12·7	55·5	46·9	·322	3·8	1·1	73	533	—	—	1·2	2	5	9	14	—	6·0	16	2·10
ECCLES (near Manchester), T. Mackereth, Esq., F.R.A.S., F.M.S.	145	April	29·885	1·496	74·5	28·0	46·5	58·0	38·5	19·5	47·3	39·0	·327	2·8	1·0	74	546	71·8	31·8	0·5	6	9	6	9	2·7	6·4	6	0·76
		May	29·814	0·858	76·7	33·0	43·7	62·5	43·5	19·0	52·3	45·5	·305	3·5	1·0	78	539	79·5	37·3	0·3	5	3	7	16	3·0	7·4	18	2·68
		June	29·714	1·036	80·4	40·0	40·4	65·0	48·2	17·8	55·9	48·7	·344	3·9	1·1	78	533	81·0	41·6	0·3	5	3	10	12	2·9	7·4	20	3·90
MOOR SIDE OBSERVATORY, HALIFAX (Yorkshire), Louis J. Crossley, Esq., F.R.A.S.	429	April	29·528	1·506	70·5	29·6	40·9	54·5	39·2	15·3	45·4	38·7	·235	2·7	0·8	78	542	83·5	33·3	0·9	5	10	5	10	1·8	6·3	8	1·17
		May	29·469	0·922	75·4	35·0	40·4	63·1	44·8	18·3	52·3	42·3	·270	3·0	1·5	67	532	101·3	39·2	1·0	6	4	6	15	3·1	7·1	14	1·64
		June	29·414	1·123	76·8	39·2	37·6	66·5	49·1	17·4	55·7	48·5	·343	3·8	1·1	77	528	110·5	44·0	1·2	4	6	6	14	3·1	7·2	16	3·14
BERMERSIDE OBSERVATORY, HALIFAX (Yorkshire), Edward Crossley, Esq., F.R.A.S.	520	April	29·460	1·486	72·0	29·3	42·7	54·6	37·7	16·9	45·0	37·2	·218	2·6	0·8	75	541	99·0	34·6	0·6	5	9	7	9	—	6·3	8	1·22
		May	29·428	0·830	74·0	34·0	40·0	62·4	43·1	19·3	51·3	43·5	·284	3·2	0·8	76	533	106·7	39·5	0·7	5	4	8	14	—	5·9	11	1·61
		June	29·308	1·144	78·0	38·5	39·5	66·0	46·9	19·1	54·4	48·0	·334	3·8	0·8	79	528	111·4	43·7	0·8	4	5	10	11	—	6·4	17	3·24
THE PARK, HULL (Yorkshire), Mr. E. Peak.	12	April	30·030	1·428	70·0	26·0	44·0	55·6	37·2	18·4	45·7	40·0	·247	2·8	0·7	81	550	80·4	33·9	—	—	—	—	—	1·7	—	7	0·44
		May	29·958	0·912	76·0	35·0	41·0	64·0	43·1	20·9	52·8	46·7	·319	3·6	0·9	80	541	92·0	39·5	—	—	—	—	—	2·3	—	15	1·51
		June	29·872	1·072	78·0	38·0	40·0	68·2	47·5	20·7	56·5	48·8	·348	3·9	1·1	76	535	95·0	44·9	—	—	—	—	—	2·5	—	14	2·12
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.A.S., F.M.S.	363	April	29·642	1·531	70·8	29·0	41·8	53·5	38·9	17·6	46·5	41·8	·267	3·2	0·5	85	542	108·1	36·2	—	10	6	6	8	—	6·2	8	1·59
		May	29·559	0·877	72·0	33·6	38·5	61·4	43·6	17·8	51·0	43·1	·313	3·4	0·7	84	536	116·6	41·3	—	4	5	9	13	—	7·4	25	2·92
		June	29·456	1·101	75·1	41·2	33·9	64·5	47·9	16·6	54·5	48·8	·344	3·9	0·8	81	530	117·4	46·3	—	2	4	6	18	—	7·6	20	4·47
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	366	April	29·610	1·498	70·0	32·3	37·7	54·5	40·7	13·8	46·0	39·6	·244	2·8	0·8	79	542	73·6	—	1·1	6	8	4	12	—	6·6	6	0·79
		May	29·569	0·826	73·2	37·5	35·7	62·1	47·1	15·0	53·0	44·1	·289	3·3	1·3	72	534	90·5	—	0·9	2	5	7	17	—	7·0	11	1·22
		June	29·465	1·144	74·4	42·8	31·6	65·6	50·0	15·6	56·0	46·5	·319	3·5	1·5	70	529	93·2	—	1·0	4	6	7	13	—	6·0	13	2·14
LEEDS PHILOSOPHICAL HALL (Yorkshire), Louis C. Miall, Esq.	137	April	29·882	1·360	73·0	29·0	44·0	57·2	39·5	17·7	47·3	39·9	·246	2·8	0·9	76	546	74·4	—	1·0	9	9	3	9	—	7·8	9	0·50
		May	29·797	0·822	79·0	37·0	42·0	65·3	45·4	19·9	54·5	44·5	·293	3·4	1·3	68	537	85·3	—	1·1	6	3	7	15	—	6·8	15	1·46
		June	29·704	1·138	83·0	43·0	40·0	68·5	49·2	19·3	58·0	48·9	·347	3·9	1·5	72	531	84·7	—	1·0	6	4	4	16	—	7·0	15	2·29

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1875. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.ᵒ = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.R.A.S., F.M.S.	146	April	29·856	1·601	69·5	30·4	39·1	55·6	38·2	17·4	46·0	39·6	·244	2·8	0·8	79	547	93·5	32·7	0·4	5	8	6	11	1·8	4·6	9	1·51
		May	29·746	1·144	71·2	36·6	34·6	61·1	45·6	15·5	52·2	46·3	·312	3·5	0·9	81	538	107·2	38·6	0·6	4	2	11	14	2·7	6·3	18	2·53
		June	29·662	1·183	73·0	39·8	33·2	63·9	49·0	14·9	55·1	49·8	·359	4·0	0·9	82	533	110·7	42·5	0·4	3	5	13	9	2·0	6·5	16	3·54
ALLENHEADS (Northumberland), Mr. T. Kidd, Assistant to W. B. Beaumont, Esq., M.P.	1360	April	28·598	1·526	67·0	28·0	39·0	50·8	36·1	14·7	42·0	—	—	—	—	—	—	97·1	33·4	1·2	10	5	4	11	—	6·6	10	1·71
		May	28·491	0·808	70·0	34·0	36·0	58·9	41·7	17·2	48·2	—	—	—	—	—	—	112·0	38·5	1·5	4	6	9	12	—	5·1	19	3·03
		June	28·450	1·184	71·0	36·5	34·5	62·2	43·8	18·4	51·9	—	—	—	—	—	—	118·3	40·8	1·2	3	4	16	7	—	6·4	20	2·53
SILLOTH RECTORY (Cumberland), Rev. Francis Redford, M.A., F.R.A.S., F.M.S.	28	April	29·996	1·620	70·0	29·8	40·2	57·5	38·3	19·2	46·6	39·3	·241	2·8	0·9	77	549	87·8	34·8	1·2	6	8	5	11	7·8	4·3	8	1·09
		May	29·887	0·910	76·1	36·6	39·5	64·7	45·4	19·3	53·3	46·2	·310	3·5	1·1	77	539	99·6	42·0	1·3	2	3	8	18	8·2	5·5	13	1·41
		June	29·791	1·194	76·9	41·8	35·1	67·9	48·3	19·6	56·3	49·8	·358	4·0	1·0	78	534	100·5	44·8	1·4	0	6	7	17	8·7	5·8	18	2·54
CARLISLE (Cumberland), Isaac Cartmell, Esq., F.M.S.	114	April	29·911	1·610	68·3	29·4	38·9	56·2	41·0	15·2	47·0	39·1	·239	2·8	0·9	75	547	86·4	32·4	1·7	9	9	2	10	5·6	6·0	8	0·75
		May	29·814	0·922	75·1	36·0	39·1	63·0	43·9	19·1	52·8	43·2	·279	3·2	1·3	70	539	97·4	37·9	2·2	3	1	9	18	7·0	6·8	16	1·53
		June	29·735	1·200	78·2	39·5	38·7	65·7	47·4	19·3	55·1	47·7	·332	3·7	1·2	76	535	98·0	42·5	1·9	2	6	7	15	6·3	7·0	19	2·51
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	April	29·916	1·476	74·0	34·0	40·0	56·9	41·0	15·9	47·2	38·3	·231	2·7	1·0	72	547	74·4	35·3	1·4	6	10	4	10	—	4·4	12	1·09
		May	29·785	0·836	73·0	43·0	30·0	62·1	47·9	14·2	55·6	43·5	·283	3·2	1·2	68	537	90·3	41·9	1·4	7	3	5	16	—	3·7	16	1·21
		June	29·692	1·250	78·0	44·0	34·0	65·4	50·5	14·9	56·3	46·8	·322	3·6	1·3	71	534	95·7	44·8	1·4	3	6	7	14	—	4·5	17	2·11
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	April	29·937	1·445	65·0	31·8	33·2	51·4	39·5	11·9	44·2	38·1	·230	2·7	0·6	79	551	—	38·1	1·7	10	6	4	10	—	6·0	9	0·76
		May	29·736	0·939	70·0	39·0	31·0	60·0	44·8	15·2	50·9	42·9	·277	3·2	1·0	75	540	—	43·5	1·4	8	4	7	12	—	5·5	16	0·72
		June	29·725	1·175	73·6	42·0	31·6	62·1	48·8	13·3	54·2	47·9	·332	3·8	1·0	79	535	—	47·3	1·2	3	9	6	12	—	7·2	16	1·57
MILLTOWN (Banbridge, Ireland), John P. Smyth, Esq., jun., M.A., M.I.C.E.I., F.G.S.	200	April	29·697	1·540	69·0	29·0	40·0	57·2	37·7	19·5	47·6	39·6	·244	2·8	0·9	75	542	104·5	32·8	1·8	8	8	9	5	—	3·6	7	0·88
		May	29·578	1·166	71·0	36·0	35·0	61·2	45·4	15·8	52·0	44·1	·289	3·3	1·1	75	535	104·6	40·5	2·0	4	3	15	9	—	5·2	20	1·47
		June	29·472	1·176	73·0	38·0	35·0	63·5	46·8	16·7	53·9	45·8	·319	3·7	0·9	77	531	102·3	42·6	1·8	4	4	16	6	—	5·9	22	3·32

NOTE.—*The Barometer Reading,*

Holkham,	8th April,	3h. p.m., 30·698 in.,	has been altered to	29·698 in.
Barnstaple,	17th May,	9h. a.m., 30·660 in.,	"	29·660 in.
Llandudno,	17th May,	9h. a.m., 30·750 in.,	"	30·150 in.

Second Rain-gauges are placed—

				April.		May.		June.		Total during the Quarter.
At Strathfield Turgiss, at the height of 38 feet *above the ground*, the amount collected was				0·92 inches.	-	0·92 inches.	-	1·96 inches.	-	3·80 inches.
" Aldershot Camp,	"	25 feet	"	1·29 "	-	1·24 "	-	2·06 "	-	4·59 "
" Oxford,	"	22 feet	"	1·26 "	-	1·70 "	-	2·90 "	-	5·86 "
" Cardington,	"	36 feet	"	1·12 "	-	1·60 "	-	4·25 "	-	6·97 "
" Wisbech,	"	8 feet	"	0·80 "	-	1·59 "	-	3·22 "	-	5·61 "
" Nottingham,	"	39 feet	"	0·77 "	-	1·47 "	-	2·65 "	-	4·89 "
" Eccles (Manchester),	"	34 feet	"	0·54 "	-	2·35 "	-	3·33 "	-	6·22 "
" Milltown (Ireland),	"	40 feet	"	0·30 "	-	1·21 "	-	3·07 "	-	4·58 "

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·692	70·5	38·5	32·0	58·5	47·5	25·2	10·9	51·1	47·6	·334	3·8	0·4	89	540	—	—	1·3	8	6	7	9	4·2	3·9	37	30·[illegible]
Helston	29·689	79·0	32·0	47·0	63·2	36·0	17·0	53·3	44·2	·292	3·5	1·5	70	536	91·5	42·9	—	2·5	6	7	8	9	3·9	4·7	46	8·[illegible]
Truro	29·701	76·0	29·0	47·0	61·5	46·4	37·3	15·2	51·9	45·8	·312	3·5	0·9	80	542	—	—	2·5	7	8	5	11	—	6·3	44	8·[illegible]
Eastbourne	29·604	78·2	29·4	48·8	64·0	44·7	39·9	19·3	53·6	57·6	·334	3·8	0·8	81	539	114·1	39·7	—	4	6	10	10	2·5	—	26	4·[illegible]
Osborne	29·647	81·1	30·1	51·0	64·0	44·7	40·0	19·3	52·8	49·1	·353	4·0	0·6	88	538	102·3	41·7	0·2	4	7	10	10	—	4·7	34	3·[illegible]
Brighton	29·708	74·4	32·0	42·4	61·1	46·7	32·1	14·4	53·0	44·7	·302	3·4	1·2	73	538	—	43·5	1·0	5	5	10	11	—	6·4	29	3·[illegible]
Hastings	29·710	77·1	33·0	44·1	59·0	46·6	32·5	12·4	51·7	44·9	·302	3·4	1·0	78	540	—	—	1·7	6	7	9	8	—	5·2	29	3·[illegible]
Taunton	29·698	87·8	27·2	60·6	63·9	43·1	47·2	20·8	52·1	46·9	·326	3·6	0·8	82	541	77·1	41·2	0·5	5	8	6	12	5·0	6·1	36	6·[illegible]
Salisbury	29·689	83·0	26·0	57·0	66·2	40·8	49·5	25·4	52·2	46·0	·315	3·6	0·9	79	539	112·7	37·3	1·5	6	6	5	13	3·8	5·9	37	5·[illegible]
Barnstaple	29·651	80·0	35·6	45·0	64·4	49·0	37·5	15·4	54·8	47·3	·330	3·7	1·2	76	539	—	—	1·3	4	6	10	10	—	4·3	44	8·[illegible]
Aldershot Camp	29·667	85·4	27·4	58·0	65·6	43·8	44·7	21·8	52·9	45·5	·309	3·5	1·0	76	539	116·4	39·1	1·5	7	5	8	11	1·7	6·3	35	3·[illegible]
Strathfield Turgiss	29·710	82·7	27·3	55·4	63·8	44·1	44·0	19·7	52·9	45·3	·309	3·5	1·0	75	538	113·6	38·6	0·5	6	5	8	11	4·7	5·4	34	3·[illegible]
Weybridge Heath	29·694	85·5	27·0	58·5	66·0	42·7	48·0	23·3	53·3	47·2	·331	3·8	0·9	81	539	104·1	39·8	0·8	7	7	10	6	1·0	5·3	32	6·[illegible]
Marlborough Green	29·664	79·9	28·5	51·4	62·0	43·5	41·0	18·5	51·4	45·6	·313	3·6	0·7	81	534	112·3	39·6	0·5	5	7	6	12	—	5·4	43	6·[illegible]
Blackheath	29·658	81·8	30·0	51·8	63·8	47·1	39·6	16·7	53·7	47·2	·328	3·7	1·0	81	537	114·2	42·6	1·0	5	7	8	11	—	5·6	34	6·[illegible]
Streatley Vicarage	29·699	85·2	28·4	56·8	64·9	42·7	45·2	22·2	53·1	45·1	·306	3·5	1·1	74	539	74·7	—	1·6	6	6	7	10	—	5·9	41	5·[illegible]
Camden Square	29·694	85·1	29·3	55·8	65·9	45·2	41·7	20·7	54·1	45·2	·307	3·5	1·3	72	538	111·3	42·7	—	8	4	8	10	—	5·3	38	4·[illegible]
Chiswick	29·676	85·0	26·0	59·0	65·5	43·0	46·5	22·5	53·4	45·1	·306	3·4	1·3	74	540	122·0	38·0	1·3	6	6	8	10	—	6·9	34	5·[illegible]
Leicester	29·700	77·7	30·0	47·7	61·6	44·7	37·6	16·9	52·3	42·4	·276	3·1	1·3	70	537	116·5	39·2	1·0	6	7	8	10	—	6·7	39	6·[illegible]
Oxford	29·648	81·0	29·9	51·1	63·4	45·0	40·9	18·4	53·8	46·2	·318	3·6	1·2	76	536	115·9	40·7	0·8	5	6	8	11	3·3	6·6	41	6·[illegible]
Gloucester	29·708	81·5	26·5	55·0	66·6	44·2	44·7	22·4	53·6	46·9	·329	3·8	0·9	79	539	110·9	40·4	0·8	7	5	7	11	1·1	5·3	36	6·[illegible]
Royston	29·711	84·9	27·8	57·1	66·4	42·7	47·0	23·7	52·9	45·6	·311	3·5	1·0	76	537	—	—	—	6	4	10	10	—	5·3	33	6·[illegible]
Cardington	29·680	83·0	25·6	56·4	65·3	44·1	43·7	21·2	53·9	45·5	·307	3·5	1·3	74	538	96·7	38·3	2·2	6	6	6	12	—	5·8	34	6·[illegible]
Lampeter	29·714	80·5	24·0	56·5	63·8	40·5	40·5	23·3	51·8	43·7	·287	3·2	1·1	74	535	106·9	—	—	6	5	11	9	—	—	36	4·[illegible]
Somerleyton Rectory	29·670	82·4	27·1	55·3	63·0	42·8	42·6	20·2	51·6	46·9	·326	3·7	0·7	84	542	—	33·9	1·2	6	8	9	7	7·4	4·9	34	4·[illegible]
Norwich	29·630	85·0	28·5	56·5	63·7	43·6	41·3	20·1	52·5	48·5	·347	3·9	0·7	86	541	—	—	—	7	5	9	8	—	—	29	4·[illegible]
Wisbech	29·644	85·0	30·0	55·0	66·3	44·4	42·9	21·9	54·1	46·6	·323	3·7	1·2	76	539	114·1	39·2	0·6	7	4	10	10	4·2	5·6	34	5·[illegible]
Llandudno	29·649	74·9	35·0	39·9	61·9	47·1	33·0	14·8	53·2	45·2	·305	3·4	1·2	74	539	—	—	0·7	4	5	7	14	—	6·1	35	3·[illegible]
Nottingham	29·649	79·2	26·8	52·4	63·8	43·6	42·2	20·2	52·3	45·8	·312	3·5	1·0	78	538	116·0	38·6	0·6	7	6	8	9	4·4	6·2	40	3·[illegible]
Holkham	29·655	76·7	23·2	53·5	61·5	40·6	43·5	20·9	51·0	43·4	·284	3·2	1·0	75	542	119·3	37·7	1·6	11	4	8	7	—	5·6	29	3·[illegible]
Calcethorpe	29·691	76·0	29·6	46·4	59·4	42·6	37·1	16·8	49·8	43·1	·281	3·2	0·9	78	538	114·8	37·8	0·9	6	6	10	9	6·6	6·0	41	4·[illegible]
Liverpool	29·677	75·0	33·8	44·2	59·2	46·6	33·8	12·6	51·6	42·8	·279	3·3	1·1	72	539	—	—	1·2	3	7	8	13	—	5·4	39	4·[illegible]
Eccles	29·658	80·4	28·0	52·4	62·2	43·4	43·5	18·8	51·8	44·4	·325	3·4	1·0	77	538	77·4	36·9	0·4	5	5	8	12	2·9	7·1	38	5·[illegible]
Moorside, Halifax	29·650	76·8	29·6	47·2	61·4	44·4	39·6	17·0	51·1	43·2	·283	3·2	1·1	74	534	98·4	38·8	1·0	5	7	6	13	2·7	6·9	36	4·[illegible]
Bermerside ,,	29·684	78·0	29·3	48·7	61·0	42·6	40·7	18·4	50·2	42·9	·279	3·2	0·8	77	534	102·7	39·3	0·7	5	6	8	11	—	6·2	35	4·[illegible]
Hull	29·661	78·0	26·0	52·0	62·6	42·6	41·7	20·1	51·7	45·2	·305	3·4	0·9	79	542	89·5	39·4	—	—	—	—	—	2·2	—	53	5·[illegible]
Stonyhurst	29·634	75·1	29·0	46·1	60·8	43·5	38·1	17·3	50·7	45·6	·308	3·5	0·7	83	536	114·0	41·3	—	5	5	7	13	—	7·1	30	7·[illegible]
Bradford	29·655	74·4	32·3	42·1	60·7	45·9	35·0	14·5	51·7	43·4	·284	3·2	1·2	74	535	85·8	—	1·0	4	6	6	14	—	6·5	45	7·[illegible]
Cockermouth	29·612	73·0	30·4	42·6	60·2	44·3	35·6	15·9	51·1	45·2	·305	3·4	0·9	81	539	103·8	37·9	0·5	4	5	10	11	2·2	5·3	49	7·[illegible]
Allenheads	—	71·0	28·0	43·0	57·3	40·5	36·5	16·8	47·4	—	—	—	—	—	—	109·1	37·6	1·3	6	5	10	10	—	6·0	49	6·[illegible]
Silloth	29·619	76·9	29·8	47·1	63·4	44·0	35·3	19·4	52·1	45·1	·303	3·4	1·0	77	541	96·0	40·5	1·3	3	6	7	15	8·2	5·2	43	3·[illegible]
Carlisle	29·612	78·2	29·4	48·8	62·0	44·1	38·9	17·9	51·6	43·3	·285	3·2	1·1	74	540	93·9	37·6	1·9	5	5	6	14	6·3	6·6	41	3·[illegible]
North Shields	—	73·6	31·8	41·8	57·8	44·4	31·9	13·4	49·8	43·0	·280	3·2	0·9	78	542	—	43·0	1·4	7	6	6	11	—	6·2	42	4·[illegible]
Milltown (Ireland)	—	73·0	29·0	44·0	60·6	43·3	36·7	17·3	51·2	43·5	·284	3·3	1·0	76	536	103·8	38·6	1·9	5	5	13	7	—	4·9	49	4·[illegible]

The highest temperatures of the air were at Taunton, 87°·8; and Weybridge Heath, 83°·5.

The lowest temperatures of the air were at Holkham, 23°·2; and Lampeter, 24°·0.

The greatest daily ranges of the temperatures of the air were at Salisbury, 25°·4; and Royston, 23°·7.

The least daily ranges of the temperatures of the air were at Guernsey, 10°·9; and Hastings, 12°·4.

The greatest numbers of rainy days were at Stonyhurst, 53; and Allenheads and Milltown, 49.

The least numbers of rainy days were at Eastbourne, 26; and Brighton, Hastings, Norwich, and Holkham, 29.

The heaviest falls of rain were at Stonyhurst, 8·98 inches; and Barnstaple, 8·78 inches.

The least falls of rain were at North Shields, 3·05 inches; and Norwich, 3·63 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days on which it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·692	70·5	38·5	32·0	58·5	47·5	25·2	10·9	51·1	47·6	·334	3·8	0·4	89	540	—	—	1·3	8	6	7	9	4·2	3·9	37	30·[illegible]
Between 50° and 51°	29·691	77·5	31·2	46·3	61·8	46·1	35·6	15·7	52·5	45·7	·312	3·6	1·0	78	539	96·9	42·7	1·6	6	7	8	10	—	5·5	36	6·[illegible]
Between 51° and 52°	29·683	83·0	28·5	54·5	64·5	44·2	43·4	20·3	53·1	45·9	·314	3·6	1·0	77	538	107·8	39·9	1·0	6	6	8	11	2·9	5·8	34	5·[illegible]
Between 52° and 53°	29·668	81·3	27·7	53·6	64·0	43·3	41·9	20·7	52·6	45·5	·311	3·5	1·0	77	539	110·6	37·6	1·1	7	5	9	10	5·3	5·7	40	6·[illegible]
Between 53° and 54°	29·661	77·1	29·7	47·4	60·9	44·0	38·7	16·9	51·1	43·8	·293	3·3	0·9	77	537	97·5	38·2	0·9	5	6	7	12	3·6	6·5	44	6·[illegible]
Between 54° and 55°	29·614	74·8	29·4	45·4	60·7	43·2	36·8	17·5	50·5	44·5	·297	3·3	1·0	77	540	100·7	38·4	1·2	5	5	8	12	5·6	5·9	41	5·[illegible]
North Shields	—	73·6	31·8	41·8	57·8	44·4	31·9	13·4	49·8	43·0	·280	3·2	0·9	78	542	—	43·0	1·4	7	6	6	11	—	6·2	42	4·[illegible]
Milltown, Banbridge (Ireland)	—	73·0	29·0	44·0	60·6	43·3	36·7	17·3	51·2	43·5	·284	3·3	1·0	76	536	103·8	38·6	1·9	5	5	13	7	—	4·9	49	4·[illegible]
Mean for the Quarter, 50° to 55° — Year 1872	29·591	82·5	29·6	52·7	61·1	43·8	39·8	17·3	51·1	44·8	·298	3·5	0·9	80	539	104·4	38·4	1·2	6	4	7	13	4·2	6·1	48	4·[illegible]
" 1873	29·693	76·8	28·8	48·0	61·0	43·7	37·7	17·3	51·2	44·3	·297	3·4	0·9	78	541	100·7	37·6	1·2	9	6	6	10	3·8	6·0	36	4·[illegible]
" 1874	29·683	78·3	30·8	47·5	62·3	43·6	40·9	18·7	51·4	44·5	·296	3·3	1·0	77	539	103·3	38·6	1·1	8	8	6	9	3·6	5·7	34	5·[illegible]
" 1875	29·663	78·7	29·3	49·4	62·4	44·2	39·3	18·2	52·0	45·1	·305	3·5	1·0	77	539	100·7	39·5	1·2	6	6	8	11	4·3	5·9	38	5·[illegible]

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING SEPTEMBER 30, 1875.

Remarks on the Weather during the Quarter ending September 30th, 1875.

By James Glaisher, Esq., F.R.S., *&c.*

Following a period of warm weather of 45 days in duration ending 10th of June, one of cold began on 11th of June, and continned throughout the month of July, and till 5th of August, being of 56 days' duration, the average deficiency of daily temperature for these 56 days was 3°·1; and of that portion from 1st of July to 5th of August, or the first 36 days of this quarter, was 3°·3. On 6th of August a warm period set in, and with very slight exceptions continued till the end of the quarter; for a few days about the middle of August, and for a week following the middle of September, the weather was very warm. The average excess of mean daily temperature for these 56 days was 3°·2. It is remarkable that in the interval beginning 11th of June, and ending 30th of September, there should be two periods of equal length, viz., 56 days each, one of warm, and the other of cold weather, and that their respective departures from their averages should have been to almost the same amount.

The readings of the barometer at 160 feet above the level of the sea at about London were below their averages on the 1st, 2nd, and 3rd of July; they were above from the 4th to the 7th; below from the 8th to the 11th; a little above on the 12th and 13th; below from the 14th to the 24th; and above from the 25th to the end of the month. The highest reading in the month was 30·21 ins. on the 27th, and the lowest 29·19 ins. on the 9th. In August the readings of the barometer were above their respective averages from the 1st to the 8th (with the exception of the 6th, which was 0·02 in. below); below from the 9th to the 13th; above from the 14th to the 27th (with the exception of the 24th, which was 0·11 in. below); a little below on the 28th and 29th; and a little above on the last two days of the month. The maximum reading in the month was 30·20 ins. on the 21st, and the minimum was 29·58 ins. on the 12th. From the 1st to the 6th of September (with the exception of the 3rd, which was 0·06 in. below) the readings of the barometer were above their respective averages; they were below from the 7th to the 10th; above from the 11th to the 18th; below from the 19th to the 29th; and 0·06 in. above on the last day. The highest reading in the month occurred on the 6th, 30·17 ins., and the lowest on the 26th, 29·36 ins.

At Greenwich *the mean temperature* of July was 0°·2 higher than in June; that of August was 3°·9 higher than in July; and that of September was 3°·0 lower than that of August. (From the preceding 34 years' observations the mean temperature of July is 3°·3 higher than that of June; that of August is 0°·8 lower than that of July; and that of September is 4°·2 lower than that of August.)

The mean temperature of July *above* that of June over the whole country was 1°·4; that of August *above* that of July was 2°·5; and that of September *below* that of August was 2°·0.

The mean temperature of the air for July was 59°·1, being 2°·5 *lower* than the average of the preceding 104 years, and 3°·1 lower than the preceding 34 years; it was 5°·3 and 4°·3 lower than the corresponding values in 1874 and 1873. Back to 1771 there have been only 15 instances of July of so low or somewhat lower temperature.

The mean temperature of the air for August was 63°·0, being 2°·2 higher than the average of the preceding 104 years, and 1°·6 higher than the preceding 34 years; it was higher than the corresponding values in 1874 and 1873 by 2°·7 and 0°·3 respectively.

The mean temperature of the air of September was 60°·0, being 3°·5 higher than the average of the preceding 104 years, and 2°·8 higher than the preceding 34 years; it was respectively 2°·1 and 5°·3 higher than the corresponding values in 1874 and 1873.

Back to 1771 there have been only eight Septembers so warm as this, viz.—

1779	it was 60°·7	1846	it was 60°·1
1795	,, 60°·8	1858	,, 60°·3
1815	,, 62°·3	1865	,, 63°·9
1818	,, 60°·7	1868	,, 60°·5

The mean high day temperatures of the air were 0°·8 and 2°·5 higher than their respective averages in August and September, but 6°·8 lower in July.

The mean low night temperatures of the air were 2°·2 and 3°·8 higher than their respective averages in August and September, but of the same value as its average in July, viz. 53°·2.

Therefore the days and nights in August and September were warm, and the days in July were very cold.

The mean daily ranges of temperature were 0°·1 and 0°·4 greater than their respective averages in August and September, but 3°·8 smaller in July.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter, were as follows:—

Direction of Wind.	July. Average.	July. 1875.	July. Departure from Average.	August. Average.	August. 1875.	August. Departure from Average.	September. Average.	September. 1875.	September. Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	2½	4	+1½	2	2	0	1½	2	+ ½
N.	3½	4	− ½	3	3	0	3½	1	−2½
N.E.	3¾	5	+1¼	3	3	0	5¼	4	−1¼
E.	1½	3	+1½	1¼	1	− ¼	1½	5	+3½
S.E.	½	1	+ ½	1¼	4	+2¾	1¾	3	+1¼
S.	2½	3	+ ½	3	5	+2	2	6	+4
S.W.	10½	5	−5½	10½	8	−2½	7¼	4	−3¼
W.	4	6	+2	3¾	5	+1¼	2½	5	+2½
Calm, nearly.	2½	0	−2½	3¼	0	−3¼	4½	0	−4½

The + signs denote excesses over averages; in the month of July the largest + signs are opposite the N.W., N.E., E., and W. winds; in August the + signs are opposite SE., S., and W., and in September to the E., S., and W. winds.

The — signs denote defect below averages; in July the largest number with this sign is S.W., indicating a deficiency of this wind; in August and September there is also a deficiency of this wind, but in September this deficiency is made up by both the S. and W. winds being above their averages.

At London the increase of atmospheric pressure from June to July was 0·049 in., from July to August it was 0·076 in., and the monthly mean readings of the barometer for August and September were nearly the same. Over the whole country there was an increase of pressure from June to July, but larger in amount at northern stations than at southern stations. South of latitude 51° it was 0·050 in., between 51° and 53° it was 0·079 in., and north of 53° it was 0·130 in.; from July to August there was an increase of pressure; at stations south of 52° it was 0·072 in., and north of this parallel it was 0·017 in.; the change of atmospheric pressure from August to September was very small, at some stations there was a small increase, but generally there was a small decrease, the mean from all was a decrease of 0·002 in.

The fall of rain at Greenwich in July was 5·3 ins.; back to the year 1815 there have been only four instances in July with falls so large, viz,, in the year 1828, when it was 7·0 ins.; in 1834 it was 5·3 ins.; in 1853 it was 6·0 ins.; and in 1869 it was 5·8 ins. The fall of rain in July at nearly all stations greatly exceeded its average; it fell for the most part between the 13th and 23rd days, causing floods of very great violence in Monmouthshire and Glamorganshire, and in the Midland Counties generally. The fall of rain on the 14th day in Monmouthshire and Glamorganshire was as large as from 3 to 5 inches, and in Hereford and Gloucestershire from 1 to 3 inches, and exceeded one inch at many places, excepting in the northern counties, where little or no rain fell. The following table shows the daily fall of rain at our stations.

Names of Stations.	Heavy Falls of Rain from the 13th to the 23rd days of July 1875.										
	13th.	14th.	15th.	16th.	17th.	18th.	19th.	20th.	21st.	22nd.	23rd.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Guernsey	0·00	0·00	1·12	0·13	0·03	0·32	0·03	0·00	0·00	0·00	0·16
Helston	0·00	0·00	1·20	0·68	0·00	0·01	0·00	0·28	0·00	0·00	0·02
Truro	0·79	0·90	0·00	0·00	0·08	0·14	0·06	0·00	0·02	0·00	0·09
Osborne	0·00	1·88	0·09	0·03	0·28	0·00	0·00	0·00	0·17	0·00	0·17
Worthing	0·00	1·37	0·18	0·05	0·24	0·01	0·00	0·00	0·16	—	—
Hastings	0·00	0·00	0·77	0·11	0·25	0·06	0·23	0·00	0·00	0·05	0·00
Taunton	0·00	1·47	0·40	0·00	0·08	0·00	0·00	0·00	0·10	1·45	0·22
Salisbury	0·02	2·25	0·47	0·00	0·22	0·00	0·12	0·00	0·05	0·00	0·07
Barnstaple	0·58	1·21	0·02	0·02	0·21	0·00	0·00	0·00	0·02	0·00	0·00
Ramsgate	0·00	0·00	0·31	0·68	0·36	0·06	0·02	0·28	0·26	0·24	0·11
Strathfield Turgiss	0·00	1·69	0·83	0·02	0·26	0·06	0·02	0·01	1·78	0·00	0·00
Marlborough	0·00	0·00	2·32	0·66	0·00	0·28	0·00	0·58	0·10	0·13	0·00
Bristol	0·00	0·00	2·55	0·13	0·00	0·31	0·00	0·04	0·14	0·38	0·01
Blackheath	0·00	0·49	1·16	0·76	0·42	0·13	0·10	0·00	0·29	0·01	—
Streatley	0·00	0·00	1·77	0·44	0·03	0·54	0·14	—	—	—	0·14
Camden Square	0·00	1·29	0·93	0·27	0·17	0·07	0·03	0·02	0·44	0·03	0·00
Chiswick	0·00	0·00	1·11	1·05	0·10	0·26	0·25	0·02	0·00	0·07	0·00
Leicester	0·00	0·00	1·07	0·29	0·00	0·01	0·17	0·63	2·18	0·39	0·01
Oxford	0·03	1·71	0·45	0·00	0·23	0·15	0·05	0·79	0·17	0·00	1·62
Gloucester	0·03	1·61	0·10	0·00	0·35	0·01	0·00	0·61	0·71	0·00	0·11
Royston	0·00	1·06	0·15	0·00	0·05	0·06	0·27	0·90	0·56	0·00	0·10
Cardington	0·00	1·18	0·20	0·01	0·06	0·21	0·59	1·13	1·35	0·01	0·22
Lampeter	0·26	1·55	0·28	0·00	0·00	0·00	0·12	0·11	0·00	0·64	0·00
Somerleyton Rectory	0·00	0·48	0·25	0·00	0·47	0·45	0·26	0·69	0·00	0·00	0·00
Cambridge	0·00	0·00	1·06	0·37	0·00	0·01	0·30	0·46	1·04	0·90	0·00
Norwich	0·00	0·00	0·52	0·35	0·00	0·30	0·69	0·27	0·68	1·32	0·25
Birmingham	0·00	0·00	1·36	0·38	0·00	0·03	2·25	0·29	1·25	0·71	0·14
Wolverhampton	0·00	1·19	0·38	0·00	0·11	0·66	0·45	2·79	0·03	0·00	0·45
Wisbech	0·00	0·87	0·56	0·00	0·08	0·05	1·38	1·70	0·82	0·02	0·13
Llandudno	0·03	1·12	0·00	0·00	0·09	0·00	0·37	0·14	0·00	0·07	0·11
Nottingham	0·00	0·00	1·18	0·47	0·00	0·02	0·13	1·18	0·26	0·14	0·05
Holkham	0·22	0·02	0·41	0·23	0·00	0·40	0·70	0·35	3·06	0·77	0·02
Sheffield	0·12	0·62	0·05	0·00	0·35	0·26	0·43	0·59	0·14	0·02	0·00
Calcethorpe	0·03	0·28	0·01	0·00	1·36	0·20	0·71	0·69	0·43	0·09	0·01
Liverpool	0·00	0·12	0·43	0·00	0·00	0·17	0·01	1·00	0·29	0·00	0·11
Manchester	0·00	0·39	0·00	0·00	0·18	0·26	1·06	0·73	0·05	0·02	0·08
Eccles	0·01	0·42	0·01	0·00	0·15	0·32	1·18	0·75	0·04	0·00	0·00
Moor Side	0·00	0·04	0·14	0·00	0·00	1·18	0·07	0·70	1·75	0·05	0·00
Bermerside	0·00	0·03	0·19	0·01	0·00	1·12	0·09	0·75	1·95	0·06	0·04
Hull	0·06	0·00	0·02	0·00	0·99	0·74	0·56	0·30	0·07	0·00	0·55
Stonyhurst	0·07	0·01	0·00	0·00	0·30	0·10	0·42	1·23	0·06	0·01	0·00
Bradford	0·00	0·04	0·11	0·01	0·00	0·00	0·74	0·31	0·42	0·08	0·04
Leeds	0·00	0·09	0·12	0·01	0·00	0·41	0·20	0·44	0·45	0·12	0·14
Cockermouth	0·00	0·00	0·00	0·00	0·00	0·24	0·35	0·21	0·18	0·00	0·15
Allenheads	0·03	0·02	0·00	0·00	0·34	1·00	1·36	0·08	0·00	0·00	0·26
Silloth	0·02	0·00	0·00	0·00	0·23	0·25	0·20	0·12	0·00	0·05	0·00
Sunderland	0·01	0·03	0·00	0·00	0·00	0·34	0·94	0·64	0·03	0·00	0·11
Carlisle	0·05	0·00	0·00	0·00	0·29	0·69	0·36	0·32	0·00	0·00	0·15
Bywell	0·02	0·01	0·00	0·00	0·05	0·82	0·85	0·08	0·00	0·01	0·00
Newcastle-on-Tyne	0·03	0·04	0·00	0·00	0·00	0·50	1·02	0·96	0·00	0·00	0·45
North Shields	0·03	0·00	0·00	0·00	0·48	0·61	1·22	0·00	0·00	0·00	0·11
Milltown (Ireland)	0·05	0·00	0·00	0·00	0·00	0·23	0·71	0·41	0·00	0·08	

From this Table it will be seen that very heavy rain fell on every one of these days at one part of the country or other, and that the north of England till the 17th was free from heavy rain. The falls of rain were so heavy that the natural drainage failed to carry off the water, and wherever there was high ground in the watershed, the adjacent rivers became swollen, and caused injury to all property for considerable distances from the river, and in several instances loss of life.

Thunderstorms occurred, on the 1st of July at Eccles, Halifax, Stonyhurst, Bradford, Allenheads, and Bywell; on the 2nd at Llandudno, Liverpool, and North Shields; on the 3rd at Taunton and Cardington; on the 7th at Guernsey; on the 8th at Gloucester; on the 11th at Norwich, Wisbech, Allenheads, Carlisle, Bywell, and North Shields; on the 17th at Norwich, Calcethorpe, and Hull; on the 18th at Norwich, Wisbech, Leeds, Bywell, and North Shields; on the 19th at Wisbech, Hull, Bywell, and North Shields; on the 20th at Leicester, Halifax, and North Shields; on the 21st at Streatley, Leicester, Gloucester, and Cardington; on the 22nd at Taunton; on the

23rd at Osborne, Gloucester, and Cardington; and on the 25th at Leicester, Gloucester, and Calcethorpe. On the 3rd of August at Salisbury and Leicester; on the 6th at Cardington; on the 7th at Blackheath, Leicester, Royston, Cardington, Eccles, Halifax, and Hull; on the 8th at Guernsey, Helston, Truro, and Salisbury; on the 9th at Osborne, Streatley, Oxford, Gloucester, Cardington, Llandudno, Calcethorpe, Halifax, Hull, Stonyhurst, Allenheads, and Bywell; on the 10th at Allenheads, Bywell, and North Shields; on the 11th at Guernsey, Helston, Truro, and Hastings; on the 12th at Hastings, Leicester, Cardington, Llandudno, Calcethorpe, Eccles, Hull, and Bradford; on the 28th at Hastings; and on the 29th at Hull. On the 8th of September at Norwich, Eccles, Halifax, Stonyhurst, Bradford, Leeds, Allenheads, Bywell, and North Shields; on the 10th at Milltown; on the 13th at Guernsey; on the 14th at Helston; on the 16th at Osborne; on the 17th at Guernsey, Helston, Blackheath, and Llandudno; on the 18th at Milltown; on the 19th at Osborne, Strathfield Turgiss, Streatley, Oxford, Gloucester, Llandudno, Eccles, Halifax, Stonyhurst, Leeds, Cockermouth, and Allenheads; on the 20th at Cardington, Bradford, Silloth, and North Shields; on the 24th at Hastings, Salisbury, Gloucester, and Calcethorpe; on the 25th at Blackheath, and Wisbech; on the 26th at Bywell; and on the 27th at Hastings and Oxford.

1875. Months.	Temperature of Air. Mean.	Air. Diff. from average of 104 years.	Air. Diff. from average of 34 years.	Evaporation. Mean.	Evaporation. Diff. from average of 34 years.	Dew Point. Mean.	Dew Point. Diff. from average of 34 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 34 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 34 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 34 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.
July	59·1	−2·5	−3·1	56·2	−1·5	53·5	−0·4	17·5	−3·5	62·2	0·412	−0·005	4·7	+0·1
Aug.	63·0	+2·2	+1·6	59·8	+2·5	57·1	+3·4	19·9	+0·1	65·8	0·460	+0·045	5·1	+0·5
Sept.	60·0	+3·5	+2·8	56·7	+2·7	53·8	+2·7	18·9	+0·4	63·7	0·415	+0·036	4·6	+0·4
Means	60·7	+1·1	+0·4	57·6	+1·2	54·8	+1·9	18·8	−1·0	63·9	0·429	+0·025	4·8	+0·3

1875. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 34 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 34 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 34 years.	Rain. Amount.	Rain. Diff. from average of 60 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
July	83	+8	29·792	−0·010	531	+3	5·3	+2·7	286	0	2	29	36·3	56·7
Aug.	81	+5	29·868	+0·075	528	−1	2·3	−0·1	222	0	2	29	36·2	58·9
Sept.	80	−1	29·867	+0·062	531	−2	2·7	+0·3	253	0	2	28	38·0	58·3
Means	81	+4	29·842	+0·042	530	0	Sum 10·3	Sum +2·9	Mean 254	Sum 0	Sum 6	Sum 86	Lowest 36·2	Highest 58·9

NOTE.—In reading this table it will be borne in mind that the minus sign (−) signifies below the average, and that the plus sign (+) signifies above the average.

Thunder was heard, but lightning was not seen, on the 1st of July at Silloth; on the 2nd at Gloucester, Allenheads, Silloth, Bywell, and North Shields; on the 3rd at Blackheath; on the 8th at Eccles, Halifax, Hull, and Stonyhurst; on the 9th at Wisbech; on the 11th at Cardington; on the 18th at Halifax, Hull, and Allenheads; on the 19th at Calcethorpe and Carlisle; on the 21st at Oxford; on the 22nd at Osborne; on the 23rd at Hull, Stonyhurst, and North Shields; and on the 25th at Oxford and Hull. On the 3rd of August at Gloucester, Royston, Bradford, Silloth, and Carlisle; on the 6th at Salisbury and Royston; on the 7th at Truro, Norwich, and Calcethorpe; on the 8th at North Shields; on the 9th at Eccles, Silloth, and Carlisle; on the 10th at Hull and Stonyhurst; on the 12th at Strathfield Turgiss, Streatley, Oxford, Stonyhurst, Silloth, and Carlisle; on the 13th at Salisbury, Leicester, and Stonyhurst; on the 14th at Halifax; on the 19th at Strathfield Turgiss, Streatley, and Silloth; on the 26th at Streatley; and on the 29th at Strathfield Turgiss and Calcethorpe. On the 8th of September at Guernsey and Strathfield Turgiss; on the 9th at Streatley; on the 10th at Ramsgate; on the 17th at Truro, Taunton, and Leicester; on the 18th at Taunton; on the 19th and 24th at Silloth; on the 27th at Streatley, Cardington, and Eccles; and on the 28th at Cardington and Carlisle.

Lightning was seen, but thunder was not heard, on the 6th, 7th, 8th, 9th, 17th, and 18th of July; on the 3rd, 4th, 5th, 7th, 8th, 10th, 12th, 28th, 29th, and 30th of August; and on the 3rd, 6th, 7th, 8th, 9th, 16th, 17th, 18th, 19th, 21st, 24th, 25th, 27th, 28th, and 29th of September.

Solar halos were seen on 23 different days during the quarter.

Lunar halos were seen on the 17th and 18th of September.

Auroræ boreales were seen on the 14th of July at Stonyhurst; on the 24th at Silloth; and on the 29th at Cardington. On the 20th of September at Salisbury.

Hail fell on 8 different days during the quarter.

Fog prevailed on 8 days in July, 14 days in August, and on 12 days in September at different stations.

Wheat cut,	the earliest	August 2,	at Cardington,	and the latest	August 31,	at North Shields.
Barley cut,	"	July 30,	at Llandudno,	"	" 17,	at North Shields.
Oats cut,	"	" 27,	at Strathfield Turgiss,	"	" 17,	at Calcethorpe.
Cherry ripe,	"	" 20,	at Helston,	"	" 22,	at Hastings.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING SEPTEMBER 30TH, 1875.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the fifth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1875. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.M.S.	204	July	29·774	0·832	68·5	49·5	19·0	62·7	53·9	8·8	56·3	54·1	·419	4·7	0·4	92	534	–	–	1·2	9	6	6	10	3·8	5·1	15	2·84
		Aug.	29·860	0·606	76·5	53·5	23·0	67·0	57·0	10·0	60·1	55·8	·441	4·8	1·0	86	531	–	–	0·9	10	5	6	10	3·6	4·1	13	1·23
		Sept.	29·818	0·603	76·5	52·5	24·0	66·9	57·9	9·0	61·0	57·4	·472	5·2	0·8	89	529	–	–	1·1	6	9	9	6	3·4	4·1	15	2·95
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	July	29·876	1·000	83·0	44·0	39·0	69·9	52·4	17·5	59·7	51·6	·383	4·4	1·4	77	532	94·0	48·9	2·1	12	5	5	9	4·3	3·4	13	2·92
		Aug.	29·908	0·793	78·0	44·0	34·0	73·1	54·9	18·2	62·4	54·6	·428	4·9	1·4	76	529	99·9	56·2	1·7	8	4	11	8	3·6	4·2	14	2·66
		Sept.	29·876	0·707	76·0	42·0	34·0	70·2	53·9	16·3	61·0	55·8	·443	5·0	1·0	83	530	88·8	52·1	2·1	4	11	8	7	4·3	4·7	21	5·06
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	July	29·965	0·989	78·0	41·0	37·0	67·3	52·7	14·6	58·5	49·9	·360	4·0	1·5	73	535	–	–	2·5	12	3	4	12	–	5·8	15	2·70
		Aug.	30·032	0·710	77·0	42·0	35·0	70·2	54·4	15·8	60·5	53·1	·403	4·5	1·3	77	534	–	–	2·2	9	5	8	9	–	5·9	12	2·78
		Sept.	29·987	0·570	76·0	40·0	36·0	68·0	54·8	13·2	60·0	55·3	·438	4·9	0·9	85	533	–	–	2·4	4	11	4	11	–	6·2	17	5·53
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	July	29·786	0·820	81·6	44·5	37·1	69·8	52·5	17·3	59·4	53·7	·412	4·7	0·9	82	530	100·4	51·0	0·2	8	9	6	8	–	6·2	14	3·23
		Aug.	29·869	0·614	85·6	47·9	37·7	72·6	55·2	17·4	62·0	57·3	·472	5·2	1·0	85	529	106·6	52·8	0·1	5	5	9	12	–	6·6	10	1·05
		Sept.	29·849	0·580	79·7	49·1	30·6	71·1	54·6	16·5	61·0	56·2	·447	5·0	1·0	84	530	102·5	51·7	0·3	4	10	9	7	–	4·9	11	1·43
BOURNEMOUTH (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	128	April	29·928	1·300	61·3	31·2	30·1	53·6	38·7	14·9	45·6	37·4	·227	2·6	0·8	74	542	–	–	–	9	9	5	7	–	2·8	8	1·38
		May	29·906	0·850	70·2	40·7	29·5	61·2	46·6	14·6	52·6	46·9	·321	3·6	0·8	81	543	–	–	–	6	4	7	14	–	3·1	12	1·72
		June	29·815	0·730	76·3	45·1	31·2	64·8	51·9	12·9	56·9	51·3	·378	4·2	1·0	82	536	–	–	–	4	1	10	15	–	4·6	13	2·37
BRIGHTON (Sussex), Frederick E. Sawyer, Esq., F.M.S.	200	July	29·746	0·944	75·5	48·0	27·5	68·3	54·1	14·2	61·0	54·3	·422	4·7	1·3	79	528	110·1	51·8	0·8	8	8	5	10	–	6·6	12	2·85
		Aug.	29·842	0·612	77·0	44·0	33·0	70·7	56·1	14·6	62·1	55·2	·437	4·8	1·4	78	528	113·4	53·4	0·8	3	4	11	13	–	7·5	10	1·27
		Sept.	29·833	0·754	75·3	47·4	27·9	67·0	54·9	12·1	60·4	52·9	·401	4·5	1·4	76	531	104·7	51·3	1·0	6	9	8	7	–	6·6	9	1·74
HASTINGS (Manor House), Alex. E. Murray, Esq., F.M.S.	167	July	29·788	0·986	75·1	46·3	28·8	65·8	54·3	11·5	58·8	52·9	·403	4·4	1·1	81	531	–	–	1·7	10	6	6	9	–	6·7	15	2·42
		Aug.	29·878	0·601	78·1	47·7	30·4	69·2	56·2	13·0	61·5	55·4	·439	4·9	1·2	81	530	–	–	1·4	10	4	8	9	–	6·0	11	2·38
		Sept.	29·872	0·677	76·1	46·8	29·3	67·0	54·7	12·3	60·2	53·6	·412	4·6	1·3	79	531	–	–	1·7	6	10	5	9	–	5·2	15	3·42
TAUNTON (Somerset), James Bottomley, Esq.	80	July	29·937	0·864	81·0	45·0	46·0	69·8	51·2	18·6	58·8	53·5	·410	4·5	1·0	82	534	81·0	49·5	0·5	8	7	5	11	4·7	6·2	12	4·78
		Sept.	29·952	0·675	78·5	41·1	37·4	68·8	52·1	16·7	59·8	54·2	·421	4·7	0·9	83	533	81·1	52·3	0·5	4	9	7	10	5·6	6·5	15	2·62
SALISBURY (Wilton House), T. Challis, Esq.	186	July	29·785	0·818	81·0	38·0	43·0	70·8	48·4	22·4	58·2	54·0	·418	4·7	0·8	86	532	102·7	46·2	1·4	4	7	5	15	4·3	7·2	13	4·06
		Aug.	29·850	0·684	83·0	39·0	44·0	74·2	50·8	23·4	60·9	56·8	·462	5·2	0·8	87	530	120·5	49·0	1·3	7	5	3	16	4·2	7·0	9	2·30
		Sept.	29·828	0·758	79·0	41·0	38·0	71·7	48·5	23·2	59·3	53·1	·403	4·5	1·1	80	531	111·8	46·0	1·6	5	7	9	9	4·3	5·6	13	2·01
BARNSTAPLE (Devon), T. Mackrell, Esq.	43	July	29·895	0·890	82·0	45·0	37·0	70·3	55·4	14·9	61·0	53·0	·401	4·5	1·5	76	531	–	–	1·3	4	7	7	13	–	3·8	15	3·35
		Aug.	29·998	0·660	80·0	48·0	32·0	72·8	56·8	16·0	63·1	55·5	·442	4·9	1·5	77	530	–	–	1·0	4	3	12	12	–	3·3	16	3·30
		Sept.	29·976	0·670	79·0	47·0	32·0	69·1	57·2	11·9	62·0	56·4	·456	5·1	1·1	82	531	–	–	1·3	2	12	7	9	–	3·3	18	5·53
EASTBOURNE (Sussex), Miss W. L. Hall.	12	July	29·877	1·156	81·5	42·5	39·0	71·2	53·2	18·0	61·0	54·6	·427	4·8	1·2	80	531	121·2	48·0	0·6	4	9	8	10	3·1	–	14	2·77
		Aug.	29·991	0·584	79·8	46·5	33·3	73·9	55·2	18·7	63·7	56·9	·465	5·1	1·4	78	529	124·9	49·9	0·3	4	5	10	11	3·0	–	9	2·39
		Sept.	29·981	0·576	78·1	46·3	31·8	69·8	53·3	16·5	61·3	58·0	·472	5·3	0·7	89	531	116·3	47·0	0·6	2	10	6	12	2·6	–	14	3·54
RAMSGATE (St. Augustine's Monastery), Rev. R. Hugh Quelch, O.S.B.	108	July	29·834	0·866	81·6	43·9	37·7	69·0	53·9	15·1	60·1	50·5	·368	4·1	1·7	70	531	104·3	53·4	1·1	5	10	2	14	–	6·6	18	3·82
		Aug.	29·927	0·537	82·4	50·2	32·2	73·6	60·8	13·3	65·0	57·2	·464	5·1	1·8	77	527	117·7	55·1	1·0	7	9	9	6	–	5·6	8	1·91
		Sept.	29·942	0·664	78·1	47·6	31·5	69·2	54·7	14·5	61·5	54·9	·418	4·7	1·3	75	531	107·5	53·2	1·0	6	8	6	10	–	4·5	11	1·67

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1875. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°										in.
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	July	29·764	1·019	77·7	40·9	36·8	68·2	50·5	17·7	58·0	51·9	·386	4·3	1·1	80	532	115·3	46·8	0·7	10	6	6	9	3·6	7·1	15	5·75
		Aug.	29·838	0·628	83·7	40·9	42·8	72·2	52·5	19·7	61·1	54·4	·424	4·7	1·3	79	530	120·7	48·0	0·5	8	6	5	12	3·7	6·4	11	1·29
		Sept.	29·825	0·734	81·3	40·3	41·0	69·7	50·2	19·5	59·2	54·3	·422	4·7	0·9	85	532	114·8	46·0	0·5	6	8	8	8	2·7	5·4	12	1·89
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	July	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	4·53
		Aug.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	0·84
		Sept.	29·918	0·795	82·5	40·8	41·7	71·3	50·4	20·9	59·6	54·4	·424	4·7	1·0	84	533	106·4	47·7	0·7	7	6	11	6	0·5	5·3	12	1·64
MARLBOROUGH, The Green, (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	474	July	29·477	0·980	76·7	39·6	37·1	66·6	50·3	16·3	57·1	52·1	·389	4·2	1·1	83	527	112·4	46·7	0·2	7	10	4	10	–	6·4	14	5·66
		Aug.	29·544	0·660	81·9	41·2	40·7	70·8	52·6	18·2	60·4	54·2	·421	4·7	1·0	81	525	121·3	49·0	0·2	10	3	6	12	–	5·7	13	2·12
		Sept.	29·534	0·802	78·0	41·2	36·8	68·2	50·8	17·4	58·5	52·8	·400	4·4	1·0	81	527	113·9	47·0	0·2	4	11	6	9	–	5·5	17	3·77
BLACKHEATH (London), James Glaisher, Esq., F.R.S.	160	July	29·778	1·017	78·6	46·0	32·6	67·6	53·2	14·4	58·7	52·0	·389	4·5	0·9	79	531	112·8	50·3	1·4	8	6	6	11	–	6·4	18	5·10
		Aug.	29·863	0·612	86·2	44·3	41·9	73·7	55·3	18·4	62·6	54·3	·422	4·6	1·7	75	528	124·7	52·2	1·2	5	5	11	10	–	5·5	11	2·08
		Sept.	29·867	0·809	80·7	44·8	35·9	70·2	53·0	17·2	60·0	54·2	·420	4·7	1·1	81	531	112·1	50·0	1·2	4	9	9	8	–	5·2	13	2·76
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.A.S., F.M.S.	150	July	29·820	1·046	80·8	37·3	43·5	68·8	48·2	20·6	57·8	52·0	·386	4·3	0·9	81	533	78·6	–	1·7	8	9	5	9	–	7·0	20	5·51
		Aug.	29·890	0·591	85·2	40·3	44·9	73·9	50·9	23·0	61·6	54·8	·429	4·7	1·3	79	530	–	–	1·5	7	2	9	13	–	6·2	13	2·00
		Sept.	29·880	0·816	83·0	39·2	43·8	71·3	49·4	21·9	60·3	53·0	·399	4·5	1·4	77	531	–	–	1·8	7	5	8	10	–	5·1	12	1·86
CAMDEN SQUARE (London), G. J. Symons, Esq., F.M.S.	123	July	29·836	1·017	80·4	42·5	37·9	69·8	52·2	17·6	59·6	52·8	·400	4·5	1·2	79	531	112·3	49·8	–	10	3	7	11	–	5·9	17	4·64
		Aug.	29·915	0·647	86·1	45·3	40·8	74·7	55·0	19·7	63·0	55·6	·443	4·9	1·5	77	528	123·4	51·8	–	9	2	8	12	–	4·9	12	1·79
		Sept.	29·915	0·734	82·8	44·2	36·6	70·8	52·3	18·5	60·4	54·4	·424	4·7	1·1	81	532	109·0	49·1	–	8	2	9	11	–	4·8	15	2·86
CHISWICK (Middlesex), Mr. J. K. M. L. Farquhar.	25	July	29·931	0·856	79·2	39·0	40·2	69·8	50·7	19·1	58·8	53·5	·410	4·6	1·0	81	534	121·3	–	1·0	8	7	7	9	–	7·2	18	5·16
		Aug.	30·004	0·630	85·2	40·2	45·0	74·8	52·7	22·1	62·5	54·2	·420	4·6	1·7	74	531	131·9	47·4	0·8	6	5	10	10	–	6·9	8	0·74
		Sept.	30·020	0·658	81·5	43·0	38·5	71·8	51·4	20·4	60·8	54·1	·420	4·8	1·0	80	533	114·9	44·7	1·3	4	9	7	10	–	6·7	13	2·23
LEICESTER (Town Museum), W. J. Harrison, Esq.	245	July	29·710	1·071	74·4	43·6	30·8	66·6	51·8	14·8	58·2	51·8	·382	4·2	1·2	79	531	118·8	45·0	0·8	7	9	5	10	–	7·3	18	6·46
		Aug.	29·770	0·574	83·2	44·3	38·9	69·2	53·7	15·5	60·8	53·2	·404	4·5	1·3	76	529	125·6	48·1	0·6	6	8	8	9	–	7·3	15	2·65
		Sept.	29·766	0·886	78·1	44·7	33·4	66·2	51·8	14·4	58·2	51·6	·383	4·2	1·2	79	532	112·9	46·0	1·0	4	9	9	8	–	5·7	17	2·65
OXFORD, Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	July	29·731	1·008	76·3	44·9	31·4	67·7	52·1	15·6	59·2	52·6	·400	4·5	1·2	80	530	109·9	48·1	0·9	9	7	4	11	3·0	7·3	18	4·70
		Aug.	29·794	0·661	82·4	44·6	37·8	71·4	55·0	16·4	62·4	55·4	·439	4·9	1·4	78	527	118·7	52·2	0·7	6	4	7	14	2·3	7·1	12	1·89
		Sept.	29·779	0·847	76·4	42·8	33·6	68·1	52·5	15·6	60·0	53·2	·404	4·5	1·2	78	530	114·7	49·2	0·8	4	9	8	9	2·8	6·6	15	2·03
GLOUCESTER, E. Toller, Esq., M.D.	100	July	29·920	0·976	80·9	41·8	39·1	71·9	51·0	20·9	59·4	53·2	·405	4·5	1·2	81	533	112·5	45·5	0·5	10	8	4	9	0·8	5·7	15	6·66
		Aug.	29·973	0·650	86·6	40·7	45·9	75·4	52·9	22·5	62·2	54·4	·424	4·7	1·6	76	531	115·8	46·8	0·6	7	3	8	13	0·4	5·6	11	1·07
		Sept.	29·956	0·656	79·7	39·4	40·3	73·2	50·9	22·3	60·1	56·7	·462	5·2	0·6	89	533	105·7	43·1	0·7	7	7	7	9	1·3	6·1	11	2·41
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	July	29·725	1·031	80·4	42·7	37·7	70·3	49·8	20·5	57·9	53·1	·406	4·5	0·9	84	531	–	–	–	10	7	3	11	–	6·8	16	4·52
		Aug.	29·784	0·623	86·4	41·4	45·0	75·5	51·9	23·6	62·2	55·6	·445	4·9	1·3	79	527	–	–	–	4	4	9	14	–	5·9	12	1·57
		Sept.	29·772	0·715	81·2	42·3	38·9	70·2	50·8	19·4	58·9	52·6	·398	4·4	1·1	79	531	–	–	–	5	7	9	9	–	5·1	14	2·66
CARDINGTON (near Bedford), Mr. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	105	July	29·853	0·930	77·0	40·0	37·0	69·1	51·7	17·4	59·1	53·8	·415	4·7	0·9	83	532	99·0	48·4	1·7	8	8	5	10	–	6·7	17	6·50
		Aug.	29·921	0·606	83·2	44·0	41·2	72·8	53·4	19·4	62·5	53·3	·437	4·9	1·4	78	530	103·5	48·1	1·2	8	3	8	12	–	6·7	11	2·50
		Sept.	29·927	0·684	78·6	41·0	37·6	68·6	51·1	17·5	59·2	53·5	·412	4·7	0·9	82	533	92·5	47·1	1·4	5	7	8	10	–	5·0	13	2·36
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	50	July	29·892	0·942	76·8	42·8	34·0	67·5	52·8	14·7	58·6	54·6	·428	4·8	0·7	86	533	–	45·6	1·1	5	11	9	6	7·7	6·3	15	3·96
		Aug.	29·268	0·554	87·0	42·5	44·5	73·3	54·0	19·3	62·2	55·3	·438	4·9	1·6	78	531	–	45·5	1·3	5	9	11	5	6·7	5·2	10	1·00
		Sept.	29·988	0·710	77·7	41·7	36·0	68·0	52·8	15·2	59·3	55·7	·444	5·0	0·7	89	534	–	44·8	1·4	5	9	9	7	6·6	5·0	12	2·39
CAMBRIDGE (Cambridgeshire), J. W. L. Glaisher, Esq., M.A., F.R.S.	40	July	29·916	0·946	79·0	43·0	36·0	70·6	50·9	19·7	59·2	56·2	·449	5·0	0·8	90	533	131·4	48·4	1·8	5	11	8	7	–	6·9	16	4·98
		Aug.	29·972	0·605	88·0	42·5	45·5	75·2	53·9	21·3	63·3	58·2	·483	5·3	1·1	84	529	139·8	49·1	2·2	9	5	5	12	–	6·6	10	1·00
		Sept.	29·978	0·726	82·4	43·0	39·4	70·9	51·4	19·5	60·0	54·4	·423	4·7	1·1	82	533	124·3	46·3	1·9	8	8	7	7	–	6·0	13	2·25

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1875. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.=100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
NORWICH (Norfolk), John Quinton, Esq., Jun.	42	July	29·906	1·080	75·5	44·0	31·5	66·7	52·9	13·8	58·3	54·5	·426	4·7	0·7	87	534	–	–	–	6	11	5	9	–	7·6	15	5·39
		Aug.	29·933	0·498	78·0	47·5	30·5	71·4	55·3	16·1	61·9	57·7	·477	5·3	0·9	86	530	–	–	–	8	4	8	11	–	–	8	0·95
		Sept.	29·989	0·778	80·0	43·8	36·2	67·6	53·6	14·0	59·6	56·4	·456	5·1	0·7	90	534	–	–	–	5	10	8	7	–	–	14	2·34
WISBECH (Cambridgeshire), S. H. Miller, Esq., F.R.A.S., F.M.S.	14	July	29·951	0·970	78·0	41·0	37·0	69·3	52·2	17·1	59·0	54·6	·427	4·8	0·8	86	534	113·8	49·2	0·5	10	6	6	9	3·8	7·4	16	7·15
		Aug.	29·999	0·596	83·7	48·2	35·5	73·5	54·4	19·1	62·5	57·1	·462	5·2	1·1	82	531	119·8	50·6	0·6	8	5	7	11	2·7	6·9	12	2·39
		Sept.	30·010	0·762	81·0	43·0	38·0	69·5	52·4	17·1	59·8	54·6	·426	4·7	1·0	83	534	111·1	48·1	0·5	8	7	8	7	3·7	5·1	14	2·22
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	100	July	29·883	1·010	77·0	47·2	29·8	66·9	52·6	14·3	58·0	51·2	·377	4·2	1·2	78	534	–	–	0·6	7	5	4	15	–	5·9	15	3·47
		Aug.	29·900	0·630	76·2	47·5	28·7	69·0	55·4	13·6	61·2	53·0	·401	4·4	1·6	75	531	–	–	0·6	3	5	6	17	–	5·5	13	2·00
		Sept.	29·885	0·800	78·0	49·0	29·0	66·3	54·0	12·3	59·4	52·2	·391	4·4	1·2	78	532	–	–	0·8	2	8	7	13	–	5·9	16	4·65
NOTTINGHAM (Notts.), M.O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	183	July	29·749	0·974	83·9	40·9	43·0	69·3	51·3	18·0	58·5	51·5	·381	4·3	1·2	78	531	118·5	49·5	0·5	11	8	5	7	4·0	6·6	17	5·82
		Aug.	29·805	0·542	87·0	43·1	43·9	71·3	52·7	18·6	60·5	53·2	·405	4·5	1·4	77	530	117·6	49·5	0·5	8	6	10	7	2·8	6·0	16	3·73
		Sept.	29·817	0·794	79·3	40·1	39·2	67·8	51·2	16·6	58·5	53·2	·406	4·4	1·1	83	532	104·4	48·4	0·6	4	10	8	8	2·9	6·7	18	2·79
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	39	July	29·891	0·948	74·7	40·9	33·8	65·7	49·5	16·2	57·0	52·6	·396	4·4	0·8	85	535	113·8	47·4	1·6	13	7	6	5	–	6·9	18	8·31
		Aug.	29·949	0·594	84·9	42·2	42·7	70·3	51·5	18·8	60·9	52·6	·392	4·5	1·5	75	532	115·8	49·0	1·8	11	4	9	7	–	5·7	10	0·99
		Sept.	29·965	0·758	76·7	43·2	33·5	66·3	49·5	16·8	58·0	52·9	·401	4·5	0·9	83	535	121·7	47·2	1·8	8	7	9	6	–	5·6	14	1·80
CALCETHORPE MANOR (near) Louth (Lincolnshire), D. Grant Briggs, Esq., F.M.S.	382	July	29·568	1·076	71·3	41·5	29·8	63·7	50·2	13·5	55·6	50·8	·371	4·2	0·8	84	531	118·2	47·7	0·9	9	11	5	6	5·9	7·3	19	5·23
		Aug.	29·614	0·623	80·8	44·0	36·8	67·8	52·8	15·0	59·0	52·7	·399	4·5	1·1	80	528	125·7	50·0	0·8	7	7	8	9	6·9	6·7	16	3·65
		Sept.	29·631	0·929	71·6	41·4	30·2	63·7	50·8	12·9	56·3	50·7	·370	4·2	0·9	82	531	114·8	48·2	1·0	6	8	9	7	7·2	5·6	17	1·94
LIVERPOOL OBSERVATORY, John Hartnup, Esq., F.R.A.S.	197	July	29·761	1·011	75·7	47·9	27·8	64·5	52·8	11·7	57·3	49·4	·355	3·9	1·3	74	533	–	–	1·2	6	7	5	13	–	5·4	19	4·16
ECCLES (near Manchester), T. Mackereth, Esq., F.R.A.S., F.M.S.	145	July	29·825	1·042	78·9	40·3	38·6	68·2	49·5	18·7	57·6	51·6	·382	4·3	1·1	80	533	83·9	43·1	0·2	10	5	4	12	2·2	6·6	18	5·62
		Aug.	29·855	0·614	78·8	42·0	36·8	69·8	51·4	18·4	59·7	53·7	·413	4·6	1·1	82	531	85·4	43·4	0·2	5	6	8	12	1·3	6·8	22	4·07
		Sept.	29·853	1·064	76·6	42·9	33·7	67·2	50·8	16·4	58·6	51·7	·384	4·3	1·1	81	533	78·8	43·0	0·4	2	8	7	13	1·3	5·5	16	5·49
MOOR SIDE OBSERVATORY, HALIFAX (Yorkshire), Louis J. Crossley, Esq., F.R.A.S.	429	July	29·533	0·990	75·5	43·0	32·5	67·5	51·8	15·7	58·0	49·5	·355	3·9	1·5	74	528	104·0	47·2	1·1	8	11	3	9	1·2	7·2	18	5·77
		Aug.	29·560	0·610	79·0	43·2	35·8	69·3	53·0	16·3	59·4	52·6	·397	4·4	1·2	79	527	100·1	47·9	1·2	6	7	6	12	0·3	7·6	15	3·06
		Sept.	29·574	0·871	73·1	42·0	31·1	65·0	50·9	14·1	56·6	50·2	·364	4·2	0·8	81	530	92·3	46·1	1·0	4	11	4	11	1·3	6·6	15	4·39
BERMERSIDE OBSERVATORY, HALIFAX (Yorkshire), Edward Crossley, Esq., F.R.A.S.	520	July	29·415	1·014	78·0	42·3	35·7	66·7	48·8	17·9	56·4	47·8	·334	3·8	1·4	73	528	106·3	47·5	0·5	7	10	5	9	–	5·8	16	6·10
		Sept.	29·477	0·942	75·0	40·2	34·8	64·4	48·5	15·9	55·5	51·0	·375	4·2	0·7	86	529	100·0	–.	0·6	3	12	7	8	–	6·1	15	4·52
HULL (The Park), Mr. E. Peak.	12	July	29·960	1·042	72·0	42·0	30·0	66·1	49·9	16·2	57·8	49·8	·359	4·0	1·2	75	536	92·0	47·7	–	–	–	–	–	2·1	–	16	3·96
		Aug.	30·000	0·596	83·0	42·0	41·0	69·7	53·3	16·4	60·7	55·6	·443	5·0	1·0	84	533	97·3	49·7	–	–	–	–	–	1·8	–	14	4·06
		Sept.	30·004	0·846	72·0	42·0	30·0	65·2	51·6	13·6	57·9	52·4	·394	4·4	1·0	82	536	91·8	46·3	–	–	–	–	–	2·7	–	12	2·65
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.A.S., F.M.S.	363	July	29·577	1·064	77·4	41·8	35·6	68·0	49·9	18·1	57·2	52·4	·392	4·3	0·9	84	529	120·9	48·3	–	6	7	2	16	–	6·8	18	5·69
		Aug.	29·610	0·589	77·7	43·0	34·7	68·2	51·8	16·4	58·8	53·5	·410	4·5	1·0	81	528	120·8	50·0	–	5	6	6	14	–	7·4	20	3·76
		Sept.	29·625	0·892	74·5	42·6	31·9	65·7	51·0	14·7	57·4	51·7	·384	4·3	0·9	81	530	114·0	49·9	–	8	6	10	6	–	6·6	16	5·88
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	366	July	29·601	1·185	75·0	45·4	29·6	68·0	52·5	15·5	58·8	48·3	·339	3·9	1·7	69	528	94·6	–	0·7	7	9	5	10	–	5·6	15	4·10
		Aug.	29·581	0·612	80·0	45·8	34·2	67·3	53·6	13·7	59·2	50·8	·366	4·3	1·4	74	527	87·9	–	0·9	5	6	4	16	–	6·9	12	2·72
		Sept.	29·607	0·862	75·6	44·2	31·4	65·2	52·0	13·2	57·1	50·3	·366	4·1	1·1	78	530	86·7	–	0·6	2	13	4	11	–	5·3	18	3·46
LEEDS PHILOSOPHICAL HALL (Yorkshire), Louis C. Miall, Esq.	137	July	29·820	0·995	83·0	44·0	39·0	70·7	52·2	18·5	60·6	50·5	·366	4·1	1·7	69	530	93·2	–	1·0	11	7	6	7	–	6·3	19	3·11
		Aug.	29·851	0·618	85·0	45·0	40·0	69·3	53·5	15·8	60·7	53·5	·409	4·5	1·3	77	530	90·1	–	1·0	9	4	4	14	–	7·4	21	1·72
		Sept.	29·873	0·911	79·0	43·0	36·0	67·4	51·0	16·4	58·4	51·9	·386	4·3	1·2	79	533	84·8	–	1·0	5	9	6	10	–	5·5	14	2·74

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1875. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.=100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.R.A.S., F.M.S.	146	July	29·811	1·122	77·2	39·9	37·3	67·8	50·8	17·0	58·2	52·1	·390	4·4	1·1	80	532	115·0	44·0	0·3	4	10	9	8	1·5	3·6	14	3·11
		Aug.	29·814	0·612	73·0	44·9	28·1	67·6	54·1	13·5	59·6	52·8	·400	4·5	1·2	79	531	108·8	47·3	0·4	4	8	14	5	2·1	6·7	17	3·34
		Sept.	29·814	0·968	78·4	39·9	38·5	66·0	52·1	13·9	57·7	51·2	·378	4·2	1·0	80	533	101·8	43·0	0·5	2	11	9	8	2·1	5·4	16	5·38
ALLENHEADS (Northumberland), Mr. T. Kidd, Assistant to W. B. Beaumont, Esq., M.P.	1360	July	28·660	0·928	75·0	38·3	36·7	65·6	48·2	17·4	55·3	–	–	–	–	–	–	109·3	45·8	1·0	6	5	12	8	–	5·0	15	6·02
		Aug.	28·572	0·617	71·5	39·0	32·5	63·5	49·6	13·9	54·8	–	–	–	–	–	–	108·9	46·5	1·0	5	5	9	12	–	7·1	16	1·99
		Sept.	28·511	1·050	68·5	37·0	31·5	59·7	46·2	13·5	51·7	–	–	–	–	–	–	101·6	43·9	1·4	1	11	8	10	–	6·2	18	4·20
SILLOTH RECTORY (Cumberland), Rev. Francis Redford., M.A., F.R.A.S., F.M.S.	28	July	29·944	1·040	79·8	41·8	38·0	71·5	50·1	21·4	59·0	52·0	·388	4·4	1·2	78	534	106·3	46·3	1·2	3	9	4	15	7·4	4·4	16	2·07
		Aug.	29·953	0·637	75·5	44·2	31·3	70·3	53·4	16·9	60·2	54·5	·424	4·7	1·1	82	532	102·8	49·6	1·2	2	9	5	14	8·4	6·2	16	2·10
		Sept.	29·944	1·138	77·2	38·9	38·3	66·0	50·1	15·9	57·0	50·8	·371	4·1	1·1	79	536	96·6	46·7	1·4	1	12	6	11	8·9	5·2	18	4·48
CARLISLE (Cumberland), Isaac Cartmell, Esq., F.M.S.	114	July	29·861	1·089	78·3	39·7	38·6	69·1	48·6	20·5	58·3	48·3	·338	3·8	1·7	69	533	106·7	44·2	1·7	6	7	3	15	6·9	5·4	15	4·03
		Aug.	29·840	0·902	74·8	38·6	36·2	68·6	51·7	16·9	59·2	53·1	·405	4·6	1·1	81	532	101·0	47·3	2·0	5	5	7	14	6·7	7·2	19	2·14
		Sept.	29·880	1·044	77·4	37·3	40·1	65·2	48·1	17·1	55·8	49·6	·357	4·0	1·0	81	536	88·7	43·4	1·7	4	10	6	10	5·5	6·2	19	3·61
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	July	29·845	1·026	78·0	46·0	32·0	67·8	54·2	13·6	59·0	49·5	·354	4·0	1·6	71	532	98·2	48·3	1·3	6	12	5	8	–	3·7	17	4·21
		Aug.	29·856	0·558	77·0	47·0	30·0	67·5	55·1	12·4	59·6	52·8	·400	4·5	1·2	79	532	87·0	49·6	1·1	4	9	5	13	–	5·0	21	4·19
		Sept.	29·856	1·166	72·0	43·0	29·0	65·3	51·5	13·8	56·7	51·5	·381	4·3	0·9	83	535	88·4	45·6	1·2	3	12	4	11	–	4·8	17	2·92
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	July	29·872	0·999	71·0	44·0	27·0	62·5	51·4	11·1	55·9	50·3	·366	4·1	0·9	82	536	–	50·4	1·5	12	8	4	7	–	5·1	12	5·38
		Aug.	29·891	0·651	72·3	42·8	29·5	64·8	53·4	11·4	57·8	51·4	·380	4·3	0·9	84	534	–	52·7	1·5	8	5	4	14	–	6·4	16	3·41
		Sept.	29·900	1·123	70·3	41·8	28·5	59·0	51·2	7·8	54·8	49·3	·350	3·9	0·9	81	538	–	50·0	1·5	10	7	3	10	–	5·8	19	2·59
MILLTOWN (Banbridge, Ireland), John P. Smyth, Esq., jun., M.A., M.I.C.E.I., F.G.S.	200	July	29·662	1·124	74·0	37·0	37·0	65·6	48·8	16·8	56·2	48·8	·348	3·9	1·1	76	532	104·0	46·5	1·7	11	4	7	9	–	4·6	17	3·87
		Aug.	29·636	0·632	72·0	42·0	30·0	66·7	52·4	14·3	58·3	52·0	·389	4·3	1·1	79	529	–	46·5	1·7	5	5	10	11	–	5·5	15	2·42
		Sept.	29·626	0·947	70·0	39·0	31·0	63·5	49·6	13·9	56·4	50·1	·365	4·2	0·8	80	531	113·0	43·6	2·0	6	9	10	5	–	4·2	14	4·65

NOTE.—*The Barometer Reading*, Leeds, 12th September, 10h. a.m., 30·480 in., has been altered to 30·280 in.
" " 13th " 10h. a.m., 30·475 in., " 30·275 in.
" " 13th " 4h. p.m., 30·460 in., " 30·260 in.
" " 16th " 4h. p.m., 30·890 in., " 30·090 in.
" " 17th " 10h. a.m., 30·680 in., " 30·086 in.
" " 17th " 4h. p.m., 30·206 in., " 30·006 in.

Second Rain-gauges are placed—

			July.	August.	September.	Total during the Quarter.
At Strathfield Turgiss, at the height of 38 feet *above the ground*, the amount collected was			2·59 inches.	0·85 inches.	1·30 inches.	4·74 inches.
" Oxford,	"	22 feet	4·55 "	1·84 "	1·99 "	8·38 "
" Cardington,	"	36 feet	5·75 "	2·00 "	2·00 "	9·75 "
" Wisbech,	"	8 feet	7·08 "	2·38 "	2·21 "	11·67 "
" Nottingham,	"	39 feet	5·55 "	3·82 "	2·46 "	11·83 "
" Holkham,	"	4 feet	8·43 "	1·09 "	1·81 "	11·33 "
" Eccles (Manchester),	"	34 feet	5·31 "	2·79 "	4·92 "	14·02 "
" Milltown (Ireland),	"	40 feet	3·65 "	2·38 "	4·36 "	10·39 "

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·593	76·5	49·5	27·0	65·5	56·3	22·0	9·2	59·1	55·8	·444	4·9	0·7	89	531	—	—	1·1	8	7	7	9	3·6	4·4	43	7·02
Helston	29·583	83·0	42·0	41·0	71·1	53·7	35·7	17·4	61·0	54·0	·418	4·8	1·3	79	530	94·2	52·4	2·0	8	7	8	8	4·1	4·1	48	10·64
Truro	29·595	78·0	40·0	38·0	68·5	54·0	36·0	14·5	59·7	52·8	·400	4·5	1·2	78	534	—	—	2·4	8	6	5	11	—	6·0	44	11·01
Osborne	29·576	85·6	44·5	41·1	71·2	54·1	35·1	17·1	60·8	55·7	·444	5·0	1·0	84	530	103·2	51·8	0·2	6	8	8	9	—	5·9	35	5·71
Brighton	29·599	77·0	44·0	33·0	68·7	55·0	29·5	13·7	61·2	54·1	·420	4·7	1·4	78	529	109·1	52·2	0·9	6	7	8	10	—	6·9	31	5·86
Hastings	29·611	78·1	45·3	31·8	67·3	55·1	29·5	12·2	60·2	54·0	·418	4·6	1·2	80	531	—	—	1·6	9	7	6	9	—	6·0	41	8·23
Salisbury	29·588	83·0	38·0	45·0	72·2	49·2	41·7	23·0	59·5	54·6	·428	4·8	0·9	84	531	111·7	47·1	1·4	5	6	6	13	4·3	6·6	35	8·37
Barnstaple	29·569	82·0	45·0	37·0	70·7	56·5	33·7	14·2	62·0	55·0	·433	4·8	1·4	78	531	—	—	1·2	3	7	9	11	—	3·5	49	12·18
Ramsgate	29·600	82·4	43·9	38·5	70·6	56·3	33·8	14·3	62·1	55·9	·417	4·6	1·6	75	530	109·8	53·9	1·0	6	9	6	10	—	5·6	37	7·40
Strathfield Turgiss	29·611	83·7	40·3	43·4	70·0	51·1	40·2	18·9	59·4	53·5	·411	4·6	1·0	81	531	116·9	46·9	0·6	8	7	6	10	3·3	6·3	38	8·95
Marlborough Green	29·596	81·9	39·6	42·3	68·5	51·2	38·2	17·3	58·7	53·0	·403	4·4	1·0	82	526	115·9	47·6	0·2	7	8	5	10	—	5·9	44	11·55
Blackheath	29·598	86·2	44·3	41·9	70·5	53·8	36·8	16·7	60·4	53·5	·410	4·6	1·2	78	530	116·5	50·8	1·3	6	7	8	10	—	5·7	42	9·94
Streatley Vicarage	29·622	85·2	37·3	47·9	71·3	49·5	44·1	21·8	59·9	53·3	·405	4·5	1·2	79	531	—	—	1·7	7	5	7	11	—	6·1	45	9·37
Camden Square	29·600	86·1	42·5	43·6	71·8	53·2	38·4	18·6	61·0	54·3	·422	4·7	1·3	79	530	114·9	50·2	—	9	2	8	11	—	5·2	44	9·29
Chiswick	29·595	85·2	39·0	46·2	72·1	51·6	41·2	20·5	60·7	55·9	·417	4·7	1·2	78	533	122·7	—	1·0	6	7	8	10	—	6·9	39	8·15
Leicester	29·623	83·2	43·6	39·6	67·3	52·4	34·4	14·9	59·1	52·9	·390	4·3	1·2	78	531	119·1	46·4	0·8	6	9	7	9	—	6·8	50	11·76
Oxford	29·581	82·4	42·8	39·6	69·1	53·2	34·3	15·9	60·5	53·7	·414	4·6	1·3	79	529	114·4	49·8	0·8	6	7	6	11	2·7	7·0	45	8·53
Gloucester	29·628	86·6	39·4	47·2	73·5	51·6	41·8	21·9	60·6	54·8	·430	4·8	1·1	82	532	111·3	45·1	0·6	8	6	6	10	0·8	5·8	37	10·14
Royston	29·634	86·4	41·4	45·0	72·0	50·8	40·5	21·2	59·7	53·8	·416	4·6	1·1	81	530	—	—	—	6	6	7	11	—	5·9	42	8·75
Cardington	29·587	85·2	40·0	45·2	70·2	52·1	38·6	18·1	60·3	54·2	·421	4·8	1·1	81	532	93·3	47·9	1·4	7	5	7	11	—	6·1	41	11·36
Cambridge	29·546	88·0	42·5	45·5	72·2	52·1	40·3	20·1	60·8	56·2	·452	5·0	1·0	85	532	131·8	47·9	2·0	7	8	7	9	—	6·5	39	8·29
Norwich	29·536	80·0	43·8	36·2	68·6	53·9	32·7	14·7	59·9	56·2	·453	5·0	0·8	88	532	—	—	—	6	8	7	9	—	—	37	8·65
Wisbech	29·554	83·7	41·0	42·7	70·8	53·0	46·8	17·8	60·4	55·4	·438	4·9	1·0	84	533	114·9	49·3	0·5	9	6	7	9	3·0	6·5	42	11·76
Llandudno	29·607	78·0	47·2	30·8	67·4	54·0	29·2	13·4	59·5	52·1	·390	4·3	1·3	77	532	—	—	0·7	4	6	6	15	—	5·8	44	10·12
Nottingham	29·590	87·0	40·1	46·9	69·5	51·7	42·0	17·8	59·2	52·6	·397	4·4	1·2	79	531	113·5	49·1	0·5	8	8	8	7	3·2	6·4	51	12·34
Calcethorpe	29·629	80·8	41·4	39·4	65·1	51·3	32·3	13·8	57·0	51·4	·380	4·3	0·9	82	530	119·6	48·6	0·9	7	9	7	7	6·7	6·5	52	10·82
Eccles	29·607	78·9	40·3	38·6	68·4	50·6	36·4	17·8	58·4	52·3	·383	4·4	1·1	81	532	82·7	43·2	0·3	6	6	6	12	1·6	6·3	56	13·22
Moorside, Halifax	29·639	79·0	42·0	37·0	67·3	51·9	33·1	15·4	58·0	50·8	·372	4·2	1·2	78	528	98·8	47·1	1·1	6	10	4	11	0·9	7·1	48	10·61
Hull	29·602	83·0	42·0	41·0	67·0	51·6	33·7	15·4	58·8	52·6	·399	4·5	1·1	80	535	93·7	47·9	—	—	—	—	—	2·2	—	42	15·33
Stonyhurst	29·594	77·7	41·8	35·9	67·3	50·9	34·1	16·4	57·8	52·5	·395	4·4	0·9	82	529	118·6	49·4	—	6	6	6	12	—	6·9	45	10·28
Bradford	29·623	80·0	44·2	35·8	66·8	52·7	31·7	14·1	58·4	49·8	·357	4·1	1·4	74	528	89·7	—	0·7	5	9	4	12	—	5·9	45	7·37
Leeds	29·609	85·0	43·0	42·0	69·1	52·2	38·3	16·9	59·9	52·0	·387	4·3	1·4	75	531	89·4	—	1·0	8	7	5	10	—	6·4	54	11·83
Cockermouth	29·584	78·4	39·9	38·5	67·1	52·3	34·6	14·8	58·5	52·0	·389	4·4	1·1	80	532	108·5	44·8	0·4	3	10	11	7	1·9	5·2	47	12·21
Allenheads	—	75·0	37·0	38·0	62·9	48·0	33·6	14·9	53·9	—	—	—	—	—	—	106·6	45·4	1·1	4	7	10	10	—	6·1	49	8·63
Silloth	29·584	79·8	38·9	40·9	69·3	51·2	35·5	18·1	58·7	52·4	·394	4·4	1·1	80	534	101·9	47·5	1·3	2	10	5	13	8·2	5·3	50	9·73
Carlisle	29·616	78·3	37·3	41·0	67·6	49·5	38·3	18·1	57·8	50·3	·367	4·1	1·3	77	534	98·8	45·0	1·8	5	7	5	13	6·4	6·3	53	8·23
Bywell	29·569	78·0	43·0	35·0	66·9	53·6	30·3	13·3	58·4	51·3	·378	4·3	1·2	78	533	91·2	47·8	1·2	4	11	5	11	—	4·5	55	11·32
North Shields	—	72·3	41·8	30·5	62·1	52·0	28·3	10·1	56·2	50·3	·365	4·1	0·9	82	536	—	51·0	1·5	10	7	4	10	—	5·8	47	11·58
Milltown (Ireland)	—	74·0	37·0	37·0	65·3	50·3	32·7	15·0	57·0	50·3	·367	4·1	1·0	78	531	—	45·5	1·8	7	6	9	8	—	4·8	46	10·94

The highest temperatures of the air were at Cambridge, 88°; and Nottingham, 87°.

The lowest temperatures of the air were at Allenheads and Milltown, 37°; and Streatley and Carlisle, 37°·3.

The greatest daily ranges of the temperatures of the air were at Salisbury, 23°; and Gloucester, 21°·9.

The least daily ranges of the temperatures of the air were at Guernsey, 9°·2; and North Shields, 10°·1.

The greatest numbers of rainy days were at Eccles, 56; and Bywell, 55.

The least numbers of rainy days were at Brighton, 31; and at Osborne and Salisbury, 35.

The heaviest falls of rain were at Stonyhurst, 15·33 inches; and Eccles, 15·18 inches.

The least falls of rain were at Osborne, 5·71 inches; and Brighton, 5·86 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days on which it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·593	76·5	49·5	27·0	65·5	56·3	22·0	9·2	59·1	55·8	·444	4·9	0·7	89	531	—	—	1·1	8	7	7	9	3·6	4·4	43	7·02
Between the latitudes 50° and 51°	29·591	81·2	43·2	38·0	69·5	54·2	34·1	15·3	60·4	54·1	·420	4·7	1·2	80	531	98·7	52·1	1·8	8	7	7	9	—	5·5	42	8·88
Between the latitudes 51° and 52°	29·601	84·0	41·3	42·7	70·6	52·5	38·2	18·2	60·3	53·8	·415	4·6	1·2	79	530	115·3	48·6	1·0	6	7	7	11	2·8	5·9	42	9·63
Between the latitudes 52° and 53°	29·581	84·0	42·3	41·7	70·1	52·5	38·6	17·6	60·0	54·4	·424	4·7	1·1	82	532	114·6	48·6	1·0	7	7	7	10	3·1	6·2	39	10·18
Between the latitudes 53° and 54°	29·615	80·6	42·1	38·5	67·3	51·6	34·2	15·7	58·3	51·6	·383	4·3	1·1	79	530	98·9	45·2	0·8	6	8	5	11	2·8	6·5	50	11·87
Between the latitudes 54° and 55°	29·588	77·9	39·2	38·7	66·8	50·9	34·5	15·9	57·5	51·5	·382	4·3	1·2	79	533	101·4	46·1	1·2	4	9	7	11	5·5	5·5	51	10·76
Mean for the Quarter, 50° to 55° — Year 1872	29·489	85·2	34·3	50·9	68·9	52·2	41·4	16·7	59·3	52·7	·403	4·5	1·2	79	529	108·7	46·4	1·1	6	5	8	12	3·4	5·6	46	10·13
Mean for the Quarter, 50° to 55° — " 1873	29·536	87·5	36·6	50·9	67·9	51·3	37·5	16·6	58·4	51·9	·389	4·3	1·2	79	529	103·9	45·5	1·0	4	3	9	15	4·2	5·6	49	8·89
Mean for the Quarter, 50° to 55° — " 1874	29·527	85·3	40·2	45·1	69·3	51·6	36·7	17·7	59·2	52·0	·389	4·4	1·3	78	529	108·8	46·2	1·2	4	4	9	14	3·6	5·6	47	8·09
Mean for the Quarter, 50° to 55° — " 1875	29·595	81·5	41·6	39·9	68·9	52·3	35·9	16·6	59·3	53·1	·405	4·5	1·2	80	531	101·8	48·1	1·2	6	8	7	10	3·5	5·9	45	10·27

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING DECEMBER 31, 1875.

Remarks on the Weather during the Quarter ending December 31st, 1875.

By James Glaisher, Esq., F.R.S., *&c.*

The month of October was generally cold and wet. The temperature of the air was for a few days together a little in excess of the average temperature, then for several days in defect, and so successively till November 2nd, the average daily deficiency of temperature for the first 33 days of the quarter being 1°·7. On November 3rd a warm period set in and lasted till the 19th, not continuously, as for 3 or 4 days the temperature fell below its average. The average daily excess of temperature for this period was 3°·0. On November 20th a bitterly cold period commenced and continued till December 16th, the average daily deficiency of temperature being 7°·4. The temperature on several days together was more than 10° in defect, on December 4th and 5th it was about 14½°, and the average daily defect from November 30th to December 7th was 12°. During this period the sky was almost always overcast, snow fell all over the country, and drifted in some places to a great depth; the wind was N. and N.E., and the air was very cold; and owing to the cloudy state of the sky the general deficiency of temperature was chiefly due to the want of heat during the daytime.

The average maximum of the temperatures at the end of November and beginning of December is about 46° or 47°. The following table shows the highest temperatures of the air, as noted at the different stations, and the deficiency of day temperature will be seen by subtracting the observed temperature from 46° or 47°.

Names of Stations.	Maximum Temperatures of the Air from 29th November to 10th December 1875. Nov. 29th.	Nov. 30th.	Dec. 1st.	Dec. 2nd.	Dec. 3rd.	Dec. 4th.	Dec. 5th.	Dec. 6th.	Dec. 7th.	Dec. 8th.	Dec. 9th.	Dec. 10th.
	°	°	°	°	°	°	°	°	°	°	°	°
Guernsey	40·0	39·0	37·5	38·5	39·0	40·5	36·5	37·5	41·0	42·5	43·0	45·5
Helston	47·0	50·0	50·0	44·0	44·0	52·0	38·0	46·0	48·0	50·0	45·0	46·0
Truro	38·0	39·0	37·0	43·0	40·0	41·0	38·0	38·0	36·0	41·0	41·0	44·0
Osborne	35·3	32·5	33·6	36·4	33·6	36·3	33·3	32·5	34·8	37·6	37·0	42·9
Bournemouth	37·0	32·5	33·3	36·5	33·0	35·6	31·8	32·5	33·4	35·9	35·6	39·1
Hastings	35·1	34·6	31·7	32·2	31·6	33·9	30·5	30·4	31·4	37·5	37·5	39·8
Salisbury	37·0	33·0	40·0	37·0	34·0	41·0	35·0	33·5	36·0	38·0	38·0	44·0
Barnstaple	38·0	39·0	37·5	39·0	40·0	38·0	39·5	37·0	37·0	37·0	39·5	40·5
Ramsgate	35·9	31·1	32·2	—	34·5	34·1	35·4	34·0	36·7	37·6	35·8	38·0
Strathfield Turgiss	36·0	33·0	34·3	35·9	32·2	35·0	31·5	33·2	34·3	36·6	36·8	41·3
Weybridge Heath	35·8	32·3	33·0	34·5	32·0	33·0	31·8	32·5	34·0	37·0	37·3	41·0
Marlborough	35·0	33·0	33·2	34·9	32·7	34·1	32·2	31·6	32·8	35·7	36·8	39·4
Bristol	36·4	34·8	36·0	37·4	35·5	36·4	33·9	33·0	34·4	38·4	36·9	41·2
Blackheath	38·1	35·1	33·1	34·6	33·4	31·4	31·8	33·1	34·3	36·1	37·3	39·4
Royal Observatory	35·9	33·2	32·3	33·5	32·5	31·0	31·7	33·1	35·9	36·8	38·4	39·3
Beckenham	35·0	33·0	32·5	32·0	32·0	30·5	31·5	32·0	35·0	37·0	37·0	40·5
Streatley	36·9	36·8	32·8*	34·5	35·3	33·8	40·3	32·5	33·0	34·0	36·9	37·2
Camden Square	36·4	32·7	33·3	34·8	32·3	33·0	32·6	35·6	36·2	37·6	38·7	40·4
Chiswick	37·0	37·2	33·7	34·7	35·2	34·0	32·5	33·0	35·2	37·5	38·7	39·7
Leicester	36·8	35·7	36·4	35·9	36·3	35·4	32·2	33·1	36·0	37·8	39·1	40·8
Oxford	36·0	36·1	35·0	35·0	34·2	35·8	33·0	34·0	35·8	37·0	39·0	42·1
Gloucester	44·0	37·3	36·7	35·2	36·4	36·7	34·4	33·7	36·5	40·2	39·0	42·7
Cardington	38·4	36·6	33·6	36·4	35·0	35·0	35·4	32·0	33·0	36·0	38·4	38·0
Lampeter	37·0	36·0	37·0	39·5	41·0	39·0	35·5	36·5	35·0	34·0	43·0	42·5
Somerleyton	37·5	35·0	37·0	35·0	34·5	37·0	37·0	34·0	36·0	40·5	41·5	39·0
Cambridge	36·0	33·0	36·0	33·8	35·0	34·4	33·2	33·0	36·8	37·0	37·2	40·0
Norwich	36·5	35·0	36·8	36·0	35·0	33·5	33·0	33·0	35·5	37·0	36·8	38·5
Birmingham	36·8	35·0	37·6	36·0	38·0	37·8	31·2	37·2	37·4	37·8	39·2	43·0
Wolverhampton	35·6	34·3	35·8	35·0	36·0	37·0	34·7	33·0	35·8	37·1	37·0	41·0
Wisbech	37·0	34·4	38·5	36·0	36·0	35·0	33·5	35·0	36·7	36·1	36·2	40·4
Llandudno	40·5	38·0	39·9	41·3	43·3	38·5	36·8	35·7	44·4	41·0	44·2	46·0
Nottingham	38·3	34·8	35·9	35·0	34·2	35·0	34·8	32·3	33·0	36·4	40·0	39·7
Holkham	39·5	38·2	36·2	38·0	36·5	37·6	34·6	35·4	36·5	38·8	37·5	40·0
Sheffield	37·2	37·1	37·0	36·0	37·0	35·0	34·0	34·5	37·0	37·0	39·0	44·0
Calcethorpe	36·0	35·3	35·0	35·0	35·3	34·4	32·3	33·2	34·1	34·0	36·0	37·8
Liverpool	39·0	36·8	35·8	36·3	36·1	39·5	36·9	32·5	33·2	36·5	37·8	42·0
Eccles	37·6	36·7	38·6	36·6	38·5	38·8	36·2	34·6	36·9	38·2	36·5	43·5
Moor Side	35·4	35·1	34·8	34·8	36·5	35·2	31·1	34·1	36·2	36·2	39·8	43·1
Bermerside	34·9	33·0	34·3	34·0	35·4	35·0	31·4	32·3	35·0	35·1	40·2	40·0
Hull	38·0	38·0	38·0	38·0	38·0	36·0	34·0	34·0	36·0	37·0	39·0	40·0
Stonyhurst	37·4	36·0	35·9	39·2	39·7	38·0	33·7	32·8	36·5	37·5	40·0	43·6
Bradford	37·8	36·8	35·2	35·6	35·7	37·4	35·5	31·6	33·6	35·6	36·3	39·6
Leeds	36·0	—	37·0	36·0	38·0	38·0	—	35·0	36·0	38·0	42·0	43·0
Cockermouth	37·2	34·8	35·5	33·4	35·3	35·9	31·9	32·7	33·7	33·8	37·2	41·8
Allenheads	35·0	35·5	30·0	32·5	30·0	35·0	—	27·5	28·0	30·0	30·0	36·0
Silloth	40·2	37·3	37·3	36·3	40·0	39·0	34·3	33·8	35·3	36·7	39·6	42·1
Sunderland	39·0	38·0	38·0	39·0	42·0	43·0	40·0	36·0	36·0	37·0	39·0	42·0
Carlisle	37·7	35·1	36·4	31·4	35·9	36·3	32·4	33·3	33·5	34·8	37·0	49·5
Bywell	38·0	37·0	38·0	37·0	38·0	36·0	35·0	35·0	38·0	38·0	40·0	42·0
Newcastle-on-Tyne	42·0	42·0	44·0	—	40·0	40·0	—	37·0	35·0	37·0	—	42·0
North Shields	39·4	38·5	39·7	40·2	37·0	40·0	38·0	37·0	36·6	35·6	38·0	41·5
Milltown (Ireland)	39·0	38·0	38·0	35·0	36·0	37·0	35·0	34·0	35·0	34·0	40·0	39·0

On looking over this table it will be seen that the severity of the weather fell more upon the Midland districts than on either the extreme Northern or extreme Southern stations, and that on several days the highest temperature in the former was about 32° only.

From the 17th of December to the end of the year the weather was mild, the wind was from the S.W., and the daily temperature was in excess of the average to the mean amount of 5°·9 daily.

The readings of the barometer at 160 feet above the level of the sea in the neighbourhood of London were alternately above and below their averages for 2 or 3 days together from the 1st to the 10th of October; below their averages from the 11th to the 23rd, above their averages from

the 24th to the end of the month, with the exception of the 27th and 31st, which were 0·18 in. and 0·03 in. below. The greatest departure in excess of the average was 0·58 in. on the 6th, and the greatest departure in defect was 0·67 in. on the 13th. In November the readings of the barometer were below their averages from the 1st to the 14th; above their averages from the 15th to the end of the month, with the exception of the 19th and last day, which were 0·24 in. and 0·04 in. below. The greatest departure in defect of the average was 1·01 ins. on the 10th, and the greatest departure in excess was 0·31 in. only on the 23rd. From the 1st to the 4th of December the barometer readings were below their averages; from the 5th to the 16th the readings were above their averages; from the 17th to the 22d they were below, and from the 23d to the end of the year they were above. The greatest departure in excess of the average was 0·45 in. on the 8th; the greatest departure in defect was 0·36 in. on the 19th.

At Greenwich *the mean temperature* of October was 11°·5 lower than in September; that of November was 6°·4 lower than in October; and that of December 3°·4 lower than in November. (From the preceding 34 years' observations the mean temperature of October is 7°·0 lower than in September; that of November is 6°·6 lower than in October; and that of December is 3°·5 lower than that of November.)

The mean temperature of the air for October was lower than that of September at the extreme Southern and Northern stations by amounts somewhat less than at the Midland stations; the mean of all was 10°·2; that of November below that of the preceding month was very nearly the same everywhere; the mean of all was 7°; that of December below that of November was very different at different parallels of latitude; South of latitude 51¼° it was 4°·2; between 51¼° and 52° it was 3°·6; between 52° and 52½° it was 2°·7; from 52½° to 53½° it was 1°·8, and North of 53½° it was 0°·9 only.

The mean temperature of the air for October was 48°·5, being 1°·1 lower than the average of the preceding 104 years, and 1°·7 lower than the average of the preceding 34 years; it was 0°·7 higher than the value in 1873, and 3°·2 lower than in 1874.

The mean temperature of the air for November was 42°·1, being 0°·2 and 1°·5 lower than the average of the preceding 104 years and 34 years; it was 2°·1 lower than the value in 1873, and 0°·1 higher than in 1874.

The mean temperature of the air for December was 38°·7, being 0°·4 lower than the average of the preceding 104 years, and 1°·4 lower than the average of the preceding 34 years; it was 1°·9 lower than the value in 1873, and 5°·5 higher than in 1874.

The mean high day temperatures of the air were 1°·7, 1°·4, and 2°·4 lower than their respective averages in October, November, and December.

The mean low night temperatures of the air were 1°·5 and 0°·9 lower than their respective averages in October and December, but 0°·2 higher in November.

The mean daily ranges of temperature were 1°·1, 1°·6 and 1°·3 less than their respective averages in October, November, and December.

At Greenwich the decrease of atmospheric pressure from September to October was 0·259 in., the increase from October to November was 0·022 in., and the increase from November to December was 0·307 in. Over the whole country there was a very uniform decrease of pressure from September to October to the mean amount of 0·254 in., from October to November there was an average increase of 0·039 in., and from November to December there was an increase somewhat smaller at extreme North stations, the mean of all being 0·274 in.

The beginning and middle of the month of October was wet, and the fall of rain was in excess and caused destructive floods in many places. The fall of rain at Leicester on 9th October was 2·24 ins. in 10 hours. In November the fall of rain at most places was in excess, and in December was generally in defect.

At Greenwich the fall of rain in October was 4·1 ins. exceeding the average by 1·3 ins.; the heaviest fall in one day was 0.79 in. on the 19th; in November the fall was 2·9 ins., exceeding the average by 0·6 in.; the heaviest fall in one day was 0·59 in. on the 13th; and in December the fall was 1·1 ins., being 0·9 in. less than the average.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter, were as follows:—

Direction of Wind.	October.			November.			December.		
	Average.	1875.	Departure from Average.	Average.	1875.	Departure from Average.	Average.	1875.	Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	2	2	0	2¼	4	+1¾	2	2	0
N.	3	2	−1	3¼	3	−¼	2¾	4	+1¼
N.E.	2½	3	+½	3½	7	+3½	2	3	+1
E.	1	4	+3	2	1	−1	1¾	1	−¾
S.E.	1¾	6	+4¼	2	3	+1	1¾	1	−¾
S.	3½	4	+½	3½	4	+½	3	4	+1
S.W.	9½	5	−4½	7¾	5	−2¾	9¾	12	+2¼
W.	4¼	5	+¾	2	4	+2	4	4	0
Calm (nearly.)	3¾	0	−3¾	3¼	0	−3¼	4	0	−4

The + signs denote excesses over averages; in the month of October the largest number affected with this sign is opposite to S.E., in November to N.E., and in December to S.W. and N.

The − signs denote below averages; in October the largest number with this sign is S.W., in November is S.W., and in December is E. and S.E.

1875. Months.	Temperature of Air. Mean.	Temperature of Air. Diff. from average of 104 years.	Temperature of Air. Diff. from average of 34 years.	Temperature of Evaporation. Mean.	Temperature of Evaporation. Diff. from average of 34 years.	Temperature of Dew Point. Mean.	Temperature of Dew Point. Diff. from average of 34 years.	Temperature of Air—Daily Range. Mean.	Temperature of Air—Daily Range. Diff. from average of 34 years.	Temperature of Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 34 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 34 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.
Oct. -	48·5	−1·1	−1·7	46·4	−1·8	44·1	−2·1	13·7	−1·1	52·8	0·290	−0·024	3·3	−0·3
Nov. -	42·1	−0·2	−1·5	40·2	−1·2	37·7	−1·8	10·1	−1·6	44·0	0·227	−0·020	2·6	−0·2
Dec. -	38·7	−0·4	−1·4	37·3	−1·3	35·5	−1·3	8·2	−1·3	38·3	0·208	−0·012	2·3	−0·3
Means -	43·1	−0·6	−1·5	41·3	−1·4	39·1	−1·7	10·7	−1·3	45·0	0·242	−0·019	2·7	−0·3

1875. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 34 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 34 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 34 years.	Rain. Amount.	Rain. Diff. from average of 60 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Number of Nights it was Between 30° and 40°.	Number of Nights it was Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
Oct. -	86	−1	29·608	−0·091	540	+1	4·1	+1·3	269	5	16	10	28·6	47·6
Nov. -	86	−2	29·630	−0·125	547	−1	2·9	+0·6	350	10	15	5	23·7	48·2
Dec. -	88	0	29·937	+0·136	557	+5	1·1	−0·9	287	13	15	3	20·1	41·5
Means -	87	−1	29·725	−0·027	548	+2	Sum 8·1	Sum +1·0	Mean 302	Sum 28	Sum 46	Sum 18	Lowest 20·1	Highest 48·2

NOTE.—In reading this table it will be borne in mind that the minus sign (−) signifies below the average, and that the plus sign (+) signifies above the average.

Thunderstorms occurred, on the 5th of October at Cockermouth and Bywell; on the 11th at Guernsey, Llandudno, and Bywell; on the 12th at Guernsey; on the 19th at Guernsey, Bournemouth, Salisbury, Streatley, and Oxford; on the 21st at Hastings, Royston, and Cardington; and on the 22nd at Ramsgate, Norwich, and Hull. On the 7th of November at Guernsey, Truro, Osborne, and Bournemouth; on the 10th at Ramsgate; on the 11th at Hastings, and Eccles; on the 14th at Guernsey; on the 20th at Norwich; and on the 26th and 29th at Guernsey. On the 4th of December at Guernsey; on the 5th at Bywell; and on the 22nd at Carlisle and Bywell.

Thunder was heard, but lightning was not seen, on the 4th of October at Ramsgate; on the 5th at Silloth; on the 11th at Wisbech; and on the 21st at Cambridge. On the 8th of November at Carlisle; and the 9th at Strathfield Turgiss. On the 22nd of December at Stonyhurst.

Lightning was seen, but thunder was not heard, on the 2nd of October at Cambridge; on the 11th at Hastings and Cambridge; on the 12th at Osborne, Hastings, Salisbury, Ramsgate, and Wisbech; on the 18th at Strathfield Turgiss; on the 19th at Oxford; on the 20th at Osborne; on the 21st at Ramsgate, Strathfield Turgiss, Oxford, Cambridge, Norwich, and Calcethorpe; and on the 28th at Salisbury. On the 5th of November at Norwich; on the 8th at North Shields; and on the 11th at Halifax and Carlisle. On the 19th of December at Salisbury; on the 21st at North Shields; and on the 22nd at Oxford, Cambridge, Hull, and Silloth.

Solar halos were seen on the 7th and 13th of October at Hastings; on the 17th at Hastings, Weybridge Heath, Cardington, and Wisbech; on the 23rd at Halifax; on the 25th at Oxford and Halifax; and on the 26th at Calcethorpe. On the 7th of November at Hastings; on the 9th at Calcethorpe; on the 11th at Strathfield Turgiss and Oxford; on the 12th at Hastings, Strathfield Turgiss, and Oxford; on the 15th at Carlisle; and on the 17th at Hastings and Oxford. On the 10th of December at Hastings, Cardington, Wisbech, Calcethorpe, and Halifax; on the 20th at Halifax; on the 21st at Hastings and Oxford; and on the 29th at Hastings.

Lunar halos were seen on the 11th of October at Oxford; on the 13th at many places; and on the 17th at Ramsgate and Oxford. On the 8th of November at Taunton and North Shields; on the 9th at North Shields; on the 10th at Cockermouth; on the 11th and 12th at most stations; on the 14th at Ramsgate; and on the 15th at Oxford and Halifax. On the 5th of December at Leicester; on the 9th at Hastings, Halifax, and Cockermouth; on the 10th at Cardington; on the 11th at Oxford, Gloucester, and Cockermouth; on the 13th at Oxford; and on the 19th at Salisbury.

Auroræ boreales were seen on the 2nd of October at Weybridge Heath and Silloth. On the 5th and 6th of November at Cardington. On the 8th of December at North Shields; and on the 21st at Weybridge Heath.

Snow fell on the 12th of October at Cockermouth; and on the 31st at Allenheads. On the 3rd, 6th, and 7th of November at Bournemouth; and generally all over the country from the 25th to the 9th of December.

Hail fell on 8 days in October; 20 days in November; and on 10 days in December.

Fog prevailed on 12 days in October; 16 days in November; and on 15 days in December.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING DECEMBER 31ST, 1875.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the fifth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1875. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.ⁿ = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.M.S.	204	Oct.	29·557	1·604	64·5	42·5	22·0	58·0	49·5	8·5	52·6	48·0	·336	3·8	0·7	85	534	–	–	1·6	6	6	9	10	3·8	6·5	23	6·01
		Nov.	29·615	1·423	59·5	33·5	26·0	51·0	44·4	6·6	47·3	43·3	·281	3·3	0·4	87	541	–	–	1·8	8	6	8	8	3·7	7·5	25	5·97
		Dec.	29·910	0·881	55·5	31·0	24·5	45·7	39·1	6·6	42·5	38·1	·230	2·7	0·5	85	552	–	–	1·2	6	8	9	8	3·2	6·6	14	2·93
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	Oct.	29·629	1·491	68·0	36·0	32·0	60·6	46·2	14·4	52·9	47·7	·331	3·9	0·8	83	535	71·2	44·0	2·2	6	7	9	9	4·6	6·4	26	6·41
		Nov.	29·727	1·164	66·0	29·0	37·0	53·9	41·8	12·1	47·5	42·5	·272	3·3	0·4	84	543	57·7	40·7	2·3	8	8	6	8	5·2	6·6	16	5·47
		Dec.	30·002	0·970	64·0	24·0	40·0	50·3	37·2	13·1	44·0	36·4	·215	2·5	0·8	74	551	52·4	36·0	1·8	7	9	9	6	4·1	6·6	13	2·15
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	Oct.	29·713	1·470	66·0	36·0	30·0	58·6	47·7	10·9	51·8	46·4	·316	3·5	0·8	82	538	–	–	2·3	7	8	8	8	–	7·8	27	6·67
		Nov.	29·816	1·165	60·0	21·0	39·0	51·3	42·5	8·8	46·3	41·4	·261	3·0	0·6	84	546	–	–	2·5	7	8	3	12	–	7·5	19	5·80
		Dec.	30·086	0·937	55·0	21·0	34·0	47·2	37·7	9·5	42·8	37·3	·223	2·6	0·6	81	555	–	–	2·1	7	7	9	8	–	7·3	12	2·21
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	Oct.	29·585	1·286	65·3	35·9	29·4	56·8	45·3	11·5	50·4	46·3	·315	3·6	0·5	86	537	73·8	43·6	0·3	4	9	10	8	–	7·7	19	5·11
		Nov.	29·631	1·406	58·1	27·6	30·5	48·4	38·7	9·7	43·4	40·3	·251	2·9	0·4	89	546	57·9	36·9	0·6	8	6	7	9	–	7·1	16	4·48
		Dec.	29·936	0·918	52·4	22·8	29·6	43·3	34·4	8·9	39·2	37·3	·224	2·6	0·4	93	556	49·9	32·1	0·5	9	5	9	8	–	8·0	14	1·20
SOUTH BOURNE, near Bournemouth, (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	128	Oct.	–	–	66·1	35·8	30·3	56·0	46·8	9·2	50·6	46·5	·317	3·6	0·6	87	–	–	–	–	7	9	6	9	–	5·0	18	6·26
		Nov.	29·684	2·100	60·7	25·4	35·3	48·7	39·3	9·4	43·9	39·9	·247	3·0	0·5	86	546	–	–	–	7	7	4	12	–	4·9	14	4·66
		Dec.	29·996	0·950	52·1	22·2	29·9	43·2	35·0	8·2	39·6	35·3	·207	2·4	0·5	86	557	–	–	–	10	5	6	10	–	5·8	13	1·19
BRIGHTON (Sussex), F. E. Sawyer, Esq., F.M.S.	206	Oct.	29·645	1·370	66·2	38·0	28·2	55·5	46·1	9·4	50·2	44·3	·302	3·4	0·7	84	534	–	42·5	1·0	7	9	6	9	–	7·4	14	4·14
		Nov.	29·634	1·612	57·9	28·0	29·9	48·0	39·0	9·0	43·3	39·2	·239	2·8	0·5	85	546	–	35·3	1·3	9	6	4	11	–	8·4	15	5·07
		Dec.	29·953	0·893	52·2	22·7	29·5	41·5	35·1	6·4	38·7	35·9	·212	2·5	0·3	91	557	–	30·9	0·8	9	5	8	9	–	8·4	14	1·21
HASTINGS (Sussex), Alex. E. Murray, Esq., F.M.S.	167	Oct.	29·624	1·364	63·9	39·0	24·9	54·9	45·2	9·7	50·0	44·2	·290	3·4	0·7	82	538	–	–	1·7	7	9	6	9	–	7·0	22	4·76
		Nov.	29·627	1·688	57·2	27·9	29·3	48·1	39·0	9·1	43·5	39·1	·239	2·7	0·5	84	546	–	–	2·1	10	5	6	9	–	8·4	22	6·10
		Dec.	29·941	0·991	50·5	22·3	28·2	41·4	35·5	5·9	38·7	35·7	·210	2·4	0·3	90	557	–	32·9	1·6	10	4	9	8	–	7·9	18	1·52
TAUNTON (Somerset), James Bottomley, Esq.	80	Aug.	29·957	0·628	84·5	42·0	42·5	73·3	53·2	20·1	62·5	56·9	·465	5·2	1·0	83	530	91·4	51·9	0·3	6	5	1	19	4·5	4·9	12	2·29
		Oct.	29·684	1·405	66·7	34·0	32·7	56·1	45·2	10·9	49·7	47·2	·325	3·8	0·4	89	539	64·3	43·4	0·4	5	12	4	10	4·1	7·4	24	6·19
		Nov.	29·754	1·384	63·5	22·5	41·0	49·2	38·5	10·7	43·8	39·8	·246	2·8	0·5	87	547	53·6	35·3	0·4	9	8	3	10	3·3	7·8	17	4·37
SALISBURY (Wilton House), T. Challis, Esq.	186	Oct.	29·572	1·324	73·0	29·0	44·0	56·3	40·0	16·3	48·2	45·3	·302	3·4	0·4	90	539	80·0	38·4	1·4	6	7	9	9	5·4	7·9	17	6·03
		Nov.	29·622	1·474	62·0	22·0	40·0	49·1	34·2	14·9	42·0	38·7	·255	2·7	0·4	89	547	64·2	31·5	1·8	9	7	4	10	3·1	7·2	17	4·72
		Dec.	29·923	0·910	54·0	17·0	37·0	44·4	31·2	13·2	38·6	35·3	·206	2·5	0·4	89	557	53·8	28·8	1·2	11	10	5	5	3·1	7·6	7	1·21
BARNSTAPLE (Devon), T. Mackrell, Esq.	43	Oct.	29·702	1·370	66·0	36·0	30·0	57·7	47·7	10·0	51·8	46·2	·313	3·5	0·8	82	537	–	–	1·2	3	12	8	8	–	4·5	27	6·40
		Nov.	29·796	1·220	64·0	26·0	38·0	50·3	41·0	9·3	45·3	40·4	·250	2·9	0·6	83	547	–	–	1·3	8	8	6	8	–	4·5	20	7·15
		Dec.	30·078	1·010	56·0	22·0	34·0	46·1	37·5	8·6	42·4	38·4	·233	2·7	0·4	85	555	–	–	1·2	7	5	12	7	–	5·1	15	2·02
CATERHAM (Surrey), James Adam, Esq., M.D.	660	Oct.	29·142	1·300	72·0	34·0	38·0	57·5	42·5	15·0	49·4	45·0	·300	2·5	0·6	86	530	–	–	1·4	6	8	9	8	1·5	3·3	–	–
		Nov.	29·113	1·400	55·0	26·0	29·0	43·7	36·3	7·4	40·0	–	–	–	–	–	–	–	–	1·4	8	7	5	10	1·3	3·5	–	–
		Dec.	29·451	0·800	50·0	18·0	32·0	38·2	32·4	5·8	35·7	–	–	–	–	–	–	–	–	1·2	9	6	4	12	1·3	3·7	–	–
RAMSGATE (St. Augustine's Monastery), Rev. T. Hugh Quelch, O.S.B.	108	Oct.	29·695	1·341	68·0	36·2	31·8	56·6	44·2	12·4	50·6	44·7	·297	3·4	0·7	81	539	85·8	44·8	1·7	7	6	11	7	–	6·6	10	3·07
		Nov.	29·681	1·551	60·2	29·0	31·2	47·3	38·4	8·9	43·2	38·4	·232	2·7	0·5	83	547	72·9	36·1	3·2	6	8	8	8	–	8·2	18	5·89
		Dec.	29·998	0·965	52·5	26·1	26·4	42·0	34·9	7·1	38·7	33·7	·193	2·3	0·4	83	550	59·1	33·3	1·3	4	7	8	12	–	7·9	11	1·23

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1875. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.ⁿ = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	Oct.	29·577	1·333	68·8	30·3	38·5	55·3	41·9	13·4	48·2	45·5	·305	3·4	0·4	91	539	87·5	38·8	0·5	5	9	8	9	2·2	7·0	15	5·71
		Nov.	29·606	1·520	59·0	23·7	35·3	47·6	36·6	11·0	42·4	38·7	·235	2·7	0·4	87	546	70·6	32·6	0·7	9	7	4	10	2·4	8·0	14	3·32
		Dec.	29·911	0·952	53·8	19·0	34·8	42·8	34·2	8·6	39·1	35·7	·209	2·4	0·4	88	556	60·5	29·7	0·5	10	3	7	11	2·5	7·5	11	1·07
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	Oct.	29·651	1·269	69·3	30·3	39·0	55·9	41·8	14·1	48·0	44·2	·290	3·3	0·5	87	541	78·8	39·4	0·7	8	7	10	6	0·7	6·5	17	4·40
		Nov.	29·672	1·576	58·8	24·8	34·0	46·9	37·4	9·5	42·1	38·1	·230	2·7	0·4	87	548	58·9	35·4	1·1	10	7	8	5	0·7	8·5	18	3·33
		Dec.	29·989	0·942	55·5	19·5	34·0	42·2	33·8	8·4	37·8	35·4	·208	2·5	0·2	91	559	47·5	34·6	0·7	7	4	14	6	0·5	7·5	14	1·00
MARLBOROUGH, The Green, (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	474	Oct.	29·265	1·508	67·6	31·9	35·7	54·0	42·3	11·7	47·4	43·8	·286	3·2	0·5	89	535	84·8	38·4	0·3	4	10	7	10	–	7·6	18	7·66
		Nov.	29·502	1·412	59·4	25·8	33·6	47·0	37·0	10·0	41·5	38·1	·230	2·6	0·4	88	542	66·1	34·2	0·5	7	9	4	11	–	8·0	16	4·31
		Dec.	29·602	0·940	52·9	19·0	33·9	42·2	33·6	8·6	38·0	34·9	·203	2·5	0·4	85	551	56·4	31·4	0·2	8	4	7	12	–	7·7	16	1·24
BLACKHEATH (London), James Glaisher, Esq., F.R.S.	160	Oct.	29·605	1·308	70·7	35·4	35·3	57·2	42·4	14·8	49·0	44·1	·289	3·3	0·7	83	539	80·3	39·6	1·8	5	8	9	9	–	7·1	17	3·98
		Nov.	29·621	1·635	60·0	28·2	31·8	48·8	37·2	11·6	42·5	37·9	·228	2·7	0·5	84	546	61·5	34·1	1·6	9	6	8	8	–	7·6	16	2·99
		Dec.	29·533	0·920	56·8	23·4	33·4	43·2	34·1	9·1	39·0	35·3	·207	2·4	0·4	87	556	49·7	31·3	1·1	7	3	10	11	–	8·0	11	1·24
BECKENHAM (Kent), C. O. F. Cator, Esq., M.A., F.M.S.	170	Nov.	29·588	1·594	60·0	27·0	33·0	47·2	35·8	11·4	41·4	37·3	·224	2·6	0·5	86	547	–	–	–	8	6	7	9	–	7·8	20	3·29
		Dec.	29·923	0·953	53·5	21·5	32·0	42·6	33·8	8·8	38·3	35·5	·207	2·4	0·4	90	557	–	–	–	6	4	9	12	–	7·8	14	1·19
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.A.S., F.M.S.	150	Oct.	29·620	1·257	71·0	30·4	40·6	57·0	42·0	15·0	49·6	44·3	·291	3·5	0·7	83	535	–	–	1·5	6	9	9	7	–	7·1	17	6·40
		Nov.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	20	3·67
		Dec.	29·953	0·924	54·4	22·0	32·4	42·8	34·8	8·0	39·5	35·3	·207	2·7	0·4	85	556	–	–	1·2	8	5	9	9	–	8·3	12	1·04
CAMDEN SQUARE (London), G. J. Symons, Esq., F.M.S.	123	Oct.	29·654	1·317	70·2	32·8	37·4	56·0	43·7	12·3	49·3	45·6	·307	3·5	0·5	88	539	75·0	41·6	–	5	7	7	12	–	7·2	18	4·35
		Nov.	29·667	1·506	58·8	29·0	29·8	48·1	37·2	10·9	42·8	39·7	·245	2·9	0·4	89	547	58·7	34·9	–	11	5	4	10	–	7·3	20	3·36
		Dec.	29·979	0·926	54·3	23·2	31·6	42·9	34·8	8·1	39·3	36·3	·215	2·5	0·4	90	557	47·5	32·6	–	7	2	8	14	–	7·6	15	0·94
CHISWICK (Middlesex), Mr. J. K. L. M. Farquhar.	25	Oct.	29·779	1·296	71·0	30·0	41·0	57·6	42·1	15·5	49·3	44·9	·300	3·5	0·5	86	542	89·9	39·5	1·6	4	9	9	9	–	8·3	16	3·58
		Nov.	29·764	1·512	59·7	25·7	34·0	49·2	36·3	12·9	42·4	38·7	·236	2·7	0·4	87	549	75·0	32·6	1·5	8	7	6	9	–	7·6	16	3·10
		Dec.	30·095	0·912	55·7	16·7	39·0	43·4	33·7	9·7	39·2	36·4	·216	2·5	0·4	90	559	61·2	30·4	0·7	6	5	9	11	–	8·3	12	0·91
LEICESTER (Town Museum), W. J. Harrison, Esq.	245	Oct.	29·506	1·171	65·6	31·5	34·1	54·0	42·8	11·2	47·9	43·3	·281	3·3	0·5	85	538	86·2	39·1	0·9	4	12	7	8	–	7·3	20	5·79
		Nov.	29·525	1·510	59·3	30·2	29·1	46·7	38·3	8·4	42·0	38·2	·231	2·7	0·4	87	545	66·5	33·3	0·9	8	8	6	8	–	8·3	23	3·56
		Dec.	29·820	0·998	54·7	24·6	30·1	43·2	35·9	7·3	39·8	35·9	·211	2·4	0·5	86	553	55·3	30·1	0·9	7	3	11	10	–	8·5	13	1·10
OXFORD, Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	Oct.	29·531	1·247	67·9	34·6	33·3	54·7	43·6	11·1	48·9	44·8	·297	3·3	0·6	86	538	85·0	40·2	0·8	3	12	7	9	1·1	8·1	18	7·53
		Nov.	29·573	1·373	59·6	28·0	31·6	47·1	38·4	8·7	42·5	38·5	·234	2·6	0·5	86	546	71·7	35·8	1·1	8	5	6	11	1·3	8·4	19	3·76
		Dec.	29·869	0·963	55·8	23·1	32·7	43·3	36·3	7·0	39·9	36·1	·212	2·5	0·4	87	554	59·7	33·9	0·7	8	3	10	10	1·0	8·9	13	0·88
GLOUCESTER, E. Toller, Esq., M.D.	100	Oct.	29·713	1·187	69·4	29·9	39·5	59·4	41·8	17·6	49·1	47·4	·329	3·8	0·3	92	540	76·3	33·0	1·0	6	8	9	8	1·1	7·4	19	6·37
		Nov.	29·782	1·421	66·9	24·1	42·8	50·4	36·9	13·5	43·5	39·4	·242	2·8	0·5	85	548	58·7	34·5	0·8	10	7	5	8	1·3	7·3	17	5·20
		Dec.	30·075	0·975	55·1	20·4	34·7	44·7	34·2	10·5	39·3	37·2	·223	2·6	0·3	93	559	50·0	31·9	0·6	7	4	8	12	1·8	8·1	11	1·41
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	Oct.	29·513	1·228	69·4	33·0	36·4	56·7	42·1	14·6	48·2	44·4	·292	3·3	0·5	88	538	–	–	–	5	8	8	10	–	7·2	17	3·66
		Nov.	29·547	1·488	58·4	27·1	31·3	47·1	35·7	11·4	40·9	38·7	·235	2·7	0·3	92	546	–	–	–	10	6	5	9	–	7·5	17	3·65
		Dec.	29·822	0·969	54·8	20·1	34·7	42·3	32·8	9·5	38·2	34·8	·204	2·4	0·3	89	555	–	–	–	5	3	10	13	–	8·5	14	0·79
CARDINGTON (near Bedford), Mr. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	105	Oct.	29·668	1·240	69·0	30·4	38·6	55·7	42·3	13·4	48·4	45·7	·307	3·4	0·4	91	541	66·3	37·7	1·3	4	10	8	9	–	7·6	15	4·00
		Nov.	29·695	1·520	58·0	26·6	31·4	47·1	36·2	10·9	41·2	38·4	·232	2·7	0·3	92	549	51·8	31·6	2·0	9	6	5	10	–	7·5	18	3·75
		Dec.	29·998	0·960	55·0	21·0	34·0	42·5	33·4	9·1	38·3	35·9	·211	2·5	0·4	91	558	44·3	28·7	1·4	7	2	9	13	–	8·5	11	1·20
ST. DAVID'S COLLEGE, LAMPETER (Cardiganshire), Prof. A. W. Scott, M.A.	420	Oct.	29·344	1·274	67·0	26·0	41·0	55·4	41·3	14·1	47·6	43·4	·282	3·2	0·6	87	536	75·1	–	–	5	9	9	8	–	–	25	6·68
		Nov.	29·336	1·336	60·5	20·0	40·5	47·7	36·1	11·6	41·9	37·6	·226	2·6	0·5	86	545	61·9	–	–	8	8	6	8	–	–	20	7·85
		Dec.	29·665	1·020	52·5	13·0	39·5	44·5	31·4	13·1	38·5	34·5	·200	2·3	0·4	86	552	56·9	–	–	7	9	9	6	–	–	12	1·75
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	50	Oct.	29·738	1·184	69·0	31·2	37·8	56·9	43·1	13·8	49·4	47·4	·328	3·8	0·4	93	541	–	35·4	1·4	2	9	12	8	6·8	7·1	20	3·49
		Nov.	29·727	1·524	60·0	26·4	33·6	47·2	34·1	13·1	40·9	39·1	·239	2·7	0·2	94	550	–	30·0	1·6	6	8	6	10	7·3	7·9	22	5·53
		Dec.	30·037	0·844	55·6	26·2	29·4	42·6	34·1	8·5	38·8	37·4	·224	2·5	0·2	94	558	–	26·8	1·3	5	4	9	13	6·9	7·8	21	1·95

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1875. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
CAMBRIDGE, J. W. L. GLAISHER, ESQ., M.A., F.R.S.	40	Oct.	29·718	1·216	70·1	27·5	42·6	57·0	42·2	14·8	49·0	45·2	·303	3·5	0·5	87	541	96·0	38·8	1·9	4	9	8	10	–	7·4	19	3·01
		Nov.	29·733	1·553	61·0	29·2	31·8	46·4	36·8	9·6	41·5	38·1	·230	2·6	0·4	88	550	70·	30·0	2·0	7	8	6	9	–	8·1	18	3·56
		Dec.	30·026	0·952	56·8	22·0	34·8	43·1	34·8	8·3	39·2	36·4	·216	2·5	0·3	90	558	52	30·7	1·7	8	6	9	8	–	8·1	15	1·28
NORWICH (Norfolk), JOHN QUINTON, ESQ., JUN.	42	Oct.	29·738	1·258	67·5	33·5	34·0	54·3	43·7	10·6	48·5	47·5	·329	3·7	0·1	97	541	–	–	–	3	13	9	6	–	–	21	3·30
		Nov.	29·734	1·626	57·5	30·0	27·5	46·2	38·0	8·2	41·7	40·2	·249	2·9	0·1	95	549	–	–	–	6	8	8	8	–	–	21	5·28
		Dec.	30·045	0·956	55·5	22·0	33·5	42·1	35·1	7·0	38·7	37·1	·221	2·6	0·2	94	559	–	–	–	4	4	10	13	–	–	11	1·61
WISBECH (Cambridgeshire), S. H. MILLER, ESQ., F.R.A.S., F.M.S.	14	Oct.	29·759	1·200	67·7	32·0	35·7	55·5	43·4	12·1	48·5	45·3	·303	3·4	0·2	89	542	86·7	38·4	0·6	5	10	10	6	–	7·3	15	2·71
		Nov.	29·771	1·574	60·4	30·0	30·4	46·7	37·5	9·2	41·3	39·3	·241	2·8	0·3	93	551	65·3	33·4	0·5	8	7	7	8	–	7·8	22	4·10
		Dec.	30·066	0·956	54·5	26·0	28·5	42·7	34·7	8·0	38·6	36·3	·215	2·4	0·3	92	559	55·9	31·0	0·4	6	4	10	11	3·2	7·7	14	1·69
LLANDUDNO (Carnarvonshire), JAMES NICOL, ESQ., M.D., and THOMAS DALTON, ESQ., M.D.	100	Oct.	29·629	1·130	66·5	36·4	30·1	55·0	45·6	9·4	49·8	43·0	·277	3·2	0·7	78	543	–	–	0·8	2	8	9	12	–	6·6	20	5·30
		Nov.	29·690	1·370	61·1	34·8	26·3	48·0	40·8	7·2	44·4	39·2	·240	2·8	0·6	82	546	–	–	1·3	6	9	6	9	–	7·3	16	4·25
		Dec.	29·958	1·130	58·0	28·6	29·4	47·2	38·7	8·5	43·3	37·7	·227	2·6	0·6	81	552	–	–	0·9	3	7	1	20	–	6·8	7	1·41
NOTTINGHAM (Notts.), M.O. TARBOTTON, ESQ., C.E., F.G.S., F.M.S.	183	Oct.	29·560	1·104	65·7	29·3	36·4	54·7	42·2	12·5	47·8	43·4	·282	3·2	0·6	86	539	75·9	40·0	0·5	3	14	6	8	1·2	8·6	23	5·06
		Nov.	29·565	1·506	59·0	27·1	31·9	45·8	36·6	9·2	40·9	38·0	·229	2·7	0·3	89	547	58·7	34·1	0·5	11	6	6	7	2·1	7·4	24	3·53
		Dec.	29·875	1·028	54·9	24·9	30·0	42·6	34·9	7·7	39·2	35·5	·208	2·4	0·4	87	555	47·9	31·7	0·4	9	1	12	9	2·8	7·4	16	0·94
HOLKHAM (Norfolk), JOHN DAVIDSON, ESQ., Assistant to the EARL OF LEICESTER.	39	Oct.	29·715	1·152	67·7	27·0	40·7	55·1	39·9	15·2	48·1	45·3	·303	3·4	0·4	92	542	91·9	37·8	1·9	7	7	11	6	–	7·5	19	2·30
		Nov.	29·745	1·572	57·4	24·2	33·2	47·1	33·6	13·5	41·0	36·7	·217	2·5	0·5	85	551	64·0	30·6	2·2	7	8	8	7	–	8·1	26	5·63
		Dec.	30·010	0·962	55·7	20·2	35·5	42·5	31·6	10·9	38·5	34·0	·196	2·3	0·5	85	558	47·7	27·8	1·9	5	3	12	11	–	7·7	17	2·75
CALCETHORPE MANOR (near) Louth (Lincolnshire), D. GRANT BRIGGS, ESQ., F.M.S.	382	Oct.	29·368	1·146	64·4	32·9	31·5	52·8	42·7	10·1	47·2	43·0	·277	3·2	0·5	86	537	89·2	39·7	1·2	4	11	11	5	6·5	7·1	20	5·43
		Nov.	29·374	1·557	54·5	27·4	27·1	44·3	36·0	8·3	40·0	36·6	·217	2·5	0·4	88	545	70·1	33·5	1·1	8	8	6	8	8·2	8·1	25	5·76
		Dec.	29·643	1·078	53·5	25·1	28·4	41·1	34·5	6·6	37·9	34·8	·202	2·4	0·3	89	552	59·0	32·4	1·0	6	3	9	13	7·5	7·4	20	1·32
LIVERPOOL OBSERVATORY, JOHN HARTNUP, ESQ., F.R.A.S.	197	Aug.	29·798	0·690	73·7	49·4	24·3	66·9	55·5	11·4	59·9	52·6	·336	4·4	1·3	77	530	–	–	1·0	4	7	8	12	–	6·2	17	2·60
		Sept.	29·789	0·864	73·0	48·0	25·0	64·3	53·6	10·7	58·0	51·5	·383	4·2	1·1	79	532	–	–	1·2	1	12	9	8	–	5·9	16	4·33
		Oct.	29·527	1·170	64·7	35·9	28·8	52·9	44·5	8·4	48·0	43·4	·281	3·2	0·6	85	539	–	–	1·3	4	14	4	9	–	6·9	23	4·88
		Nov.	29·583	1·447	58·2	28·8	29·4	46·5	38·6	7·9	41·8	37·1	·221	2·6	0·5	85	547	–	–	1·2	10	8	6	6	–	6·6	18	3·01
		Dec.	29·834	1·142	55·2	25·9	29·3	43·6	37·2	6·4	40·8	35·8	·210	2·5	0·4	83	553	–	–	1·1	7	6	11	7	–	7·0	11	0·71
ECCLES (near MANCHESTER), T. MACKERETH, ESQ., F.R.A.S., F.M.S.	145	Oct.	29·612	1·089	64·4	30·0	34·4	53·9	41·8	12·1	47·4	42·6	·273	3·1	0·6	84	541	60·5	34·1	0·2	4	10	9	8	1·0	7·6	20	5·03
		Nov.	29·650	1·448	57·6	26·0	31·6	47·0	35·7	11·3	41·6	37·1	·221	2·6	0·5	85	548	50·6	27·8	0·3	9	10	4	7	1·5	6·9	22	4·10
		Dec.	29·908	1·088	55·2	23·0	32·2	44·3	34·8	9·5	39·9	38·0	·229	2·4	0·5	86	555	45·1	27·6	0·3	8	3	10	10	1·3	8·0	14	1·17
MOOR SIDE OBSERVATORY, HALIFAX (Yorkshire), LOUIS J. CROSSLEY, ESQ., F.R.A.S.	429	Oct.	29·319	1·143	64·0	32·0	32·0	52·1	42·5	9·6	46·4	40·6	·254	2·9	0·6	81	537	67·8	37·8	1·1	3	12	3	13	0·5	8·3	17	4·69
		Nov.	29·367	1·402	56·4	30·0	26·4	44·6	36·9	7·7	40·2	37·2	·222	2·5	0·4	90	544	54·6	33·4	1·2	7	9	5	9	0·3	7·9	22	4·90
		Dec.	29·605	1·120	53·2	24·0	29·2	43·0	35·5	7·5	39·2	36·2	·214	2·4	0·4	90	550	49·7	32·0	1·3	5	7	4	15	1·1	8·5	18	1·84
BERMERSIDE OBSERVATORY, HALIFAX (Yorkshire), EDWARD CROSSLEY, ESQ., F.R.A.S.	520	Oct.	29·223	1·138	63·4	32·1	31·3	51·8	41·7	10·1	46·0	43·0	·278	3·2	0·4	90	535	75·7	–	0·7	3	13	7	8	–	7·9	15	4·85
		Nov.	29·240	1·310	56·0	30·7	25·3	43·8	36·5	7·3	39·6	37·8	·228	2·1	0·2	94	543	59·7	–	0·7	8	9	4	9	–	7·5	16	5·21
		Dec.	29·458	1·130	49·5	23·7	25·8	40·4	34·2	6·2	37·4	34·8	·202	2·3	0·3	90	549	54·8	–	0·8	5	6	9	11	–	8·0	15	1·76
HULL (THE PARK), MR. E. PEAK.	12	Oct.	29·767	1·316	68·0	31·0	37·0	54·5	44·5	10·0	48·7	45·1	·301	3·4	0·5	88	542	69·1	41·2	–	–	–	–	–	2·2	–	20	4·58
		Nov.	29·765	1·538	57·0	30·0	27·0	45·6	37·3	8·3	41·6	37·3	·224	2·6	0·4	86	550	56·3	34·7	–	–	–	–	–	2·3	–	25	6·00
		Dec.	30·053	1·088	54·0	30·0	24·0	42·5	36·3	6·2	40·1	35·3	·206	2·4	0·5	83	557	47·5	33·8	–	–	–	–	–	0·3	–	15	1·19
STONYHURST (Lancashire), REV. S. J. PERRY, F.M.S., F.R.S., F.R.A.S.	363	Oct.	29·349	1·106	62·0	31·6	30·4	53·0	42·5	10·5	47·2	42·6	·273	3·2	0·6	85	536	86·4	39·7	–	6	13	7	5	–	8·7	23	3·78
		Nov.	29·397	1·445	56·4	27·8	28·6	45·9	36·4	9·5	41·2	37·1	·222	2·6	0·4	86	544	74·7	33·1	–	8	8	5	9	–	7·6	22	5·81
		Dec.	29·647	1·163	53·1	23·8	29·3	43·3	35·9	7·4	39·5	36·3	·215	2·5	0·4	89	550	57·2	31·6	–	8	4	11	8	–	8·1	20	2·58
BRADFORD (Yorkshire), J. MCLANDSBOROUGH, ESQ., C.E., F.G.S.	366	Oct.	29·347	1·144	62·8	32·0	30·8	53·4	43·7	9·7	47·7	43·6	·283	3·2	0·6	87	536	65·9	–	0·8	4	9	9	9	–	7·7	19	4·62
		Nov.	29·423	1·466	57·8	30·2	27·6	45·9	39·0	6·9	41·8	37·3	·224	2·7	0·5	86	544	51·7	–	0·7	11	7	5	7	–	7·4	22	4·28
		Dec.	29·654	1·086	54·6	25·2	29·4	42·7	36·0	6·7	39·6	35·2	·206	2·4	0·5	85	550	44·0	–	1·0	7	6	6	12	–	7·5	17	1·21
LEEDS (Philosophical Hall) (Yorkshire), LOUIS C. MIALL, ESQ.	137	Oct.	29·618	1·304	65·0	32·0	33·0	55·4	43·6	11·8	47·5	43·9	·287	3·3	0·5	89	541	71·9	–	1·2	5	9	7	10	–	7·2	18	4·19
		Nov.	29·639	1·323	58·0	31·0	27·0	47·3	36·7	10·6	42·1	37·4	·224	2·6	0·5	84	547	53·0	–	1·7	10	7	6	7	–	7·6	19	3·76
		Dec.	29·675	1·176	59·0	28·0	31·0	43·8	36·9	6·9	40·8	36·3	·214	2·5	0·6	85	551	48·7	–	1·4	6	4	8	13	–	7·6	10	0·80

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1875. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
COCKERMOUTH (Cumberland), H. DODGSON, ESQ., M.D., F.R.A.S., F.M.S.	146	Oct.	29·572	1·052	64·5	30·0	34·5	53·9	44·3	9·6	48·4	42·6	·273	3·1	0·6	81	539	74·9	34·4	0·5	5	11	8	7	1·5	6·5	23	3·31
		Nov.	29·639	1·381	58·6	27·6	31·0	45·5	36·9	8·6	40·8	36·7	·217	2·5	0·5	86	549	55·6	26·4	0·4	10	12	4	4	1·9	5·8	12	3·44
		Dec.	29·860	1·276	52·0	19·6	32·4	42·7	35·6	7·1	39·2	36·8	·219	2·5	0·3	92	555	46·3	27·2	0·5	6	8	10	7	2·9	7·7	16	3·39
ALLENHEADS (Northumberland), MR. T. KIDD, Assistant to W. B. BEAUMONT, ESQ., M.P.	1300	Oct.	28·320	1·062	61·5	29·8	31·7	48·8	39·4	9·4	42·8	–	–	–	–	–	–	75·8	36·7	1·6	5	8				7·5	28	6·04
		Nov.	28·357	1·331	53·0	26·0	27·0	41·7	31·9	9·8	36·2	–	–	–	–	–	–	63·0	31·4	1·1	9	7	9	5	–	7·4	25	7·79
		Dec.	28·513	1·161	50·0	22·0	28·0	38·9	30·6	8·3	35·2	–	–	–	–	–	–	61·2	30·1	1·0	3	8	4	16	–	8·4	22	5·15
SILLOTH RECTORY (Cumberland), REV. FRANCIS REDFORD., M.A., F.R.A.S., F.M.S.	28	Oct.	29·702	1·106	68·8	30·1	38·7	55·5	42·9	12·6	48·3	43·5	·282	3·2	0·6	84	541	78·2	39·3	1·5	3	14	5	9	7·9	6·5	18	3·23
		Nov.	29·767	1·439	60·0	25·9	34·1	46·6	35·9	10·7	40·8	36·7	·217	2·5	0·5	86	551	65·6	32·1	1·4	13	6	4	7	10·5	5·6	13	3·29
		Dec.	29·973	1·362	50·9	22·0	28·9	43·4	35·4	8·0	39·4	36·5	·216	2·5	0·4	90	556	51·6	31·8	1·5	4	7	7	13	9·4	7·0	16	2·50
CARLISLE (Cumberland), ISAAC CARTMELL, ESQ., F.M.S.	114	Oct.	29·628	1·120	64·3	27·2	37·1	53·9	41·3	12·6	47·0	42·1	·268	3·1	0·7	84	542	70·0	36·8	1·6	3	10	8	10	5·9	7·6	21	3·59
		Nov.	29·708	1·392	57·5	25·0	32·5	45·4	33·7	11·7	39·5	36·0	·212	2·4	0·4	88	552	58·5	29·7	1·3	9	8	7	6	6·2	6·8	14	2·83
		Dec.	29·893	1·329	52·4	17·0	35·4	43·5	33·8	9·7	39·1	35·9	·211	2·4	0·4	89	555	51·2	29·7	1·5	3	7	7	14	6·0	7·9	15	1·80
BYWELL (Northumberland), MR. JOHN DAWSON, Assistant to W. B. BEAUMONT, ESQ., M.P.	87	Oct.	29·637	1·090	65·0	33·0	32·0	53·8	44·9	8·9	48·3	42·5	·273	3·1	0·7	81	540	63·1	38·9	1·3	2	13	7	9	–	5·9	25	5·44
		Nov.	29·672	1·398	60·0	30·0	30·0	46·1	37·4	8·7	40·8	36·1	·212	2·5	0·4	85	550	50·2	31·4	1·3	4	13	6	7	–	7·0	25	6·03
		Dec.	29·869	1·256	52·0	26·0	26·0	43·7	36·0	7·7	40·0	34·5	·200	2·3	0·6	81	554	47·7	30·2	1·3	6	5	5	15	–	7·1	22	2·06
NORTH SHIELDS (Northumberland), ROBERT SPENCE, ESQ.	124	Oct.	29·637	1·090	65·3	31·0	34·3	53·4	44·3	9·1	47·8	42·5	·273	3·3	0·4	83	541	–	42·0	1·7	7	5	7	12	–	7·2	22	3·26
		Nov.	29·696	1·445	56·6	30·3	26·3	44·0	36·9	7·1	40·5	36·2	·214	2·5	0·4	85	550	–	35·2	1·8	11	9	3	7	–	7·0	26	5·81
		Dec.	29·922	1·249	52·5	27·8	24·7	43·6	35·2	8·4	39·6	34·5	·200	2·4	0·5	82	555	–	32·0	1·6	8	3	6	14	–	7·6	22	1·44
MILLTOWN (Banbridge, Ireland), JOHN P. SMYTH, ESQ., Jun., M.A., M.I.C.E.I., F.G.S.	200	Oct.	29·371	1·070	61·0	30·0	31·0	53·2	42·7	10·5	47·8	42·5	·273	3·2	0·6	83	536	87·8	39·6	2·3	2	11	12	6	–	6·2	22	3·50
		Nov.	29·480	1·267	58·0	23·0	35·0	46·5	35·3	11·2	40·7	37·1	·220	2·7	0·4	87	546	71·9	31·1	1·6	11	7	4	8	–	5·2	19	3·34
		Dec.	29·675	1·313	54·0	17·0	37·0	44·3	32·7	11·6	38·9	35·1	·205	2·4	0·4	87	552	65·0	28·2	1·6	5	4	15	7	–	5·4	14	1·71

NOTE.—*The Barometer Reading*, LEEDS, 11th October, 4h. p.m., 29·906 in., has been altered to 28·906 in.
" " 26th " 4h. p.m., 28·809 in., " 29·809 in.
" " 27th " 4h. p.m., 28·105 in., " 29·605 in.
" " LAMPETER, 9th November, 9h. a.m., 29·968 in., " 28·968 in.
" " 9th " 5h. p.m., 29·698 in., " 28·698 in.
" " 10th " 9h. a.m., 29·572 in., " 28·572 in.
" " 10th " 5h. p.m., 29·744 in., " 28·544 in.
" " 11th " 9h. a.m., 29·854 in., " 28·854 in.
" " 29th December, 4h. p.m., 31·620 in., " 30·120 in.
" " 30th " 4h. p.m., 30·880 in., " 30·080 in.
The Maximum Temperature, STREATLEY, 10th December, 27°·2 " 37°·2

Second Rain-gauges are placed—

				October.	November.	December.	Total during the Quarter.
At Beckenham,	at the height of 50 feet	*above the ground*,	the amount collected was	— inches.	3·21 inches.	0·47 inches.	— inches.
" Strathfield Turgiss,	" 38 feet	"	"	2·83 "	2·18 "	0·70 "	5·71 "
" Aldershot Camp,	" 25 feet	"	"	— "	— "	— "	— "
" Oxford,	" 22 feet	"	"	7·26 "	3·54 "	0·61 "	11·41 "
" Cardington,	" 36 feet	"	"	3·50 "	3·20 "	0·70 "	7·40 "
" Wisbech,	" 8 feet	"	"	2·67 "	3·99 "	1·50 "	8·16 "
" Nottingham,	" 39 feet	"	"	4·70 "	3·31 "	0·91 "	8·92 "
" Holkham,	" 4 feet	"	"	2·35 "	5·91 "	2·05 "	10·51 "
" Eccles (Manchester),	" 34 feet	"	"	4·61 "	3·46 "	0·83 "	8·90 "
" Milltown (Ireland),	" 40 feet	"	"	2·89 "	2·78 "	1·37 "	7·04 "

ERRATA.—Quarterly Report ending 30th June 1875, page 66.

Reading of Barometer – April, *for* 29·842 in. *read* 29·875 in.
" " May, " 29·809 in. " 29·842 in.
" " Mean, " 29·798 in. " 29·820 in.
Difference from average of 34 years, April, " +0·074 in. " +0·107 in.
" " May, " +0·029 in. " +0·062 in.
" " Mean, " +0·010 in. " +0·032 in.

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Rain. Mean Amount of Cloud.	Number of Days on which it fell.	Amount collected.
	in.'	°	°	°	°	°	°	°	°	in.	grs.	gr.			grs.	°	°									in.
Guernsey - - -	29·632	64·5	31·0	33·5	51·6	44·3	24·2	7·2	47·5	43·1	·282	3·3	0·5	86	542	—	—	1·5	7	7	9	8	3·6	6·9	62	14·91
Helston - - -	29·627	68·0	24·0	44·0	54·9	41·7	36·3	13·2	48·1	42·2	·273	3·2	0·7	80	543	60·4	40·2	2·1	7	8	8	8	4·6	6·5	55	14·68
Truro - - -	29·652	66·0	21·0	45·0	52·4	42·6	34·3	9·7	47·0	41·7	·267	3·0	0·7	82	546	—	—	2·3	7	8	7	9	—	7·5	58	14·08
Osborne - - -	29·641	65·3	22·8	42·5	49·5	39·5	29·8	10·0	44·3	41·3	·263	3·0	0·4	89	546	60·5	37·5	0·5	7	7	9	8	—	7·6	49	10·79
Bournemouth - -	—	66·1	22·2	43·9	49·3	40·4	31·8	8·9	44·7	40·6	·257	3·0	0·5	86	—	—	—	—	8	7	6	10	—	5·2	45	12·11
Brighton - - -	29·701	66·2	22·7	43·5	48·3	40·0	29·2	8·3	44·1	39·8	·251	2·9	0·5	87	546	—	36·2	1·0	8	7	6	10	—	8·1	43	10·43
Hastings - - -	29·670	63·9	22·3	41·6	48·1	39·9	27·5	8·2	44·1	39·7	·246	2·8	0·5	85	547	—	—	1·8	9	6	7	9	—	7·8	62	12·58
Salisbury - - -	29·659	73·0	17·0	56·0	49·9	35·1	40·3	14·8	42·9	39·8	·248	2·9	0·4	89	548	66·0	32·9	1·5	9	8	6	8	3·9	7·6	41	11·06
Barnstaple - - -	29·641	66·0	22·0	44·0	51·4	42·1	34·0	9·3	46·5	41·7	·265	3·0	0·6	83	546	—	—	1·2	6	8	9	8	—	4·7	62	15·97
Ramsgate - - -	29·668	68·0	26·1	41·9	48·6	39·2	29·8	9·4	44·2	38·9	·241	2·8	0·5	82	545	72·6	38·1	2·1	6	7	9	9	—	7·6	39	10·19
Strathfield Turgiss -	29·663	68·8	19·0	49·8	48·6	37·6	36·2	11·0	43·2	40·0	·250	2·8	0·4	89	547	72·9	33·7	0·6	8	6	6	10	2·4	7·5	40	8·73
Weybridge Heath -	29·693	69·3	19·5	49·8	48·3	37·7	35·7	10·6	42·6	39·2	·243	2·8	0·4	88	549	61·7	36·5	0·8	8	6	11	6	0·6	7·5	49	13·21
Marlborough Green	29·651	67·6	19·0	48·6	47·7	37·6	34·4	10·1	42·3	38·9	·240	2·7	0·4	87	543	69·1	34·7	0·3	6	8	6	11	—	7·8	50	8·21
Blackheath - -	29·653	70·7	23·4	47·3	49·7	37·8	33·5	11·9	43·5	39·1	·241	2·8	0·5	85	547	63·8	35·0	1·5	7	6	9	9	—	7·6	44	11·11
Streatley Vicarage -	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	49	8·66
Camden Square -	29·645	70·2	23·2	47·0	49·0	38·6	32·9	10·4	43·8	40·5	·256	3·0	0·4	89	548	60·4	36·4	—	8	5	6	12	—	7·4	53	7·39
Chiswick - - -	29·655	71·0	16·7	54·3	50·1	37·4	38·0	12·7	43·6	40·0	·251	2·9	0·4	88	550	75·4	34·2	1·3	6	7	8	10	—	8·1	44	10·43
Leicester - - -	29·645	65·6	24·6	41·0	48·0	39·0	31·1	9·0	43·2	39·1	·241	2·8	0·5	86	545	69·3	34·2	0·9	6	8	8	9	—	8·0	56	12·17
Oxford - - -	29·639	67·9	23·1	44·8	48·4	39·4	32·5	9·0	43·8	39·8	·248	2·8	0·5	86	546	72·1	36·6	0·9	6	7	8	10	1·1	8·5	50	12·98
Gloucester - - -	29·703	69·4	20·4	49·0	51·5	37·6	39·0	13·9	43·6	41·3	·265	3·1	0·4	90	549	61·7	33·1	0·8	8	6	7	9	1·4	7·6	47	8·95
Cardington - - -	29·646	69·0	21·0	48·0	48·4	37·3	34·7	11·1	42·6	40·0	·250	2·9	0·4	91	549	54·1	32·7	1·6	7	6	7	11	—	7·9	44	16·26
Lampeter - - -	29·602	67·0	13·0	54·0	49·2	36·3	40·3	12·9	42·7	38·5	·236	2·7	0·5	86	544	64·6	—	—	7	9	8	7	—	—	57	10·97
Somerleyton Rectory	29·631	69·0	26·2	42·8	48·9	37·1	33·6	11·8	43·0	41·3	·260	3·0	0·3	94	550	—	30·7	1·4	4	7	9	10	7·0	7·6	63	7·85
Cambridge - - -	29·621	70·1	22·0	48·1	48·8	37·9	36·4	10·9	43·2	39·9	·250	2·9	0·4	88	550	75·6	33·2	1·9	6	8	8	9	—	7·9	52	10·19
Norwich - - -	29·619	67·5	22·0	45·5	47·5	38·9	31·7	8·6	43·0	41·6	·266	3·1	0·1	95	550	—	—	—	4	8	9	9	—	—	53	8·59
Wisbech - - -	29·627	67·7	26·0	41·7	48·3	38·5	31·5	9·8	42·8	40·3	·253	2·9	0·3	91	551	69·3	34·3	0·5	6	7	9	8	—	7·6	51	10·98
Llandudno - - -	29·620	66·5	28·6	37·9	50·1	41·7	28·6	8·4	45·8	40·0	·248	2·9	0·6	80	547	—	—	1·0	4	8	5	14	—	6·9	43	9·85
Nottingham - -	29·626	65·7	24·9	40·8	47·7	37·9	32·8	9·8	42·6	39·0	·240	2·8	0·4	87	547	60·8	35·3	0·5	8	7	8	8	2·0	7·8	63	10·68
Holkham - - -	29·627	67·7	20·2	47·5	48·2	35·0	36·5	13·2	42·5	38·7	·239	2·7	0·5	87	550	67·9	32·1	2·0	6	6	10	8	—	7·8	62	12·51
Calecthorpe - -	29·646	64·4	25·1	39·3	46·1	37·7	29·0	8·3	41·7	38·1	·232	2·7	0·4	88	545	72·8	35·2	1·1	6	7	9	9	7·4	7·5	65	8·59
Liverpool - - -	29·623	64·7	25·9	38·8	47·7	40·1	29·2	7·6	43·5	38·8	·237	2·8	0·5	84	546	—	—	1·2	7	9	7	7	—	6·8	52	10·70
Eccles - - -	29·637	64·4	23·0	41·4	48·4	37·4	32·7	11·0	43·0	39·2	·241	2·7	0·5	85	548	52·1	29·8	0·3	7	8	8	8	1·3	7·5	56	11·13
Moorside, Halifax	29·657	64·0	24·0	40·0	46·6	38·3	29·2	8·3	41·9	38·0	·230	2·6	0·5	87	544	57·4	34·4	1·2	5	9	4	12	0·6	8·2	57	11·82
Bermerside, „ -	29·638	63·4	23·7	39·7	45·3	37·5	27·5	7·8	41·0	38·5	·236	2·5	0·3	91	542	63·4	—	0·7	5	9	7	9	—	7·8	46	11·77
Hull - - -	29·631	68·0	30·0	38·0	47·5	39·4	29·3	8·2	43·5	39·2	·244	2·8	0·5	86	550	57·6	36·6	—	—	—	—	—	1·6	—	60	12·17
Stonyhurst - - -	29·622	62·0	23·8	38·2	47·4	38·3	29·4	9·1	42·6	38·7	·237	2·8	0·5	87	543	72·8	34·8	—	7	8	8	7	—	8·1	65	12·21
Bradford - - -	29·633	62·8	25·2	37·6	47·3	39·6	29·3	7·8	43·0	38·7	·238	2·8	0·5	86	543	55·9	—	0·8	7	8	7	9	—	7·5	58	8·73
Leeds - - -	29·618	65·0	28·0	37·0	48·8	39·1	30·3	9·8	43·5	39·2	·242	2·8	0·5	86	546	57·9	—	1·4	7	7	7	10	—	7·5	47	10·14
Cockermouth - -	29·614	64·5	19·6	44·9	47·4	38·9	32·6	8·4	42·8	38·7	·236	2·7	0·5	86	548	58·9	29·3	0·5	7	10	7	6	2·1	6·7	75	18·98
Allenheads - -	—	61·5	22·0	39·5	43·1	34·0	28·9	9·1	38·1	—	—	—	—	—	66·7	32·7	1·2	6	8	7	10	—	7·8	75	9·02
Silloth - - -	29·607	68·8	22·0	46·8	48·5	38·1	33·9	10·4	42·8	38·9	·238	2·7	0·5	87	549	65·1	34·4	1·5	7	9	5	10	9·3	6·4	47	8·22
Carlisle - - -	29·637	64·3	17·0	47·3	47·6	36·3	35·0	11·3	41·9	38·0	·230	2·6	0·5	87	550	59·9	32·1	1·5	5	8	7	10	6·0	7·4	50	12·23
Bywell - - -	29·591	65·0	26·0	39·0	47·9	39·4	29·3	8·4	43·0	38·7	·228	2·6	0·6	82	548	53·7	33·5	1·3	4	10	6	10	—	6·7	72	10·31
North Shields -	—	65·3	27·8	37·5	47·0	38·8	28·4	8·2	42·6	37·4	·229	2·7	0·4	83	549	—	36·4	1·7	9	6	5	11	—	7·3	70	10·51
Milltown (Ireland) -	—	61·0	17·0	44·0	48·0	36·9	34·3	11·1	42·5	38·2	·233	2·8	0·5	86	545	74·9	33·0	1·8	6	7	10	7	—	5·6	55	8·95

The highest temperatures of the air were at Salisbury, 73°; and at Chiswick, 71°.

The lowest temperatures of the air were at Lampeter, 13°; and at Chiswick 16°·7.

The greatest daily ranges of the temperatures of the air were at Salisbury, 14°·8; and at Gloucester, 13°·9.

The least daily ranges of the temperatures of the air were at Guernsey, 7°·2; and at Liverpool, 7°·6.

The greatest numbers of rainy days were at Allenheads, 75; and at Bywell, 72.

The least numbers of rainy days were at Ramsgate, 39; and at Strathfield Turgiss, 40.

The heaviest falls of rain were at Allenheads, 18·98 inches; and at Lampeter, 16·26 inches.

The least falls of rain were at Chiswick, 7·59 inches; and at Cambridge, 7·85 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Rain. Mean Amount of Cloud.	Mean Number of Days it fell.	Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.			grs.	°	°									in.
Guernsey - - -	29·632	64·5	31·0	33·5	51·6	44·3	24·2	7·2	47·5	43·1	·282	3·3	0·5	86	542	—	—	1·5	7	7	9	8	3·6	6·9	62	14·91
Between 50° and 51° -	29·658	65·9	22·5	43·4	50·4	40·7	31·5	9·7	45·4	40·9	·260	3·0	0·6	85	546	60·5	38·0	1·7	8	7	7	9	—	7·1	52	13·49
Between 51° and 52° -	29·659	69·0	21·2	47·8	49·3	38·3	34·8	11·0	43·6	39·9	·249	2·9	0·5	87	547	67·1	35·0	1·1	7	7	8	9	1·9	7·7	48	10·91
Between 52° and 53° -	29·624	67·8	22·7	45·1	48·6	37·8	34·0	10·7	43·1	39·9	·249	2·9	0·4	89	549	65·4	33·1	1·3	6	7	8	9	4·5	7·6	54	10·45
Between 53° and 54° -	29·634	64·3	25·4	38·9	47·2	38·6	29·5	8·6	42·3	38·7	·237	2·7	0·5	87	545	61·0	34·2	0·9	6	8	7	9	2·7	7·6	56	10·79
Between 54° and 55° -	29·612	64·8	21·3	43·5	46·9	37·3	31·9	9·6	41·7	38·3	·233	2·7	0·5	85	549	60·9	32·4	1·2	6	9	6	9	5·8	7·0	59	11·26
Mean for the Quarter, 50° to 55° — Year 1872	29·368	63·5	25·6	37·9	50·3	39·6	30·6	10·7	44·7	41·1	·260	3·0	0·4	88	540	64·7	34·1	1·2	5	5	10	10	3·6	6·7	67	13·37
Mean for the Quarter, 50° to 55° — „ 1873	29·714	68·8	22·8	46·0	50·5	39·1	34·0	11·4	44·6	40·8	·256	2·9	0·5	87	546	66·1	33·5	1·0	5	5	8	12	3·2	6·6	45	6·35
Mean for the Quarter, 50° to 55° — „ 1874	29·608	64·9	14·9	50·0	48·3	37·0	33·1	11·3	42·4	38·6	·242	2·8	0·5	86	547	63·1	31·5	1·2	7	5	8	11	3·3	6·7	55	10·29
Mean for the Quarter, 50° to 55° — „ 1875	29·637	66·4	22·6	43·8	48·5	38·5	32·3	9·9	43·2	39·5	·246	2·8	0·5	87	547	63·0	34·5	1·2	7	8	7	9	3·7	7·4	54	11·29

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING MARCH 31, 1876.

Remarks on the Weather during the Quarter ending March 31st, 1876.

By James Glaisher, Esq., F.R.S., *&c.*

Till January 4th, the weather was warm, the average excess of mean daily temperature was 6° nearly, and on the 3rd day was as large as 13½°. On the 5th, the wind changed from the W. to the S.E. and the first long cold period set in, and continued till the 16th, the wind being, for the most part, from the N. and N.E., on the 8th day the departure of mean temperature below its average was 13½°, and the average defect of temperature for these 12 days was 6¾°. On the 17th the wind was S.W. and a warm period set in and continued till February 3rd, the wind being, for the most part, from the S.S.W. and S.E., the average daily excess of temperature was 3¾°; the second cold period began on February 4th and continued till the 13th; the wind was chiefly from the N., on the 11th the mean temperature of the day was nearly 13½° below its average; and for the 10 days ending the 13th was on the average 6¾° in defect.

From the 14th of February to the 8th of March, the temperature was mostly in excess of the average, and the direction of the wind was generally from the S.W.; on the 17th and 18th of February the mean temperatures were about 12° in excess of their averages, and on March 3rd, the excess was more than 10°, and for the 24 days ending March 8th, the average daily excess was 6¼°. On the 9th day of March the third long cold period began, and continued to the 27th, the direction of the wind was mostly from the W.N.W. and N.E., and the average daily deficiency of temperature for the 19 days was 3¾°. On the 19th of March the deficiency of temperature exceeded 10°; from March 28th to the end of the quarter the weather was warm, and the mean daily temperatures of the four days were 5½° in excess of their averages.

Maximum and Minimum Temperatures of the Air, on certain days in January, February, and March 1876.

Names of Stations.	January. 3rd. Max.	January. 3rd. Min.	January. 8th. Max.	January. 8th. Min.	February. 11th. Max.	February. 11th. Min.	February. 18th. Max.	February. 18th. Min.	March. 3rd. Max.	March. 3rd. Min.	March. 19th. Max.	March. 19th. Min.
	°	°	°	°	°	°	°	°	°	°	°	°
Guernsey - - -	52·5	42·5	36·5	28·5	37·5	34·5	54·0	47·5	53·5	44·0	41·0	30·0
Helston - - -	55·0	46·0	35·0	32·0	45·0	41·0	54·0	45·0	53·0	41·0	45·0	36·0
Truro - - -	56·0	45·0	32·0	28·0	41·0	36·0	55·0	49·0	54·0	47·0	42·0	30·0
Plymouth - - -	52·5	37·5	39·0	28·0	40·0	32·0	52·0	47·5	52·5	44·5	47·5	28·5
Eastbourne - - -	50·6	37·9	32·3	25·8	40·7	20·0	52·1	44·0	52·2	43·1	39·1	25·7
Osborne - - -	51·6	34·7	28·4	24·8	42·9	25·4	52·9	44·9	50·4	42·0	40·8	27·2
Bournemouth - -	52·1	32·5	29·5	26·1	39·0	30·6	47·8	44·5	50·8	43·5	41·0	30·0
Hastings - - -	51·3	46·5	26·9	20·9	36·8	25·6	49·0	43·2	48·8	43·5	37·5	25·5
Taunton - - -	53·0	31·0	35·0	27·0	36·5	29·0	56·0	50·0	53·6	43·0	44·8	22·0
Salisbury - - -	55·5	30·0	29·0	24·5	41·5	23·0	54·0	44·0	59·0	39·5	39·0	25·0
Barnstaple - - -	54·5	40·0	38·0	29·0	40·0	33·0	56·5	51·0	55·0	46·0	45·0	31·0
Caterham - - -	49·0	37·0	29·0	22·0	35·9	19·0	50·0	43·0	48·0	32·0	43·0	24·0
Ramsgate - - -	53·0	42·5	28·8	23·5	34·9	24·1	53·9	45·7	51·8	42·9	41·7	27·8
Strathfield Turgiss -	53·4	40·0	29·0	16·3	34·4	18·2	54·3	44·0	54·8	40·5	37·6	32·2
Weybridge Heath -	53·0	48·0	27·5	17·5	28·8	19·0	56·8	46·3	51·5	44·0	33·8	24·5
East Tilbury - -	55·5	40·0	45·4	17·3	43·0	23·0	54·5	38·7	56·5	40·0	42·2	27·2
Marlborough - -	53·3	43·7	28·2	22·6	38·4	26·5	52·9	46·3	56·4	44·7	36·6	25·3
Bristol - - -	52·2	30·3	30·0	27·2	38·7	28·7	53·8	49·4	55·5	43·0	38·1	23·6
Blackheath - -	54·6	46·0	27·3	21·9	30·1	22·9	60·1	45·9	56·8	42·4	36·3	25·8
Royal Observatory -	53·9	45·0	27·6	17·4	28·9	23·0	59·0	46·4	56·2	46·0	37·0	25·5
Beckenham - -	54·0	39·0	28·0	10·0	31·6	19·0	58·4	46·0	57·8	43·1	37·6	25·2
Streatley - -	54·5	39·8	29·0	20·9	39·2	20·0	55·2	44·9	54·0	44·5	44·2	27·4
Camden Square -	54·5	32·4	28·4	26·4	28·8	25·4	58·2	47·0	57·1	38·9	36·1	27·0
Chiswick - - -	53·5	39·0	35·5	26·5	38·0	21·7	56·2	47·5	54·2	43·0	43·0	26·0
Leicester - - -	53·0	43·4	30·8	24·0	31·1	22·8	55·8	48·0	55·9	43·5	37·2	24·4
Oxford - - -	53·5	40·0	29·5	23·2	29·0	21·8	55·7	43·1	58·0	41·8	37·5	25·7
Gloucester - - -	53·0	25·0	31·0	27·0	38·5	20·5	60·2	47·0	58·0	42·7	38·0	25·1
Royston - - -	51·7	28·3	—	—	36·4	24·2	55·5	45·0	54·5	39·0	40·7	23·1
Cardington - - -	50·0	27·0	35·4	26·6	36·6	23·6	54·6	45·6	52·4	40·0	41·0	26·0
Lampeter - - -	50·5	35·0	37·5	29·0	40·0	—	51·0	41·5	52·0	42·0	41·0	20·5
Cambridge - - -	53·6	37·0	30·0	27·2	36·4	26·4	58·3	48·0	58·8	43·2	38·4	25·6
Norwich - - -	51·2	40·0	29·0	25·0	31·8	26·0	58·0	48·0	56·5	43·0	39·0	26·0
Birmingham - -	53·3	27·2	31·0	27·0	36·8	21·5	54·0	48·0	56·3	39·8	34·0	26·6
Wolverhampton - -	51·7	32·0	29·8	27·1	34·4	22·1	53·0	46·8	55·0	38·1	33·8	24·6
Wisbech - - -	51·5	31·8	30·6	28·0	36·5	23·2	57·1	46·8	57·0	42·3	39·1	26·0
Llandudno - - -	53·8	37·1	33·0	31·3	37·7	25·0	56·5	46·5	56·6	44·4	39·0	26·3
Nottingham - - -	50·5	27·4	34·6	29·3	34·3	19·5	58·4	43·2	52·5	42·5	41·1	24·0
Holkham - - -	48·6	27·5	37·2	23·7	35·7	22·2	54·5	40·2	51·8	37·6	38·2	21·3
Sheffield - - -	55·0	32·5	35·0	29·5	40·7	24·5	54·0	42·0	57·0	41·5	35·0	24·5
Calcethorpe - - -	50·4	35·9	31·0	17·2	35·2	23·7	55·3	46·6	54·2	38·3	38·2	23·7
Liverpool - - -	50·9	31·5	36·5	30·6	35·9	22·0	53·3	42·0	52·2	42·9	38·8	31·9
Manchester - - -	51·7	35·8	37·0	32·0	—	—	—	—	—	—	—	—
Eccles - - -	52·2	34·8	32·7	29·0	32·7	16·8	55·3	42·2	56·5	39·8	36·4	24·9
Moorside - - -	52·6	32·0	30·6	29·2	36·0	23·0	54·2	42·5	55·7	40·6	35·0	25·0
Bermerside - - -	51·8	35·8	30·2	28·3	36·5	21·7	54·0	44·5	55·3	39·1	35·0	24·0
Hull - - -	48·0	36·0	32·0	31·0	38·0	30·0	55·0	46·0	56·0	40·0	41·0	25·0
Stonyhurst - - -	51·2	40·4	32·0	17·9	32·0	23·0	53·0	40·7	55·1	41·5	36·0	24·4
Bradford - - -	46·8	31·2	36·2	30·8	35·2	26·0	53·1	42·9	52·4	41·4	—	—
Leeds - - -	53·0	32·0	33·0	31·0	37·0	30·0	57·0	44·0	57·0	39·0	—	27·0
Cockermouth - -	51·4	43·6	29·7	16·4	38·4	29·0	50·0	43·0	50·4	42·2	38·2	26·1
Allenheads - - -	46·0	27·0	32·0	29·0	32·0	18·0	46·5	35·7	49·0	34·0	—	—
Silloth - - -	51·0	41·4	37·4	33·9	42·0	20·2	51·1	41·6	52·2	41·1	40·7	27·2
Sunderland - - -	48·0	35·0	36·0	33·0	37·0	29·0	54·0	42·0	59·0	39·0	38·0	27·0
Carlisle - - -	51·8	40·2	35·3	15·8	37·4	22·9	54·0	40·0	55·3	40·8	37·7	22·0
Bywell - - -	46·0	35·0	37·0	34·0	42·0	28·0	54·0	43·0	58·0	42·0	40·0	27·0
Newcastle-on-Tyne -	—	—	38·0	20·0	35·0	22·0	51·0	35·0	54·0	34·0	—	—
North Shields - -	50·0	42·0	39·2	34·5	36·8	27·3	52·0	39·4	55·0	38·3	35·0	25·8
Milltown (Ireland) -	54·0	38·0	35·0	33·0	39·0	24·0	51·0	42·0	55·0	40·0	40·0	29·0

On looking over this Table, it will be seen how very great the changes of temperature have been all over the country, in each month of the quarter.

On every day in the three cold periods, *snow* fell in some part of the country, and during the warm periods, rain fell very frequently. From February 13th to March 15th rain or snow fell

on 25 days, or on more than 25 days, at every one of the different stations. The weather during the quarter has been remarkable for an excess of atmospheric pressure in January and great deficiency from February 5th to the end of the quarter, for the amounts of snow, and for the great alternations of temperature in each month. These great changes are exhibited in the preceding Table which gives the maximum and minimum temperatures of the warmest and coldest days in each month.

The readings of the barometer at 160 feet above the level of the sea, in the neighbourhood of London, were above their respective averages throughout the month of January, excepting on two days, viz., 20th and 21st which were 0·08 in. and 0·26 in. below. The greatest departure in excess during the month was 0·72 in. on the 15th. The mean reading for the month was 30·095 ins., being 0·355 in. above its average. During the first four days of February, the barometer readings were a little in excess of the average, but from the 5th day of February to the 1st of April, the readings were all below their average values (excepting on two days), viz., February 24th and March 20th, which were above their averages, but only to the small amounts of 0·08 in. and 0·05 in.

During this remarkable and long continued period of 57 days of low readings, violent gales of wind, and showers of hail, rain, and snow were experienced. The following are some of the greatest departures in defect of the average during this period:—February 18th and 19th 0·58 in. and 0·56 in.; March 8th, 9th, 10th, 11th, 12th, 15th, and 28th; or 0·66 in., 1·31 in., 1·36 in., 0·95 in., 1·30 in., 0·74 in., and 0·72 in., respectively on these days. The readings were the lowest from March 8th to the 12th, and for these five days, the mean defect below the average was no less than 1·12 ins., and for the whole period of 57 days, the mean defect was 0·35 in.

The mean reading for the month of February was 29·628 ins., being 0·171 in. below the average.

Back to the year 1841 there are only five instances of the mean reading of the barometer being as low in the month of February, as in the present year, viz.:—

1843, 29·473 ins. 1844, 29·498 ins. 1848, 29·517 ins.
1855, 29·593 ins. 1866, 29.529 ins.

The mean reading of the barometer, for the month of March, was 29·391 ins., being 0·359 in. below the average; and in the preceding 35 years there is no value so low as that in the present year, the nearest approach being in the year 1862, when it was 29·498 ins.

At Greenwich *the mean temperature* of January was 1°·6 lower than that of December; that of February was 4°·0 higher than that of January; and that of March was the same as that of February. (From the preceding 35 years' observations the mean temperature of January below that of December is 1°·5; that of February above that of January is 0°·6; and that of March above that of February is 2°·5.)

The mean temperature of the air for January below that of December; South of latitude 51½° was 1°·4; from 51½° to 53½° was 2°·2; from 53½° to 53¾° was 1°·4; and from 53¾° to 55° was 0°·3 only. That of February above that of January, South of 50¾° was 2°·8; from 50¾° to 52½° was 4°·0; from 52½° to 53¾° was 2°·0; and from 53¾ to 55° was 0°·1 below. That of March below that of February was 1°·2 at places South of 50¾°; and from 50¾° to 55° was 0°·3, below the general decrease of mean temperature from February to March all over the country was 0°·4.

The mean temperature of the air for January was 37°·1, being 0°·6 above the average of the preceding 105 years, and 1°·5 below the average of the preceding 35 years; it was 4°·6 and 6°·3 below the corresponding values in 1874 and 1875.

The mean temperature of the air for February was 41°·1, being 2°·5 and 1°·9 higher than the average of the preceding 105 years and 35 years respectively; it was 2°·4 and 6°·1 higher than the corresponding values in 1874 and 1875.

The mean temperature of the air for March was 41°·1, being the same as the average value for the preceding 105 years, and 0°·6 below the average of the preceding 35 years; it was 2°·6 lower than that of 1874, and 0°·9 higher than that of 1875.

The mean high day temperatures of the air were 0°·7 and 0°·8 below their respective averages in January and March; but 1°·3 above in February.

The mean low night temperatures of the air were 2°·7 and 0°·2 lower than their respective averages in January and March; but 2°·2 above in February.

The mean daily ranges of temperature were 0°·9 and 0°·6 smaller than their respective averages in February and March; but 2°·0 larger in January.

Therefore the days and nights of January and March were cold, but warm in February.

At Greenwich the increase of atmospheric pressure from December to January was 0·158 in., the decrease from January to February was 0·467 in., and the decrease from February to March was 0·237 in. Over the whole country the mean increase of pressure from December to January was 0·161 in.; the decrease from Jannary to February was 0·475 in., being somewhat smaller at Southern stations, and somewhat larger at Northern stations; the mean decrease from February to March was 0·229 in., and was nearly the same at all stations.

At Greenwich the fall of rain in January was 1·1 in. being 0·8 ins. below its average; in February it was 1·5 in. being equal to the average value; and in March the fall was 2·3 ins., being 0·7 in. above the average; the heaviest fall in one day was 0·68 in. on the 12th of March. The total fall in the quarter was 4·9 ins., being exactly equal to the average. Rain fell on 50 days, exceeding the average number in these 3 months by 20 days, the distribution of the rain over the quarter has been therefore very different from what is usual, and this seems to have been more or less the case all over the country.

Thunderstorms occurred, on 5 days in February; and on 9 days in March.

Thunder was heard, but lightning was not seen, on 2 days in February; and on 6 days in March.

Lightning was seen, but thunder was not heard, on 1 day in February; and on 4 days in March.

Solar halos were seen on 3 days in January; 11 days in February; and on 10 days in March.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter, were as follows:—

Direction of Wind.	January.			February.			March.		
	Average.	1876.	Departure from Average.	Average.	1876.	Departure from Average.	Average.	1876.	Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	1½	1	− ½	2	2	0	2¾	5	+2¼
N.	3	2	−1	3	3	0	3¾	2	−1¾
N.E.	3½	7	+3½	3½	5	+1½	4	3	−1
E.	¾	4	+3¼	2¼	1	−1¼	2½	2	− ½
S.E.	2¼	3	+ ¾	1¼	1	− ¼	2	0	−2
S.	4½	8	+3½	3	3	0	2½	6	+3½
S.W.	9½	4	−5½	8	9	+1	7¼	7	− ¼
W.	3½	2	−1½	2¾	5	+2¼	3¼	6	+2¾
Calm (nearly.)	2¾	0	−2¾	2¾	0	−2¾	2½	0	−2½

The + signs denote excesses over averages; in the month of January the largest numbers affected with this sign are N.E., E. and S., in February to W., and in March to S. and W.

The − signs denote below averages; in January the largest number with this sign is S.W., in February is E., and in March is S.E.

1876. Months.	Temperature of Air. Mean.	Air. Diff. from average of 105 years.	Air. Diff. from average of 35 years.	Evaporation. Mean.	Evaporation. Diff. from average of 35 years.	Dew Point. Mean.	Dew Point. Diff. from average of 35 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 35 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 35 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 35 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.
Jan. -	37·1	+0·6	−1·5	35·5	−1·6	33·2	−1·9	11·6	+2·0	39·2	0·189	−0·012	2·2	−0·2
Feb. -	41·1	+2·5	+1·9	39·1	+1·7	36·5	+1·6	10·4	−0·9	41·3	0·216	+0·011	2·5	+0·1
Mar. -	41·1	0·0	−0·6	38·5	−0·8	35·1	−1·3	14·1	−0·6	42·6	0·204	−0·012	2·4	−0·1
Means -	39·8	+1·0	−0·1	37·7	−0·2	34·9	−0·5	12·0	+0·2	41·0	0·203	−0·004	2·4	−0·1

1876. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 35 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 35 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 35 years.	Rain. Amount.	Rain. Diff. from average of 61 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
Jan. -	85	−3	30·095	+0·355	562	+9	1·1	−0·8	278	20	10	1	14·0	41·7
Feb. -	84	−1	29·628	−0·171	549	−4	1·5	0·0	375	18	10	6	17·0	44·8
Mar. -	80	−2	29·391	−0·359	544	−6	2·3	+0·7	429	11	18	2	18·3	42·7
Means -	83	−2	29·705	−0·058	552	0	Sum 4·9	Sum 0·0	Mean 361	Sum 44	Sum 38	Sum 9	Lowest 14·0	Highest 44·8

NOTE.—In reading this table it will be borne in mind that the minus sign (−) signifies *below* the average, and that the plus sign (+) signifies *above* the average.

Lunar halos were seen on 3 nights in January; 6 nights in February; and on 13 nights in March.

Auroræ boreales were seen on the 19th of February at Calcethorpe, Liverpool, and North Shields.

Snow fell on 15 days during January; 18 days during February; and on 19 days during March; thus making 52 during the quarter. The falls in January and February were pretty general all over the country, but in March the heaviest falls were in the Midland and Northern Counties. At some places in March snow fell consecutively from the 6th to the 22nd.

Hail fell at one or other station on 7 days in January; 17 days in February; and on 20 days in March.

Fog prevailed on 20 days in January; 11 days in February; and on 7 days in March.

Leaf buds first appeared on the Sycamore, on the 27th of February at Strathfield Turgiss.

Leaf buds first appeared on the Horsechestnut, on the 26th of February at Helston; on the 7th of March at Strathfield Turgiss; on the 12th at Caterham; on the 20th at Guernsey; and on the 27th at Weybridge.

Leaf buds first appeared on the Hawthorn, on the 15th of February at Weybridge.

Field Elm in leaf, on the 8th of March at Helston.

Hawthorn in leaf, on the 9th of March at Oxford; on the 10th at Helston; on the 20th at Guernsey; and on the 24th at Weybridge.

Pear in blossom, on the 22nd of February at Helston; and on the 21st of March at Llandudno.

Peach in blossom, on the 23rd of February at Helston; on the 14th of March at Oxford; and on 26th at Wisbech.

Plum in blossom, on the 17th of March at Strathfield Turgiss; on the 24th at Llandudno; and on the 28th at Oxford.

Wryneck arrived, on the 31st of March at Guernsey.

Woodcock departed, on the 25th of February from Strathfield Turgiss.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING MARCH 31ST, 1876.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the fifth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1876. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount fallen.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.M.S.	204	Jan.	30·025	1·012	52·5	27·5	25·0	45·3	37·5	7·8	41·4	38·2	·281	2·7	0·4	89	555	–	–	1·4	7	9	9	6	3·0	6·6	7	1·58
		Feb.	29·655	0·946	53·0	32·0	21·0	47·4	40·8	6·6	43·6	41·4	·262	3·0	0·3	92	546	–	–	1·7	5	4	10	10	4·5	6·5	18	3·34
		Mar.	29·427	1·360	53·5	30·0	23·5	48·1	38·9	9·2	42·4	38·9	·239	2·7	0·4	88	543	–	–	2·1	7	5	9	10	3·9	5·9	25	5·25
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	Jan.	30·129	1·026	56·0	26·0	30·0	49·0	38·8	10·2	43·6	37·9	·238	2·6	0·6	80	555	54·5	35·4	2·1	9	8	8	6	5·0	6·1	10	1·14
		Feb.	29·722	1·186	56·0	32·0	24·0	51·0	42·7	8·3	46·4	42·4	·271	3·1	0·5	87	544	57·7	39·0	2·3	5	4	8	12	6·0	6·7	20	4·70
		Mar.	29·505	1·606	57·0	30·0	27·0	51·6	38·6	13·0	44·7	41·7	·264	2·9	0·4	89	542	63·2	35·5	2·7	8	4	6	13	5·2	5·7	26	6·06
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	Jan.	30·216	1·051	56·0	22·0	34·0	47·0	36·8	10·2	42·0	37·5	·225	2·6	0·5	85	558	–	–	2·2	8	8	9	6	–	7·4	12	1·06
		Feb.	29·805	1·080	57·0	27·0	30·0	50·2	41·2	9·0	45·3	41·6	·264	3·0	0·4	87	547	–	–	2·6	6	4	6	13	–	8·1	23	4·62
		Mar.	29·593	1·577	55·0	27·0	28·0	49·6	38·8	10·8	43·0	38·6	·234	2·7	0·5	84	545	–	–	3·3	8	6	5	12	–	6·9	27	4·67
PLYMOUTH (Devon), John Merrifield, Esq., F.R.A.S., F.M.S., LL.D.	69	Jan.	30·259	1·100	53·5	24·0	29·5	45·8	35·5	10·3	40·9	38·9	·236	2·8	0·2	93	560	–	34·8	1·4	6	12	10	3	–	7·7	10	1·11
		Feb.	29·842	1·153	55·5	30·5	25·0	48·3	39·1	9·2	43·8	41·6	·264	3·0	0·3	92	549	–	37·9	2·9	8	6	8	7	–	7·3	20	4·05
		Mar.	29·630	1·520	56·5	28·5	28·0	49·5	37·6	11·9	43·2	40·1	·249	2·9	0·3	89	546	–	35·7	3·2	8	8	4	11	–	6·5	25	3·74
EASTBOURNE (Sussex), Miss W. L. Hall.	12	Oct.	29·771	1·313	66·0	34·3	31·7	57·1	45·9	11·2	51·1	45·0	·300	3·4	0·8	80	540	93·1	36·7	0·6	9	9	7	6	1·2	–	15	4·89
		Nov.	29·754	1·420	58·5	27·8	30·7	48·8	39·1	9·7	44·1	39·1	·239	2·7	0·6	82	547	72·0	33·6	0·5	7	7	5	11	1·2	–	21	6·40
		Dec.	30·124	0·773	53·7	17·0	36·7	43·3	34·4	8·9	39·4	36·9	·220	2·6	0·3	91	559	53·6	29·8	0·2	9	6	8	8	1·5	–	14	1·78
		Jan.	30·255	0·915	51·0	22·8	28·2	42·1	31·6	10·5	37·4	35·5	·208	2·4	0·4	93	564	57·8	26·1	0·2	11	7	6	7	1·1	–	10	1·25
		Feb.	29·812	0·954	52·2	20·0	32·2	46·2	36·2	10·0	41·4	39·8	·246	2·9	0·2	94	551	75·7	31·1	0·3	8	3	5	13	2·6	–	21	3·47
		Mar.	29·521	1·865	57·8	25·7	32·1	49·2	36·6	12·6	42·5	36·9	·220	2·5	0·6	81	545	97·6	31·2	0·6	9	2	7	13	2·0	–	22	3·25
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	Jan.	30·073	1·012	54·4	22·8	31·6	43·3	32·3	11·0	37·5	36·3	·214	2·5	0·2	95	561	52·0	30·8	0·2	6	9	9	7	–	7·8	11	0·93
		Feb.	29·638	0·926	56·0	24·1	31·9	47·3	36·9	10·4	41·8	39·6	·244	2·8	0·3	92	548	64·8	35·1	0·8	6	4	11	8	–	8·1	17	3·02
		Mar.	29·395	1·566	61·1	25·1	36·0	49·5	35·5	14·0	41·5	38·1	·230	2·6	0·5	89	543	85·0	34·2	0·6	5	4	10	12	–	6·1	17	3·74
SOUTH BOURNE, near Bournemouth, (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	128	Jan.	30·151	0·980	52·2	22·5	29·7	42·4	32·4	10·0	37·6	33·8	·194	2·2	0·4	86	562	–	30·4	–	9	7	4	11	–	5·6	10	1·09
		Feb.	29·716	0·980	53·1	29·7	23·4	45·8	38·5	7·3	42·0	38·7	·235	2·7	0·4	88	549	–	35·5	–	7	5	6	11	–	5·7	16	1·79
		Mar.	29·482	1·510	58·3	29·9	28·4	49·4	38·0	11·4	43·0	36·6	·217	2·5	0·7	78	543	–	–	–	5	5	8	13	–	3·9	20	3·43
BRIGHTON (Sussex), F. E. Sawyer, Esq., F.M.S.	206	Jan.	30·057	1·021	49·0	22·6	23·4	40·4	33·2	7·2	37·1	34·5	·199	2·3	0·3	90	560	–	30·1	1·0	10	6	8	7	–	7·7	11	1·09
		Feb.	29·570	1·195	53·8	24·4	29·4	44·3	36·7	7·6	40·4	38·4	·232	2·7	0·2	93	549	–	32·3	0·7	7	3	10	9	–	8·4	17	2·95
		Mar.	29·335	1·652	55·7	27·4	28·3	46·9	36·2	10·7	41·2	36·9	·219	2·5	0·5	85	543	–	32·9	1·5	6	4	8	13	–	7·0	23	2·79
HASTINGS (Sussex), Alex. E. Murray, Esq., F.M.S.	167	Jan.	30·098	0·983	51·3	20·9	30·4	40·6	33·9	6·7	37·4	34·6	·200	2·3	0·3	90	561	–	30·8	1·9	9	9	8	5	–	7·6	16	1·21
		Feb.	29·656	1·118	50·6	25·6	25·0	43·8	36·9	6·9	40·4	37·7	·225	2·6	0·3	91	550	–	33·9	2·1	7	3	10	9	–	8·0	22	2·82
		Mar.	29·416	1·641	57·5	25·5	32·0	46·9	36·2	10·7	41·1	36·4	·214	2·5	0·5	83	544	–	33·3	2·4	6	4	9	12	–	5·7	25	3·20
TAUNTON (Somerset), James Bottomley, Esq.	80	Dec.	30·034	0·900	59·0	24·4	34·6	44·7	34·9	9·8	39·4	36·6	·218	2·5	0·3	90	558	47·8	32·2	0·3	8	8	4	11	2·6	8·5	11	0·63
		Jan.	30·163	1·000	55·0	20·0	35·0	44·9	32·6	12·3	39·0	36·5	·216	2·5	0·4	81	560	47·1	30·6	0·2	8	6	8	9	4·7	7·4	7	0·76
		Feb.	29·747	1·602	57·2	22·0	35·2	48·9	38·3	10·6	43·1	40·7	·254	2·9	0·3	91	548	54·3	35·4	0·3	7	3	7	12	3·1	7·2	19	2·93
		Mar.	29·523	1·516	57·7	22·0	35·7	48·3	34·3	13·8	40·7	37·3	·222	2·6	0·4	88	547	55·9	32·8	0·2	8	3	5	15	3·0	5·4	23	4·18
SALISBURY (Wilton House), T. Challis, Esq.	186	Jan.	30·074	0·892	55·5	16·5	39·0	43·4	30·2	13·2	37·0	34·9	·204	2·4	0·2	92	561	55·7	28·0	1·2	9	11	7	4	3·8	7·8	10	1·76
		Feb.	29·623	1·135	58·5	17·0	41·5	48·1	34·3	13·8	41·3	38·3	·232	2·7	0·4	90	548	70·8	31·8	1·6	6	7	7	9	5·1	7·5	17	3·38
		Mar.	29·391	1·538	62·0	24·0	38·0	49·6	32·7	16·9	40·7	36·9	·218	2·5	0·4	86	544	89·2	30·0	1·9	7	7	5	12	3·9	6·8	22	3·52
BARNSTAPLE (Devon), T. Mackrell, Esq.	43	Jan.	30·196	1·030	55·5	21·5	34·0	46·2	36·5	9·7	41·4	38·2	·231	2·7	0·4	89	558	–	–	1·2	7	10	10	4	–	4·1	11	2·13
		Feb.	29·767	1·040	57·0	29·0	28·0	49·3	41·2	8·1	44·5	42·4	·271	3·1	0·3	92	547	–	–	1·2	5	4	9	11	–	5·9	19	3·09
		Mar.	29·555	1·520	56·5	28·5	28·0	49·5	38·1	11·4	43·0	38·6	·234	2·7	0·5	84	545	–	–	1·5	5	5	7	14	–	4·2	21	5·40
CATERHAM (Surrey), James Adam, Esq., M.D.	660	Jan.	29·596	0·890	56·0	14·0	42·0	38·9	30·0	8·9	35·5	33·5	·193	2·2	0·3	92	534	–	–	1·4	6	6	7	12	1·3	3·7	7	1·32
		Feb.	29·146	0·929	55·0	19·0	36·0	44·2	34·0	10·2	39·0	37·2	·232	2·6	0·4	93	542	–	–	1·8	6	3	7	13	1·5	3·7	20	–
		Mar.	28·927	1·780	70·0	14·0	56·0	59·0	31·5	18·5	39·7	35·8	·210	2·4	0·4	86	537	–	–	1·8	7	4	6	14	3·7	3·6	25	3·63

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1876. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount fallen.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
RAMSGATE (St. Augustine's Monastery), Rev. T. Hugh Quelch, O.S.B.	108	Jan.	30·168	0·930	53·0	23·5	29·5	41·4	33·2	8·2	37·5	33·5	·192	2·2	0·4	85	563	63·4	30·3	1·3	7	9	9	6	–	7·6	11	1·01
		Feb.	29·699	1·020	57·8	24·1	33·7	45·4	36·7	8·7	41·1	36·8	·218	2·5	0·5	85	550	78·0	33·8	2·0	4	4	12	9	–	7·2	17	2·11
		Mar.	29·456	1·324	55·3	29·1	26·2	47·6	36·6	11·0	41·9	36·1	·213	2·6	0·4	81	544	90·0	34·0	1·8	6	4	9	12	–	6·5	13	2·26
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	Jan.	30·056	1·054	54·9	16·3	38·6	42·7	30·6	12·1	37·0	31·0	·174	2·0	0·6	81	561	61·7	28·1	0·5	8	9	8	6	1·8	7·5	8	0·89
		Feb.	29·609	0·975	58·5	17·8	40·7	46·8	35·7	11·1	41·0	38·3	·231	2·7	0·3	90	548	78·8	30·5	0·7	6	5	6	12	3·0	7·0	16	2·11
		Mar.	29·366	1·600	60·0	20·6	39·4	47·7	34·3	13·4	40·5	35·3	·206	2·3	0·4	82	544	94·4	30·6	0·8	8	5	7	11	3·0	6·1	19	3·30
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	Jan.	30·144	0·972	54·8	17·5	37·3	42·0	32·0	10·0	36·7	34·4	·199	2·3	0·2	92	563	54·0	30·2	0·8	7	10	10	4	1·0	7·3	11	0·90
		Feb.	29·679	1·164	58·0	18·5	39·5	46·4	35·3	11·1	40·7	36·5	·215	2·5	0·5	84	550	64·7	32·8	1·0	7	2	9	11	2·7	6·7	19	1·82
		Mar.	29·446	1·405	64·0	24·5	39·5	48·9	34·7	14·2	40·8	38·3	·232	2·7	0·3	91	545	79·3	32·6	1·2	5	5	11	10	3·1	6·2	15	3·05
EAST TILBURY Vicarage (Essex), Rev. R. Tyas, M.A., LL.D.	29	Jan.	30·237	0·918	55·5	17·3	38·2	47·9	30·4	17·5	38·4	36·5	·216	2·5	0·2	93	563	47·1	27·5	0·4	8	9	8	6	–	9·0	11	0·92
		Feb.	29·769	0·996	59·6	21·0	38·6	50·5	35·2	15·3	42·4	38·4	·233	2·7	0·5	86	550	67·4	33·2	1·0	3	6	11	9	–	6·9	18	1·51
		Mar.	29·524	1·610	65·0	21·5	43·5	53·3	33·4	19·9	42·7	38·6	·234	2·7	0·5	86	545	84·2	33·8	1·4	4	6	10	11	–	7·7	16	2·52
MARLBOROUGH, The Green (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	474	Jan.	29·742	0·972	53·3	19·9	33·4	42·0	31·1	10·9	36·5	34·8	·202	2·4	0·2	94	556	57·5	29·0	0·3	6	9	9	7	–	7·9	12	2·60
		Feb.	29·290	1·122	56·0	20·3	35·7	46·0	36·3	9·7	40·6	37·4	·224	2·6	0·4	89	543	76·2	34·2	0·5	6	4	5	14	–	8·0	19	2·87
		Mar.	29·070	1·495	59·6	24·7	34·9	46·6	33·8	12·8	39·6	35·7	·209	2·4	0·5	86	539	90·5	31·3	0·6	8	2	7	14	–	6·2	20	4·36
BLACKHEATH (London), James Glaisher, Esq., F.R.S.	160	Jan.	30·096	1·035	57·0	21·2	35·8	42·8	32·0	10·8	37·4	34·1	·196	2·3	0·4	88	561	55·8	29·7	1·4	6	9	11	5	–	7·4	10	1·17
		Feb.	29·625	1·121	60·1	21·7	38·4	47·5	36·1	11·4	41·5	37·2	·225	2·6	0·5	86	548	69·1	33·4	2·1	7	4	8	10	–	7·0	20	1·77
		Mar.	29·391	1·617	65·9	25·2	40·7	49·2	34·6	14·6	41·2	35·6	·207	2·4	0·6	80	544	75·8	32·2	1·7	6	4	9	12	–	6·6	17	2·66
BECKENHAM (Kent), C. O. F. Cator, Esq., M.A., F.M.S.	170	Jan.	30·078	1·025	54·0	10·0	44·0	42·8	29·0	13·8	36·3	33·6	·193	2·2	0·4	90	562	–	–	–	7	8	11	5	–	7·0	13	1·10
		Feb.	29·616	1·167	60·4	18·1	42·3	47·0	35·0	12·0	40·7	36·9	·218	2·5	0·4	86	549	–	–	–	4	4	10	11	–	6·5	19	2·10
		Mar.	29·373	1·643	64·4	25·8	40·6	50·0	33·8	16·2	40·9	37·5	·224	2·6	0·4	88	544	–	–	–	5	5	6	15	–	6·2	20	3·02
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.A.S., F.M.S.	150	Jan.	30·127	1·113	54·5	20·9	33·6	43·4	32·1	11·3	37·8	34·8	·202	2·3	0·3	89	561	–	–	0·8	7	9	9	6	–	7·8	9	1·24
		Feb.	29·647	1·160	57·2	18·8	38·4	47·0	36·1	10·9	41·6	36·8	·218	2·5	0·5	84	548	–	–	1·6	7	4	8	10	–	7·0	20	2·22
		Mar.	29·413	1·546	58·7	25·8	32·9	48·6	34·8	13·8	41·5	36·4	·215	2·6	0·5	83	544	–	–	2·1	8	6	6	11	–	5·3	25	3·69
CAMDEN SQUARE (London), G. J. Symons, Esq., F.M.S.	123	Jan.	30·137	0·974	54·8	18·9	35·9	42·5	31·5	11·0	37·4	34·6	·200	2·3	0·4	90	562	48·2	29·6	–	10	6	8	7	–	7·3	11	0·94
		Feb.	29·664	1·181	58·6	23·0	35·6	46·7	36·6	10·1	41·7	37·4	·223	2·6	0·4	86	548	62·3	33·9	–	8	2	7	12	–	6·9	18	1·97
		Mar.	29·438	1·376	63·3	26·4	36·9	48·9	35·2	13·7	41·8	36·6	·218	2·5	0·6	83	544	85·4	31·2	–	7	4	5	15	–	5·8	22	2·96
CHISWICK (Middlesex), J. K. L. M. Farquhar, Esq.	25	Jan.	30·246	1·036	55·0	16·7	38·3	43·0	31·7	11·3	37·6	34·3	·198	2·3	0·3	88	564	59·6	27·6	0·7	6	6	10	9	–	8·6	8	0·77
		Feb.	29·774	0·972	58·2	20·5	37·7	47·9	36·1	11·8	41·9	37·6	·223	2·6	0·5	86	550	79·2	32·2	0·8	4	5	7	13	–	7·7	17	1·66
		Mar.	29·528	1·592	59·7	25·5	34·2	49·6	34·5	15·1	41·2	36·3	·213	2·5	0·5	83	546	93·1	30·2	1·1	3	3	8	17	–	7·2	17	2·72
LEICESTER (Town Museum), W. J. Harrison, Esq., F.G.S.	245	Jan.	29·992	1·016	53·8	15·0	38·8	41·1	31·6	9·5	36·4	33·5	·192	2·2	0·3	90	560	55·5	25·0	0·8	7	5	12	7	–	8·2	15	2·21
		Feb.	29·485	1·124	58·7	20·3	38·4	45·5	35·9	9·6	40·4	36·1	·213	2·5	0·4	85	547	78·9	29·7	0·9	4	5	9	11	–	6·5	22	2·60
		Mar.	29·260	1·472	60·7	24·4	36·3	46·5	34·2	12·3	40·0	33·8	·194	2·3	0·6	78	543	89·1	28·6	1·0	5	5	6	15	–	7·0	25	2·89
OXFORD Observatory, Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	Jan.	30·026	1·074	53·3	22·6	30·7	41·8	33·0	8·8	37·4	34·6	·200	2·3	0·3	90	560	59·6	31·5	0·6	7	7	11	6	0·4	8·9	11	1·71
		Feb.	29·547	1·150	56·9	20·1	36·8	46·5	37·4	9·1	41·7	37·7	·227	2·6	0·4	87	546	79·4	34·7	1·1	6	3	8	12	2·7	8·1	19	2·84
		Mar.	29·347	1·541	60·9	26·0	34·9	46·2	35·3	10·9	40·9	35·4	·207	2·4	0·7	82	543	88·9	33·2	1·2	4	4	9	14	4·2	7·5	22	3·40
GLOUCESTER, E. Toller, Esq., M.D.	100	Jan.	30·207	0·983	52·9	22·2	30·7	43·4	30·2	13·2	37·4	35·8	·210	2·5	0·2	94	563	50·9	29·4	0·4	6	8	8	9	0·7	7·6	8	1·84
		Feb.	29·734	1·028	60·1	20·5	39·6	47·8	36·5	11·3	41·7	40·6	·253	2·9	0·1	96	549	70·0	33·8	1·2	7	5	6	11	2·6	7·9	19	2·18
		Mar.	29·501	1·426	58·0	22·0	36·0	48·8	34·0	14·8	40·7	37·0	·220	2·6	0·4	87	546	81·6	34·7	1·1	9	6	5	11	1·9	7·3	21	2·76
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	Jan.	29·985	0·938	54·2	18·4	35·8	42·5	30·3	12·2	36·5	34·3	·198	2·3	0·2	92	560	–	–	–	6	6	13	6	–	6·9	12	1·90
		Feb.	29·509	1·018	57·4	23·4	34·0	47·2	34·8	12·4	41·0	36·9	·219	2·5	0·5	85	545	–	–	–	4	2	11	12	–	7·2	20	2·14
		Mar.	29·281	1·395	59·1	22·6	36·5	49·6	33·0	16·6	40·3	35·1	·204	2·4	0·5	84	543	–	–	–	6	4	9	12	–	5·9	15	2·37
CARDINGTON (near Bedford), Mr. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	105	Jan.	30·156	0·990	53·4	15·0	38·4	41·0	29·5	11·5	35·4	33·4	·192	2·2	0·2	92	563	44·2	26·0	1·5	7	9	7	8	–	7·6	9	1·72
		Feb.	29·668	0·964	58·0	21·6	36·4	46·6	35·3	11·3	40·9	37·8	·227	2·6	0·3	89	549	56·5	30·0	2·3	6	2	7	14	–	6·6	22	2·20
		Mar.	29·435	1·386	62·0	25·0	37·0	48·2	33·8	14·4	40·2	35·9	·212	2·5	0·4	88	546	69·1	29·1	3·2	5	5	6	15	–	5·9	19	2·39

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1876. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
ST. DAVID'S COLLEGE, LAMPETER (Cardiganshire), Prof. A. W. Scott, M.A.	420	Jan.	29·810	0·964	56·0	10·0	46·0	44·1	31·9	12·2	38·7	35·6	·209	2·4	0·3	90	555	58·2	—	—	7	9	11	4	—	—	9	2·90
		Feb.	29·355	1·048	56·5	16·0	40·5	46·5	34·5	12·0	40·3	36·4	·216	2·5	0·4	87	544	63·4	—	—	6	5	8	10	—	—	21	4·23
		Mar.	29·145	1·516	55·0	20·5	34·5	47·3	33·0	14·3	39·6	35·0	·204	2·4	0·5	84	541	84·8	—	—	6	7	5	13	—	—	21	3·98
CAMBRIDGE, J. W. L. Glaisher, Esq., M.A., F.R.S.	40	Jan.	30·207	1·007	55·0	18·0	37·0	42·2	31·6	10·6	36·8	34·9	·202	2·4	0·2	93	564	62·9	28·6	1·8	6	5	11	9	—	7·4	11	1·98
		Feb.	29·708	0·988	59·0	25·0	34·0	47·5	36·7	10·8	41·6	38·0	·229	2·6	0·4	88	549	86·1	32·1	2·3	7	2	8	12	—	6·4	19	1·99
		Mar.	29·481	1·356	64·1	23·0	41·1	48·8	34·7	14·1	41·1	36·4	·214	2·5	0·5	83	546	100·4	30·0	2·2	5	4	9	13	—	6·4	21	2·27
NORWICH (Norfolk), John Quinton, Esq., Jun.	42	Jan.	30·229	0·934	53·8	23·0	30·8	40·9	31·9	9·0	36·3	35·1	·205	2·4	0·1	96	565	—	—	—	6	9	13	3	—	—	12	1·67
		Feb.	29·707	1·072	58·0	23·0	35·0	45·2	36·0	9·2	40·3	38·7	·235	2·8	0·2	94	551	—	—	—	5	2	10	12	—	—	19	2·56
		Mar.	29·466	1·344	59·0	26·0	35·0	46·3	35·5	10·8	40·2	38·4	·232	2·7	0·2	94	543	—	—	—	5	4	9	13	—	—	18	2·29
WISBECH (Cambridgeshire), S. H. Miller, Esq., F.R.A.S., F.M.S.	14	Jan.	30·247	0·964	54·5	21·0	33·5	41·5	31·9	9·6	36·2	34·2	·198	2·3	0·2	93	565	57·2	28·8	0·3	7	7	10	7	2·4	7·6	11	2·19
		Feb.	29·734	1·038	59·0	23·0	36·0	46·6	35·8	10·8	40·5	37·6	·225	2·6	0·3	90	551	74·8	31·8	0·7	3	4	11	11	4·1	7·2	23	2·47
		Mar.	29·493	1·430	63·5	26·0	37·5	47·9	34·5	13·4	40·4	35·1	·205	2·4	0·5	82	547	87·3	30·4	1·2	6	3	9	13	4·4	5·8	18	2·84
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	100	Jan.	30·101	0·950	55·0	22·2	32·8	47·0	36·3	10·7	41·7	36·5	·217	2·5	0·5	83	553	—	—	0·8	1	8	13	9	—	6·1	6	1·20
		Feb.	29·610	1·290	57·0	25·0	32·0	47·9	38·3	9·6	42·6	36·8	·219	2·5	0·6	81	546	—	—	1·0	4	5	11	11	—	5·9	21	3·01
		Mar.	29·407	1·636	56·6	26·2	30·4	47·7	36·8	10·9	41·7	35·0	·205	2·4	0·6	77	544	—	—	1·2	5	4	8	14	—	6·5	16	2·89
NOTTINGHAM, M.O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	183	Jan.	30·061	0·942	52·9	17·8	35·1	39·8	31·4	8·4	35·9	32·9	·189	2·2	0·3	89	562	49·2	29·5	0·4	7	8	10	6	2·2	8·6	18	1·89
		Feb.	29·536	0·938	55·4	18·2	40·2	44·8	34·4	10·4	39·5	36·1	·212	2·5	0·4	88	548	68·0	31·8	0·6	4	6	10	9	4·8	6·0	24	2·22
		Mar.	29·304	1·478	57·9	24·0	33·9	47·1	33·0	14·1	39·4	34·6	·201	2·3	0·5	83	545	78·0	29·6	0·6	7	4	7	13	4·6	6·8	26	3·01
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	39	Jan.	30·197	0·922	51·8	19·0	32·8	41·8	27·7	14·1	36·1	31·7	·189	2·0	0·4	84	565	53·3	25·5	1·8	5	7	15	4	—	7·0	12	1·72
		Feb.	29·701	1·006	58·0	18·7	39·3	45·6	31·4	14·2	39·5	35·0	·203	2·4	0·5	84	551	78·2	28·3	2·2	5	3	13	8	—	7·1	19	3·26
		Mar.	29·460	0·870	57·8	17·3	40·5	47·0	30·5	16·5	39·0	33·7	·193	2·2	0·6	82	547	95·4	28·9	2·4	4	4	10	13	—	6·4	21	2·50
CALCETHORPE MANOR (near) Louth (Lincolnshire), D. Grant Briggs, Esq., F.M.S.	382	Jan.	29·824	1·009	54·1	17·1	37·0	39·8	30·5	9·3	35·1	32·8	·186	2·2	0·2	91	559	60·9	27·8	1·1	6	5	10	10	7·8	6·4	17	1·32
		Feb.	29·313	1·115	55·2	19·9	35·3	43·8	33·3	10·5	38·0	35·1	·204	2·4	0·3	89	546	81·8	30·4	1·3	5	4	10	10	8·0	6·1	25	2·78
		Mar.	29·078	1·495	59·8	23·6	36·2	44·5	32·5	12·0	38·6	34·5	·199	2·3	0·4	87	542	91·1	28·7	1·4	5	5	8	13	8·6	6·3	21	2·75
LIVERPOOL OBSERVATORY, John Hartnup, Esq., F.R.A.S.	197	Jan.	30·008	0·963	54·0	21·8	32·2	43·6	34·1	9·5	38·7	34·7	·202	2·3	0·4	86	558	—	—	1·1	6	10	13	2	—	6·9	10	1·06
		Feb.	29·503	0·988	56·0	22·0	34·0	46·0	36·5	9·5	40·7	35·8	·210	2·4	0·5	83	546	—	—	1·4	5	6	10	8	—	6·8	16	2·49
		Mar.	29·276	1·592	56·2	27·7	28·5	45·7	35·5	10·2	40·0	32·4	·184	2·1	0·8	74	543	—	—	2·0	4	6	7	14	—	6·5	18	1·98
ECCLES (near Manchester), T. Mackereth, Esq., F.R.A.S., F.M.S.	145	Jan.	30·080	0·956	54·3	19·9	34·4	43·2	32·1	11·1	38·1	34·5	·199	2·3	0·4	87	560	44·9	25·1	0·1	4	8	13	6	1·0	7·6	8	1·85
		Feb.	29·570	1·108	55·6	14·4	41·2	46·5	33·8	12·7	40·0	36·0	·212	2·5	0·4	85	548	51·4	27·2	0·3	4	6	10	9	2·6	7·0	21	3·99
		Mar.	29·351	1·546	56·5	22·6	33·9	46·6	32·9	13·7	39·6	33·9	·195	2·3	0·6	80	545	55·9	26·0	1·1	8	5	5	13	2·5	7·9	21	3·67
MOORSIDE OBSERVATORY, HALIFAX (Yorkshire), Louis J. Crossley, Esq., F.R.A.S.	429	Jan.	29·784	0·974	54·5	17·0	37·5	42·3	32·8	9·5	37·5	33·5	·192	2·2	0·4	85	555	48·5	29·3	0·9	4	8	6	13	0·7	8·1	14	1·23
		Feb.	29·258	1·013	54·2	23·0	31·2	44·8	35·2	9·6	39·4	34·8	·203	2·4	0·4	84	543	61·3	31·6	1·3	6	5	6	12	2·0	7·8	21	3·66
		Mar.	29·027	1·566	58·2	25·6	34·6	44·7	33·4	11·3	37·8	34·0	·196	2·3	0·4	87	541	70·9	29·9	1·5	7	5	5	14	3·3	7·1	22	4·71
BERMERSIDE OBSERVATORY, HALIFAX (Yorkshire), Edward Crossley, Esq., F.R.A.S.	520	Jan.	29·660	0·988	54·0	15·0	39·0	40·5	32·7	7·8	36·7	34·4	·199	2·3	0·2	92	554	54·7	—	0·5	5	9	8	9	—	7·9	11	1·49
		Feb.	29·154	0·964	54·0	21·7	32·3	43·4	33·5	9·9	38·1	35·5	·207	2·4	0·3	90	543	71·1	—	1·0	4	7	7	11	—	6·8	17	4·20
		Mar.	28·939	1·568	59·0	23·3	35·7	42·9	32·1	10·8	38·7	31·3	·175	2·0	0·7	75	538	80·2	—	1·0	4	7	8	12	—	7·1	20	5·14
HULL (Yorkshire), Mr. E. Peak.	12	Jan.	30·238	1·008	52·0	24·0	28·0	40·6	33·2	7·4	38·5	35·2	·205	2·3	0·4	89	563	45·8	30·7	—	—	—	—	—	0·4	—	8	1·02
		Feb.	29·696	0·982	57·0	25·0	32·0	45·3	35·2	10·1	40·2	35·2	·205	2·4	0·5	83	551	62·2	32·9	—	—	—	—	—	2·9	—	23	2·88
		Mar.	29·466	1·546	56·0	25·0	31·0	45·9	34·3	11·6	39·8	34·7	·202	2·4	0·5	83	547	68·3	31·6	—	—	—	—	—	4·4	—	22	3·93
STONYHURST (Lancashire), Rev. S. J. Perry, F.M.S., F.R.S., F.R.A.S.	363	Jan.	29·825	1·005	53·0	17·3	35·7	39·8	33·6	6·2	37·5	34·2	·197	2·3	0·4	88	556	61·2	29·9	—	8	5	9	9	—	7·8	20	3·09
		Feb.	29·305	1·131	53·0	23·0	30·0	45·7	34·8	10·9	39·6	36·3	·215	2·5	0·3	89	544	80·3	31·4	—	6	4	7	12	—	8·0	23	6·00
		Mar.	29·095	1·630	55·1	24·4	30·7	45·1	33·4	11·7	38·9	34·4	·200	2·3	0·5	85	541	92·0	29·9	—	4	4	6	17	—	7·7	21	4·61
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	366	Jan.	29·818	0·991	53·0	23·0	30·0	43·6	34·3	9·3	39·1	34·3	·198	2·3	0·5	83	554	45·6	—	0·7	6	8	7	10	—	7·5	13	0·93
		Feb.	29·317	0·975	55·6	24·0	29·6	41·9	32·8	9·1	38·7	34·2	·198	2·3	0·4	85	545	51·7	—	0·8	6	3	6	14	—	6·9	21	3·32
		Mar.	29·059	1·538	55·0	25·8	29·2	45·6	34·7	10·9	39·1	33·6	·193	2·2	0·6	81	540	62·5	—	1·0	6	6	3	16	—	6·5	21	4·17
LEEDS (Philosophical Hall) (Yorkshire), Louis C. Miall, Esq.	137	Jan.	30·071	1·040	55·0	27·0	28·0	42·8	34·0	8·8	38·9	34·4	·200	2·3	0·5	85	559	47·4	—	1·1	5	9	9	8	—	7·1	7	0·61
		Feb.	29·554	1·084	57·0	24·0	29·0	46·1	36·2	9·9	41·2	34·3	·213	2·5	0·5	83	547	60·4	—	1·4	6	4	6	13	—	6·2	21	2·41
		Mar.	29·308	1·696	60·0	27·0	33·0	48·3	34·5	13·8	40·5	34·8	·202	2·3	0·6	80	545	71·2	—	1·6	8	4	4	15	—	5·2	21	3·72

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1876. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.R.A.S., F.M.S.	146	Jan.	29·964	0·960	51·7	16·8	34·9	44·9	36·1	8·8	40·3	37·3	·222	2·6	0·3	89	556	51·3	28·8	0·5	4	7	11	9	2·5	7·0	13	2·48
		Feb.	29·517	1·160	51·1	20·4	30·7	44·6	36·1	8·5	39·9	36·0	·212	2·4	0·4	86	548	67·4	27·0	0·4	4	8	10	7	2·9	6·3	13	3·94
		Mar.	29·306	1·724	50·6	21·2	29·4	44·8	34·3	10·5	39·3	34·9	·204	2·4	0·4	85	544	76·7	24·5	0·7	6	5	8	12	3·9	6·3	19	3·76
ALLENHEADS (Northumberland), Mr. T. Kidd, Assistant to W. B. Beaumont, Esq., M.P.	1360	Jan.	28·715	0·994	50·0	13·5	36·5	40·7	30·2	10·5	35·5	—	—	—	—	—	—	61·3	—	0·8	7	5	12	7	—	5·8	15	1·95
		Feb.	28·211	1·272	49·0	18·0	31·0	40·7	29·3	11·4	34·4	—	—	—	—	—	—	63·8	—	1·0	5	6	8	10	—	6·9	26	6·87
		Mar.	27·957	1·608	49·0	16·0	33·0	40·7	28·3	12·4	33·2	—	—	—	—	—	—	71·7	—	1·2	6	6	7	12	—	6·6	25	6·67
SILLOTH RECTORY (Cumberland), Rev. Francis Redford., M.A., F.R.A.S., F.M.S.	28	Jan.	30·148	1·074	53·0	18·3	34·7	44·4	34·6	9·8	39·3	36·3	·214	2·5	0·3	90	560	59·8	30·9	1·4	8	5	8	10	9·5	5·8	12	1·85
		Feb.	29·637	1·204	54·9	20·2	34·7	46·5	34·6	11·9	39·7	35·9	·212	2·6	0·4	88	550	71·2	30·9	1·2	5	8	6	10	9·9	5·0	18	3·88
		Mar.	29·406	1·760	52·3	25·7	26·6	46·8	34·0	12·8	39·4	35·3	·206	2·4	0·7	78	546	75·7	30·2	1·8	8	6	4	13	9·8	6·0	17	3·18
CARLISLE (Cumberland), Isaac Cartmell, Esq., F.M.S.	114	Jan.	30·066	1·029	53·6	15·8	37·8	44·8	33·7	11·1	38·8	36·0	·213	2·5	0·4	91	559	55·7	29·0	1·2	4	5	13	9	5·7	7·0	12	1·00
		Feb.	29·562	1·262	54·0	21·9	33·1	45·3	32·8	12·5	38·7	34·7	·202	2·3	0·4	86	550	67·6	28·3	1·7	4	7	8	10	7·5	6·8	18	3·17
		Mar.	29·327	1·738	55·3	20·5	34·8	45·7	32·2	13·5	38·2	34·8	·202	2·4	0·3	89	546	74·9	28·2	2·7	6	5	6	14	6·2	6·7	17	3·26
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	Jan.	30·046	1·056	56·0	22·0	34·0	45·9	35·0	10·9	39·8	34·1	·197	2·4	0·5	81	558	52·3	29·4	1·2	3	9	8	11	—	6·2	15	0·74
		Feb.	29·539	1·212	56·0	25·0	31·0	46·1	35·3	10·8	39·7	34·2	·198	2·3	0·5	81	548	55·2	29·7	1·4	5	7	6	11	—	6·1	27	2·07
		Mar.	29·287	1·736	58·0	27·0	31·0	47·7	34·9	12·8	39·7	33·5	·192	2·2	0·6	80	544	60·1	29·4	1·7	8	8	5	10	—	5·3	27	2·68
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	Jan.	30·121	1·153	52·2	25·0	27·2	43·2	34·2	9·0	38·4	33·7	·194	2·3	0·5	84	561	—	30·6	1·3	7	4	8	12	—	6·2	14	0·70
		Feb.	29·606	1·177	52·4	25·0	27·4	45·6	34·4	9·2	38·5	34·9	·203	2·3	0·4	87	551	—	31·1	1·6	6	7	5	11	—	7·1	25	2·42
		Mar.	29·343	1·675	55·0	25·8	29·2	44·1	33·7	10·4	38·1	33·4	·191	2·2	0·5	82	546	—	29·9	2·4	8	5	5	13	—	6·7	23	2·02
MILLTOWN Banbridge, (Ireland), John P. Smyth, Esq., Jun., M.A., M.I.C.E.I., F.G.S.	200	Jan.	29·816	0·978	54·0	20·0	34·0	45·4	34·6	10·8	40·0	36·8	·218	2·5	0·4	89	553	64·7	30·4	1·5	6	2	17	6	—	5·2	15	1·10
		Feb.	29·349	1·268	53·0	20·0	33·0	45·6	34·1	11·5	39·4	36·2	·214	2·5	0·4	89	545	81·9	30·3	2·0	5	8	11	5	—	4·9	22	3·42
		Mar.	29·156	1·630	55·0	26·0	29·0	45·4	33·0	12·4	38·5	34·9	·203	2·3	0·4	87	543	97·5	29·0	2·1	7	5	11	8	—	6·5	26	2·93

NOTE.—*The Barometer Reading*, LEEDS, 1st January, 4h. p.m., 29·084 in., has been altered to 30·084 in.
" " TAUNTON, 29th February, 9h. a.m., 30·772 in., " 29·772 in.
" " HOLKHAM, 11th March, 3h. p.m., 29·978 in., " 28·978 in.
" " BOURNEMOUTH, 21st " 9h. a.m., 30·95 in., " 29·95 in.

Second Rain-gauges are placed—

			January.	February.	March.	Total during the Quarter.
At Eastbourne,	at the height of 160 feet *above the sea*,	the amount collected was	1·36 inches.	3·20 inches.	3·01 inches.	7·57 inches.
At Beckenham,	at the height of 50 feet *above the ground*,	the amount collected was	0·63 "	1·72 "	2·50 "	4·85 "
" Strathfield Turgiss,	" 38 feet	" "	0·48 "	1·28 "	2·24 "	4·00 "
" Oxford,	" 22 feet	" "	1·45 "	2·62 "	3·10 "	7·17 "
" Cardington,	" 36 feet	" "	1·30 "	1·75 "	1·80 "	4·85 "
" Wisbech,	" 8 feet	" "	2·07 "	2·24 "	2·69 "	7·00 "
" Nottingham,	" 39 feet	" "	2·05 "	1·78 "	2·44 "	6·27 "
" Holkham,	" 4 feet	" "	1·74 "	2·92 "	2·39 "	7·05 "
" Eccles (Manchester),	" 34 feet	" "	1·41 "	3·23 "	2·93 "	7·57 "
" Milltown (Ireland),	" 40 feet	" "	0·85 "	— "	2·78 "	— "

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·681	53·5	27·5	26·0	46·9	39·1	23·2	7·9	42·5	39·5	·244	2·8	0·4	90	548	—	—	1·7	6	6	9	9	3·8	6·3	50	10·5
Helston	29·646	57·0	26·0	31·0	50·5	40·0	27·0	10·5	44·9	40·7	·254	2·9	0·5	85	547	58·5	36·6	2·4	7	5	7	10	5·4	6·2	56	11·0
Truro	29·677	57·0	22·0	35·0	48·9	38·9	30·7	10·0	43·4	39·2	·241	2·8	0·5	85	550	—	—	2·7	7	6	7	10	—	7·5	62	10·0
Plymouth	29·737	56·5	24·0	32·5	47·9	37·4	27·5	10·5	42·6	40·2	·250	2·9	0·3	91	552	—	36·1	2·5	7	9	7	7	—	7·2	55	8·9
Osborne	29·660	61·1	22·8	38·3	46·7	34·9	33·2	11·8	40·3	38·0	·230	2·6	0·3	92	551	67·3	33·4	0·5	6	6	10	9	—	7·3	45	7·0
Bournemouth	29·709	58·3	22·5	35·8	45·9	36·3	27·2	9·6	40·9	36·4	·215	2·5	0·5	84	551	—	—	—	7	6	6	12	—	5·1	46	6·7
Brighton	29·668	55·7	22·6	33·1	43·9	35·4	28·0	8·5	39·6	36·6	·217	2·5	0·3	89	551	—	31·8	1·1	8	4	9	10	—	7·7	51	6·0
Hastings	29·601	57·5	20·9	36·6	43·8	35·7	29·1	8·1	39·6	36·2	·213	2·5	0·4	88	552	—	32·7	2·1	8	5	9	9	—	7·1	63	7·1
Taunton	29·667	57·7	20·0	37·7	47·4	35·1	35·3	12·3	40·9	38·2	·231	2·7	0·4	87	552	52·4	32·9	0·2	8	4	7	12	3·6	6·7	49	8·0
Salisbury	29·683	62·0	16·5	45·5	47·0	32·4	39·5	14·6	39·7	36·7	·218	2·5	0·3	89	551	71·9	29·9	1·6	7	8	6	8	4·3	7·4	49	8·0
Barnstaple	29·641	57·0	21·5	35·5	48·3	38·6	30·0	9·7	43·0	39·7	·245	2·8	0·4	88	550	—	—	1·3	6	6	9	10	—	4·7	51	11·0
Caterham	29·720	—	14·0	—	44·4	31·8	44·7	12·5	38·1	35·5	·208	2·4	0·4	90	544	—	—	1·7	6	4	7	13	2·2	—	50	—
Ramsgate	29·686	57·8	23·5	34·3	44·8	35·5	29·8	9·3	40·2	35·5	·208	2·4	0·4	84	552	77·1	32·7	1·7	6	6	10	9	—	7·1	41	3·7
Strathfield Turgiss	29·694	60·0	16·3	43·7	45·7	33·5	39·6	12·2	39·5	34·9	·204	2·3	0·4	84	551	78·3	29·7	0·7	7	6	7	10	2·9	6·9	43	6·0
Weybridge Heath	29·709	64·0	17·5	46·5	45·8	34·0	38·8	11·8	39·4	36·4	·215	2·5	0·3	89	553	66·0	32·9	1·0	6	6	10	8	2·3	6·7	45	5·0
East Tilbury	29·655	65·0	17·3	47·7	—	33·0	—	—	41·2	37·8	·228	2·6	0·4	88	553	66·2	31·5	0·9	5	7	10	9	—	7·9	45	4·2
Marlborough Green	29·659	59·6	19·9	39·7	44·9	33·7	34·7	11·2	38·9	36·0	·212	2·5	0·4	90	546	74·7	31·5	0·5	7	5	7	12	—	7·4	51	6·8
Blackheath	29·671	65·9	21·2	44·7	46·5	34·2	38·3	12·3	40·0	35·6	·209	2·4	0·5	85	551	66·9	31·8	1·7	6	6	9	9	—	7·0	47	6·2
Beckenham	29·665	64·4	10·0	54·4	46·6	32·6	42·3	14·0	39·3	36·0	·212	2·4	0·4	88	552	—	—	—	5	6	9	10	—	6·6	52	7·0
Streatley Vicarage	29·688	58·7	18·8	39·9	46·3	34·3	35·0	12·0	40·3	36·0	·212	2·5	0·4	85	551	—	—	1·5	7	6	8	9	—	6·7	54	7·0
Camden Square	29·667	63·3	18·9	44·4	46·0	34·4	36·1	11·6	40·3	36·2	·214	2·5	0·5	86	551	65·3	31·6	—	8	4	7	11	—	6·7	51	3·7
Chiswick	29·665	59·7	16·7	43·0	46·8	34·1	36·7	12·7	40·2	36·1	·212	2·5	0·4	86	553	77·3	30·0	0·9	4	5	8	13	—	7·8	42	3·2
Leicester	29·650	60·7	15·0	45·7	44·4	33·9	37·8	10·5	38·9	34·5	·200	2·3	0·4	84	550	74·5	27·8	0·9	5	5	9	11	—	7·2	62	7·1
Oxford	29·661	60·9	20·1	40·8	44·8	35·2	34·1	9·6	40·0	35·9	·211	2·4	0·5	86	550	76·0	33·1	1·0	6	5	9	11	2·4	8·2	52	6·7
Gloucester	29·697	60·1	20·5	39·6	46·7	35·6	35·4	13·1	39·9	37·8	·228	2·7	0·2	92	553	67·5	32·6	0·9	8	6	6	10	1·7	7·6	48	6·0
Royston	29·681	59·1	18·4	40·7	46·4	32·7	35·4	13·7	39·3	35·4	·207	2·4	0·4	87	549	—	—	—	5	4	11	10	—	6·7	47	6·0
Cardington	29·654	62·0	15·0	47·0	45·3	32·9	37·3	12·4	38·8	35·7	·210	2·4	0·3	90	553	56·6	28·4	2·3	6	5	7	12	—	6·7	50	6·0
Lampeter	29·691	56·5	10·0	46·5	46·0	33·1	40·3	12·9	39·5	35·7	·210	2·4	0·4	87	547	68·8	—	—	6	7	8	9	—	—	51	11·0
Cambridge	29·629	64·1	18·0	46·1	46·2	34·3	37·4	11·9	39·8	36·4	·215	2·5	0·4	88	553	83·1	30·2	2·1	6	4	9	11	—	6·7	51	6·0
Norwich	29·624	59·0	23·0	36·0	44·1	34·5	32·9	9·6	38·9	37·4	·224	2·6	0·2	95	554	—	—	—	5	5	11	9	—	—	49	7·0
Wisbeech	29·631	63·5	21·0	42·5	45·3	34·1	35·7	11·3	39·0	35·6	·209	2·4	0·3	88	554	73·1	30·3	0·7	5	5	10	10	3·6	6·9	52	7·0
Llandudno	29·602	57·0	22·2	34·8	47·5	37·1	31·7	10·4	42·0	36·1	·214	2·5	0·6	80	549	—	—	1·0	3	6	11	11	—	6·2	43	7·0
Nottingham	29·634	58·4	17·8	40·6	43·9	32·9	36·4	11·0	38·3	34·5	·201	2·3	0·4	87	552	65·1	30·3	0·5	6	6	9	9	3·9	7·1	68	7·0
Holkham	29·638	58·0	17·3	40·7	44·8	29·9	37·5	14·9	38·2	33·5	·192	2·2	0·5	83	554	76·0	27·6	2·1	5	5	13	8	—	6·8	52	6·0
Calcethorpe	29·633	59·8	17·1	42·7	42·7	32·1	36·2	10·6	37·0	34·1	·195	2·3	0·3	89	549	77·9	29·0	1·3	5	5	9	11	8·1	6·3	63	6·0
Liverpool	29·615	56·2	21·8	34·4	45·1	35·4	31·6	9·7	39·8	34·3	·199	2·3	0·6	81	549	—	—	1·5	5	7	10	8	—	6·7	44	5·0
Eccles	29·625	56·5	14·4	42·1	45·4	32·9	36·5	12·5	39·2	34·8	·202	2·4	0·5	84	551	50·1	26·1	0·5	5	6	9	9	2·0	7·5	50	9·0
Moorside, Halifax	29·632	58·2	17·0	41·2	43·9	33·8	34·4	10·1	38·2	34·1	·197	2·3	0·4	85	546	60·2	30·3	1·2	6	6	13	2·0	7·7	57	10·0
Bermerside, „	29·637	59·0	15·0	44·0	42·3	32·8	35·7	9·5	37·8	33·7	·194	2·2	0·4	86	545	68·7	—	0·8	4	8	8	11	—	7·3	48	7·0
Hull	29·610	57·0	24·0	33·0	43·9	34·2	30·3	9·7	39·5	35·0	·204	2·4	0·5	85	554	58·8	31·7	—	—	—	—	—	2·6	—	53	—
Stonyhurst	29·602	55·1	17·3	37·8	43·5	33·9	32·1	9·6	38·7	35·3	·204	2·4	0·4	87	547	77·8	30·4	—	6	4	7	13	—	7·8	64	13·0
Bradford	29·600	55·6	23·0	32·6	43·7	33·9	29·6	9·8	39·0	34·0	·196	2·3	0·5	83	546	53·3	—	0·8	6	6	5	13	—	7·0	55	8·0
Leeds	29·591	60·0	27·0	33·0	45·7	34·9	30·0	10·8	40·2	35·2	·205	2·4	0·5	83	550	59·7	—	1·4	6	6	6	12	—	6·2	49	6·0
Cockermouth	29·546	51·7	16·8	34·9	44·8	35·5	31·7	9·3	39·8	36·1	·213	2·5	0·4	87	549	65·1	26·8	0·5	5	7	10	9	3·1	6·5	45	10·0
Allenheads	—	50·0	13·5	36·5	40·7	29·3	33·5	11·4	34·4	—	—	—	—	—	—	65·6	—	1·0	6	6	9	10	—	6·4	66	15·0
Silloth	29·550	54·9	18·3	36·3	45·9	34·4	32·0	11·5	39·5	35·8	·211	2·5	0·5	85	552	68·9	30·7	1·5	7	6	6	11	9·7	5·6	47	8·5
Carlisle	29·572	55·3	15·8	39·5	45·3	32·9	35·2	12·4	38·6	35·2	·206	2·4	0·4	89	552	66·1	28·5	1·9	5	6	9	11	6·5	6·8	47	7·0
Bywell	29·523	58·0	22·0	36·0	46·6	35·1	32·0	11·5	39·7	33·9	·196	2·3	0·5	81	550	55·9	29·5	1·4	5	8	6	11	—	5·9	69	5·0
North Shields	—	55·0	25·0	30·0	43·6	34·1	27·9	9·5	38·3	34·0	·196	2·3	0·5	84	553	—	30·5	1·8	7	5	6	12	—	6·7	62	7·0
Milltown (Ireland)	—	55·0	20·0	35·0	45·5	33·9	32·0	11·6	39·3	36·0	·212	2·4	0·4	88	547	81·4	29·9	1·9	6	5	13	6	—	5·5	63	7·0

The highest temperatures of the air were at Blackheath, 65°·9; and at East Tilbury, 65°.
The lowest temperatures of the air were at Beckenham and Lampeter, both 16°; and at Allenheads, 13°·5.
The greatest daily ranges of the temperatures of the air were at Holkham, 14°·9; and at Salisbury, 14°·6.
The least daily ranges of the temperatures of the air were at Guernsey, 7°·9; and at Hastings, 8°·1.
The greatest numbers of rainy days were at Bywell, 69; Nottingham, 68; and at Allenheads, 66.
The least numbers of rainy days were at Ramsgate, 41; and at Chiswick, 42.
The heaviest falls of rain were at Allenheads, 15·49 inches; and at Stonyhurst, 13·70 inches.
The least falls of rain were at East Tilbury, 4·95 inches; and at North Shields, 5·14 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·681	53·5	27·5	26·0	46·9	39·1	23·2	7·9	42·5	39·5	·244	2·8	0·4	90	548	—	—	1·7	6	6	9	9	3·8	6·3	50	10·1
Between the latitudes 50° and 51°	29·671	57·6	23·0	34·6	46·8	36·9	29·0	9·9	41·6	38·2	·231	2·7	0·4	88	551	62·9	34·1	1·9	7	6	8	9	—	6·9	54	8·0
Between the latitudes 51° and 52°	29·675	61·6	18·1	43·5	46·3	34·1	37·0	12·2	40·0	36·4	·216	2·4	0·4	87	551	70·3	31·4	1·0	6	6	8	10	2·8	6·8	49	7·0
Between the latitudes 52° and 53°	29·643	59·7	18·1	41·6	45·5	33·5	36·1	12·0	39·3	35·6	·209	2·4	0·4	87	552	70·5	29·4	1·5	5	5	10	10	3·7	6·7	51	8·7
Between the latitudes 53° and 54°	29·616	57·5	19·6	37·9	44·0	33·8	32·9	10·2	38·8	34·5	·199	2·3	0·5	85	549	63·3	29·5	1·1	5	6	8	11	3·7	7·1	54	9·5
Between the latitudes 54° and 55°	29·548	54·0	17·3	36·7	44·7	33·4	32·9	11·3	38·4	35·2	·207	2·4	0·5	86	551	64·3	28·9	1·3	6	7	8	10	6·4	6·2	55	9·0
Mean for the Quarter, 50° to 55°, Year 1873	29·650	63·3	20·5	42·8	45·7	34·7	31·1	11·0	39·8	35·9	·216	2·5	0·4	86	551	63·4	29·6	1·1	7	7	8	8	4·0	7·0	47	8·0
Mean for the Quarter, 50° to 55°, „ 1874	29·812	61·3	20·1	41·2	48·2	35·9	32·0	12·3	41·9	37·8	·228	2·6	0·4	86	551	68·6	30·6	1·2	6	4	8	13	4·1	6·3	44	6·5
Mean for the Quarter, 50° to 55°, „ 1875	29·802	57·7	17·3	40·4	45·4	35·1	31·7	10·3	39·8	36·4	·217	2·5	0·4	87	553	62·7	31·1	1·4	7	8	7	8	3·9	7·4	46	8·2
Mean for the Quarter, 50° to 55°, „ 1876	29·631	58·1	19·2	38·9	45·5	34·3	33·6	11·2	39·6	36·0	·212	2·5	0·4	87	551	66·3	30·7	1·4	6	6	8	10	4·2	6·7	53	7·0

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING JUNE 30, 1876.

Remarks on the Weather during the Quarter ending June 30th, 1876.

By James Glaisher, Esq., F.R.S., *&c.*

Till April 9th, the weather was warm, and the average daily excess of the mean temperatures of these 9 days above their averages was $5\frac{1}{2}°$. On the 10th of April, a very severe cold period set in and snow fell generally over the country north of latitude 51°; on the 11th, it fell more generally and extended to stations on the south coast; on the 12th, it fell still more generally, and there were falls of snow in Cornwall and Devonshire, and at Guernsey. In all the Northern Districts it fell in great quantities, in Scotland telegraphic communications were interrupted, and on the east coast, there was a very severe storm and gale of wind. At Leicester snow fell very heavily and in the midst of the snowstorm there were both thunder and lightning. London was visited by a succession of snowstorms, and in the afternoon there were vivid flashes of lightning and loud thunder. On the 13th, the weather was very severe, there was a bitterly cold wind, accompanied by constant storms of sleet and hail, and this unusually severe weather was experienced in all directions, a great quantity of snow fell; and all traffic between London and the North was greatly delayed, in some places the depth of the snow was from 16 inches to 24 inches.

On the 14th of April, the severest snowstorm of the whole winter was experienced. A great number of telegraphic posts were thrown down, and telegraphic communication was stopped in many localities, traffic generally was impeded and in some places stopped altogether; some snow drifts were of great depths, and snow fell everywhere. Garden trees and shrubs were broken down by the weight of the accumulated snow. On the 11th day the deficiency of mean temperature was $6\frac{1}{2}°$; on the 12th was $11\frac{1}{4}°$; on the 13th was 12°; and on the 14th was 9°. The highest and lowest temperatures during these days are shown in the following Table:—

Table of Maximum and Minimum Temperatures of the Air, on the 11th, 12th, 13th, and 14th of April 1876.

Names of Stations.	April 11th. Max.	April 11th. Min.	April 12th. Max.	April 12th. Min.	April 13th. Max.	April 13th. Min.	April 14th. Max.	April 14th. Min.
	°	°	°	°	°	°	°	°
Guernsey	48·5	43·5	45·5	33·0	44·0	33·5	48·0	34·0
Helston	50·0	30·0	49·0	34·0	46·0	33·0	49·0	34·0
Truro	50·0	39·0	48·0	35·0	44·0	35·0	49·0	34·0
Plymouth	52·5	37·5	53·0	33·0	50·0	35·0	45·0	33·0
Eastbourne	50·5	35·8	45·7	30·0	43·2	32·2	52·1	31·8
Osborne	51·2	35·0	44·3	30·9	40·7	30·1	49·5	31·2
Bournemouth	47·8	34·0	39·9	38·1	46·0	34·0	56·3	34·1
Hastings	48·2	34·0	44·2	29·5	40·3	29·4	45·2	32·3
Taunton	54·9	33·3	—	27·1	55·0	31·5	44·0	33·0
Salisbury	48·0	31·0	48·0	28·0	42·0	30·0	45·0	30·0
Barnstaple	54·0	37·5	47·0	34·0	45·5	36·0	45·0	35·5
Caterham	—	30·0	—	28·0	—	27·0	—	30·0
Ramsgate	48·8	34·5	45·0	29·5	41·9	29·9	45·7	33·7
Strathfield Turgiss	49·0	30·3	46·2	30·1	37·3	31·7	45·8	31·3
Weybridge Heath	50·0	30·0	45·5	27·8	36·5	28·0	46·0	31·3
East Tilbury	57·8	28·2	47·0	37·0	45·3	31·5	47·0	38·5
Marlborough	45·9	30·0	45·9	28·7	37·0	32·0	42·8	31·0
Bristol	46·8	31·7	49·6	30·9	44·4	33·3	42·3	32·2
Beckenham	49·5	31·1	46·0	27·1	40·1	27·2	48·0	30·8
Blackheath	51·9	31·8	46·1	29·9	40·3	30·1	44·3	32·0
Royal Observatory	50·3	32·0	46·1	29·2	44·1	29·9	47·0	31·8
Streatley	57·8	33·5	47·0	32·2	46·9	34·0	45·0	32·1
Chiswick	58·0	42·0	49·0	30·0	46·0	28·0	42·2	30·0
Camden Square	49·1	33·3	45·2	30·7	41·0	30·9	49·0	32·0
Oxford	47·0	30·5	42·8	32·2	37·0	31·1	44·9	33·2
Gloucester	51·5	31·0	49·5	29·0	54·0	31·0	46·0	33·0
Royston	52·3	31·6	49·3	29·0	46·0	28·0	43·0	30·6
Cardington	55·0	32·6	48·4	30·0	45·0	29·4	43·0	31·6
Lampeter	44·0	32·0	44·5	31·0	44·0	30·5	49·0	28·0
Cambridge	47·0	33·2	47·0	30·0	43·0	30·0	51·0	32·0
Norwich	43·0	33·2	43·0	30·0	39·5	29·2	48·0	33·0
Leicester	42·8	32·2	44·1	27·7	36·3	29·7	43·0	31·7
Birmingham	43·0	32·3	45·0	29·4	39·0	30·5	44·0	30·7
Wolverhampton	42·2	31·2	43·5	27·9	41·8	30·3	43·7	29·8
Wisbech	46·1	32·4	47·2	29·7	39·3	30·0	50·6	32·7
Nottingham	59·1	30·0	43·9	26·9	46·7	30·3	38·6	31·2
Holkham	54·4	29·5	43·5	27·2	44·5	24·3	39·5	28·0
Llandudno	47·0	32·9	46·0	33·0	41·9	31·9	47·0	34·0
Sheffield	45·0	31·0	45·0	28·7	40·0	30·0	44·0	31·9
Calcethorpe	42·7	31·2	42·2	25·2	35·3	23·7	42·3	33·2
Liverpool	45·0	32·3	42·1	31·6	42·2	31·5	40·5	33·0
Manchester	43·0	32·0	47·8	28·0	44·5	32·8	51·0	32·0
Eccles	42·5	30·5	44·8	27·1	43·4	29·8	49·5	30·1
Moorside	40·5	30·8	43·0	28·5	42·0	29·0	46·0	31·0
Bermerside	43·2	34·0	44·1	26·5	39·4	29·0	46·0	30·5
Hull	46·0	32·0	48·0	30·0	41·0	30·0	45·0	34·0
Stonyhurst	42·0	25·0	44·4	28·6	42·1	31·5	48·0	31·7
Bradford	46·4	30·6	41·6	39·4	44·6	30·2	40·8	31·8
Leeds	44·0	32·0	47·0	31·0	—	30·0	—	31·0
Cockermouth	43·5	31·5	44·1	31·9	44·0	24·6	48·4	28·9
Allenheads	37·3	25·5	39·0	20·0	42·0	19·0	42·0	23·0
Silloth	48·1	32·2	53·3	31·4	45·0	27·2	49·3	31·0
Sunderland	39·0	31·0	44·0	30·0	46·0	29·0	54·0	33·0
Carlisle	41·9	29·8	44·3	23·6	44·0	27·7	48·6	28·5
Bywell	44·0	33·0	46·0	31·0	45·0	23·0	46·0	31·0
Newcastle-on-Tyne	39·0	28·0	42·0	26·0	—	—	44·0	24·0
North Shields	39·8	30·0	41·3	30·4	40·6	27·5	44·2	32·2
Milltown (Ireland)	40·0	30·0	42·0	29·0	42·0	21·0	48·0	30·0

From this Table it will be seen that during the days the temperature at most places exceeded 40°, and at night was generally below 32°. On the 11th it was 25° at Stonyhurst, on the 12th it was 25°·2 at Calcethorpe, on the 13th it was 19° at Allenheads, and on the 14th it was 23° at Allenheads.

The severe cold period somewhat moderated on the 15th, but it continued till the 19th, and the average daily deficiency from April 10th to April 19th was 4½°; on April 20th, a moderately warm period set in and continued for 10 days to the 29th, the average daily excess of temperature for these 10 days being a little less than 2°. On April 30th, a long cold period began, which continued with very few exceptions till the 18th of June; during the greater part of May there was a cold E. and N.E. wind, and no rain fell for 20 days; snow fell at different places on May 1st and 2nd, and as late as May 14th at Allenheads. The average daily deficiency of mean temperature for the 50 days ending June 18th, was 3½° nearly; and from the 19th of June to the end of the quarter the weather was generally warm, the average daily excess of mean temperature being 2¼°.

The readings of the barometer at 160 feet above the level of the sea, in the neighbourhood of London, were above their respective averages from the 2nd to the 8th of April, that for the 1st was 0·19 in. below; they were below their averages from the 9th to the 14th; above on the 15th and 16th; below from the 17th to the 22nd; a little above on the four following days; and again below from the 27th to the end of the month. The mean reading for the month was 29·680 ins., being 0·091 in. below its average. During the first 21 days of May, the readings of the barometer were all above their average values (the greatest departure in excess in this period was 0·53 inch on the 4th). From the 22nd to the 27th of May the readings were below their averages; and from the 28th to the end of the month they were above. The mean reading for the month was 29·956 ins., being 0·173 in. above its average. From the 1st to the 9th of June, the readings of the barometer were alternately above and below their respective averages, but only to small amounts; from the 10th to the 14th, they were above their averages; then below on the three following days, and constantly above and below for short intervals to the end of the month. The mean reading for the month was 29·816 ins., being 0·003 in. above the average.

At Greenwich *the mean temperature* for April was 6°·1 higher than that of March; that of May was 2°·2 higher than that of April; and that of June was 9°·1 higher than that of May. (From the preceding 35 years' observations the mean temperature of April above that of March is 5°·5; that of May above that of April is 5°·6; and that of June above that of May is 6°·1.)

The mean temperature of the air for April above that of March; South of latitude 51° was 4°·1; and North of 51° was 6°·0; that of May above that of April was 2°·3, South of 53½°; and 3·9 North of 53½°. That of June above that of May was 7°·2 South of 51°; between latitudes 51 to 52° was 9°·5; and North of 52° was 7·5.

The mean temperature of the air for April was 47°·2, being 1°·1 below the average of the preceding 105 years, and the same as the average of the preceding 35 years; it was 2°·8 below that of 1874, and 0°·9 below that of 1875.

The mean temperature of the air for May was 49°·4, being 3°·4 and 3°·1 below the averages of the preceding 35 years and 105 years respectively; it was 1°·1 and 5°·6 below the corresponding values in 1874 and 1875.

The mean temperature of the air for June was 58°·5, being 0°·4 below the average of the preceding 35 years, and 0°·3 above the average of the preceding 105 years; it was 0°·5 above that of 1874, and 0°·4 below that of 1875.

The mean temperature of the air for the quarter was 51°·7, being 1°·3 below the averages of the preceding 35 years, and 105 years.

The mean high day temperatures of the air were 0°·2 and 2°·9 below their respective averages in April and May; and 0°·1 above in June.

The mean low night temperatures of the air were 4°·8 and 1°·2 below their respective averages in May and June; and 0°·4 above in April.

Therefore the days and nights in April differed but little from their average value; in May both were cold; and in June the nights were cold.

The mean daily ranges of temperature were 1°·9 and 1°·3 greater than their respective averages in May and June; and 0°·5 less in April.

At Greenwich the increase of atmospheric pressure from March to April was 0·289 in., the increase from April to May was 0·276 in., and the decrease from May to June was 0·140 in. Over the whole country the mean increase from March to April was as follows:—Between latitude 50° and 51° was 0·250 in.; between 51° and 53¾° was 0·301 in.; and north of 53¾° was 0·367 in. The mean increase from April to May was as follows:—Between latitudes 50° and 53½° was 0·290 in.; and north of 53½° was 0·346 in. And the mean decrease from May to June, between latitudes 50° and 52½° was 0·142 in.; and north of 52½° was 0·203 in.

At Greenwich the fall of rain in April was 1·3 in., being 0·4in. below its average; in May was 1·1 in., being 1·0 in. below its average; and in June was 1·1 in., being 0·9 in. below its average. The total fall in the quarter was 3·5 in., being 2·3 in. below the average. The number of days on which rain fell in the quarter was 24.

Thunderstorms occurred, on 7 days in April; 2 days in May; and on 6 days in June.
Thunder was heard, on 8 days in April; 4 days in May; and on 9 days in June.
Lightning was seen, but thunder was not heard, on 6 days in April; and on 5 days in June.
Solar halos were seen on 9 days in April; 8 days in May; and on 13 days in June.
Lunar halos were seen on 5 nights in April; 3 nights in May; and on 1 night in June.
Aurorœ boreales were seen on 4 days in April; and on 2 days in June.
Hail fell on 10 days in April; 5 days in May; and on 3 days in June. *Fog* on 28 days.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter, were as follows:—

Direction of Wind.	April.			May.			June.		
	Average.	1876.	Departure from Average.	Average.	1876.	Departure from Average.	Average.	1876.	Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	2¼	3	+ ¾	1¼	2	+ ¾	2	4	+2
N.	4	2	−2	4¼	5	+ ¾	3¼	5	+1¾
N.E.	6	3	−3	7	8	+1	3½	5	+1½
E.	3½	3	− ½	2½	7	+4½	2¼	2	− ¼
S.E.	2	1	−1	1½	2	+ ½	1½	2	+ ½
S.	2½	7	+4½	2¾	0	−2¾	2¼	3	+ ¾
S.W.	6¼	7	+ ¾	7½	3	−4½	10	6	−4
W.	2½	4	+1½	2	4	+2	3½	3	− ½
Calm (nearly.)	1	0	−1	2	0	−2	1½	0	−1½

The sign + denotes excesses over averages; in the month of April the largest numbers with this sign are opposite to S., in May are E. and its compounds, and in June are N. and its compounds.
The sign − denotes defects below averages; in April the largest numbers with this sign are opposite to N. and N.E.; in May are S. and S.W.; and in June S.W.

1876. Months.	Temperature of Air. Mean.	Air. Diff. from average of 105 years.	Air. Diff. from average of 35 years.	Evaporation. Mean.	Evaporation. Diff. from average of 35 years.	Dew Point. Mean.	Dew Point. Diff. from average of 35 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 35 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 35 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 35 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.
April -	47·2	−1·1	0·0	44·0	−0·1	40·4	−0·2	18·2	−0·5	50·0	0·251	−0·003	2·9	0·0
May -	49·4	−3·1	−3·4	45·1	−4·0	40·5	−4·8	22·4	+1·9	53·3	0·253	−0·048	2·9	−0·5
June -	58·5	+0·3	−0·4	53·8	−0·7	49·6	−1·1	22·4	+1·3	61·4	0·356	−0·014	4·0	−0·1
Means -	51·7	−1·3	−1·3	47·6	−1·6	43·5	−2·0	21·0	+0·9	54·9	0·287	−0·022	3·3	−0·2

1876. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 35 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 35 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 35 years.	Rain. Amount.	Rain. Diff. from average of 61 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
April -	78	0	29·680	−0·091	542	−1	1·3	−0·4	318	8	17	5	25·1	43·0
May -	72	−4	29·956	+0·173	545	+4	1·1	−1·0	279	9	16	6	25·3	44·5
June -	73	−1	29·816	+0·003	532	0	1·1	−0·9	235	0	7	23	32·1	55·8
Means -	74	−2	29·817	+0·028	540	+1	Sum 3·5	Sum −2·3	Mean 277	Sum 17	Sum 40	Sum 34	Lowest 25·1	Highest 55·8

NOTE.—In reading this table it will be borne in mind that the minus sign (−) signifies *below* the average, and that the plus sign (+) signifies *above* the average.

Field elm in leaf.	The earliest, April 5th, at Strathfield.	The latest, May 12th, at Milltown.
Wych elm "	" " 16th, at Guernsey.	" April 24th, at Oxford.
Oak "	" " 9th, at Oxford.	" " 25th, at Milltown.
Lime "	" " 8th, at Strathfield.	" May 24th, at Milltown.
Sycamore "	" " 5th, at Strathfield.	" " 7th, at Milltown.
Hawthorn "	" " 8th, at Calcethorpe.	" April 23rd, at Llandudno.
Hazel "	" " 5th, at Oxford.	" May 20th, at Milltown.
Lilac in blossom.	" " 1st, at Helston.	" " 29th Calcethorpe.
Honeysuckle "	" May 16th, at Llandudno.	" June 20th, at Hull.
Mountain ash "	" " 13th, at Strathfield.	" May 24th, at Llandudno.
Laburnum "	" April 26th, at Helston.	" " 31st, at Calcethorpe.
Yellow broom "	" " 9th, at Weybridge.	" " 28th, at Caterham.
Apple "	" " 20th, at Llandudno.	" " 15th, at Milltown.
Pear "	" " 1st, at Strathfield.	" April 28th, at Hull.
Plum "	" " 10th, at Milltown.	" May 8th, at Silloth.
Cherry "	" " 6th, at Strathfield.	" " 9th, at Allenheads.
Wheat in ear.	" June 15th, at Helston	" June 23rd, Llandudno.
Wheat in flower.	" " 22nd, at Weybridge.	" " 30th, at Calcethorpe.
Barley in ear.	" " 23rd, at Llandudno.	" " 27th, at Calcethorpe.
Oats "	" " 20th, at Weybridge.	" " 30th, at Strathfield.
Cuckoo arrived.	" April 1st, at Helston.	" May 6th, at Bywell.
Swallow "	" " 8th, at Helston.	" " 20th, at Allenheads.
Nightingale "	" " 19th, at Cardington.	" " 23rd, at Streatley.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING JUNE 30TH, 1876.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the fifth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1876. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean of all Highest.	Temperature of Air in Month. Mean of all Lowest.	Temperature of Air in Month. Mean Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°								in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.M.S.	204	April	29·660	1·588	59·0	33·0	26·0	53·1	43·4	9·7	46·5	42·9	·277	3·2	0·5	88	543	–	–	1·5	6	5	9	10	3·8	4·5	18	2·00
		May	29·891	0·738	62·0	39·5	22·5	55·2	45·3	9·9	48·4	44·5	·293	3·4	0·6	87	545	–	–	1·7	14	10	1	6	3·4	2·5	6	0·49
		June	29·860	0·495	74·0	47·0	27·0	62·4	50·7	11·7	54·5	49·7	·357	4·0	0·7	84	536	–	–	1·2	9	5	6	10	3·8	4·0	10	1·03
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	April	29·743	1·486	60·0	33·0	27·0	55·1	40·5	14·6	47·9	43·9	·287	3·2	0·6	87	542	72·2	37·9	2·0	6	4	11	9	6·3	4·2	15	3·08
		May	30·058	0·742	77·0	35·0	42·0	63·4	42·2	21·2	52·1	42·2	·269	3·1	1·3	70	544	73·4	40·5	2·4	10	14	2	5	5·1	2·0	1	0·80
		June	29·856	0·458	86·0	41·0	45·0	69·8	48·0	21·8	57·5	50·0	·361	4·1	1·3	76	534	98·5	45·5	2·2	8	3	8	11	3·6	3·2	10	0·71
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	April	29·802	1·708	61·0	29·0	32·0	53·4	41·3	12·1	46·4	42·1	·269	3·2	0·4	86	545	–	–	2·7	7	5	7	11	–	6·6	20	3·17
		May	30·095	0·797	68·0	31·0	37·0	61·6	41·1	20·5	49·8	41·2	·260	2·9	1·1	73	547	–	–	2·6	10	13	3	5	–	4·2	3	0·13
		June	29·952	0·456	80·0	39·0	41·0	66·8	49·3	17·5	55·4	48·7	·345	3·9	1·1	79	538	–	–	2·4	10	3	8	9	–	6·0	13	0·94
PLYMOUTH (Devon), John Merrifield, Esq., F.R.A.S., F.M.S., LL.D.	69	April	29·863	1·549	58·0	32·5	25·5	54·2	42·2	12·0	46·4	43·0	·275	3·2	0·5	86	545	–	40·7	2·4	7	6	8	9	–	6·1	20	3·61
		May	30·136	0·752	68·0	36·0	32·0	59·4	43·7	15·7	49·7	44·1	·290	3·3	0·7	82	548	–	41·3	2·9	10	12	2	7	–	3·8	4	0·34
		June	30·006	0·516	79·5	43·0	36·5	66·7	51·3	15·4	56·5	50·3	·366	4·1	1·0	80	538	–	48·3	2·4	7	4	9	10	–	5·7	15	1·63
EASTBOURNE (Sussex), Miss W. L. Hall.	12	April	29·836	1·284	64·3	30·0	34·3	56·6	41·3	15·3	48·0	43·2	·278	3·2	0·6	84	545	109·8	34·9	0·2	2	8	11	9	2·9	–	14	1·96
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	April	29·673	1·632	64·0	30·1	33·9	56·6	40·4	16·2	47·0	44·1	·288	3·3	0·4	89	542	106·7	38·6	0·2	4	5	12	9	–	5·5	13	1·62
		May	29·940	0·754	72·6	32·8	39·8	62·5	40·4	22·1	50·8	45·1	·300	3·4	0·8	81	543	117·1	37·0	0·2	13	10	4	4	–	3·8	5	0·15
		June	29·807	0·480	84·9	42·2	42·7	71·1	49·1	22·0	58·5	53·7	·414	4·6	0·9	84	532	124·9	45·1	0·1	6	6	9	9	–	5·1	10	1·10
SOUTH BOURNE, (near) Bournemouth (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	128	April	29·861	1·510	61·9	33·5	28·4	54·0	43·0	11·0	47·5	41·2	·259	3·0	0·7	79	545	–	–	–	8	5	8	9	–	3·5	9	1·20
		May	29·930	0·750	68·6	30·7	27·9	60·7	39·6	21·1	49·4	37·8	·226	2·6	1·4	64	545	–	–	–	16	9	2	4	–	2·4	6	0·63
		June	29·890	0·520	77·9	40·2	37·7	66·5	50·1	16·4	57·3	46·4	·314	3·5	1·7	67	535	–	–	–	9	6	6	9	–	2·7	9	0·95
HASTINGS (Sussex), Alex. E. Murray, Esq., F.M.S.	167	April	29·692	1·555	62·6	29·4	33·2	52·7	41·6	11·1	46·1	41·1	·260	3·0	0·6	84	544	–	37·9	1·6	5	6	11	8	–	5·1	16	1·82
		May	29·935	0·879	63·8	33·6	30·2	55·3	41·2	14·1	47·4	40·6	·253	2·9	0·8	78	547	–	37·5	2·7	12	10	4	5	–	4·4	8	1·49
		June	29·820	0·575	82·1	41·3	40·8	64·3	51·0	13·3	56·3	50·1	·363	4·1	1·0	80	535	–	48·3	1·5	9	6	7	8	–	6·2	15	1·36
TAUNTON (Somerset), James Bottomley, Esq.	80	April	29·771	1·640	66·7	26·5	40·2	57·9	40·2	17·7	47·5	44·3	·291	3·3	0·5	89	543	60·7	37·8	0·4	7	6	5	12	4·9	5·5	15	3·14
		May	30·057	0·751	73·5	29·0	44·5	61·7	38·8	22·9	49·4	42·4	·272	3·1	1·0	77	547	74·3	35·2	2·8	9	12	2	8	2·2	4·6	1	0·13
SALISBURY (Wilton House), T. Challis, Esq.	186	April	29·661	1·676	67·5	28·0	39·5	57·9	38·7	19·2	47·4	40·6	·253	3·0	0·8	78	542	103·4	36·4	1·6	9	5	4	12	3·7	6·1	18	2·57
		May	29·933	0·772	74·0	27·5	46·5	64·1	36·9	27·2	49·6	41·2	·260	3·0	1·0	73	544	116·8	32·9	1·2	9	16	2	4	2·6	4·8	5	0·29
		June	29·795	0·526	85·0	34·5	50·5	73·3	45·5	27·8	55·0	49·3	·332	3·9	1·5	73	533	123·2	42·2	1·5	13	3	4	10	3·8	5·4	8	1·04
BARNSTAPLE (Devon), T. Mackrell, Esq.	43	April	29·806	1·660	67·0	33·5	33·5	57·5	44·1	13·4	47·8	44·0	·288	3·2	0·5	87	544	–	–	1·2	4	7	11	8	–	4·0	16	2·83
		May	30·101	0·770	70·0	35·0	35·0	62·4	45·6	16·8	52·5	41·4	·261	2·9	1·5	66	544	–	–	1·4	11	12	1	7	–	3·0	5	0·64
		June	29·950	0·540	84·0	46·0	38·0	69·6	53·1	16·5	59·5	50·0	·362	4·1	1·5	71	534	–	–	1·4	6	5	10	9	–	3·7	12	1·25
CATERHAM (Surrey), James Adam, Esq., M.D.	660	April	29·190	1·570	–	23·0	–	–	38·7	–	48·7	42·7	·274	3·2	0·6	80	532	64·3	–	1·9	4	6	7	13	3·1	2·0	18	1·92
		May	29·469	0·780	–	30·0	–	–	37·9	–	49·4	38·6	·235	2·8	1·2	66	536	64·1	–	1·8	8	15	2	6	3·7	2·0	8	1·30
		June	29·342	0·550	–	37·0	–	–	48·3	–	55·2	49·3	·352	4·0	1·7	70	523	77·3	–	1·4	9	6	4	11	0·7	2·3	12	1·40

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1876. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean of all Highest.	Temperature of Air in Month. Mean of all Lowest.	Temperature of Air in Month. Mean Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°								in.
RAMSGATE (St. Augustine's Monastery), Rev. T. Hugh Quelch, O.S.B.	108	April	29·760	1·515	61·4	29·5	31·9	53·8	42·2	11·6	47·2	41·9	·266	3·1	0·6	83	544	103·8	34·3	1·4	5	7	8	10	–	5·7	9	1·57
		May	30·008	0·889	66·3	38·4	27·9	55·8	44·5	11·3	49·7	43·3	·282	3·2	0·8	79	546	109·3	39·2	1·8	13	12	3	3	–	5·0	8	1·08
		June	29·820	0·598	74.9	44·1	30·8	64·5	52·2	12·3	57·4	51·5	·381	4·3	0·9	81	535	109·9	46·8	1·4	10	5	8	7	–	5·8	11	1·16
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	April	29·673	1·625	68·7	30·1	38·6	55·5	39·4	16·1	46·7	40·7	·254	3·0	0·5	81	543	103·0	34·7	0·7	7	6	7	10	3·5	6·0	14	1·98
		May	29·927	0·802	70·7	29·8	40·9	60·5	40·2	20·3	49·2	40·3	·250	2·9	1·1	71	545	111·5	33·2	0·8	11	12	2	6	3·0	5·4	4	0·31
		June	29·792	0·548	85·1	35·5	49·6	69·2	47·6	21·6	57·4	48·4	·340	3·8	1·4	72	534	121·1	44·1	0·6	12	3	5	10	2·5	5·7	11	2·04
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	April	29·744	1·615	73·0	27·8	45·2	57·6	38·5	19·1	47·2	41·1	·258	3·0	0·7	79	543	89·5	36·1	0·8	7	4	12	7	0·8	6·1	15	1·65
		May	30·024	0·811	74·0	28·3	45·7	61·8	36·6	25·2	48·5	40·4	·252	2·9	1·1	74	547	102·6	35·5	0·7	12	10	4	5	1·7	5·9	7	0·73
		June	29·855	0·566	88·5	36·0	52·5	71·3	47·1	24·2	57·9	50·5	·367	4·1	1·3	76	534	105·6	45·2	0·6	8	5	10	7	2·2	5·2	12	1·75
EAST TILBURY Vicarage (Essex), Rev. R. Tyas, M.A., LL.D.	29	April	29·849	1·592	70·4	28·2	42·2	59·2	32·8	26·4	45·8	40·9	·257	2·9	0·5	84	547	97·3	36·4	1·0	2	11	11	6	–	5·6	10	1·27
		May	30·102	0·762	73·5	29·0	44·5	60·0	40·2	19·8	49·0	41·8	·266	3·0	1·0	76	548	111·8	37·4	0·8	7	16	5	3	–	4·6	7	0·85
		June	29·970	0·372	84·3	42·0	42·3	70·3	49·6	20·7	58·3	51·7	·392	4·3	1·0	74	535	116·3	46·2	0·3	7	7	4	12	–	5·0	9	1·22
MARLBOROUGH, The Green (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	474	April	29·366	1·657	65·9	28·7	37·2	54·6	39·5	15·1	45·7	40·8	·255	2·9	0·6	84	538	98·1	24·3	0·2	6	4	8	12	–	6·1	19	3·37
		May	29·632	0·756	69·7	29·8	39·9	58·8	38·5	20·3	47·7	40·1	·248	2·9	0·9	75	541	111·5	35·1	0·2	14	11	1	5	–	5·2	7	1·10
		June	29·492	0·529	82·7	36·5	46·2	68·6	47·8	20·8	56·8	48·7	·344	3·9	1·3	75	528	119·2	44·9	0·2	11	4	4	11	–	5·3	9	1·28
BECKENHAM (Kent), C. O. F. Cator, Esq., M.A., F.M.S.	170	April	29·659	1·602	70·7	27·1	43·6	58·3	37·8	20·5	46·8	41·0	·257	3·0	0·7	81	542	–	–	–	4	6	9	11	–	6·1	14	1·69
		May	29·943	0·826	73·8	27·6	46·2	61·2	35·3	25·9	47·1	39·5	·242	2·8	0·9	76	547	–	–	–	11	13	2	5	–	5·8	6	1·07
		June	29·815	0·561	86·6	34·9	51·7	71·9	46·7	25·2	57·5	50·0	·361	4·1	1·2	76	533	–	–	–	6	7	5	12	–	5·1	11	1·35
BLACKHEATH (London), James Glaisher, Esq., F.R.S.	160	April	29·677	1·593	73·1	29·9	43·2	57·6	40·2	17·4	47·5	40·1	·248	2·8	0·9	76	542	92·4	37·4	1·3	5	5	11	9	–	5·7	12	1·60
		May	29·944	0·820	73·4	31·9	41·5	60·7	40·2	20·5	49·1	41·0	·258	2·9	1·1	74	545	105·7	37·9	1·0	10	12	2	7	–	4·8	6	1·22
		June	29·804	0·550	84·9	40·9	44·0	69·4	49·5	19·9	58·0	50·2	·365	4·0	1·4	76	533	107·2	47·4	0·8	10	5	7	8	–	5·5	11	1·24
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.A.S., F.M.S.	150	April	29·684	1·611	70·3	29·7	40·6	56·9	40·7	16·2	48·1	41·6	·262	3·0	0·8	78	541	–	–	1·6	8	6	8	8	–	5·9	16	2·85
		May	29·986	0·779	71·3	29·3	42·0	60·0	38·0	22·0	48·8	39·9	·247	2·8	1·0	72	546	–	–	1·6	12	11	2	6	–	6·0	7	0·63
		June	29·828	0·475	86·9	36·2	58·7	70·9	49·4	21·5	58·0	50·6	·370	4·1	1·3	77	533	–	–	1·7	8	7	5	10	–	6·3	11	2·06
CHISWICK (Middlesex), J. K. L. M. Farquhar, Esq.	25	April	29·795	1·622	72·0	30·0	42·0	58·8	38·0	20·8	47·0	41·4	·261	3·0	0·7	82	545	107·5	32·7	0·8	3	7	7	13	–	6·7	9	2·06
		May	30·045	0·812	72·0	28·5	43·5	60·3	35·2	25·1	47·2	41·6	·262	3·0	0·7	81	549	107·1	33·2	0·9	7	15	3	6	–	6·6	5	0·79
		June	29·948	0·556	85·5	34·0	51·5	71·0	48·3	22·7	58·0	50·4	·367	4·1	1·3	76	535	120·2	42·4	0·8	9	4	8	9	–	6·3	7	1·31
CAMDEN SQUARE (London), G. J. Symons, Esq., F.M.S.	123	April	29·724	1·602	71·1	30·7	40·4	57·5	41·5	16·0	48·2	41·5	·261	3·0	0·9	78	542	102·7	36·3	–	7	4	10	9	–	6·2	11	1·90
		May	30·000	0·788	71·1	32·8	38·3	62·0	40·5	21·5	49·7	41·3	·261	3·0	1·0	73	546	119·5	35·7	–	18	4	2	7	–	5·3	6	0·94
		June	29·857	0·564	84·8	39·4	45·4	71·0	50·3	20·7	59·0	49·9	·339	4·1	1·5	72	533	124·1	47·3	–	9	3	7	11	–	5·6	11	1·27
OXFORD Observatory, Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	April	29·617	1·607	67·0	31·0	36·0	55·3	38·6	16·7	46·8	41·9	·266	3·0	0·6	84	542	101·1	37·1	1·0	5	6	9	10	3·4	7·0	19	2·89
		May	29·918	0·794	69·9	31·1	38·8	59·7	40·5	19·2	49·2	41·3	·261	2·9	1·2	72	544	112·3	36·7	0·8	11	11	3	6	4·6	5·6	8	0·79
		June	29·742	0·486	85·3	37·8	47·5	69·4	50·0	19·4	59·2	50·8	·373	4·2	1·5	74	530	117·3	47·6	0·7	9	4	7	10	3·8	6·9	11	2·02
GLOUCESTER, E. Toller, Esq., M.D.	100	April	29·761	1·643	74·0	28·4	45·6	59·8	36·1	23·7	45·9	36·6	·217	2·5	0·7	71	546	96·6	37·3	0·9	7	6	5	12	1·6	6·7	17	2·54
		May	30·087	0·784	77·5	29·0	48·5	64·1	38·0	26·1	49·5	43·9	·288	3·2	0·8	82	547	111·0	34·3	1·0	9	13	4	5	2·2	5·2	7	1·20
		June	29·919	0·559	—	35·0	—	—	49·6	—	59·0	51·4	·380	4·3	1·3	76	533	129·8	–	0·8	9	6	4	11	2·6	5·9	10	0·69
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	April	29·572	1·592	70·2	28·0	42·2	58·8	37·9	20·9	46·7	41·8	·266	3·1	0·6	84	541	–	–	–	6	5	11	8	–	6·2	14	2·87
		May	29·870	0·792	72·8	29·2	43·6	60·7	37·5	23·2	48·1	39·9	·246	2·8	1·0	74	545	–	–	–	15	8	3	5	–	4·9	7	0·60
		June	29·737	0·551	84·7	36·1	48·6	71·3	47·4	23·9	57·6	50·3	·366	4·1	1·2	77	532	–	–	–	11	3	6	10	–	5·8	10	1·64
CARDINGTON (near Belford), Mr. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	105	April	29·738	1·616	69·0	29·4	39·6	57·3	39·2	18·1	46·9	42·9	·276	3·1	0·6	87	544	86·0	33·8	1·8	6	6	8	10	–	6·8	18	3·75
		May	30·030	0·794	72·0	31·4	40·6	59·9	39·8	20·1	49·4	39·3	·241	2·8	1·2	68	547	93·9	33·1	1·7	11	12	1	7	–	5·1	6	0·45
		June	29·880	0·530	86·0	36·0	50·0	70·7	49·2	21·5	58·9	50·9	·374	4·2	1·1	75	533	104·7	43·4	1·1	7	6	6	11	–	6·1	12	1·39
LAMPETER (Cardiganshire), St. David's College, Prof. A. W. Scott, M.A.	420	April	29·425	1·569	66·0	27·0	39·0	56·1	38·3	17·8	45·7	39·9	·247	2·8	0·7	81	540	94·5	—	—	5	9	9	7	—	—	15	2·83
		May	29·530	0·730	70·5	26·0	44·5	61·7	36·5	25·2	48·5	39·1	·239	2·7	1·2	70	542	117·8	—	—	10	11	2	8	—	—	6	6·68
		June	29·562	0·576	82·0	32·0	50·0	69·3	43·5	25·8	56·0	48·1	·339	3·7	1·3	74	531	115·8	—	—	7	5	8	10	—	—	5	1·07
CAMBRIDGE, J. W. L. Glaisher, Esq., M.A., F.R.S.	40	April	29·779	1·615	72·0	25·3	46·7	57·7	38·9	18·8	47·3	44·6	·294	3·3	0·4	91	544	114·7	34·7	1·6	6	5	11	8	–	6·3	18	2·05
		May	30·072	0·808	72·8	29·6	43·2	62·8	38·7	24·1	49·7	—	—	—	—	—	—	132·4	34·8	1·5	10	11	5	5	–	5·4	11	0·47
		June	29·920	0·540	84·0	38·0	46·0	71·5	49·2	22·3	58·6	52·1	·391	4·3	1·1	79	534	137·5	44·8	1·5	9	7	6	8	–	6·2	11	1·53

NOTE.—GLOUCESTER.—The readings of the maximum thermometer for the month of June appear to be too high.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1876. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.d. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	50	May	30·068	0·782	71·0	28·7	42·3	57·8	40·6	17·2	47·8	42·8	·275	3·2	0·5	84	549	—	32·2	1·1	8	13	4	6	7·7	4·4	11	0·92
		June	29·926	0·572	76·8	35·8	41·0	65·7	47·3	18·4	55·7	50·5	·368	4·1	0·8	83	537	—	39·5	1·1	6	11	8	5	7·7	4·8	12	1·60
NORWICH (Norfolk), John Quinton, Esq., Jun.	42	April	29·798	1·556	66·8	29·2	37·6	54·8	40·1	14·7	46·4	44·1	·289	3·3	0·3	92	545	—	—	—	5	10	8	7	—	—	16	2·80
		May	30·084	0·822	72·0	32·0	40·0	56·6	42·4	14·2	48·4	41·3	·260	3·0	0·9	77	548	—	—	—	14	7	4	6	—	—	9	0·39
		June	29·933	0·578	81·2	39·0	42·2	67·0	49·9	17·1	57·2	51·6	·383	4·3	1·0	82	536	—	—	—	11	8	7	4	—	—	12	1·73
LEICESTER (Town Museum), W. J. Harrison, Esq., F.G.S.	245	April	29·574	1·582	68·0	27·7	40·3	54·2	39·0	15·2	46·2	38·5	·234	2·7	0·9	75	542	103·4	32·1	0·9	6	6	8	10	—	6·7	19	2·77
		May	29·886	0·847	67·6	32·1	35·5	57·9	40·3	17·6	48·6	39·0	·238	2·7	1·2	69	545	115·7	32·7	0·8	12	7	5	7	—	6·0	7	0·64
		June	29·716	0·595	82·2	38·4	43·8	66·6	48·7	17·9	57·1	46·6	·317	3·6	1·6	68	532	123·6	42·0	1·0	7	7	6	10	—	6·3	14	1·97
WISBECH (Cambridgeshire), S. H. Miller, Esq., F.R.A.S., F.M.S.	14	April	29·815	1·574	70·5	29·7	40·8	57·3	39·4	17·9	47·0	42·1	·268	3·1	0·6	84	545	105·7	35·4	0·6	6	7	9	8	4·4	6·2	18	4·85
		May	30·121	0·780	75·0	33·0	42·0	61·7	41·7	20·0	50·4	43·2	·278	3·3	0·8	76	547	114·7	36·2	0·5	12	7	6	6	4·4	5·3	9	1·10
		June	29·958	0·524	82·8	39·0	43·8	70·6	49·4	21·2	58·3	52·5	·396	4·5	1·0	81	535	115·3	44·9	0·5	10	4	8	8	4·4	6·5	13	2·80
NOTTINGHAM, M.O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	183	April	29·622	1·560	69·4	26·9	42·5	57·1	39·2	17·9	46·6	41·5	·262	3·0	0·6	83	542	92·8	35·9	0·5	6	9	8	7	3·0	7·2	21	2·75
		May	29·946	0·780	73·6	31·1	42·5	60·0	40·0	20·0	48·6	39·6	·244	2·8	1·1	71	546	111·6	36·3	0·4	8	11	6	6	3·9	6·0	11	0·56
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	39	April	29·770	1·538	66·9	24·3	42·6	55·1	35·3	19·8	45·0	39·8	·245	2·8	0·6	82	546	105·9	33·6	1·8	9	5	10	6	—	5·6	17	4·47
		May	30·075	0·780	69·0	26·5	42·5	56·5	38·3	18·2	47·0	39·9	·247	2·8	0·9	77	550	112·4	35·8	1·8	16	8	3	4	—	5·2	8	0·80
		June	29·919	0·474	76·8	32·3	44·5	65·2	45·1	20·1	54·6	47·9	·333	3·7	1·0	78	538	124·7	44·0	1·6	12	5	8	5	—	5·9	11	2·25
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	100	April	29·716	1·570	65·3	31·9	33·4	55·2	41·0	14·2	47·0	39·6	·243	2·8	0·9	76	543	—	—	0·6	4	7	8	11	—	5·9	12	3·08
		May	30·067	0·784	67·3	31·4	35·9	57·7	42·2	15·5	49·3	40·4	·252	2·9	1·2	71	547	—	—	0·9	4	17	2	8	—	4·4	6	0·26
		June	29·863	0·610	86·0	42·4	43·6	66·6	50·1	16·5	57·3	48·1	·335	3·8	1·4	71	534	—	—	0·8	8	4	3	15	—	5·3	12	2·16
CALCETHORPE MANOR (near) Louth (Lincolnshire), D. Grant Briggs, Esq., F.M.S.	382	April	29·429	1·513	66·4	23·6	42·8	52·2	38·0	14·2	43·9	39·5	·242	2·8	0·5	84	542	107·5	34·0	1·0	7	9	8	6	7·7	6·2	19	3·60
		May	29·740	0·910	65·5	31·1	34·4	54·6	39·3	15·3	45·8	40·9	·256	2·9	0·6	84	545	116·8	34·2	0·7	12	8	5	6	8·9	6·3	10	1·16
		June	29·572	0·667	73·4	37·9	35·5	63·5	47·0	16·5	54·0	48·9	·346	3·9	0·8	82	533	121·8	43·5	0·7	5	7	10	8	8·1	6·0	13	2·71
LIVERPOOL OBSERVATORY, John Hartnup, Esq., F.R.A.S.	197	April	29·600	1·567	66·0	31·5	34·5	53·2	40·7	12·5	45·5	39·3	·241	2·8	0·6	79	543	—	—	1·2	4	8	8	10	—	6·1	17	2·46
		May	29·946	0·860	63·2	35·6	27·6	56·1	42·8	13·3	48·4	38·8	·236	2·7	1·1	70	546	—	—	1·1	8	9	2	12	—	4·5	5	0·40
		June	29·754	0·649	81·9	44·0	37·9	63·5	50·3	13·2	55·5	45·8	·310	3·5	1·3	70	535	—	—	1·1	4	5	5	16	—	5·9	13	1·65
ECCLES (near Manchester), T. Mackereth, Esq., F.R.A.S., F.M.S.	145	April	29·675	1·540	70·8	27·1	43·7	55·5	38·8	16·7	46·1	40·5	·253	2·9	0·6	82	544	68·6	31·9	0·4	5	5	10	10	1·8	7·2	18	3·13
		May	30·007	0·830	70·9	28·0	42·9	59·5	38·3	21·2	48·1	40·2	·249	2·9	1·0	74	547	75·3	31·0	0·2	8	10	5	8	1·7	6·0	9	1·08
		June	29·815	0·602	84·6	37·5	47·1	67·3	46·2	21·1	55·8	47·6	·330	3·8	1·2	75	535	85·1	39·0	0·8	7	6	5	12	1·9	6·6	15	2·83
MOORSIDE OBSERVATORY, HALIFAX (Yorkshire), Louis J. Crossley, Esq., F.R.A.S.	429	April	29·372	1·557	69·0	28·5	40·5	53·1	38·8	14·3	44·3	39·9	·247	2·9	0·4	85	540	88·4	34·4	1·2	5	9	5	11	1·2	7·1	17	2·61
		May	29·706	0·864	68·8	29·6	39·2	57·4	40·7	16·7	47·7	37·2	·222	2·6	1·2	68	543	99·7	35·3	1·4	9	12	1	9	1·1	6·7	8	1·30
BERMERSIDE OBSERVATORY, HALIFAX (Yorkshire), Edward Crossley, Esq., F.R.A.S.	520	April	29·243	1·540	71·0	26·5	44·5	53·1	38·0	15·1	44·0	39·6	·244	2·8	0·5	84	538	92·1	—	0·4	5	12	7	6	—	6·6	16	3·03
		June	29·412	0·592	81·2	38·8	42·4	66·7	46·6	20·1	54·9	49·0	·348	4·0	0·9	80	529	111·8	—	0·6	3	8	7	12	—	5·8	10	3·30
HULL (Yorkshire), Mr. E. Peak.	12	April	29·833	1·568	68·0	27·0	41·0	53·6	39·4	14·2	45·4	40·3	·249	2·9	0·6	83	547	78·2	35·3	—	—	—	—	—	1·1	—	17	2·08
		May	30·148	0·856	69·0	29·6	40·0	58·1	41·1	17·0	48·9	40·8	·256	2·9	1·0	74	549	88·2	36·2	—	—	—	—	—	2·7	—	10	1·25
		June	29·960	0·704	76·0	39·0	37·0	67·6	49·1	18·5	56·7	49·6	·355	4·0	1·2	77	537	94·4	45·5	—	—	—	—	—	2·4	—	12	2·65
STONYHURST (Lancashire), Rev. S. J. Perry, F.M.S., F.R.S., F.R.A.S.	363	April	29·421	1·546	68·3	25·0	43·3	54·0	38·7	15·3	45·0	40·7	·253	2·9	0·5	85	540	103·1	35·6	—	5	7	5	13	—	7·2	21	2·68
		May	29·762	0·884	67·6	29·9	37·7	58·6	39·3	19·3	47·8	40·9	·256	3·0	0·7	78	543	116·7	35·6	—	12	11	1	7	—	6·0	8	0·64
		June	29·570	0·635	81·1	39·0	42·1	66·9	47·3	19·6	55·4	48·5	·345	3·8	1·1	78	532	125·3	44·9	—	2	4	8	16	—	6·8	13	4·60
LEEDS (Philosophical Hall) (Yorkshire), Louis C. Miall, Esq.	137	April	29·642	1·614	72·0	30·0	42·0	56·9	39·2	17·7	46·5	41·6	·263	3·1	0·6	84	542	74·5	—	1·2	5	9	6	10	—	6·2	15	2·26
		May	29·990	0·900	72·0	34·0	38·0	63·7	41·8	21·9	51·2	41·2	·260	3·0	1·2	69	544	86·8	—	1·4	9	10	2	10	—	3·9	8	0·81
		June	29·788	0·638	85·0	43·0	42·0	70·2	49·7	20·5	58·9	50·9	·374	4·2	1·2	75	531	92·8	—	1·4	4	5	7	14	—	4·1	12	2·12
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	366	April	29·393	1·553	68·8	30·2	38·6	52·7	40·3	12·4	45·2	40·3	·249	2·9	0·6	83	539	74·2	—	0·8	6	8	8	8	—	7·3	20	2·39
		May	29·746	0·850	66·0	32·0	34·0	55·9	42·7	13·2	48·1	37·8	·227	2·6	1·2	68	543	82·6	—	0·9	9	10	2	10	—	6·1	9	0·76
		June	29·567	0·574	78·4	42·4	36·0	65·2	50·4	14·8	56·6	45·8	·309	3·4	1·3	67	530	95·3	—	0·6	8	6	5	11	—	6·1	11	2·04

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1876. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.d. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.R.A.S., F.M.S.	146	April	29·635	1·516	65·0	25·0	40·0	52·5	39·8	12·7	45·2	39·4	·241	2·8	0·6	80	544	95·5	31·1	0·3	7	8	9	6	2·2	6·6	14	2·65
		May	29·988	0·994	68·4	27·3	41·1	59·3	40·6	18·7	49·0	41·1	·259	2·9	1·1	74	546	105·4	31·7	0·2	5	13	6	7	1·7	4·9	8	0·72
		June	29·773	0·662	83·2	37·7	45·5	65·1	48·1	17·0	55·6	47·6	·352	3·8	1·2	75	535	115·3	40·3	0·3	4	6	10	10	1·7	4·5	12	3·76
ALLENHEADS (Northumberland), Mr. T. Kidd, Assistant to W. B. Beaumont, Esq., M.P.	1360	April	28·353	1·462	67·0	19·0	48·0	50·0	35·4	14·6	40·5	—	—	—	—	—	—	95·4	33·8	1·0	3	10	11	6	—	6·6	20	4·35
		May	28·709	0·885	60·0	28·0	32·0	50·3	36·8	13·5	43·0	—	—	—	—	—	—	110·8	34·9	1·0	9	11	3	8	—	5·2	11	2·38
		June	28·538	0·767	—	36·5	—	—	44·0	—	—	—	—	—	—	—	—	121·2	41·6	1·3	5	5	11	9	—	4·9	15	3·19
SILLOTH RECTORY (Cumberland), Rev. Francis Redford., M.A., F.R.A.S., F.M.S.	28	April	29·785	1·521	65·0	27·2	37·8	54·2	38·6	15·6	44·8	40·0	·248	2·9	0·4	84	547	82·9	35·0	1·5	4	9	7	10	10·4	6·0	15	2·42
		May	30·133	0·924	74·4	29·9	44·5	62·4	41·0	21·4	50·0	41·4	·261	3·0	1·1	73	548	93·8	36·5	1·5	2	13	9	7	8·9	3·8	9	0·58
		June	29·906	0·697	82·2	38·4	43·8	69·6	47·3	22·3	56·6	48·1	·337	3·9	1·1	73	536	106·0	43·8	1·8	3	7	10	10	8·7	3·8	13	2·95
CARLISLE (Cumberland), Isaac Cartmell, Esq., F.M.S.	114	April	29·696	1·553	65·3	23·6	41·7	53·8	37·3	16·5	43·8	38·9	·236	2·8	0·4	83	547	84·2	33·5	1·7	9	5	8	8	6·2	7·2	21	2·63
		May	30·042	0·971	68·3	29·9	41·4	59·6	39·9	19·7	49·0	39·7	·245	2·8	1·2	70	547	94·4	34·6	1·5	8	9	2	12	5·9	5·6	7	1·21
		June	29·818	0·801	82·8	38·7	44·1	66·8	46·6	20·2	56·0	42·4	·274	3·1	1·9	60	535	107·4	41·3	2·0	2	5	7	16	6·0	5·1	12	2·48
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	April	29·698	1·334	68·0	28·0	40·0	54·5	40·8	13·7	45·4	39·2	·240	2·8	0·6	79	545	68·2	35·2	1·2	4	12	5	9	—	5·4	21	3·14
		May	30·030	0·952	67·0	34·0	33·0	59·3	43·9	15·4	49·7	41·4	·263	3·0	1·0	74	546	77·5	38·4	1·1	11	11	2	7	—	4·4	15	1·76
		June	29·805	0·688	82·0	43·0	39·0	68·9	51·3	17·6	57·5	48·9	·346	3·8	1·5	72	533	93·7	45·9	1·3	4	7	7	12	—	3·9	13	2·98
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	April	29·748	1·459	63·0	27·5	35·5	50·2	38·8	11·4	43·4	38·8	·236	2·8	0·5	84	—	—	37·2	1·7	8	6	7	9	—	6·5	19	3·21
		May	30·118	1·033	65·0	32·0	33·0	55·1	43·3	11·8	47·7	39·9	·246	2·8	0·9	75	—	—	41·2	1·4	10	11	4	6	—	4·5	10	0·99
		June	29·887	0·749	72·0	41·8	30·2	61·7	48·2	13·5	53·6	46·5	·315	3·5	1·1	76	—	—	47·4	1·5	8	7	6	9	—	5·3	14	2·03
MILLTOWN Banbridge, (Ireland), John P. Smyth, Esq., jun., M.A., M.I.C.E.I., F.G.S.	200	April	29·462	1·446	61·0	21·0	40·0	52·7	38·2	14·5	44·8	38·7	·235	2·7	0·7	80	—	110·1	34·5	1·8	7	6	11	6	—	5·5	17	2·09
		May	29·838	0·843	66·0	27·0	39·0	58·2	40·2	18·0	48·7	40·2	·249	2·9	0·9	72	—	123·9	32·5	1·8	9	8	9	5	—	3·6	5	0·46
		June	29·600	0·682	78·0	38·0	40·0	63·7	46·2	17·5	53·8	46·3	·312	3·5	1·1	75	—	125·5	40·8	1·9	6	2	16	6	—	4·7	15	1·99

NOTE.—*The Barometer Reading*, Gloucester, 19th April, 9h. a.m., 29·850 in., has been altered to 28·850 in.
" " Chiswick, " 3h. p.m., 29·540 in., " 29·040 in.
" " Leeds, 12th June, 4h. p.m., 28·622 in., " 29·622 in.
" " Gloucester, 4th " 9h. a.m., 29·200 in., " 29·920 in.
" " " 6th " 9h. a.m., 30·300 in., " 30·000 in.
" " " 14th " 4h. p.m., 30·122 in., " 30·022 in.
The Maximum Thermometer Reading, Marlborough, 14th April, 32°·8, has been altered to 42°·8.
" " Streatley, " 35°·0, " 45°·0.
The Minimum " Chiswick, " 20°·0, " 30°·0.

Second Rain-gauges are placed—

			April.	May.	June.	Total during the Quarter.
At Eastbourne,	at the height of 160 feet *above the sea*,	the amount collected was	2·08 inches.	— inches.	— inches.	— inches.
" Beckenham,	at the height of 50 feet *above the ground*,	"	1·02 "	0·91 "	1·11 "	4·04 "
" Strathfield Turgiss,	" 38 feet "	"	1·38 "	0·22 "	1·37 "	2·97 "
" Oxford,	" 22 feet "	"	2·55 "	0·75 "	2·02 "	5·32 "
" Cardington,	" 36 feet "	"	2·60 "	0·36 "	— "	— "
" Wisbech,	" 8 feet "	"	4·58 "	1·07 "	2·79 "	8·44 "
" Nottingham,	" 39 feet "	"	2·27 "	0·51 "	— "	— "
" Holkham,	" 4 feet "	"	— "	0·75 "	2·13 "	— "
" Eccles (Manchester),	" 34 feet "	"	2·57 "	0·99 "	2·47 "	6·03 "
" Milltown (Ireland),	" 40 feet "	"	1·72 "	— "	0·99 "	— "

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·699	74·0	33·0	41·0	56·9	46·5	25·2	10·4	49·8	45·7	·309	3·5	0·6	86	541	—	—	1·5	10	7	5	9	3·7	3·7	34	3·52
Helston	29·665	85·0	33·0	53·0	62·8	43·6	38·0	19·2	52·5	45·3	·306	3·5	1·1	78	540	81·4	41·3	2·2	8	7	7	8	5·0	3·1	26	4·59
Truro	29·706	80·0	29·0	51·0	60·6	43·2	36·7	16·7	50·6	44·0	·291	3·3	1·0	79	543	—	—	2·6	9	7	6	8	—	5·6	36	4·24
Plymouth	29·768	79·5	32·5	47·0	60·1	45·7	31·3	14·4	50·9	45·8	·310	3·5	0·7	83	544	—	43·4	2·6	8	7	6	9	—	5·2	39	5·58
Osborne	29·682	84·9	30·1	54·8	63·4	43·3	58·0	20·1	52·1	47·6	·334	3·8	0·7	85	539	116·2	40·2	0·2	8	7	8	7	—	4·8	28	2·87
Hastings	29·710	82·1	29·4	52·7	57·4	44·6	34·7	12·8	49·9	43·9	·292	3·3	0·8	81	542	—	41·2	1·9	9	7	7	7	—	5·2	39	4·67
Salisbury	29·715	85·0	27·5	57·5	65·1	40·4	45·5	24·7	51·7	43·7	·288	3·3	1·1	75	540	114·5	37·2	1·4	10	8	3	9	3·4	5·4	31	3·90
Barnstaple	29·695	84·0	33·5	50·5	63·2	47·6	35·5	15·6	53·3	45·1	·304	3·4	1·2	75	541	—	—	1·3	7	8	7	8	—	3·6	33	4·72
Caterham	29·753	—	23·0	—	—	41·6	—	—	52·4	43·5	·287	3·3	1·2	72	530	69·2	—	1·7	7	9	4	10	2·5	2·1	38	4·62
Ramsgate	29·694	74·9	29·5	45·4	58·0	46·3	30·2	11·7	51·4	45·6	·310	3·5	0·8	81	542	107·7	40·1	1·5	9	8	6	7	—	5·5	28	3·81
Strathfield Turgiss	29·732	85·1	29·8	55·3	61·7	42·4	43·0	19·3	51·1	43·1	·281	3·2	1·0	75	541	111·9	37·3	0·7	10	7	5	9	3·0	5·7	29	4·33
Weybridge Heath	29·748	88·5	27·8	60·7	63·6	40·7	47·8	22·9	51·2	44·0	·292	3·3	1·0	76	541	99·2	38·3	0·7	9	6	9	6	1·6	5·7	34	4·13
East Tilbury	29·701	84·3	28·2	56·1	63·2	40·9	43·0	22·3	51·0	44·8	·305	3·4	1·2	78	543	108·5	40·0	0·7	5	11	7	7	—	5·1	26	3·34
Marlborough Green	29·708	82·7	28·7	54·0	60·7	41·9	41·1	18·7	50·1	43·2	·282	3·2	0·9	78	536	109·6	38·1	0·2	10	6	4	9	—	5·5	35	6·45
Beckenham	29·701	83·6	27·1	59·5	63·8	39·9	47·2	23·9	50·5	43·5	·287	3·3	0·9	78	541	—	—	—	7	9	5	9	—	5·7	31	4·11
Blackheath	29·727	84·9	29·9	55·0	62·6	43·3	42·9	19·3	51·5	43·8	·290	3·2	1·1	75	540	101·8	40·9	1·0	8	7	7	8	—	5·3	29	4·06
Streatley Vicarage	29·706	86·9	29·3	57·6	62·6	42·7	47·1	19·9	51·6	44·0	·293	3·3	1·0	73	540	—	—	1·3	9	8	5	8	—	6·1	34	5·54
Chiswick	29·659	85·5	30·0	55·5	63·4	40·5	49·0	22·9	50·7	44·5	·297	3·4	0·9	80	543	111·6	36·1	0·8	6	9	6	9	—	6·5	21	4·16
Camden Square	29·701	84·8	30·7	54·1	63·5	44·1	41·4	19·4	52·3	44·2	·294	3·4	1·1	74	540	115·4	39·4	—	11	4	6	9	—	5·7	28	4·11
Oxford	29·690	85·3	31·0	54·3	61·5	43·0	40·8	18·5	52·0	44·7	·300	3·4	1·1	77	539	110·2	40·5	0·8	8	7	6	9	3·9	6·5	38	5·70
Gloucester	29·737	—	28·4	—	—	41·2	—	—	51·5	44·0	·295	3·3	0·9	76	542	112·5	—	0·9	8	8	4	9	2·1	5·9	34	4·45
Royston	29·729	84·7	28·0	56·7	63·6	40·9	44·8	22·7	50·8	44·0	·293	3·3	0·9	78	539	—	—	—	11	5	7	7	—	5·5	31	5·11
Cardington	29·699	86·0	29·4	56·6	62·6	42·7	43·4	19·9	51·7	44·4	·294	3·4	1·0	77	541	94·9	36·8	1·5	8	8	5	9	—	6·0	36	5·59
Lampeter	29·758	82·0	29·0	53·0	62·4	39·4	44·5	23·0	50·1	42·4	·275	3·1	1·1	75	538	109·4	—	—	7	8	6	8	—	—	26	4·58
Cambridge	29·650	84·0	25·3	58·7	64·0	42·3	45·3	21·7	51·9	—	—	—	—	—	—	128·2	38·1	1·5	8	8	7	7	—	6·0	40	4·05
Norwich	29·673	81·2	29·2	52·0	59·5	44·1	39·9	15·4	50·7	45·7	·311	3·5	0·7	84	543	—	—	—	10	8	6	6	—	—	37	4·92
Leicester	29·730	82·2	27·7	54·5	59·6	42·7	39·9	16·9	50·6	41·4	·263	3·0	1·2	71	540	114·2	35·6	0·9	8	7	6	9	—	6·3	40	5·38
Wisbech	29·668	82·8	29·7	53·1	63·2	43·5	42·4	19·7	51·9	45·9	·314	3·6	0·8	80	542	111·9	38·8	0·5	9	6	8	7	4·4	6·0	40	8·75
Llandudno	29·715	86·0	31·4	54·6	59·8	44·4	37·6	15·4	51·2	42·7	·277	3·2	1·2	73	541	—	—	0·8	5	9	4	11	—	5·2	30	5·30
Calcethorpe	29·716	73·4	23·6	49·8	56·8	41·4	37·6	15·3	47·9	43·1	·281	3·2	0·6	83	540	115·4	37·2	0·8	8	8	8	7	8·2	6·2	42	7·47
Eccles	29·715	84·6	27·1	57·5	60·8	41·1	44·6	19·7	50·0	42·8	·277	3·2	0·9	77	542	76·3	34·0	0·5	7	7	7	10	1·8	6·6	42	7·04
Hull	29·706	76·0	27·0	49·0	59·8	43·2	39·3	16·6	50·3	43·6	·287	3·3	0·9	78	544	86·9	39·0	—	—	—	—	—	2·1	—	29	5·38
Stonyhurst	29·700	81·1	25·0	56·1	59·8	41·8	41·0	18·0	49·4	43·4	·285	3·2	0·8	80	538	115·0	38·7	—	6	7	5	12	—	6·7	42	7·92
Leeds	29·660	85·0	30·0	55·0	63·6	43·6	40·7	20·0	52·2	44·6	·299	3·4	1·0	76	539	84·7	—	1·3	6	8	5	11	—	4·7	35	5·19
Bradford	29·707	78·4	30·2	48·2	57·9	44·5	36·2	13·5	50·0	41·3	·262	3·0	1·0	73	537	84·0	—	0·8	8	8	5	10	—	6·5	40	5·19
Cockermouth	29·684	83·2	25·0	58·2	59·0	42·8	42·2	16·2	49·9	42·7	·277	3·2	1·0	76	542	105·4	34·4	0·3	5	9	8	8	1·9	5·3	34	7·13
Allenheads	—	—	19·0	—	—	38·7	—	—	—	—	—	—	—	—	—	109·1	36·8	1·1	6	9	8	8	—	5·6	46	9·92
Silloth	29·690	82·2	27·2	55·0	62·1	42·3	42·0	19·8	50·5	43·2	·282	3·3	0·9	77	544	94·2	38·4	1·6	3	10	9	9	9·3	4·5	37	5·95
Carlisle	29·725	82·8	23·6	59·2	60·1	41·3	42·4	18·8	49·6	40·3	·252	2·9	1·2	71	543	95·8	36·5	1·7	6	6	6	12	6·0	6·0	40	6·32
Bywell	29·657	82·0	28·0	54·0	60·9	45·3	37·3	15·6	50·9	43·2	·283	3·2	1·0	75	541	79·8	39·8	1·2	6	10	5	9	—	4·6	49	7·88
North Shields	—	72·0	27·5	44·5	55·7	43·4	32·9	12·3	48·2	41·7	·266	3·0	0·8	78	—	—	41·9	1·5	9	8	6	8	—	5·4	43	6·23
Milltown (Ireland)	—	78·0	21·0	57·0	58·2	41·5	39·7	16·7	49·1	41·7	·265	3·0	0·9	76	—	119·8	35·9	1·8	7	5	12	6	—	4·6	37	4·54

The highest temperatures of the air were at Weybridge Heath, 88½°; and at Streatley Vicarage, 86°·9.
The lowest temperatures of the air were at Allenheads, 19°·0; and at Milltown, 21°·0.
The greatest daily ranges of the temperatures of the air were at Salisbury, 24°·7; Beckenham, 23°·9; and at Lampeter, 23°·0.
The least daily ranges of the temperatures of the air were at Guernsey, 10°·4; and at Ramsgate, 11°·7.
The greatest numbers of rainy days were at Bywell, 49; Allenheads, 46; and at North Shields, 43.
The least numbers of rainy days were at Chiswick, 21; and at Helston, East Tilbury, and Lampeter, all 26.
The heaviest falls of rain were at Allenheads, 9·92 inches; Wisbech, 8·75 inches; and at Bywell, 7·88 inches.
The least falls of rain were at Osborne, 2·87 inches; East Tilbury, 3·34 inches; and at Guernsey, 3·52 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·699	74·0	33·0	41·0	56·9	46·5	25·2	10·4	49·8	45·7	·309	3·5	0·6	86	541	—	—	1·5	10	7	5	9	3·7	3·7	34	3·52
Between 50° and 51°	29·706	82·5	30·8	51·7	60·9	44·2	35·9	16·7	51·2	45·3	·307	3·5	0·9	81	542	98·8	41·8	1·9	8	7	7	8	—	4·8	34	4·29
Between 51° and 52°	29·711	84·5	28·3	56·2	62·5	42·4	42·7	20·1	51·5	44·1	·294	3·3	1·0	76	540	106·0	38·8	1·0	8	8	6	8	2·8	5·4	31	4·50
Between 52° and 53°	29·701	83·3	27·9	55·4	62·1	42·2	42·9	19·9	51·1	44·0	·292	3·3	0·9	77	540	111·7	37·1	1·1	9	7	6	7	—	6·0	36	5·48
Between 53° and 54°	29·702	81·0	27·3	53·7	60·1	42·6	40·1	17·5	50·3	43·4	·284	3·3	0·9	78	541	—	—	0·8	5	9	4	11	—	5·2	30	5·30
Between 54° and 55°	29·693	81·7	26·8	54·9	60·0	43·2	40·0	16·8	50·2	42·2	·271	3·1	1·0	74	541	95·7	34·1	0·9	6	8	6	10	4·0	5·9	38	6·42
Mean for the Quarter, 50° to 55° — Year 1873	29·693	76·8	28·8	48·0	61·0	43·7	37·7	17·3	51·2	44·3	·297	3·4	0·9	78	541	100·7	37·6	1·2	9	6	6	10	3·8	6·0	36	7·07
" 1874	29·683	78·3	30·8	47·5	62·3	43·6	40·9	18·7	51·4	44·5	·296	3·3	1·0	77	539	103·3	38·6	1·1	8	8	6	9	3·6	5·7	34	4·37
" 1875	29·663	78·7	29·3	49·4	62·4	44·2	39·3	18·2	52·0	45·1	·305	3·5	1·0	77	539	100·7	39·5	1·2	6	6	8	11	4·3	5·9	38	4·41
" 1876	29·703	82·6	28·3	54·3	61·1	43·1	40·3	18·0	50·9	43·8	·289	3·3	0·9	75	541	101·4	37·8	1·0	7	8	6	8	4·1	5·5	34	5·82

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING SEPTEMBER 30, 1876.

Remarks on the Weather during the Quarter ending September 30th, 1876.

By James Glaisher, Esq., F.R.S., *&c.*

Till August 22nd, the weather was generally fine, warm, and at times very hot, more particularly on July 14th, 15th, 16th, 17th, 22nd, and August 9th, 13th, 14th, 15th, 16th, and 17th. On these days the sky was nearly cloudless, and the excess of daily temperatures above their averages were 9°·4; 12°·1; 8°·9; 11°·0; 10°·2; 9°·5; 14°·5; 13°·2; 14°·5; 11°·4; and 8°·9 respectively. On every one of these days the temperature exceeded 90° at some stations, and was generally very high at all places except at those near the sea. The following Table shows the highest readings on these days at the several stations:—

Table of Maximum Temperatures of the Air, on the 14th, 15th, 16th, 17th, and 22nd of July, and on the 9th, 13th, 14th, 15th, 16th, and 17th of August 1876.

Names of Stations.	July. 14th.	15th.	16th.	17th.	22nd.	August. 9th.	13th.	14th.	15th.	16th.	17th.
	°	°	°	°	°	°	°	°	°	°	°
Guernsey	72·5	71·5	73·5	79·0	77·0	74·0	72·5	69·0	72·5	75·0	77·5
Helston	82·0	82·0	86·0	88·0	88·0	76·0	78·0	76·0	79·0	84·0	78·0
Truro	85·0	86·0	85·0	83·0	84·0	77·0	81·0	75·0	78·0	81·0	74·0
Plymouth	70·0	78·0	82·5	84·0	79·0	68·8	76·5	73·5	73·5	72·5	78·5
Ventnor	78·4	82·3	80·8	89·9	89·1	80·3	81·7	78·5	82·3	84·1	82·8
Osborne	86·2	92·6	89·9	93·9	88·2	84·2	92·3	82·2	85·8	90·2	85·6
Bournemouth	75·8	75·8	75·2	84·8	72·0	72·1	84·0	76·2	74·1	80·0	83·2
Hastings	80·1	86·1	71·3	80·1	78·6	80·1	86·1	71·3	80·1	78·6	84·3
Salisbury	90·0	93·0	92·0	93·0	88·0	85·5	93·0	86·5	87·0	89·5	89·0
Barnstaple	82·0	89·0	94·0	94·0	87·5	75·0	87·0	89·0	82·0	78·0	86·5
Ramsgate	73·9	79·5	74·1	85·7	77·3	69·4	79·1	70·9	78·9	75·4	73·4
Strathfield Turgiss	88·8	91·2	90·0	88·6	87·2	88·8	93·3	94·5	92·3	89·3	85·4
East Tilbury	82·8	95·5	87·5	94·6	90·0	92·0	87·0	95·8	96·0	84·0	78·6
Marlborough	88·4	90·7	89·7	87·8	86·5	84·0	92·0	85·3	84·7	86·7	84·7
Bristol	92·3	94·2	96·2	91·3	93·3	85·7	97·0	84·4	87·6	91·0	90·3
Blackheath	88·0	89·5	88·0	90·3	88·3	86·2	89·1	89·6	85·8	85·2	84·8
Royal Observatory	89·5	93·0	89·9	94·0	90·2	91·2	92·6	93·8	93·1	88·2	83·5
Beckenham	91·8	94·1	90·6	90·9	90·7	91·2	96·1	93·6	93·6	87·2	85·6
Streatley	86·0	92·2	93·4	93·2	88·2	83·2	84·8	95·3	91·3	88·2	91·2
Chiswick	86·5	89·5	93·0	92·0	82·0	83·5	78·0	94·5	92·5	91·2	86·0
Camden Square	85·7	92·6	89·4	89·9	89·1	88·0	92·3	92·1	89·8	85·1	86·0
Oxford	88·4	89·8	90·2	85·0	87·2	84·2	91·1	87·6	88·0	88·3	86·6
Gloucester	91·3	96·0	92·5	85·6	90·0	85·0	95·0	86·3	88·0	93·0	82·5
Royston	86·0	92·0	89·2	92·7	88·1	81·8	90·2	93·0	94·8	88·4	86·2
Cardington	83·6	90·0	90·6	91·0	85·6	86·4	82·4	92·6	93·0	89·0	82·4
Lampeter	87·5	89·5	90·0	76·0	84·0	—	—	—	—	—	—
Cambridge	91·2	90·0	91·0	85·4	88·4	87·0	92·5	95·1	91·0	86·0	88·0
Somerleyton	77·5	84·0	78·5	83·8	76·1	78·0	82·8	87·0	80·0	74·0	80·0
Norwich	84·5	84·0	83·0	81·0	81·0	84·6	86·0	84·0	85·0	76·2	80·0
Leicester	85·4	85·8	87·9	77·3	84·1	83·2	91·5	91·9	84·7	83·1	81·0
Birmingham	—	—	89·6	75·6	85·0	—	92·0	91·2	84·4	85·2	84·2
Wolverhampton	92·2	90·2	92·8	73·5	87·1	84·2	91·7	88·5	83·2	83·8	81·6
Wisbech	87·7	85·8	86·8	82·0	86·0	84·3	91·0	92·0	87·7	80·7	83·2
Nottingham	83·8	89·4	88·9	92·2	83·8	73·3	80·8	93·6	93·6	87·4	83·7
Llandudno	77·0	78·1	86·6	73·9	76·1	78·0	85·0	73·9	68·4	85·8	81·0
Sheffield	88·0	86·0	92·7	79·0	85·0	82·0	90·5	90·0	87·0	81·0	75·0
Calcethorpe	83·6	83·5	82·8	71·6	79·9	81·5	82·3	81·0	79·0	71·8	69·0
Liverpool	75·2	82·8	84·8	63·5	75·0	76·1	84·6	63·0	69·0	80·6	82·0
Manchester	86·7	89·0	95·0	75·0	83·5	81·0	87·0	87·0	80·8	84·0	85·0
Eccles	83·1	89·2	93·0	72·2	78·9	78·8	90·3	87·5	78·5	82·8	82·7
Bermerside, Halifax	81·7	85·3	90·3	79·0	80·1	72·8	85·0	87·3	81·5	78·1	75·5
Hull	86·0	79·0	87·0	72·0	82·0	80·0	78·0	83·0	78·9	74·0	70·0
Stonyhurst	77·0	86·2	87·2	73·8	77·1	73·1	84·1	80·3	73·7	79·1	77·1
Bradford	83·3	81·0	87·6	87·4	77·4	68·2	75·0	81·0	83·6	79·0	77·0
Leeds	86·0	90·0	92·0	81·0	83·0	79·0	93·0	94·0	92·0	86·0	82·0
Cockermouth	76·5	83·3	85·2	70·7	75·9	64·1	88·1	80·5	72·2	82·3	83·5
Silloth	76·1	85·7	85·5	78·4	7[illegible]	7[illegible]·9	88·5	87·1	74·3	81·3	76·1
Sunderland	83·0	82·0	90·0	73·0	7[illegible]	[illegible]·0	79·0	83·0	75·0	82·0	68·0
Carlisle	77·2	83·0	85·5	74·3	7[illegible]·8	9[illegible]·3	87·0	91·2	73·7	83·8	77·0
Bywell	82·0	84·0	87·0	76·0	90·0	7[illegible]·0	80·0	85·0	81·0	80·0	75·0
Newcastle-on-Tyne	79·0	74·0	—	—	—	71·0	—	75·0	75·0	75·0	—
North Shields	78·6	72·2	82·5	65·5	73·0	71·8	70·2	69·0	67·0	67·3	64·0
Milltown (Ireland)	79·0	82·0	86·0	65·0	67·0	68·0	77·0	79·0	72·0	76·0	73·0

From this Table it will be seen that the highest temperature on—

July	14th	was	92°·3	at	Bristol	and	70°·0	at	Plymouth.
"	15th	"	96°·0	"	Gloucester	"	71°·5	"	Guernsey.
"	16th	"	96°·2	"	Bristol	"	71°·3	"	Hastings.
"	17th	"	94°·6	"	East Tilbury	"	63°·5	"	Liverpool.
"	22nd	"	93°·3	"	Bristol	"	67°·0	"	Milltown.
August	9th	"	92°·0	"	East Tilbury	"	64°·1	"	Cockermouth.
"	13th	"	97°·0	"	Bristol	"	70°·2	"	North Shields.
"	14th	"	95°·8	"	East Tilbury	"	63°·0	"	Liverpool.
"	15th	"	96°·0	"	East Tilbury	"	67°·0	"	North Shields.
"	16th	"	93°·0	"	Gloucester	"	67°·3	"	North Shields.
"	17th	"	91°·2	"	Streatley	"	64°·0	"	North Shields.

From this it will be seen how great the difference of temperature was on these days of extreme heat between places near the coast and those inland.

In estimating the unusual high temperatures experienced in these two months, it may be stated that in the 35 years ending 1875, at Greenwich there were 7 Julys, viz., in the years 1841, 1842, 1855, 1860, 1861, 1862, and 1875, and 10 Augusts, viz., in the years 1841, 1844, 1845, 1848, 1853, 1855,

1860, 1862, 1865, and 1866, in which the temperature was not so high as 80°; and the instances in which it was about 90°, or higher, are as follows:—

July	1843	it was	89°·8	August	1842	it was	90°·5
„	1846	„	93·3	„	1846	„	92·0
„	1847	„	89·0	„	1847	„	87·3
„	1852	„	90·3	„	1856	„	89·8
„	1854	„	88·7	„	1857	„	88·0
„	1857	„	89·7	„	1859	„	91·3
„	1859	„	93·0	„	1861	„	89·3
„	1868	„	96·6	„	1864	„	88·6
„	1869	„	90·9	„	1867	„	89·0
„	1870	„	89·7	„	1868	„	90·5
„	1872	„	90·9	„	1869	„	89·0
„	1873	„	88·7	„	1871	„	89·2
„	1874	„	92·0	„	1873	„	87·3

Showing that the days of extreme high temperature about London have been more numerous than usual, and from the preceding table it would seem to have been general, The few days following July 22nd were of moderate temperature, and but little rain fell. Scarcely any rain fell in August till after the middle of the month, and the average excess of mean temperature for the 53 days ending August 22nd was 4°¼ daily. A complete change of weather set in on August 23rd, and rain fell very continuously. The temperature was low till September 17th, the average daily deficiency being 3°½; from September 18th to the end of the quarter it was warm, there being an average excess of daily temperature amounting to 2°¼, but rain fell almost on every day and the weather was bad.

The readings of the barometer at 160 feet above the level of the sea, in the vicinity of London, were alternately above and below their respective averages, from the 1st to the 8th of July; they were above their averages from the 9th to the end of the month, with the exception of three days, viz., 23rd, 28th, and 31st, which were 0·03 in., 0·25 in., and 0·22 in. respectively below their averages. The greatest departure in excess of the average was 0·42 in. on the 12th, and the greatest in defect was 0·25 in. on the 28th. From the 1st to the 13th of August the readings of the barometer were above their average values, with the exception of the 3rd, which was 0·30 in. below; the readings were alternately above and below their averages from the 14th to the 18th; and from the 19th to the end of the month the readings were all below their averages, that for the last day being 0·87 in. in defect. During the first 18 days of September the readings of the barometer were all below their average values, to the mean amount of 0·30 in.; they were above from the 19th to the 22nd, to the mean amount of 0·23 in., and from the 23rd to the end of the month the readings were again below their averages, to the mean amount of 0·26 in. The mean reading for the month was 29·620 ins., being 0·187 in. below the average. In the preceding 35 years there are only 2 instances of so low a barometer reading for the month of September as in the present year, viz.:—

In 1841 the mean reading was 29·624 ins., and in 1860 was 29·575 ins.

At Greenwich *the mean temperature of the air* for July was 7°·4 above that of June; that of August was 2°·2 below that of July; and that of September was 7°·9 below that of August. (From the preceding 35 years' observations the *mean temperature* of July above that of June is 3°·2; that of August below that of July is 0°·7; and that of September below that of August is 4°·1.)

The mean temperature of the air for July above that of June; South of latitude 52° was 6°·7; and North of 52° was 5°·4; that of August below that of July over the whole country was 1°·8; and that of September below that of August, over the whole country was 6°·2.

The mean temperature of the air for July was 65°·9, being 4°·3 and 3°·8 above the averages of the preceding 105 years, and [illegible] years respectively; it was higher than any previous value back to 1841, with the exception of the year 1859 which was 68°·1, and the year 1868 which was 67°·5.

The mean temperature of the air for August was 63°·7, being 2°·9 and 2°·3 above the averages of the preceding 105 years, and 35 years respectively; it was 3°·4 and 0°·7 above the values in 1874 and 1875 respectively.

The mean temperature of the air for September was 55°·8, being 0°·8 and 1°5 below the averages of the preceding 105 years, and 35 years respectively; it was 2°·1 and 4°·2 below the values in 1874 and 1875 respectively, but 1°·1 above that in 1873.

The mean temperature of the air for the quarter was 61°·8, being 2°·1 and 1°·5 above the averages of the preceding 105 years, and 35 years respectively.

The mean high day temperatures of the air were 5°·7 and 3°·8 above their respective averages in July and August; but 2°·0 below in September.

The mean low night temperatures of the air were 2°·0 and 0°·3 above their respective averages in July and August; but 0°·6 below in September.

Therefore the days and nights in July and August were warm, but somewhat cold in September.

The mean daily ranges of temperature were 3°·7 and 3°·6 greater than their respective averages in July and August; but 1°·4 less in September.

At Greenwich the increase of atmospheric pressure from June to July was 0·086 in., the decrease from July to August was 0·134 in., and the decrease from August to September was 0·148 in. Over the whole country the mean increase from June to July was 0·102 in. south of latitude 51°; between latitudes 51° and 52° was 0·087 in.; between 53° and 54° was 0·073 in.; between 54° and 55° was 0·063 in. and north of 55° was 0·058 in. The decrease of pressure from July to August was very nearly the same everywhere; its mean from all stations was 0·128 in.; and the decrease from August to September was nearly of the same value south of 55°, viz., 0·160 in.; and north of the parallel it was 0·129 in.

At Greenwich the fall of rain in July was 0·7 in., being 1·9 in. below its average; in August was 2·0 in., being 0·4 in. below its average; and in September was 2·6 in., being 0·1 in. above its average. The total fall in the quarter was 5·3 in., being 2·2 in. below the average. The following are the only instances back to 1815, when the fall of rain in the 3 months ending September 30th, was so small as that in the present year, viz.:—1815 it was 4·8 in.; 1818 it was 5·1 in.; 1832 it was 4·5 in.; 1833 it was 5·3 in.; 1847 it was 4·3 in.; 1854 it was 5·3 in.; 1861 it was 4·1 in.; 1864 it was 4·5 in.; 1868 it was 5·2 in.; and 1869 it was 4·9 in.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter, were as follows:—

Direction of Wind.	July.			August.			September.		
	Average.	1876.	Departure from Average.	Average.	1876.	Departure from Average.	Average.	1876.	Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	2½	2	− ½	2	2	0	1½	6	+4½
N.	3½	5	+1½	3	3	0	3½	3	− ½
N.E.	3½	2	−1½	3	2	−1	5¼	0	−5¼
E.	1½	2	+ ½	1¼	6	+4¾	1¾	2	+ ¼
S.E.	½	1	+ ½	1¼	2	+ ¾	1¾	3	+1¼
S.	2½	2	− ½	3	3	0	2	4	+2
S.W.	10½	8	−2½	10½	10	− ½	7¼	7	− ¼
W.	4	8	+4	3¼	3	+ ¾	2½	3	− ½
Calm (nearly.)	2½	1	−1½	3¼	0	−3¼	4½	2	−2½

The sign + denotes excesses over averages; in the month of July the largest number with this sign is opposite to W., in August to E., and in September to N.W.

The sign − denotes defects below averages; in July the largest number with this sign is opposite to S.W.; in August to E., but the number is small; and in September to N.E.

1876. Months.	Temperature of Air. Mean.	Air. Diff. from average of 105 years.	Air. Diff. from average of 35 years.	Evaporation. Mean.	Evaporation. Diff. from average of 35 years.	Dew Point. Mean.	Dew Point. Diff. from average of 35 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 35 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 35 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 35 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.
July -	65·9	+4·3	+3·8	60·2	+2·5	55·5	+1·6	24·9	+3·7	68·0	0·442	+0·025	4·9	+0·3
August	63·7	+2·9	+2·3	58·2	+0·8	53·6	−0·2	23·4	+3·6	67·2	0·412	−0·004	4·6	0·0
Sept. -	55·8	−0·8	−1·5	52·9	−1·2	50·2	−1·0	17·1	−1·4	59·3	0·365	−0·016	4·1	−0·1
Means -	61·8	+2·1	+1·5	57·1	+0·7	53·1	+0·1	21·8	+2·0	64·8	0·406	+0·002	4·5	+0·1

1876. Months	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 35 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 35 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 35 years.	Rain. Amount.	Rain. Diff. from average of 61 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
July -	69	−6	29·902	+0·100	526	−2	0·7	−1·9	240	0	1	30	38·6	58·0
August	70	−7	29·768	−0·027	526	−3	2·0	−0·4	263	0	3	28	34·1	59·7
Sept. -	82	+1	29·620	−0·187	532	−1	2·6	+0·1	272	0	7	23	36·5	53·0
Means -	74	−4	29·763	−0·038	528	−2	Sum 5·3	Sum −2·2	Mean 238	Sum 0	Sum 11	Sum 81	Lowest 34·1	Highest 59·7

NOTE.—In reading this table it will be borne in mind that the minus sign (−) signifies *below* the average, and that the plus sign (+) signifies *above* the average.

Thunderstorms occurred or Thunder was heard and Lightning seen in July on the 8th, at Somerleyton, Norwich, and Halifax; on the 16th in the valley of the Trent, at Ross and Hereford; on the 22nd at many places in the Midland Counties; on the 23rd at many places between latitudes 51° and 55°; on this day there was a very destructive storm north of London, accompanied with large hailstones, and the damage done was very great; at Tottenham some houses, and many conservatories had nearly every pane of glass broken, on the side facing the storm, and trees were nearly stripped of leaves; on the 28th and 31st storms occurred at different places widely separated. In August, on the 1st at Holkham, Halifax, and Hull; on the 15th, 16th, 17th, 18th, 19th, and 20th, at stations south of latitude 52°; at Bristol, on the 19th, during a heavy thunderstorm, rain fell to the depth of 3·57 in.; on the 24th, 26th, 30th, and 31st, at stations mostly north of latitude 52°, but none of these storms were very heavy. In September, on the 3rd, 4th, 5th, 6th, 7th, 8th, and 9th, at stations mostly south of London; on the 15th at Ramsgate; on the 17th and 18th at London and stations north; on the 22nd, 23rd, and 24th, at stations north of 52°; on the 28th at Royston, and 29th at Helston.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING SEPTEMBER 30TH, 1876.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the fifth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1876. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.M.S.	204	July	29·909	0·676	79·0	51·0	28·0	69·2	57·0	12·2	61·5	56·1	·451	5·0	1·1	83	530	–	–	1·2	8	6	7	10	3·2	3·3	5	0·46
		Aug.	29·772	1·000	77·5	51·0	26·5	67·9	56·9	11·0	60·7	56·4	·455	5·1	0·9	86	529	–	–	1·3	8	5	8	10	3·8	3·3	13	3·36
		Sept.	29·625	1·190	68·0	46·0	22·0	62·5	54·1	8·4	56·8	54·5	·426	4·7	0·5	92	530	–	–	1·7	4	3	11	12	4·1	5·3	22	3·57
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	July	29·990	0·676	94·0	46·0	48·0	76·5	54·2	22·3	63·8	53·9	·417	4·6	1·9	71	530	146·4	52·4	2·0	7	7	9	8	3·8	4·5	9	1·11
		Aug.	29·906	0·820	84·0	45·0	39·0	72·8	54·4	18·4	61·8	49·3	·352	3·9	2·2	64	531	88·5	49·6	1·9	7	4	9	11	4·2	3·6	12	3·66
		Sept.	29·736	1·252	72·0	42·0	30·0	65·0	48·5	16·5	56·0	47·3	·329	3·7	1·3	73	534	75·9	45·9	2·1	7	4	8	11	7·2	6·7	19	4·91
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	July	30·040	0·699	86·0	39·0	47·0	73·5	55·3	18·2	62·7	53·7	·413	4·6	1·8	73	532	–	–	2·2	7	7	7	10	–	5·3	10	0·83
		Aug.	29·904	0·919	81·0	48·0	33·0	71·3	55·9	15·4	61·3	53·3	·406	4·5	1·5	75	530	–	–	2·5	8	6	6	11	–	5·4	14	4·57
		Sept.	29·744	1·198	69·0	44·0	25·0	63·8	52·8	11·0	56·4	51·9	·388	4·3	0·8	85	533	–	–	2·7	7	4	6	13	–	6·8	25	5·37
PLYMOUTH (Devon), John Merripield, Esq., F.R.A.S., F.M.S., LL.D.	69	July	30·117	0·735	84·0	46·0	38·0	72·2	57·6	14·6	63·6	57·0	·466	5·1	1·4	79	532	–	55·2	2·2	9	6	4	12	–	5·1	8	1·24
		Aug.	29·968	1·024	78·5	48·0	30·5	70·0	56·5	13·5	62·2	56·6	·460	5·2	1·1	82	530	–	54·2	1·6	8	8	4	11	–	6·0	12	4·37
		Sept.	29·817	1·279	67·5	44·0	23·5	63·0	51·0	12·0	55·7	53·2	·407	4·6	0·4	91	535	–	49·3	1·3	6	6	5	13	–	6·8	21	5·11
VENTNOR (Royal National Hospital), Isle of Wight, Hartley Sagar, Esq.	100	Jan.	30·235	0·793	55·4	26·1	29·3	45·9	35·8	10·1	40·0	37·2	·222	2·6	0·3	90	561	–	–	–	–	–	–	–	7·0	–	9	0·55
		Feb.	29·712	0·856	54·5	30·6	23·9	49·1	39·5	9·6	43·0	40·1	·249	2·8	0·4	90	548	–	–	–	–	–	–	–	7·4	–	19	3·38
		Mar.	29·626	1·311	57·8	28·9	28·9	50·9	38·0	12·9	43·1	38·5	·233	2·7	0·5	83	546	–	–	–	–	–	–	–	7·1	–	19	3·54
		April	29·834	1·479	66·0	32·5	33·5	57·4	42·8	14·6	48·0	43·8	·285	3·3	0·5	86	544	–	–	–	–	–	–	–	6·9	–	14	1·52
		May	30·106	0·717	72·4	35·1	37·3	62·7	44·2	18·5	51·3	43·2	·380	3·2	1·1	74	546	–	–	–	–	–	–	–	6·6	–	3	0·29
		June	29·989	0·498	80·7	44·3	36·4	68·8	52·3	16·5	58·2	50·8	·373	4·2	1·3	77	536	–	–	–	–	–	–	–	7·6	–	9	0·81
		July	30·082	0·660	90·1	52·3	37·8	74·6	58·3	16·3	64·4	56·6	·458	5·0	1·7	75	530	–	–	–	–	–	–	–	7·3	–	6	0·84
		Aug.	29·959	1·122	84·1	46·1	38·0	73·9	56·9	17·0	63·5	55·6	·443	4·9	1·5	76	529	–	–	–	–	–	–	–	7·6	–	11	4·03
		Sept.	29·813	0·936	72·8	41·1	31·7	67·3	53·2	14·1	58·8	55·5	·410	4·5	1·0	82	531	–	–	–	–	–	–	–	8·2	–	19	4·26
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	July	29·912	0·748	93·9	47·8	46·1	78·5	56·1	22·4	66·0	61·1	·540	5·9	1·1	85	525	134·0	51·6	0·2	5	3	8	15	–	4·2	4	0·39
		Aug.	29·776	1·150	92·3	44·9	47·4	75·2	54·7	20·5	63·7	56·4	·456	5·0	1·5	78	526	129·7	49·6	0·2	5	7	7	12	–	4·0	13	3·02
		Sept.	29·617	1·082	74·2	42·0	32·2	66·2	50·9	15·3	57·0	54·7	·430	4·7	0·5	91	530	119·6	45·7	0·2	3	3	10	14	–	6·5	20	4·14
SOUTH BOURNE, (near) Bournemouth (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	128	July	29·998	0·760	87·6	49·0	38·6	71·9	56·7	15·2	63·2	52·1	·390	4·4	2·1	67	531	–	–	–	10	2	6	13	–	2·4	7	0·46
		Aug.	29·851	1·120	84·1	42·8	41·3	69·9	54·8	15·1	61·6	51·2	·376	4·1	1·9	69	530	–	–	–	7	6	4	14	–	1·8	10	3·84
		Sept.	29·683	0·970	67·3	44·0	23·3	63·9	51·5	12·4	57·0	50·8	·372	4·1	1·1	79	531	–	–	–	3	3	5	19	–	3·7	21	4·20
BRIGHTON (Sussex), F. E. Sawyer, Esq., F.M.S.	206	Apr.	29·652	1·587	66·0	29·7	36·3	55·0	42·0	13·0	47·7	41·7	·264	3·1	0·7	80	541	96·2	37·6	0·9	6	5	12	7	–	5·8	14	1·88
		May	29·897	0·836	66·6	33·1	33·5	56·3	42·2	14·1	48·5	39·3	·243	2·8	1·1	71	546	104·7	39·6	1·3	12	8	5	6	–	6·0	6	0·98
		June	29·778	0·543	77·8	41·0	36·8	66·6	51·4	15·2	58·2	48·3	·340	3·8	1·7	70	532	113·0	50·1	0·9	4	7	10	9	–	6·3	9	2·65
		July	29·850	0·738	79·2	49·6	29·6	71·8	57·1	14·7	62·8	55·8	·446	4·9	1·4	78	528	116·3	54·9	0·7	4	4	11	12	–	5·2	7	0·38
		Aug.	29·748	1·171	84·5	45·1	39·4	70·5	55·7	14·8	62·3	52·3	·393	4·3	1·9	70	527	116·7	52·8	1·0	6	5	9	11	–	4·2	9	4·04
		Sept.	29·586	1·165	69·0	45·6	23·4	63·9	51·5	12·4	56·7	51·3	·379	4·2	0·9	82	530	102·5	48·6	1·2	3	2	9	16	–	7·2	19	4·42
HASTINGS (Sussex), Alex. E. Murray, Esq., F.M.S.	167	July	29·918	0·756	81·2	49·5	31·7	70·4	55·8	14·6	62·0	54·2	·421	4·6	1·6	76	530	–	52·8	1·5	7	5	7	12	–	5·4	7	0·44
		Aug.	29·775	1·182	86·1	44·1	42·0	70·4	55·3	15·1	62·1	53·4	·409	4·5	1·7	74	528	–	51·9	1·8	9	5	7	10	–	4·1	14	3·37
		Sept.	29·637	1·137	67·6	43·1	24·5	63·1	50·9	12·2	56·2	50·6	·369	4·2	0·9	82	531	–	46·4	1·7	3	3	8	16	–	5·7	19	3·68
TAUNTON (Somerset), James Bottomley, Esq.	80	Sept.	29·724	1·318	72·0	42·0	30·0	64·8	51·3	13·5	57·0	53·2	·405	4·5	0·7	87	532	76·8	47·2	0·2	6	2	7	15	2·5	6·2	23	5·36
SALISBURY (Wilton House), T. Challis, Esq.	186	July	–	–	93·0	42·5	50·5	79·7	52·3	27·4	64·3	57·4	·472	5·2	1·4	78	–	131·8	49·2	1·7	8	3	2	18	–	5·4	5	0·37
		Aug.	29·740	1·196	93·0	37·5	55·5	76·3	50·2	26·1	62·2	53·3	·408	4·5	1·7	73	527	124·3	47·6	1·6	7	3	2	19	–	4·6	11	2·45
		Sept.	29·573	1·194	78·0	38·5	39·5	67·0	47·3	19·7	56·1	50·1	·364	4·1	0·9	80	530	104·3	44·2	1·6	7	1	6	16	–	6·6	18	5·06

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1876. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
BARNSTAPLE (Devon), T. Mackrell, Esq.	43	July	30·050	0·760	94·0	47·5	46·5	72·9	59·1	13·8	65·7	54·6	·428	4·7	2·2	68	529	–	–	1·2	4	2	13	12	–	3·2	10	1·27
		Aug.	29·968	1·080	89·0	50·0	39·0	74·3	59·4	14·9	64·2	55·6	·443	5·0	1·7	74	528	–	–	1·4	4	7	9	11	–	4·4	13	2·74
		Sept.	29·750	1·190	74·0	49·0	25·0	65·5	54·6	10·9	58·4	53·8	·415	4·6	0·9	85	531	–	–	1·5	5	2	8	15	–	3·9	24	5·77
CATERHAM (Surrey), James Adam, Esq., M.D.	660	July	29·440	0·800	–	45·0	–	–	55·1	–	–	–	–	–	–	–	–	85·1	–	1·7	8	4	6	13	0·3	2·1	8	0·75
		Aug.	29·304	1·150	–	42·0	–	–	52·5	–	–	–	–	–	–	–	–	83·8	–	1·5	7	5	7	12	0·6	2·6	11	3·38
		Sept.	29·156	1·050	–	40·0	–	–	48·8	–	–	–	–	–	–	–	–	71·1	–	2·2	8	1	6	15	0·3	4·0	24	4·50
RAMSGATE (St. Augustine's Monastery), Rev. T. Hugh Quelch, O.S.B.	108	July	29·983	0·803	85·7	49·7	36·0	72·1	57·4	14·7	63·3	56·4	·457	5·1	1·4	79	530	121·6	54·4	1·7	7	8	9	7	–	6·0	5	0·38
		Aug.	29·844	1·184	79·9	43·1	36·8	70·6	56·9	13·7	62·7	55·8	·447	5·0	1·4	78	528	119·3	52·0	1·9	9	7	8	7	–	4·4	12	1·70
		Sept.	29·697	1·044	69·5	43·5	26·0	63·6	51·4	12·2	56·8	51·4	·380	4·2	0·9	82	532	105·3	44·3	1·7	0	2	13	9	–	5·9	15	2·93
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	July	29·881	0·768	91·2	43·0	48·2	77·0	54·2	22·8	64·5	54·6	·427	4·7	1·9	70	527	128·0	51·2	0·6	9	4	7	11	3·5	4·4	6	1·28
		Aug.	29·760	1·138	94·5	40·8	53·7	74·9	54·9	20·0	63·2	53·8	·415	4·6	1·8	72	526	117·6	50·7	0·6	7	7	4	13	3·5	4·0	10	2·87
		Sept.	29·596	1·044	71·2	38·2	33·0	64·4	48·3	16·1	55·7	51·0	·374	4·2	0·7	85	531	110·5	43·4	0·6	9	5	5	11	3·0	5·9	21	4·19
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	Sept.	29·654	1·133	72·8	39·5	33·3	65·8	47·1	18·7	55·6	50·7	·370	4·2	0·8	85	532	101·7	46·4	0·7	3	2	16	9	0·9	5·5	23	2·57
EAST TILBURY Vicarage (Essex), Rev. R. Tyas, M.A., LL.D.	29	July	30·061	0·724	95·5	42·0	53·5	83·9	56·7	27·2	67·4	59·9	·514	5·6	1·8	77	526	126·6	51·0	0·4	7	5	10	9	–	4·9	5	0·33
		Aug.	29·916	1·216	96·0	40·0	56·0	78·7	53·7	25·0	64·8	55·1	·435	4·8	2·0	71	527	113·2	50·6	0·3	4	10	7	10	–	4·8	9	1·65
		Sept.	29·766	0·896	75·0	39·9	35·1	67·5	49·3	18·2	57·7	53·0	·401	4·5	0·5	84	532	89·3	45·4	0·1	0	1	10	19	–	7·2	22	1·84
MARLBOROUGH, The Green (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	474	July	29·587	0·750	90·7	48·8	41·9	75·9	54·6	21·3	64·0	56·5	·457	5·1	1·5	77	522	126·3	50·7	0·1	7	4	8	12	–	4·6	7	0·57
		Aug.	29·440	1·188	92·0	39·8	52·2	72·9	52·0	20·9	61·3	54·4	·424	4·7	1·4	79	522	122·3	48·0	0·2	8	4	6	13	–	4·9	12	4·67
		Sept.	29·288	1·131	71·5	40·8	30·7	63·8	48·7	15·1	55·3	51·4	·379	4·2	0·7	87	526	108·1	45·1	0·2	7	3	4	16	–	7·1	24	6·38
BECKENHAM (Kent), C. O. F. Cator, Esq., M.A., F.M.S.	170	July	29·914	0·823	94·1	39·5	54·6	80·4	53·2	27·2	64·6	56·2	·453	5·0	1·7	74	527	–	–	–	6	5	6	14	–	–	6	0·33
		Aug.	29·783	1·213	96·1	38·2	57·9	76·9	51·2	25·7	62·3	54·9	·432	4·8	1·5	77	527	–	–	–	4	9	7	11	–	–	10	2·43
		Sept.	29·604	1·111	75·1	38·0	37·1	66·9	46·3	20·6	55·5	50·7	·370	4·2	0·8	85	531	–	–	–	5	4	8	13	–	–	25	2·52
BLACKHEATH (London), James Glaisher, Esq., F.R.S.	160	July	29·897	0·800	90·3	45·9	44·4	77·7	56·1	21·6	65·0	54·6	·427	4·7	2·1	70	527	119·2	53·3	1·1	5	2	10	14	–	4·7	7	0·72
		Aug.	29·768	1·250	89·6	42·1	47·5	74·5	54·2	20·3	62·9	53·7	·413	4·6	1·8	72	527	115·4	52·1	1·3	7	7	9	8	–	4·7	13	2·02
		Sept.	29·613	1·086	72·1	41·9	30·2	65·3	48·9	16·4	55·8	49·6	·357	4·0	1·0	81	531	98·7	46·0	1·1	6	5	8	11	–	5·9	22	2·73
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.A.S., F.M.S.	150	July	29·923	0·774	93·4	43·8	49·6	79·3	55·2	24·1	65·2	56·6	·460	5·1	1·8	75	527	–	–	1·8	9	3	6	13	–	4·6	9	1·23
		Aug.	29·788	1·170	95·3	40·7	54·6	75·7	53·5	22·2	62·7	55·2	·435	4·9	1·4	77	527	–	–	1·3	9	5	6	11	–	4·1	11	5·04
		Sept.	29·628	1·086	72·2	39·4	32·8	65·1	50·5	14·6	56·6	51·6	·383	4·3	0·8	83	531	–	–	1·8	8	5	6	11	–	5·3	24	5·27
CHISWICK (Middlesex), J. K. L. M. Farquhar, Esq.	25	July	30·050	0·808	93·0	40·2	52·8	79·1	53·8	25·3	65·1	57·1	·469	5·1	1·6	76	529	157·1	48·7	0·6	3	5	8	15	–	6·1	5	0·80
		Aug.	29·914	1·236	94·5	36·5	58·0	75·8	51·9	23·9	62·3	56·2	·452	5·0	1·2	80	529	122·6	46·9	0·9	5	8	6	12	–	5·2	11	1·83
		Sept.	29·751	1·052	73·5	37·0	36·5	68·4	47·4	21·0	56·0	51·2	·378	4·3	0·7	84	534	114·1	44·6	0·8	4	3	7	16	–	6·8	17	2·52
CAMDEN SQUARE (London), G. J. Symons, Esq., F.M.S.	123	July	29·950	0·794	92·6	47·3	45·3	78·7	56·7	22·0	65·8	54·9	·432	4·8	2·2	69	527	131·1	53·5	—	8	3	6	14	–	4·9	7	0·82
		Aug.	29·803	1·216	92·3	43·8	48·5	76·0	54·4	21·6	63·6	53·9	·415	4·6	1·8	71	526	126·3	50·6	—	11	1	8	11	–	4·9	12	1·79
		Sept.	29·652	1·064	71·4	41·3	30·1	65·5	49·4	16·1	56·2	51·2	·378	4·2	0·8	83	532	104·9	45·6	—	11	0	5	14	–	6·2	22	2·86
OXFORD OBSERVATORY, Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	July	29·829	0·786	89·2	46·6	42·6	76·1	55·6	20·5	65·6	54·5	·426	4·7	2·2	69	525	122·8	51·6	0·6	6	2	7	16	2·4	5·5	10	0·85
		Aug.	29·690	1·195	90·3	41·3	49·0	73·2	53·3	19·9	63·0	52·7	·398	4·4	2·0	69	525	125·1	49·5	0·8	5	6	7	13	4·2	5·7	12	2·68
		Sept.	29·549	1·073	69·7	42·0	27·7	63·3	49·6	13·7	56·0	51·0	·375	4·2	0·8	83	530	111·5	47·2	0·8	5	2	8	15	1·8	7·5	20	5·59
GLOUCESTER, E. Toller, Esq., M.D.	100	July	30·009	0·830	96·0	43·0	53·0	80·8	55·7	25·1	66·0	56·1	·449	5·0	2·0	71	528	130·1	51·8	0·4	7	5	4	15	1·1	4·6	4	0·43
		Aug.	29·873	1·280	95·0	41·0	54·0	76·7	50·9	25·8	61·3	56·7	·460	5·1	1·0	85	530	119·9	47·0	0·6	9	4	4	14	2·5	5·3	7	1·60
		Sept.	29·720	1·094	76·0	40·5	35·5	66·8	48·1	18·7	56·3	53·0	·402	4·5	0·5	89	533	102·5	42·9	0·6	9	5	4	12	1·5	6·5	19	3·59
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	July	29·804	0·840	92·7	44·0	48·7	79·1	52·2	26·9	64·2	53·9	·414	4·7	2·0	69	526	–	–	–	7	3	7	14	–	5·3	9	0·86
		Aug.	29·683	1·166	94·8	39·6	55·2	76·3	50·8	25·5	62·4	52·2	·391	4·3	1·9	70	526	–	–	–	6	5	9	11	–	5·1	10	1·45
		Sept.	29·515	1·063	72·6	40·0	32·6	64·9	47·5	17·4	54·5	49·4	·351	4·0	0·8	82	531	–	–	–	5	4	7	14	–	6·3	18	4·43
CARDINGTON (near Bedford), Mr. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	105	July	29·952	0·864	91·0	43·6	47·4	78·7	55·1	23·6	66·7	53·7	·413	4·6	2·5	65	526	119·0	48·5	1·3	7	2	7	15	–	5·0	7	1·45
		Aug.	29·816	1·244	93·0	39·4	53·6	75·1	51·9	23·2	63·0	54·0	·417	4·6	1·8	73	527	111·0	45·5	1·5	3	8	5	15	–	4·4	12	2·20
		Sept.	29·663	1·050	73·0	38·0	35·0	63·8	47·8	16·0	55·0	51·5	·381	4·3	0·6	88	533	91·0	42·8	1·4	9	2	6	13	–	6·7	22	5·20

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1876. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
LAMPETER (Cardiganshire), St. David's College, Prof. A. W. Scott, M.A.	420	July	29·647	0·784	90·0	32·0	58·0	74·7	48·5	26·2	61·4	53·6	·411	4·6	1·5	76	526	110·4	–	–	4	1	11	15	–	–	8	2·42
CAMBRIDGE, J. W. L. Glaisher, Esq., M.A., F.R.S.	40	July	29·994	0·866	91·2	45·0	46·2	78·4	54·9	23·5	65·3	53·1	·404	4·5	2·4	65	528	148·8	49·4	1·6	7	1	9	14	–	4·9	10	0·81
		Aug.	29·861	1·286	95·1	39·6	55·5	76·2	51·6	24·6	62·0	56·4	·456	5·1	1·1	82	529	146·0	46·5	1·6	4	7	9	11	–	4·6	15	1·60
		Sept.	29·709	1·062	72·8	37·3	35·5	65·0	48·6	16·4	55·8	50·9	·375	4·2	0·8	85	533	115·7	44·9	1·4	6	3	10	11	–	6·3	22	3·77
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	50	July	29·997	0·922	84·0	46·1	37·9	73·6	53·0	20·6	61·9	56·9	·462	5·1	1·1	84	531	–	45·2	1·1	7	6	9	9	6·8	4·4	7	1·92
		Aug.	29·868	1·304	87·0	43·4	43·6	72·7	52·8	19·9	61·2	53·7	·413	4·7	1·4	77	530	–	43·9	1·1	5	9	9	8	7·1	3·9	10	1·60
		Sept.	—	—	73·0	40·6	32·4	63·7	48·2	15·5	54·9	50·4	·365	4·0	0·8	83	–	–	40·1	1·1	6	4	7	13	7·6	6·6	23	5·08
NORWICH (Norfolk), John Quinton, Esq., Jun.	42	July	30·001	0·860	84·5	51·0	33·5	73·9	56·0	17·9	63·6	58·5	·492	5·5	1·1	84	530	–	–	–	7	5	9	10	–	–	8	2·07
		Aug.	29·872	1·276	87·0	42·0	45·0	72·5	54·5	18·0	62·1	55·2	·437	4·9	1·4	78	529	–	–	–	3	11	8	9	–	–	12	1·66
		Sept.	29·708	1·068	70·0	43·0	27·0	62·0	49·5	12·5	54·7	53·3	·408	4·6	0·3	95	534	–	–	–	5	4	7	14	–	–	21	4·96
LEICESTER (Town Museum), W. J. Harrison, Esq., F.G.S.	245	July	29·789	0·832	87·9	43·7	44·2	74·0	55·0	19·0	63·8	52·1	·389	4·3	2·2	66	526	130·0	48·8	0·8	5	2	9	15	–	6·0	8	0·60
		Aug.	29·656	1·279	91·9	38·0	53·9	71·7	52·2	19·5	61·5	50·7	·370	4·1	1·9	69	526	124·5	–	1·0	4	8	7	12	–	5·7	12	2·11
		Sept.	29·499	0·969	70·7	41·8	28·9	62·0	49·4	12·6	54·8	48·1	·336	3·8	1·0	78	531	106·4	42·4	1·0	5	5	7	13	–	6·7	22	5·26
WISBECH (Cambridgeshire), S. H. Miller, Esq., F.R.A.S., F.M.S.	14	July	30·024	0·936	87·7	45·3	42·4	76·8	55·0	21·8	65·3	55·5	·441	4·8	2·0	71	529	123·4	51·4	0·6	5	1	11	14	3·0	4·8	7	1·71
		Aug.	29·897	1·302	92·0	41·3	50·7	74·8	52·7	22·1	63·1	53·2	·405	4·5	1·9	70	529	119·8	48·5	0·6	7	5	8	11	3·8	4·4	13	1·82
		Sept.	29·737	1·082	70·8	41·7	29·1	63·3	48·9	14·4	54·8	52·0	·390	4·4	0·5	90	534	104·6	44·9	0·5	5	4	7	14	3·4	6·6	23	3·64
NOTTINGHAM, M.O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	183	June	29·766	0·548	85·8	36·5	49·3	70·7	47·7	23·0	57·7	48·4	·340	3·8	1·5	71	532	123·9	44·3	0·4	8	4	6	12	3·5	5·5	15	1·67
		July	29·833	0·816	92·2	41·3	50·9	77·8	53·3	24·5	63·8	54·2	·422	4·7	1·9	72	527	129·1	49·8	0·4	6	2	9	14	1·9	5·8	8	0·94
		Aug.	29·707	1·304	93·6	36·7	56·9	73·9	50·8	23·1	60·7	52·1	·390	4·4	1·6	73	528	119·5	47·6	0·3	6	8	7	10	2·0	5·2	17	1·71
		Sept.	29·546	0·926	73·7	36·0	37·7	63·4	47·1	16·3	54·4	48·5	·340	3·9	0·9	80	532	102·4	43·5	0·4	9	6	3	12	1·2	6·5	26	3·77
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	100	July	29·948	0·930	86·6	48·9	37·7	70·7	55·0	15·7	61·1	53·1	·404	4·5	1·5	75	532	–	–	0·6	4	2	4	21	–	5·5	8	2·28
		Aug.	29·797	1·146	85·8	48·6	37·2	70·1	54·9	15·2	61·0	53·5	·410	4·6	1·4	77	529	–	–	0·8	4	4	6	17	–	5·6	13	2·75
		Sept.	29·654	0·900	74·6	41·5	33·1	62·5	51·1	11·4	55·8	49·6	·357	4·0	1·0	81	532	–	–	0·8	7	4	4	15	–	7·2	24	4·06
CALCETHORPE MANOR (near) Louth (Lincolnshire), D. Grant Briggs, Esq., F.M.S.	382	July	29·631	0·874	83·2	43·6	39·6	70·6	52·4	18·2	59·9	54·7	·428	4·8	1·0	83	527	128·4	48·4	0·9	6	3	8	14	6·1	6·2	13	1·66
		Aug.	29·507	1·295	81·9	42·1	39·8	67·7	51·1	16·6	58·5	51·7	·383	4·3	1·2	78	527	123·8	47·4	0·8	3	10	7	11	8·4	4·9	15	3·23
		Sept.	29·344	1·010	67·8	41·9	25·9	59·5	47·3	12·2	52·3	48·3	·339	3·8	0·6	86	530	107·4	45·0	1·0	7	3	7	13	7·7	6·9	23	3·69
LIVERPOOL OBSERVATORY, John Hartnup, Esq., F.R.A.S.	197	July	29·837	0·912	84·8	50·3	34·5	68·0	55·8	12·2	60·5	50·6	·369	4·1	1·8	70	530	–	–	1·2	4	3	8	16	–	5·1	11	1·86
		Aug.	29·684	1·203	84·6	46·2	38·4	67·9	54·7	13·2	59·8	50·8	·371	4·1	1·6	72	528	–	–	1·3	3	6	6	16	–	5·2	12	3·09
		Sept.	29·536	0·964	71·0	42·0	29·0	60·1	50·3	9·8	54·2	48·7	·342	3·9	0·9	81	532	–	–	1·2	6	7	3	14	–	5·6	21	3·55
ECCLES (near Manchester), T. Mackereth, Esq., F.R.A.S., F.M.S.	145	July	29·883	0·858	93·0	41·2	51·8	72·0	51·7	20·3	60·8	52·4	·394	4·4	1·4	74	531	89·3	44·8	0·1	8	1	5	17	1·3	6·1	16	3·25
		Aug.	29·746	1·338	90·3	36·0	54·3	70·8	50·7	20·1	59·5	52·1	·389	4·4	1·3	77	530	85·4	43·9	0·4	7	4	7	13	1·5	6·8	18	3·60
		Sept.	29·595	0·920	75·6	38·9	36·7	62·5	46·7	15·8	53·8	47·7	·331	3·7	0·9	79	533	74·5	40·0	0·3	9	5	6	10	1·2	6·7	22	3·75
BERMERSIDE OBSERVATORY, HALIFAX (Yorkshire), Edward Crossley, Esq., F.R.A.S.	520	July	29·461	0·920	90·3	43·0	47·3	72·6	51·0	21·6	60·7	51·9	·387	4·3	1·6	72	523	116·2	–	0·6	3	3	10	15	–	4·6	11	1·64
		Aug.	29·351	1·362	87·3	37·4	49·9	70·1	49·6	20·5	58·4	50·1	·363	4·1	1·4	75	524	114·8	–	0·6	2	9	9	11	–	5·5	9	3·32
		Sept.	29·194	0·964	—	42·0	—	58·4	44·3	14·1	50·6	46·9	·322	3·7	0·7	88	531	95·3	–	0·4	6	7	7	10	–	6·7	21	5·05
HULL (Yorkshire), Mr. E. Peak.	12	July	29·994	0·964	87·0	46·0	41·0	73·6	54·1	19·5	62·2	55·3	·437	4·9	1·4	79	531	98·9	51·0	–	–	–	–	–	1·3	–	11	2·49
		Aug.	29·894	1·392	83·0	44·0	39·0	69·5	51·9	17·6	60·0	52·4	·393	4·4	1·4	76	532	100·0	47·3	–	–	–	–	–	2·0	–	8	1·50
		Sept.	29·716	0·980	69·0	42·0	27·0	61·4	48·9	12·5	54·5	49·5	·354	4·0	0·8	83	535	85·2	45·1	–	–	–	–	–	1·2	–	20	3·12
STONYHURST (Lancashire), Rev. S. J. Perry, F.M.S., F.R.S., F.R.A.S.	363	July	29·636	0·908	87·2	42·1	45·1	70·3	52·2	18·1	59·8	53·4	·409	4·6	1·2	80	527	127·4	50·6	–	1	1	8	21	–	6·5	14	5·32
		Aug.	29·498	1·381	84·1	38·1	46·0	68·8	51·2	17·6	59·7	53·1	·404	4·5	1·2	80	525	123·5	49·6	–	7	6	6	12	–	6·1	18	4·31
		Sept.	29·347	0·944	72·4	39·5	32·9	63·8	49·5	14·3	55·5	46·9	·323	3·6	1·1	74	527	111·8	44·9	–	9	6	3	12	–	7·4	23	5·38
LEEDS (Philosophical Hall) (Yorkshire), Louis C. Miall, Esq.	137	July	29·858	1·002	92·0	47·0	45·0	76·5	55·9	20·6	64·8	56·8	·462	5·1	1·7	74	526	100·8	–	1·3	4	4	7	16	–	3·5	11	1·78
		Aug.	29·746	1·628	94·0	43·0	51·0	73·1	53·1	20·0	62·5	54·2	·420	4·6	1·7	74	527	102·0	–	1·5	4	9	5	13	–	4·3	9	1·80
		Sept.	29·585	0·964	73·0	43·0	30·0	62·7	48·6	14·1	54·6	51·4	·380	4·3	0·5	89	532	87·1	–	1·5	6	7	7	10	–	5·1	20	3·18

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1876. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	366	July	29·645	0·958	87·6	48·1	39·5	71·4	55·9	15·5	62·2	49·0	·348	3·9	2·2	62	526	104·1	–	0·6	5	4	3	19	–	5·4	13	1·33
		Aug.	29·503	1·353	83·6	44·0	39·6	68·6	53·6	15·0	59·4	48·7	·343	3·9	1·8	68	526	93·2	–	0·7	3	7	4	17	–	4·9	13	2·78
		Sept.	29·361	0·949	66·4	44·2	22·2	59·3	49·2	10·1	53·2	46·4	·315	3·6	1·2	78	530	76·7	–	1·1	8	7	2	13	–	7·5	21	2·91
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.R.A.S., F.M.S.	146	July	29·839	0·968	85·4	44·6	40·8	68·6	52·8	15·8	59·3	49·3	·351	3·9	1·7	69	532	112·1	45·4	0·5	4	2	10	15	1·5	6·0	13	2·25
		Aug.	29·690	1·369	88·3	43·6	44·7	68·7	51·7	17·0	59·0	50·8	·372	4·1	1·4	75	530	108·3	44·2	0·3	4	8	8	11	1·9	4·9	12	3·82
		Sept.	29·572	0·954	74·5	37·8	36·7	60·9	47·7	13·2	53·6	47·5	·327	3·6	0·9	80	533	92·8	39·3	0·2	8	3	7	12	1·5	6·8	22	4·59
ALLENHEADS (Northumberland), Mr. T. Kidd, Assistant to W. B. Beaumont, Esq., M.P.	1360	July	28·616	0·991	–	43·0	–	–	48·8	–	–	–	–	–	–	–	–	124·5	45·4	1·3	5	5	6	15	–	5·8	16	2·04
		Aug.	28·483	1·306	–	33·0	–	–	48·2	–	–	–	–	–	–	–	–	117·4	43·9	1·1	4	5	11	11	–	5·1	13	3·26
		Sept.	28·337	0·992	–	37·0	–	–	43·7	–	–	–	–	–	–	–	–	92·8	39·9	0·8	7	4	8	11	–	6·7	26	5·42
SILLOTH RECTORY (Cumberland), Rev. Francis Redford, M.A., F.R.A.S., F.M.S.	28	July	29·967	0·981	85·7	42·9	42·8	73·3	51·4	21·9	60·4	52·9	·402	4·5	1·4	77	533	108·0	48·4	1·5	3	3	11	14	6·5	4·7	13	2·02
		Aug.	29·854	1·389	88·5	37·4	51·1	73·9	50·8	23·1	60·2	53·7	·412	4·6	1·2	79	531	109·0	47·3	1·5	4	8	9	10	8·8	3·6	12	3·88
		Sept.	29·707	1·039	77·2	39·0	38·2	65·6	47·0	18·6	54·8	48·9	·346	4·0	0·9	80	534	99·4	43·1	1·4	5	5	9	11	5·5	5·5	18	3·32
CARLISLE (Cumberland), Isaac Cartmell, Esq., F.M.S.	114	July	29·765	0·988	85·5	42·4	43·1	70·0	50·2	19·8	59·9	52·2	·392	4·4	1·1	76	532	107·0	45·4	1·8	2	2	6	21	5·3	5·9	15	2·50
		Aug.	29·730	1·302	91·2	36·5	54·7	70·3	48·3	22·0	60·1	49·8	·358	3·9	1·8	69	529	106·9	43·3	1·9	4	6	7	14	5·4	5·6	13	2·92
		Sept.	29·611	1·034	78·0	35·9	42·1	62·0	45·5	16·5	53·0	47·0	·322	3·6	0·9	80	534	93·6	40·3	1·3	8	7	5	10	4·5	6·9	23	3·14
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	July	29·846	1·036	87·0	51·0	36·0	72·4	56·6	15·8	62·1	52·6	·398	4·4	1·8	71	529	101·3	51·1	1·3	9	4	3	15	–	3·8	11	1·82
		Aug.	29·737	1·482	85·0	37·0	48·0	71·2	53·3	17·9	59·6	50·9	·373	4·2	1·5	73	530	102·5	47·7	1·2	10	4	3	14	–	3·4	7	2·01
		Sept.	29·602	1·072	70·0	43·0	27·0	62·1	49·3	12·8	55·6	49·5	·354	4·0	0·6	86	534	77·7	43·7	1·1	5	6	4	15	–	5·8	26	3·67
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	July	29·923	0·993	82·5	47·5	35·0	66·9	54·2	12·7	59·0	50·6	·369	4·2	1·4	74	533	–	52·8	1·3	7	4	5	15	–	5·9	15	2·74
		Aug.	29·803	1·383	71·8	39·6	32·2	61·9	51·1	10·8	56·1	48·7	·346	3·9	1·1	76	535	–	50·2	1·5	8	6	7	10	–	4·6	10	1·28
		Sept.	29·670	1·187	64·0	41·0	23·0	57·2	48·0	9·2	52·0	46·7	·320	3·6	0·8	82	537	–	47·0	1·8	10	6	4	10	–	7·8	23	2·74
MILLTOWN Banbridge, (Ireland), John P. Smyth, Esq., Jun., M.A., M.I.C.E.I., F.G.S.	200	July	29·674	0·929	86·0	39·0	47·0	68·5	50·0	18·5	58·0	50·1	·362	4·0	1·4	75	530	129·7	45·9	2·0	7	2	11	11	–	4·6	13	2·06
		Aug.	29·551	1·350	79·0	41·0	38·0	66·7	49·9	16·8	57·8	49·0	·348	3·9	1·4	72	528	123·3	45·3	2·2	8	4	10	9	–	4·5	14	2·87
		Sept.	29·422	0·927	66·0	54·0	32·0	59·4	46·7	12·7	52·7	47·0	·322	3·6	0·8	81	532	117·4	42·0	1·7	8	5	7	10	–	5·9	17	3·43

NOTE.—*The Barometer Reading*, GLOUCESTER, 1st August, 9h. a.m., 39·944 in., has been altered to 29·944 in.
" " HELSTON, 7th " 9h. a.m., 29·250 in., " 30·250 in.
" " " 25th September, 9h. a.m., 29·020 in., " 30·020 in.
" " CHISWICK, 28th " 3h. p.m., 39·374 in., " 29·374 in.

The Minimum Thermometer Reading, GLOUCESTER, 25th August, 31°·0, has been altered to 41°·0.

Second Rain-gauges are placed—

				July.	August.	September.	Total during the Quarter.
At Beckenham,	at the height of 50 feet	*above the ground*,	the amount collected was	0·18 inches.	2·22 inches.	2·34 inches.	4·74 inches.
" Strathfield Turgiss,	" 38 feet	"	"	0·79 "	2·12 "	2·95 "	5·86 "
" Oxford,	" 22 feet	"	"	0·86 "	2·62 "	5·47 "	8·95 "
" Cardington,	" 36 feet	"	"	1·00 "	1·70 "	4·50 "	7·20 "
" Wisbech,	" 8 feet	"	"	1·69 "	1·79 "	3·55 "	7·03 "
" Nottingham,	" 39 feet	"	"	0·87 "	1·46 "	3·40 "	5·73 "
" Eccles (Manchester),	" 34 feet	"	"	2·91 "	2·94 "	3·33 "	9·18 "
" Milltown (Ireland),	" 40 feet	"	"	— "	— "	3·17 "	— "

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°										in.
Guernsey	29·544	79·0	46·0	33·0	66·5	56·0	25·5	10·5	59·7	55·7	·444	4·9	0·8	87	530	—	—	1·4	7	5	9	10	3·7	4·1	40	7·39
Helston	29·622	94·0	42·0	52·0	71·4	52·4	39·0	19·1	60·5	50·2	·366	4·1	1·8	69	532	103·6	49·3	2·0	7	5	9	10	5·1	4·9	40	9·68
Truro	29·541	86·0	39·0	47·0	69·5	54·7	35·0	14·9	60·1	53·0	·402	4·5	1·3	78	532	—	—	2·5	7	6	6	11	—	5·8	49	10·77
Plymouth	29·598	84·0	44·0	40·0	68·4	55·0	30·7	13·4	60·5	55·6	·444	5·0	1·0	84	532	—	52·9	1·7	8	7	4	12	—	5·9	41	10·72
Ventnor	29·514	90·1	41·1	49·0	71·9	56·1	35·8	15·8	62·2	55·2	·437	4·8	1·4	78	530	—	—	—	—	—	—	—	7·7	—	36	9·13
Osborne	29·481	93·9	42·0	51·9	73·3	53·9	41·9	19·4	62·2	57·4	·476	5·2	1·0	85	527	127·8	49·0	0·2	4	4	8	14	—	4·9	37	7·53
Bournemouth	29·601	87·6	42·8	44·8	68·6	54·3	34·4	14·3	60·6	51·4	·379	4·2	1·7	72	531	—	—	—	7	4	5	15	—	2·6	38	8·30
Brighton	29·534	84·5	45·1	39·4	68·7	54·8	30·8	13·9	60·6	53·1	·406	4·5	1·4	77	528	111·8	52·1	1·0	4	4	10	13	—	5·5	35	8·84
Hastings	29·561	86·1	43·1	43·0	68·0	54·0	32·7	14·0	60·1	52·7	·400	4·4	1·4	77	530	—	50·4	1·7	6	4	7	13	—	5·1	40	7·49
Salisbury	—	93·0	37·5	55·5	74·4	49·9	48·5	24·5	60·9	53·6	·415	4·6	1·3	77	—	120·1	47·0	1·6	7	2	3	18	—	5·5	34	7·88
Barnstaple	29·521	94·0	47·5	46·5	70·9	57·7	36·8	13·2	62·8	54·7	·429	4·8	1·6	76	529	—	—	0·4	4	4	10	13	—	3·8	47	9·73
Caterham	—	—	40·0	—	—	52·1	—	—	—	—	—	—	—	—	—	80·0	—	1·8	8	3	6	13	0·4	2·9	43	8·93
Ramsgate	29·531	85·7	43·1	42·6	68·8	55·2	32·9	13·6	60·9	54·5	·428	4·8	1·2	80	530	115·4	50·2	1·8	7	6	10	8	—	5·4	42	5·01
Strathfield Turgiss	29·554	94·5	38·2	56·3	72·1	52·5	45·0	19·6	61·1	53·1	·405	4·5	1·5	76	528	118·7	48·4	0·6	8	5	5	12	3·3	4·8	37	5·84
East Tilbury	29·497	96·0	39·9	56·1	76·7	53·2	48·2	23·5	63·3	56·0	·450	4·7	1·4	77	528	109·7	49·0	0·3	4	5	9	12	—	5·6	36	3·82
Marlborough Green	29·511	92·0	39·8	52·2	70·9	51·8	41·6	19·1	60·2	54·1	·420	4·7	1·2	81	523	118·9	47·9	0·2	7	4	6	14	—	5·5	43	11·62
Beckenham	29·533	96·1	38·0	58·1	74·7	50·2	49·9	24·5	60·8	53·9	·418	4·7	1·3	79	528	—	—	—	5	6	7	12	—	—	41	5·52
Blackheath	29·533	90·3	41·9	48·4	72·5	53·1	40·7	19·4	61·2	52·6	·399	4·4	1·6	74	528	111·1	50·5	1·2	6	5	9	11	—	5·1	42	5·47
Streatley Vicarage	29·518	95·3	39·4	55·9	73·4	53·1	45·7	20·3	61·5	54·5	·426	4·8	1·3	78	528	—	—	1·6	9	4	6	12	—	4·7	44	11·23
Chiswick	29·499	94·5	36·5	58·0	74·4	51·0	49·1	23·4	61·1	54·8	·433	4·8	1·2	80	531	131·3	46·7	0·8	4	5	7	14	—	6·0	33	5·13
Camden Square	29·536	92·6	41·3	51·3	73·4	53·5	41·3	19·9	61·9	53·0	·408	4·5	1·6	74	528	120·8	49·9	—	10	1	6	13	—	5·3	41	5·47
Oxford	29·515	90·3	41·3	49·0	70·9	52·8	39·8	18·0	61·5	52·7	·400	4·4	1·7	74	527	119·8	49·4	0·7	5	3	7	15	2·8	6·2	42	9·12
Gloucester	29·540	96·0	40·5	55·5	74·8	51·6	47·5	23·2	61·2	55·3	·437	4·9	1·2	82	530	117·5	47·2	0·5	8	5	4	13	1·7	5·5	30	5·82
Royston	29·573	94·8	39·6	55·2	73·4	50·2	45·5	23·2	60·4	51·8	·385	4·3	1·6	77	528	—	—	—	6	4	8	13	—	5·6	37	6·74
Cardington	29·513	93·0	38·0	55·0	72·5	51·6	45·3	20·9	61·6	53·1	·404	4·5	1·6	75	529	107·0	45·6	1·4	6	4	6	14	—	5·4	41	8·85
Cambridge	29·486	95·1	37·3	57·8	73·2	51·7	45·7	21·5	61·0	53·5	·412	4·6	1·4	77	530	136·8	46·9	1·5	6	4	9	12	—	5·3	47	6·73
Semerleyton Rectory	—	87·0	40·6	46·4	70·0	51·3	38·0	18·7	59·3	53·7	·413	4·6	1·1	81	—	—	43·1	1·1	6	6	8	10	7·2	5·0	40	8·69
Norwich	29·460	87·0	42·0	45·0	69·5	53·3	35·2	16·2	60·1	55·7	·446	5·0	0·9	86	531	—	—	—	5	7	8	11	—	—	41	7·97
Leicester	29·548	91·9	38·0	53·9	69·2	52·2	42·3	17·0	60·0	50·3	·365	4·1	1·7	71	528	120·3	—	0·9	5	5	8	13	—	6·1	42	7·37
Wisbech	29·489	92·0	41·3	50·7	71·6	52·2	40·7	19·4	61·1	53·6	·412	4·6	1·5	77	531	115·9	48·3	0·6	6	3	9	13	3·4	5·3	43	6·42
Nottingham	29·504	93·6	36·0	57·6	71·7	50·4	48·5	21·3	59·6	51·6	·384	4·3	1·5	75	529	117·0	47·0	0·4	7	5	6	12	1·7	5·8	51	9·09
Llandudno	29·506	86·6	41·5	45·1	67·8	53·7	36·0	14·1	59·3	52·1	·390	4·4	1·3	78	531	—	—	0·7	5	3	5	18	—	6·1	43	8·35
Calcethorpe	29·523	83·2	41·9	41·3	65·9	50·3	35·1	15·6	56·9	51·6	·383	4·3	0·9	82	528	119·9	46·7	0·9	5	5	7	13	7·4	6·0	51	5·30
Liverpool	29·538	84·8	42·0	42·8	65·3	53·6	34·0	11·7	58·2	50·0	·361	4·0	1·4	74	530	—	—	1·2	4	5	6	15	—	5·3	44	10·60
Eccles	29·527	93·0	36·0	57·0	68·4	49·7	47·6	18·7	58·0	50·7	·371	4·2	1·2	77	531	83·1	42·9	0·3	8	3	6	13	1·3	6·5	56	10·01
Bermerside, Halifax	29·532	90·3	37·4	52·9	67·0	48·3	—	18·7	56·6	49·6	·357	4·0	1·2	78	525	108·8	—	0·5	4	6	9	12	—	5·6	41	7·11
Hull	29·486	87·0	42·0	45·0	68·2	51·6	35·7	16·5	58·9	52·4	·395	4·4	1·2	77	533	94·7	47·8	—	—	—	—	—	1·5	—	39	13·93
Stonyhurst	29·505	87·2	38·1	49·1	67·6	51·0	41·3	16·6	58·3	51·1	·379	4·2	1·2	78	526	120·9	48·4	—	6	4	6	15	—	6·7	55	6·76
Leeds	29·459	94·0	43·0	51·0	70·8	52·5	42·0	18·3	60·6	54·1	·421	4·7	1·3	79	528	96·6	—	1·4	5	7	6	13	—	4·3	40	7·06
Bradford	29·558	87·6	44·0	43·6	66·4	52·9	33·8	13·5	58·3	48·0	·339	3·8	1·7	79	527	91·3	—	0·8	5	6	3	16	—	5·9	47	10·86
Cockermouth	29·510	88·3	37·8	50·5	66·1	50·7	40·7	15·3	57·3	49·2	·350	3·9	1·3	75	532	104·7	43·0	0·3	5	4	8	13	1·6	4·9	47	10·72
Allenheads	—	—	33·0	—	—	46·9	—	—	—	—	—	—	—	—	—	111·6	43·1	1·1	5	5	8	12	—	5·9	55	9·22
Silloth	29·488	88·5	37·4	51·1	70·9	49·7	44·0	21·2	58·5	51·8	·386	4·4	1·2	79	533	105·5	46·3	1·5	4	5	10	12	6·9	4·6	43	8·36
Carlisle	29·501	91·2	35·9	55·3	67·4	48·0	46·6	19·4	57·7	49·7	·357	4·0	1·3	75	532	102·4	43·0	1·7	5	5	6	15	5·1	5·1	51	7·80
Bywell	29·449	87·0	37·0	50·0	68·6	53·1	37·0	15·5	58·4	51·0	·375	4·2	1·3	77	531	93·8	47·5	1·2	8	5	3	15	—	4·3	44	
North Shields	—	82·5	39·6	42·9	62·0	51·1	30·1	10·9	55·7	48·7	·345	3·9	1·1	77	535	—	50·0	1·5	8	5	5	12	—	6·1	48	6·76
Milltown (Ireland)	—	86·0	34·0	52·0	64·9	48·9	39·0	16·0	56·2	48·7	·344	3·8	1·2	76	530	123·5	44·4	2·0	8	4	9	10	—	4·7	44	5·38

The highest temperatures of the air were at Beckenham, 96°·1; and at Gloucester, 96°·0.
The lowest temperatures of the air were at Allenheads, 33°·0; and at Milltown (Ireland), 34°·0.
The greatest daily ranges of the temperatures of the air were at Salisbury and Beckenham, both 24°·5.
The least daily ranges of the temperatures of the air were at Guernsey, 10°·5; and at North Shields, 10°·9.
The greatest numbers of rainy days were at Eccles, 56; and at Stonyhurst and Allenheads, both 55.
The least numbers of rainy days were at Gloucester, 30; and at Chiswick, 33.
The heaviest falls of rain were at Stonyhurst, 15·01 inches; and at Marlborough, 11·62 inches.
The least falls of rain were at East Tilbury, 3·82 inches; and at Ramsgate, 5·01 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°										in.
Guernsey	29·544	79·0	46·0	33·0	66·5	56·0	25·5	10·5	59·7	55·7	·444	4·9	0·8	87	530	—	—	1·4	7	5	9	10	3·7	4·1	40	7·39
Between the latitudes 50° and 51°	29·556	88·3	42·4	45·9	70·0	54·4	35·0	15·6	60·9	53·6	·414	4·6	1·4	78	530	114·4	50·7	1·5	6	5	7	13	6·4	5·0	40	7·09
Between the latitudes 51° and 52°	29·523	93·1	40·3	52·8	72·9	52·7	43·6	20·2	61·4	54·1	·421	4·7	1·4	77	528	114·8	48·6	1·0	6	4	7	13	2·1	5·1	39	7·34
Between the latitudes 52° and 53°	29·510	91·8	39·1	52·7	71·4	51·6	42·6	19·8	60·4	52·9	·403	4·5	1·4	77	530	119·4	46·2	1·0	6	5	8	12	4·1	5·5	43	7·38
Between the latitudes 53° and 54°	29·509	88·3	40·2	48·1	67·6	51·3	38·8	16·3	58·4	51·4	·382	4·3	1·2	78	530	119·4	46·2	1·0	6	5	8	12	3·4	5·8	46	9·46
Between the latitudes 54° and 55°	29·501	88·5	38·4	50·1	67·9	50·9	40·4	17·0	58·0	49·9	·361	4·1	1·4	75	531	101·6	44·8	1·1	5	5	6	14	4·4	5·1	48	8·90
Mean for the Quarter, 50° to 55°, Year 1873	29·536	87·5	36·6	50·9	67·9	51·3	37·5	16·6	58·4	51·9	·389	4·3	1·2	79	529	103·9	45·5	1·0	4	3	9	15	4·2	5·6	49	8·09
Mean for the Quarter, 50° to 55°, " 1874	29·537	85·3	40·2	45·1	69·3	51·6	36·7	17·7	59·2	52·0	·389	4·4	1·3	78	529	108·8	46·2	1·2	4	4	9	14	3·6	5·6	47	10·27
Mean for the Quarter, 50° to 55°, " 1875	29·535	81·5	41·6	39·9	68·9	52·3	35·9	16·6	59·3	53·1	·405	4·5	1·2	80	531	101·8	48·1	1·2	6	8	7	10	3·5	5·9	45	8·45
Mean for the Quarter, 50° to 55°, " 1876	29·520	90·0	40·1	49·9	70·0	52·2	40·1	17·8	59·8	52·4	·396	4·4	1·4	77	530	110·8	47·4	1·1	6	5	7	13	4·1	5·3	43	

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING DECEMBER 31, 1876.

Remarks on the Weather during the Quarter ending December 31st, 1876.

By James Glaisher, Esq., F.R.S., *&c.*

Till the 20th of October the weather was warm with frequent rain, the average excess of mean temperature was $5\frac{1}{4}$° daily; from October 21st to November 12th, it was mostly cold, with but little rain, the average deficiency of temperature was $3\frac{1}{4}$° daily, and from November 13th to the end of the year, with the exception of the six days December 21st to December 26th, the weather was warm, and at times very warm, with very frequent rain; the average daily excess of temperature for the 38 days ending December 20th was $4\frac{1}{4}$°; the average deficiency for the six days ending December 26th was $3\frac{1}{4}$° daily, and the average excess for the last five days of the year was $12\frac{1}{4}$°.

The most remarkable phenomena in this quarter were, the very small atmospheric pressure, the high temperature, and the extraordinary falls of rain in the month of December.

At the height of 160 feet above the level of the sea, the mean reading of the barometer in December was 29·311 in., and back to 1841 there is no instance in any month of so low a reading, the least mean monthly atmospheric pressures previously experienced were 29·379 in. and 29·413 in. both in December, in the years 1868 and 1872 respectively.

The mean temperature of the air in December was 44°·1, and back to 1771 there have only been nine Decembers in which the temperature has been so high.

The fall of rain in December was exceedingly anomalous, at about London and its neighbourhood it amounted to nearly 6 in., and back to 1815 there has been no instance of so great a fall in December; the previous instances of monthly falls equalling this amount nearly, were 7·0 in. in July 1828; 6·0 in. in October 1841; 6·0 in. in November 1852: 5·8 in. in June 1860; and 5·8 in July 1867.

The fall of rain was large everywhere, rain fell on every day in December, but on the 10th to only a small amount and at a few places, on the 8th, 9th, 11th, 12th, 13th, 14th, 15th, and 22nd it fell to the amount of 0·2 in. or 0·3 in., but was not quite general; on every other day rain was general, and exceeded half an inch in amount at one or more places, and on 12 days the amount was one inch or more at at least one station. The following Table shows the fall of rain on those 12 days at the several stations:—

Fall of Rain at the different Stations on Twelve selected days.

Names of Stations.	December. 2nd.	3rd.	4th.	5th.	6th.	17th.	21st.	23rd.	24th.	26th.	27th.	31st.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Guernsey	0·82	0·20	0·61	0·35	1·20	0·14	1·48	0·13	0·30	0·03	0·55	0·08
Helston	0·15	1·00	1·21	0·13	0·08	0·07	0·06	0·00	0·12	0·08	0·95	0·10
Truro	0·35	1·10	1·03	0·19	0·20	0·22	0·15	0·13	0·24	1·69	0·55	0·55
Plymouth	0·59	0·36	0·53	0·25	0·30	0·79	0·14	0·00	0·11	0·00	0·22	0·42
Ventnor	0·48	0·56	0·29	0·51	0·48	0·48	0·30	0·69	0·02	0·48	0·43	0·02
Osborne	0·42	0·88	0·20	0·75	0·41	0·29	0·01	0·35	0·03	0·67	0·62	0·12
Bournemouth	0·40	0·38	0·96	0·15	0·33	0·27	0·50	0·01	0·43	0·00	0·61	0·20
Portsmouth	0·59	0·43	0·50	0·17	0·28	0·00	0·00	0·13	0·39	0·00	0·29	0·00
Hastings	0·35	0·44	0·49	0·68	0·43	0·14	0·76	0·88	0·00	0·37	0·25	0·05
Brighton	0·42	0·42	0·16	0·52	0·20	0·59	0·00	0·94	0·00	0·43	0·25	0·03
Taunton	0·28	0·95	0·25	0·55	0·00	0·69	0·00	0·00	0·00	0·70	0·36	0·00
Salisbury	0·33	0·83	0·31	0·67	0·26	0·29	0·00	0·49	0·00	0·94	0·63	0·35
Barnstaple	0·45	0·33	0·62	0·56	0·17	0·77	0·10	0·12	0·00	0·25	0·20	0·30
Caterham		2·12			0·00	0·40	0·33	0·00	—	0·00	1·75	0·07
Ramsgate	0·17	0·00	0·71	0·44	0·29	0·00	1·00	0·27	0·00	0·08	0·06	0·00
Strathfield Turgiss	0·23	0·44	0·07	0·45	0·27	0·22	0·00	0·32	0·00	0·33	0·19	0·19
Weybridge Heath	0·26	0·48	0·15	0·56	0·09	0·33	0·00	1·00	0·15	0·22	0·16	0·16
East Tilbury	0·30	0·58	0·10	0·53	0·16	0·17	0·05	1·43	0·09	0·22	0·01	0·03
Marlborough	0·38	0·42	0·66	0·15	0·43	0·07	0·18	0·27	0·00	0·00	0·48	0·31
Bristol	0·39	0·52	0·14	0·50	0·33	0·43	0·01	0·03	0·03	0·47	0·39	0·40
Blackheath	0·30	0·02	0·61	0·39	0·02	0·00	0·04	0·42	1·09	0·07	0·18	0·07
Royal Observatory	0·36	0·05	0·46	0·39	0·00	0·01	0·00	0·95	0·54	0·09	0·16	0·06
Streatley	0·33	0·38	0·54	0·04	0·58	0·21	0·27	—	—	—	0·31	0·24
Chiswick	0·32	0·30	0·43	0·10	0·25	0·09	0·61	0·00	1·49	0·28	0·08	0·20
Camden Square	0·31	0·37	0·13	0·27	0·06	0·31	0·00	1·61	0·14	0·32	0·09	0·11
Oxford	0·57	0·42	0·13	0·24	0·02	0·30	0·00	0·00	0·43	0·27	0·09	0·13
Gloucester	0·25	0·60	0·25	0·17	0·38	0·02	0·42	0·03	0·00	0·00	0·50	0·50
Royston	0·40	0·39	0·14	0·54	0·06	0·27	0·00	0·74	0·39	0·29	0·03	0·24
Cardington	0·39	0·16	0·12	0·24	0·00	0·30	0·00	0·65	0·31	0·25	0·01	0·10
Lampeter	0·21	0·75	0·43	0·14	0·33	1·09	0·00	—	0·00	0·00	0·97	1·42
Cambridge	0·09	0·35	0·21	0·16	0·21	0·00	0·18	0·02	0·23	0·00	0·21	0·09
Norwich	0·24	0·18	0·19	0·24	0·36	0·00	0·22	0·00	0·03	0·00	0·17	0·19
Leicester	0·07	0·49	0·19	0·14	0·24	0·33	0·19	0·00	0·64	0·01	0·22	0·35
Birmingham	—	0·62	0·44	0·19	0·47	—	—	—	—	—	—	0·61
Wolverhampton	0·57	0·46	0·12	0·26	0·02	0·91	0·00	0·00	0·01	0·34	0·16	—
Wisbech	0·47	0·25	0·03	0·10	0·00	0·20	0·00	0·09	0·08	0·31	0·02	0·06
Nottingham	0·10	0·60	0·20	0·10	0·39	0·45	0·13	0·01	0·35	0·01	0·20	0·33
Holkham	0·25	0·20	0·10	0·06	0·28	0·00	0·11	0·05	0·00	0·00	0·21	0·22
Llandudno	0·56	0·56	0·37	0·68	0·02	0·29	0·09	0·00	0·00	0·00	0·00	0·24
Sheffield	0·88	0·38	0·21	1·14	0·04	0·13	0·11	0·00	Snow.	Snow.	0·80	0·38
Calcethorpe	0·40	0·27	0·03	0·43	0·00	0·08	0·05	0·23	0·18	0·57	0·04	0·28
Liverpool	0·28	0·57	0·27	0·31	0·11	0·16	0·24	0·04	0·00	0·00	0·32	0·41
Manchester	0·32	0·09	0·26	0·74	0·04	0·01	0·25	0·00	—	—	—	0·22
Eccles	0·44	0·15	0·26	0·71	0·04	0·10	0·02	0·00	0·00	0·49	0·33	0·26
Bermerside	0·44	1·30	0·34	0·35	0·74	0·28	0·55	0·00	0·00	0·00	0·90	0·80
Hull	0·47	0·18	0·15	1·07	0·03	0·17	0·04	0·25	0·04	0·42	0·04	0·40
Stonyhurst	0·26	0·43	0·08	0·41	0·66	0·69	0·46	0·04	0·00	0·00	0·46	0·66
Bradford	0·31	0·90	0·48	0·22	0·55	0·49	0·48	0·00	0·06	0·01	0·53	0·77
Leeds	0·73	0·38	0·13	0·32	0·01	0·17	0·08	0·06	0·24	0·54	0·10	0·28
Cockermouth	0·33	0·68	0·15	0·36	0·31	0·03	0·10	0·06	0·00	0·00	0·34	1·05
Allenheads	1·00	0·68	0·29	0·50	0·14	0·29	1·10	0·12	0·18	0·00	0·13	0·89
Silloth	0·43	0·11	0·25	0·27	0·08	0·20	0·11	0·00	0·00	0·71	0·50	0·35
Sunderland	0·32	0·82	0·14	0·08	0·35	0·10	0·68	0·00	0·47	0·02	0·34	0·33
Carlisle	0·25	0·11	0·29	0·44	0·10	0·04	0·09	0·00	0·00	Snow.	0·60	0·90
Bywell	1·25	0·34	0·20	0·32	0·05	0·18	1·28	0·26	0·24	0·25	0·26	0·28
North Shields	0·82	0·09	0·05	0·35	0·00	0·10	0·74	0·39	0·11	0·39	0·45	0·05
Milltown (Ireland)	1·45	0·50	0·02	0·84	0·60	0·17	0·09	0·00	0·30	0·59	0·25	0·34

These heavy and continuous rains produced great floods over low lying land throughout the country, and agricultural operations were generally stopped. During December several severe gales took place, and caused a great many shipwrecks on our coasts, particularly at the times of the extreme low readings of the barometer.

The readings of the barometer in the neighbourhood of London were above their averages from the 1st to the 8th of October, with the exception of the 4th; they were also below from the 9th to the 19th, with the exception of the 15th, when the excess was 0·06 in.; and from the 21st to the end of the month the readings were all above their average values. The mean reading for the month was 29·756 in. being 0·060 in. above the average of the preceding 35 years. From the 1st to the 10th of November the readings of the barometer were above their averages; from the 11th to the 16th they were below; on the 17th and 18th a little above; on the 19th and 20th they were slightly below; again above on the four following days; and then below from the 25th to the end of the month. The mean reading for the month was 29·702 in., being 0·049 in. below the average.

During the whole month of December the barometer readings were below their averages, excepting on four days only, viz.: 9th, 10th, 11th, and 26th, when they were 0·20 in., 0·22 in., 0·11 in., and 0·08 in. respectively above their averages.

The barometer readings were therefore generally very low from the 25th of November to the end of the year; the mean amount in defect of the average for this period of 37 days was 0·501 in. The readings were the lowest from the 3rd to 7th of December; and from the 18th to the 22nd inclusive. The mean amount in defect of the average from the 3rd to the 7th of December was 1·03 in. daily; and that from the 18th to the 22nd was 0·98 in. daily.

The mean reading of the barometer for the month of December was 29·311 in., being 0·494 in. *below* its average.

The minimum reading of the barometer in the month of December was 28·23 in. on the morning of the 4th, and the maximum reading was 30·03 in. on the morning of the 10th, thus showing in six days a difference of reading of 1·8 in.

At Greenwich *the mean temperature* for October was 3°·0 below that of September; that of November was 8°·8 below that of October; and that of December was 0°·1 above that of November. (From the preceding 35 years' observations the *mean temperature* of October below that of September is 7°·1; that of November below that of October is 6°·7; and that of December below that of November is 3°·4.)

The mean temperature of the air of October below that of September over the whole country was 2°·5; that of November below that of October was 9°·0; and that of December above that of November was 0°·2.

The mean temperature of the air for October was 52°·8, being 3°·2 and 2°·6 above the averages of the preceding 105 years, and 35 years respectively. In the preceding 105 years there are but 8 instances of so high a mean temperature for the month of October, viz.:—

In 1795 it was	53°·4	In 1818 it was	53°·7	In 1857 it was	52°·9
1807 „	53·0	1831 „	55·0	1861 „	54·9
1811 „	55·5	1847 „	52·9.		

The mean temperature of the air for November was 44°·0, being 1°·7 and 0°·5 above the averages of the preceding 105 years, and 35 years respectively; it was higher than the values in 1874 and 1875 by 2°·0 and 1°·9 respectively.

The mean temperature of the air for December was 44°·1, being 5°·0 and 4°·0 above the averages of the preceding 105 years, and 35 years respectively. In the preceding 105 years there are but 9 instances of so high a mean temperature for the month of December, viz.:—

In 1795 it was	44°·8	In 1828 it was	44°·5	In 1852 it was	47°·6
1806 „	46·8	1833 „	44·6	1857 „	45·1
1821 „	44·3	1842 „	45·0	1868 „	46·0.

The mean temperature of the air for the quarter was 47°·0, being 3°·3 and 2°·4 above the averages of the preceding 105 years, and 35 years respectively. In the preceding 105 years, the following are the only instances of so high a mean temperature of the quarter, viz.:—

In 1806 it was	48°·5	In 1831 it was	47°·1	In 1852 it was	48°·1
1818 „	47·2	1847 „	47·5	1857 „	47·9
1821 „	47·4				

The mean high day temperatures of the air were respectively 1°·3, 0°·3, and 2°·7 above their averages in October, November, and December.

The mean low night temperatures of the air were respectively 3°·4, 1°·4, and 4°·9 above their averages in October, November, and December. Therefore the days and nights were warm throughout the quarter.

The mean daily ranges of temperature were respectively 2°·1, 1°·0, and 2°·0 below their averages in October, November, and December.

At Greenwich the atmospheric pressure in October was greater than in September by 0·136 in., in November less than in October by 0·054 in., and in December it was less than in November by 0·391 in. (From the preceding 35 years' observations the mean pressure in October is less than in September by 0·111 in., that in November greater than in October by 0·055 in., and that in December greater than in November by 0·054 in.) Over the whole country the mean increase of pressure from September to October was 0·137 in. The decrease from October to November was very nearly the same everywhere; its mean from all stations was 0·045 in. The mean decrease of pressure from November to December over the whole country was 0·418 in.

At Greenwich the fall of rain in October was 1·6 in., being 1·2 in. below its average; in November it was 3·1 ins., being 0·8 in. above its average; and in December was 5·8 ins., being 3·8 ins. above its average; the total fall in the quarter was 10·5 ins., being 3·4 ins. above its average.

The following are the instances back to 1815, when the fall of rain in the quarter was as large as that in the present year, viz.:—1821 it was 12·5 ins.; 1822 it was 10·6 ins.; 1824 it was 10·9 ins.; 1841 it was 12·1 ins.; 1852 it was 12·0 ins.; and 1872 it was 11·3 ins. In the same period there was no instance of so large a fall in December as in the present year; the nearest approaches to it were in the years 1821 and 1868 when the falls were 5·2 ins. and 5·4 ins. respectively. The total fall in November and December was 8·9 ins., and back to 1815 there is but one instance of so large a fall in these two months, viz., in the year 1821 when it was 9·9 ins.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter were as follows:—

Direction of Wind.	October.			November.			December.		
	Average.	1876.	Departure from Average.	Average.	1876.	Departure from Average.	Average.	1876.	Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	2	1	−1	2¼	2	− ¼	2	1	−1
N.	3	2	−1	3¾	4	+ ¼	2¾	1	−1¾
N.E.	2½	5	+2½	3½	2	−1½	2	2	0
E.	1½	4	+2½	2	3	+1	1¾	2	+ ¼
S.E.	1½	3	+1½	2	5	+3	1¾	4	+2¼
S.	3½	6	+2½	3½	4	+ ½	3	9	+6
S.W.	9	6	−3	7¾	4	−3¾	9¾	9	− ¾
W.	4¼	2	−2¼	2	5	+3	4	1	−3
Calm (nearly.)	3¾	2	−1¾	3¼	1	−2¼	4	2	−2

The plus sign (+) denotes excesses over averages; in the month of October the largest numbers affected with this sign are opposite to the E., N.E., and S., in November to the S.E. and W., and in December to the S.E. and S.

The minus sign (−) denotes defects below averages; in October the largest numbers affected with this sign are opposite to the S.W. and W., in November to the S.W., and in December to to the W. and N.

1876. Months.	Temperature of Air. Mean.	Air. Diff. from average of 105 years.	Air. Diff. from average of 35 years.	Evaporation. Mean.	Evaporation. Diff. from average of 35 years.	Dew Point. Mean.	Dew Point. Diff. from average of 35 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 35 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 35 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 35 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.
Oct.	52·8	+3·2	+2·6	50·4	+2·2	48·0	+1·9	12·7	−2·1	56·3	0·336	+0·023	3·8	+0·2
Nov.	44·0	+1·7	+0·5	42·2	+0·9	40·0	+0·5	10·6	−1·0	46·5	0·248	+0·001	2·8	0·0
Dec.	44·1	+5·0	+4·0	42·8	+4·2	41·3	+4·5	7·5	−2·0	42·6	0·261	+0·041	3·0	+0·4
Means	47·0	+3·3	+2·4	45·1	+2·4	43·1	+2·3	10·3	−1·7	48·5	0·282	+0·022	3·2	+0·2

1876. Months	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 35 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 35 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 35 years.	Rain. Amount	Rain. Diff. from average of 61 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
Oct.	84	−3	29·756	+0·060	537	− 2	1·6	−1·2	240	1	9	21	28·6	55·9
Nov.	86	−2	29·702	−0·049	546	− 2	3·1	+0·8	248	9	12	9	21·6	48·2
Dec.	90	+2	29·311	−0·494	539	−13	5·8	+3·8	316	4	20	7	20·3	47·1
Means	87	−1	29·590	−0·161	541	− 6	Sum 10·5	Sum +3·4	Mean 268	Sum 14	Sum 41	Sum 37	Lowest 20·3	Highest 55·9

NOTE.—In reading this table it will be borne in mind that the minus sign (−) signifies *below* the average, and that the plus sign (+) signifies *above* the average.

Thunderstorms. During the quarter but little *thunder* was heard; *lightning* was seen at different stations on 6 days in October, 3 days in November, and on 4 days in December.

Solar halos were seen on 8 occasions in October and November, but none were seen in December.

Lunar halos were seen on 10 nights in October, 6 in November, and on 8 in December.

Aurora borealis. An aurora was reported as being seen on December 5 at Weybridge, but none was seen at any other station; the paucity of auroræ during the last 2 or 3 years is remarkable; none have been seen for several months.

Snow fell on November 7 to 12, and the 24th, and in December on every day from the 21st to the 27th inclusive at stations North of latitude 51°.

Hail: scarcely any fell in October; in November it fell on 4 days, and in December on 12 days, but at very few stations.

Fog prevailed on 16 days in October, on 21 days in November, and on 21 days in December, and, therefore, on 58 days during the quarter.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING DECEMBER 31ST, 1876.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the fifth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1876. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.M.S.	204	Oct.	29·678	0·944	68·5	45·0	23·5	59·4	52·6	6·8	55·2	50·1	·363	4·1	0·8	84	533	–	–	1·2	4	11	12	4	2·9	6·6	19	3·32
		Nov.	29·647	1·316	60·0	32·0	28·0	53·5	44·7	8·8	48·8	44·1	·290	3·2	0·6	84	540	–	–	1·4	6	7	9	8	3·0	6·1	17	5·48
		Dec.	29·262	1·622	60·0	36·5	23·5	52·0	45·0	7·0	48·6	45·1	·301	3·4	0·5	88	533	–	–	2·1	3	5	13	10	4·6	7·2	27	11·47
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	Oct.	29·750	1·208	68·0	30·0	38·0	60·4	50·3	10·1	54·7	49·8	·357	4·0	0·8	83	535	70·0	45·8	1·7	5	12	11	3	6·2	6·1	18	4·21
		Nov.	29·695	1·288	66·0	28·0	38·0	56·2	42·6	13·6	49·2	42·6	·274	3·1	0·9	78	540	63·4	38·8	2·0	4	8	10	8	5·9	6·1	15	4·44
		Dec.	29·284	1·776	57·0	30·0	27·0	53·9	40·7	13·2	47·8	42·5	·272	3·1	0·7	83	534	58·4	37·3	2·5	6	5	11	9	7·0	7·3	25	8·31
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	Oct.	29·805	1·080	68·0	35·0	33·0	59·5	49·6	9·9	53·6	49·5	·354	4·0	0·6	86	537	–	–	2·3	6	11	9	5	–	7·3	18	4·60
		Nov.	29·796	1·314	59·0	23·0	36·0	51·3	46·1	5·2	48·1	42·9	·275	3·2	0·7	82	544	–	–	2·0	5	10	7	8	–	6·4	18	5·47
		Dec.	29·378	1·660	57·0	30·0	27·0	52·9	41·8	11·1	47·6	44·2	·290	3·3	0·5	89	536	–	–	2·6	5	3	12	11	–	7·5	27	10·59
PLYMOUTH (Devon), John Merrifield, Esq., F.R.A.S., F.M.S., LL.D.	69	Oct.	29·885	1·042	67·0	39·0	28·0	59·1	50·6	8·5	54·0	51·2	·377	4·3	0·4	90	538	–	49·7	1·4	6	12	8	5	–	8·0	18	4·05
		Nov.	29·839	1·404	58·5	27·0	31·5	53·1	49·6	12·5	46·7	43·8	·286	3·2	0·4	91	546	–	40·7	1·2	6	9	7	8	–	6·2	15	4·54
		Dec.	29·421	1·819	58·5	30·0	28·5	51·6	42·4	9·2	47·1	44·8	·297	3·4	0·3	92	537	–	41·4	1·5	4	5	13	9	–	8·1	26	8·85
VENTNOR (Royal National Hospital), Isle of Wight, Hartley Sagar, Esq.	100	Oct.	29·930	0·918	71·0	36·7	34·3	62·4	51·8	10·6	55·7	51·5	·381	4·3	0·7	86	537	–	–	–	–	–	–	6·3	–	12	1·51
		Nov.	29·892	0·950	65·1	29·1	36·0	56·7	43·7	13·0	48·8	44·5	·295	3·3	0·6	85	544	–	–	–	6	5	8	11	7·3	6·2	17	4·06
		Dec.	29·520	1·546	59·8	31·2	28·6	52·0	43·6	8·4	47·3	44·4	·292	3·3	0·4	91	539	–	–	–	6	3	10	12	7·8	8·5	25	7·48
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	Oct.	29·728	1·064	69·2	32·4	36·8	59·2	48·1	11·1	53·3	50·7	·370	4·2	0·4	91	536	89·1	42·7	0·1	7	9	10	5	–	7·1	14	1·86
		Nov.	29·688	1·162	60·7	27·1	33·6	52·0	39·6	12·4	45·8	42·6	·273	3·2	0·4	89	544	78·8	33·6	0·1	8	6	8	8	–	5·8	18	3·63
		Dec.	29·297	1·898	55·2	27·5	27·7	49·1	40·1	9·0	45·2	43·0	·277	3·1	0·3	92	537	59·5	32·9	0·3	3	5	15	8	–	8·0	26	7·28
SOUTH BOURNE, (near) Bournemouth (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	128	Oct.	29·781	0·980	65·3	32·0	33·3	58·3	50·1	8·2	53·6	49·4	·333	4·0	0·6	86	537	–	–	–	8	9	9	5	–	5·6	16	2·62
		Nov.	29·743	1·230	58·4	24·1	34·3	51·7	38·7	13·0	45·3	41·2	·258	3·0	0·5	86	546	–	–	–	8	6	6	10	–	3·2	14	3·85
		Dec.	29·329	1·920	57·3	27·7	29·6	49·5	42·4	7·1	46·3	42·5	·272	3·1	0·5	87	537	–	–	–	8	4	11	8	–	8·1	24	7·98
BRIGHTON (Sussex), F. E. Sawyer, Esq., F.M.S.	205	Oct.	29·710	1·060	69·0	35·6	33·4	59·1	50·2	8·5	54·1	49·3	·353	4·0	0·7	84	536	–	46·8	1·0	8	12	7	4	–	7·2	8	0·66
		Nov.	29·670	1·437	60·4	29·0	31·4	50·0	40·8	9·2	45·2	41·5	·262	3·0	0·4	87	544	–	37·6	1·1	9	5	8	8	–	6·3	15	3·10
		Dec.	29·284	1·709	56·4	30·0	26·4	49·0	43·2	5·8	46·0	40·2	·230	3·2	0·7	81	536	–	39·5	1·5	4	6	15	6	–	9·0	22	6·93
HASTINGS (Sussex), Alex. E. Murray, Esq., F.M.S.	167	Oct.	29·761	1·021	63·3	33·7	34·6	58·9	50·2	8·7	53·9	49·4	·351	4·0	0·7	85	536	–	46·3	1·5	10	6	11	4	–	7·1	11	1·77
		Nov.	29·701	1·293	60·2	28·5	31·7	49·9	40·6	9·3	45·1	41·6	·263	3·0	0·4	87	545	–	38·1	1·4	8	4	10	8	–	6·0	19	3·79
		Dec.	29·329	1·685	55·3	31·4	23·9	49·3	42·4	6·9	46·1	42·7	·275	3·2	0·4	88	537	–	40·4	1·8	6	5	14	6	–	8·4	24	7·19
TAUNTON (Somerset), W. Tuckwell, Esq.	80	Oct.	29·807	1·168	74·0	35·0	39·0	59·8	48·5	11·3	53·7	50·5	·367	4·1	0·5	89	537	67·9	44·9	0·2	5	8	14	4	1·8	6·9	15	2·45
		Nov.	29·758	1·243	62·8	22·0	40·8	51·8	37·8	14·0	44·7	43·2	·279	3·2	0·1	94	546	58·7	34·1	0·2	7	8	6	9	1·8	7·0	17	4·37
		Dec.	29·370	1·988	57·0	25·0	32·0	49·8	39·1	10·7	45·0	43·7	·285	3·0	0·4	95	539	53·7	37·1	0·2	4	7	14	6	3·6	7·9	22	7·70
SALISBURY (Wilton House), T. Challis, Esq.	186	Oct.	29·707	1·096	75·0	31·0	44·0	60·5	44·9	15·6	51·9	48·9	·347	3·9	0·5	89	537	84·2	42·3	1·4	7	9	8	7	–	7·2	16	2·34
		Nov.	29·644	1·248	61·0	21·0	40·0	51·6	34·3	17·3	43·1	40·7	·254	2·9	0·3	91	546	72·9	32·2	1·3	11	5	7	7	–	6·2	19	3·60
		Dec.	29·254	1·906	57·5	23·0	34·5	48·2	37·5	10·7	43·6	41·0	·257	2·8	0·3	90	538	59·1	36·7	1·6	4	7	9	11	–	8·2	25	9·04
BARNSTAPLE (Devon), T. Mackrell, Esq.	43	Oct.	29·835	1·170	73·0	46·0	27·0	61·1	51·8	9·3	55·3	49·8	·359	4·1	0·9	83	536	–	–	1·4	4	11	14	2	–	5·1	15	3·58
		Nov.	29·794	1·280	61·0	23·5	37·5	53·2	40·9	12·3	46·9	42·3	·270	3·1	0·6	85	545	–	–	1·2	4	7	10	9	–	3·5	19	3·53
		Dec.	29·355	1·650	59·5	32·0	27·5	51·1	42·0	9·1	46·8	40·2	·251	2·9	0·7	82	538	–	–	1·3	2	8	16	5	–	5·8	25	6·91

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1876. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
CATERHAM (Surrey), James Adam, Esq., M.D.	660	Oct.	29·290	0·950	80·0	29·0	51·0	60·0	45·9	14·1	52·6	48·2	·339	3·8	0·7	85	529	–	–	1·7	5	7	11	8	1·3	4·1	14	2·25
		Nov.	29·198	1·230	58·0	20·0	38·0	46·8	36·8	10·0	42·9	39·4	·242	2·8	0·4	87	538	–	–	1·8	9	6	8	7	0·1	3·4	17	3·15
		Dec.	28·826	1·520	52·0	26·0	26·0	44·3	36·7	7·6	41·8	40·0	·247	2·9	0·2	94	533	–	–	2·0	4	5	13	9	0·2	4·3	21	8·22
RAMSGATE (St. Augustine's Monastery), Rev. T. Hugh Quelch, O.S.B.	108	Oct.	29·825	0·881	69·6	38·9	30·7	59·5	51·0	8·5	55·0	49·5	·354	4·0	0·9	82	536	91·1	37·3	1·6	9	8	8	6	–	6·8	6	1·03
		Nov.	29·777	1·137	59·5	29·2	30·3	49·5	40·3	9·2	44·9	41·9	·263	3·0	0·4	90	547	80·7	32·0	1·9	9	3	9	9	–	6·6	18	4·06
		Dec.	29·408	1·590	66·5	29·0	37·5	49·4	41·7	7·7	46·0	42·4	·271	3·2	0·4	88	539	62·7	39·0	2·1	3	6	14	8	–	8·5	18	4·99
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	Oct.	29·722	1·093	69·7	33·0	36·7	59·0	46·5	12·5	52·3	48·7	·344	3·9	0·5	88	537	91·4	41·5	0·5	7	8	9	7	2·0	7·0	13	1·83
		Nov.	29·674	1·117	62·6	25·2	37·4	50·0	37·3	12·7	43·4	39·9	·246	2·8	0·4	88	546	74·4	32·1	0·5	10	6	7	7	2·0	6·2	17	4·23
		Dec.	29·254	1·881	57·4	27·0	30·4	47·8	40·0	7·8	44·2	41·6	·263	3·0	0·3	91	538	59·8	35·8	0·7	5	5	15	6	2·5	9·0	24	5·29
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	Oct.	29·793	0·991	72·0	30·3	41·7	59·8	46·1	13·7	52·0	49·0	·348	4·0	0·4	89	539	81·3	45·0	0·5	6	8	14	3	0·5	7·0	15	1·69
		Nov.	29·727	1·151	65·5	23·0	42·5	49·1	37·1	12·0	43·0	39·7	·244	2·8	0·4	88	548	64·2	33·7	0·6	8	5	10	7	0·7	7·0	18	2·89
		Dec.	29·352	1·822	55·8	26·0	29·8	46·8	39·5	7·3	43·6	40·9	·256	3·0	0·3	90	540	51·3	37·1	1·0	4	7	14	6	1·3	7·5	24	5·79
EAST TILBURY Vicarage (Essex), Rev. R. Tyas, M.A., LL.D.	29	Oct.	29·908	0·962	77·0	31·3	45·2	62·1	47·4	14·7	54·2	49·2	·350	3·3	0·8	83	539	72·6	43·7	0·1	7	8	9	7	–	7·0	8	0·68
		Nov.	29·890	1·058	62·4	30·6	31·8	52·1	36·2	15·9	44·3	42·1	·268	3·1	0·3	92	549	53·7	33·0	0·1	9	2	10	9	–	6·0	17	3·17
		Dec.	29·484	1·719	61·6	25·0	36·6	50·0	38·2	11·8	44·1	40·6	·253	2·9	0·4	87	542	49·5	35·5	0·1	3	7	15	6	–	8·5	25	5·06
MARLBOROUGH, The Green (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	474	Oct.	29·412	1·011	70·3	32·0	38·3	58·9	46·7	12·2	51·6	48·4	·340	3·8	0·5	89	532	93·9	41·7	0·2	9	9	7	6	–	7·8	15	2·57
		Nov.	29·347	1·240	60·8	25·9	34·9	49·1	37·0	12·1	42·7	40·0	·248	2·9	0·3	90	541	76·1	31·3	0·2	9	4	8	9	–	7·1	16	4·04
		Dec.	28·945	1·929	55·5	28·6	26·9	47·0	39·4	7·6	43·3	40·9	·256	2·9	0·3	91	533	58·6	36·1	0·3	2	9	11	9	–	8·3	22	7·29
BECKENHAM (Kent), C. O. F. Cator, Esq., M.A., F.M.S.	170	Oct.	29·731	1·086	75·8	33·0	42·8	61·0	44·3	16·7	51·8	48·6	·343	3·9	0·5	89	538	–	–	–	6	10	11	4	–	6·7	14	1·32
		Nov.	29·698	1·031	64·4	21·0	43·4	50·4	36·1	14·3	43·0	40·1	·249	2·8	0·4	90	547	–	–	–	5	7	10	8	–	6·1	17	2·88
BLACKHEATH (London), James Glaisher, Esq., F.R.S.	160	Oct.	29·756	1·093	73·6	34·2	39·4	60·2	46·9	13·3	52·7	47·3	·327	3·7	0·8	82	537	91·8	44·3	0·9	5	9	11	6	–	7·2	12	1·72
		Nov.	29·698	1·254	63·8	27·2	36·6	49·9	38·3	11·6	44·0	39·0	·238	2·7	0·6	82	546	75·4	36·2	0·8	6	7	9	8	–	6·9	15	3·13
		Dec.	29·309	1·821	58·1	27·9	30·2	48·6	39·5	9·1	44·3	40·2	·249	2·9	0·5	86	539	58·5	37·6	1·1	3	6	16	6	–	8·1	25	5·92
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.A.S., F.M.S.	150	Oct.	29·762	0·941	70·0	34·2	35·8	60·8	48·2	12·6	53·6	49·3	·350	4·0	0·6	85	536	–	–	1·6	5	8	10	8	–	7·7	14	1·36
		Nov.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10	2·97
		Dec.	29·303	1·891	56·2	28·2	28·0	47·9	40·3	7·6	44·7	41·7	·263	3·0	0·4	89	538	–	–	1·8	3	7	12	9	–	8·5	23	5·62
CHISWICK (Middlesex), J. K. L. M. Farquhar, Esq.	25	Oct.	29·872	1·086	72·5	31·0	41·5	61·6	46·5	15·1	53·4	48·6	·342	3·9	0·7	84	539	90·1	42·4	0·7	3	10	8	10	–	7·3	11	1·62
		Nov.	29·832	1·110	64·0	22·0	42·0	60·6	35·7	14·9	43·6	39·0	·239	2·7	0·5	84	549	75·9	33·7	0·7	7	5	7	11	–	7·1	15	2·36
		Dec.	29·445	1·776	57·5	25·0	32·5	49·4	37·5	11·9	44·3	40·8	·255	2·9	0·4	88	541	60·6	36·4	1·6	4	7	11	9	–	9·3	21	5·84
CAMDEN SQUARE (London), G. J. Symons, Esq., F.M.S.	123	Oct.	29·799	1·002	71·2	34·2	37·0	60·0	47·8	12·2	53·0	48·6	·342	3·8	0·7	84	538	77·0	43·3	—	10	5	7	9	–	7·1	14	1·40
		Nov.	29·728	1·162	61·4	27·6	33·8	49·7	38·8	10·9	44·1	41·0	·238	2·9	0·4	89	547	63·4	35·7	—	12	4	5	9	–	7·2	16	3·07
		Dec.	29·349	1·781	56·6	28·0	28·6	47·8	40·4	7·4	44·4	41·4	·260	3·0	0·4	89	539	51·1	37·4	—	3	4	15	9	–	8·2	23	6·25
OXFORD OBSERVATORY, Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	Oct.	29·693	1·202	69·6	32·0	37·6	58·8	47·7	11·1	53·1	48·5	·341	3·8	0·7	84	536	93·2	34·0	0·6	6	9	10	6	1·3	7·6	11	1·02
		Nov.	29·614	1·201	69·9	29·4	31·5	49·6	39·6	10·0	44·4	40·9	·256	2·9	0·4	88	544	81·2	36·5	0·5	8	7	7	8	0·6	7·2	17	3·26
		Dec.	29·225	1·649	56·9	28·1	28·8	47·8	40·7	7·1	44·1	40·8	·256	2·9	0·4	88	537	59·8	38·0	0·8	3	8	13	7	1·6	8·8	27	5·10
GLOUCESTER ASYLUM, E. Toller, Esq., M.D.	100	Oct.	29·837	1·158	70·5	32·0	38·5	59·9	47·1	12·8	53·0	49·8	·358	4·0	0·5	89	538	81·7	42·2	0·4	6	9	7	9	2·1	6·5	14	2·45
		Nov.	29·801	1·150	62·0	21·5	40·5	50·9	36·4	14·5	43·5	40·9	·236	2·9	0·3	90	549	68·2	29·4	0·3	4	6	8	12	1·6	6·4	13	3·48
		Dec.	29·356	2·010	57·5	23·5	34·0	49·7	39·3	10·4	45·0	42·0	·266	3·0	0·4	89	539	66·6	32·1	0·6	3	7	10	11	2·2	8·1	21	5·96
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	Oct.	29·648	1·020	69·9	30·3	39·6	60·7	45·8	14·9	52·5	47·7	·331	3·7	0·7	84	536	–	–	–	4	6	15	6	–	6·9	15	0·85
		Nov.	29·610	1·079	60·1	25·0	35·1	48·6	37·1	11·5	42·7	40·5	·252	2·9	0·2	92	546	–	–	–	6	6	11	7	–	6·5	20	2·86
		Dec.	29·153	1·783	56·2	26·2	30·0	47·5	38·4	9·1	43·3	40·4	·251	2·9	0·3	89	537	–	–	–	2	6	17	6	–	8·1	25	5·31
CARDINGTON (near Bedford), Mr. J. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	105	Oct.	29·804	1·146	69·0	32·4	36·6	59·4	46·2	13·2	52·6	48·6	·343	3·9	0·6	87	538	71·2	40·4	1·2	3	10	11	7	–	7·3	11	0·80
		Nov.	29·760	1·089	59·0	25·0	34·0	48·3	37·3	11·0	42·7	40·3	·250	2·9	0·3	91	549	51·4	31·4	0·8	9	4	9	8	–	6·4	15	3·30
		Dec.	29·354	1·894	56·6	26·0	30·6	47·0	37·7	9·3	42·8	40·8	·255	2·9	0·3	92	541	48·5	32·8	1·6	2	7	14	8	–	8·8	22	4·70
CAMBRIDGE, J. W. L. Glaisher, Esq., M.A., F.R.S.	40	Oct.	29·861	1·144	71·3	33·1	38·2	60·9	46·2	14·7	53·2	49·2	·350	3·9	0·6	86	539	93·1	41·9	1·2	6	8	11	6	–	7·0	15	1·67
		Nov.	29·814	1·050	60·7	26·0	34·7	48·3	38·6	10·7	43·6	40·5	·253	2·9	0·4	89	549	78·5	32·0	1·2	9	4	9	8	–	6·6	21	2·48
		Dec.	29·431	1·748	57·1	26·0	31·1	48·3	39·8	8·5	44·2	41·6	·263	3·0	0·3	91	541	60·8	34·6	1·6	2	8	16	5	–	8·5	23	3·88

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1876.	Pressure of Atmosphere in Month.		Temperature of Air in Month.						Mean Temperature.		Vapour.					Mean Reading of Thermometer.		Wind.					Mean Amount of Ozone.	Mean Amount of Cloud.	Rain.	
								Mean						In a cubic foot of Air.							Relative Proportion of							
		Months.	Mean.	Range.	Highest.	Lowest.	Range.	Of all Highest.	Of all Lowest.	Daily Range.	Air.	Dew Point.	Elastic Force.	Mean.	Short of Saturation.	Mean Degree of Humidity. Sat^{n}. = 100.	Mean Weight of a cubic foot of Air.	Maximum in Rays of Sun.	Minimum on Grass.	Estimated Strength.	N.	E.	S.	W.			Number of Days it fell.	Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
LAMPETER (Cardiganshire), St. David's College. PROF. A. W. SCOTT, M.A.	420	Aug.	29·529	1·124	90·0	35·0	55·0	72·5	45·7	26·8	60·4	50·3	·365	4·1	1·8	69	525	107·5	–	–	2	–	13	16	–	–	10	4·31
		Sept.	29·351	0·988	76·0	38·0	38·0	63·8	46·6	17·2	54·7	47·5	·327	3·7	1·1	76	528	90·7	–	–	2	3	16	9	–	–	24	6·29
		Oct.	29·489	0·847	69·5	36·0	33·5	58·2	46·0	12·2	51·3	46·8	·322	3·6	0·7	85	534	76·0	–	–	6	11	10	4	–	–	19	6·85
		Nov.	29·404	1·268	59·5	19·0	40·5	50·3	36·1	14·2	43·1	40·5	·252	2·9	0·3	90	542	69·9	–	–	4	12	8	6	–	–	18	4·17
		Dec.	28·973	1·804	56·5	18·0	38·5	48·5	36·2	12·3	42·6	40·4	·251	2·9	0·3	92	534	58·1	–	–	4	9	13	5	–	–	23	8·42
NORWICH (Norfolk), JOHN QUINTON, ESQ., JUN.	42	Oct.	29·881	1·074	71·8	39·0	32·8	58·9	49·3	9·6	53·4	51·4	·380	4·3	0·3	93	539	–	–	–	3	10	13	5	–	–	12	0·96
		Nov.	29·831	1·140	58·0	26·5	31·5	48·0	40·2	7·8	43·8	42·3	·270	3·1	0·1	94	549	–	–	–	6	9	9	6	–	–	22	2·68
		Dec.	29·446	1·814	56·8	30·0	26·8	47·3	40·6	6·7	43·8	42·7	·274	3·2	0·1	96	542	–	–	–	1	11	15	4	–	–	19	3·69
LEICESTER (Town Museum), W. J. HARRISON, ESQ., F.G.S.	245	Oct.	29·654	1·093	68·9	35·7	33·2	58·2	47·7	10·5	52·3	47·9	·334	3·7	0·7	85	536	94·4	40·2	1·0	4	10	9	8	–	7·3	16	1·92
		Nov.	29·591	1·129	61·9	28·0	33·9	47·9	38·6	9·3	43·1	40·0	·248	2·8	0·4	89	545	67·6	31·9	0·9	8	8	9	5	–	7·8	17	2·85
		Dec.	29·171	1·811	56·9	26·5	30·4	46·3	39·5	6·8	43·2	39·9	·247	2·8	0·4	88	537	56·2	33·3	1·1	2	8	15	6	–	8·2	25	4·76
WISBECH (Cambridgeshire), S. H. MILLER, ESQ., F.R.A.S., F.M.S.	14	Oct.	29·901	1·152	69·2	33·4	35·8	59·2	48·0	11·2	52·7	49·6	·356	4·0	0·4	90	540	89·5	42·9	0·4	6	7	11	7	1·8	6·9	12	0·80
		Nov.	29·855	1·100	59·0	28·5	30·5	48·4	38·7	9·7	42·9	41·0	·258	3·0	0·3	94	550	69·6	34·9	0·4	6	7	8	9	0·8	6·8	19	2·99
		Dec.	29·447	1·770	56·1	26·0	30·1	46·7	39·2	7·5	42·8	40·7	·255	2·9	0·2	93	543	56·8	35·8	0·5	2	11	12	6	3·1	8·5	23	3·90
NOTTINGHAM, M.O. TARBOTTON, ESQ., C.E., F.G.S., F.M.S.	183	Oct.	29·698	0·096	69·7	32·2	37·5	59·6	47·0	12·6	52·5	46·7	·320	3·6	0·9	81	537	85·5	43·8	0·4	4	13	11	3	2·6	6·6	23	2·76
		Nov.	29·660	1·002	58·8	25·8	33·0	48·1	37·1	11·0	42·4	39·5	·243	2·8	0·3	90	547	65·4	34·2	0·3	8	7	9	6	1·4	7·2	24	3·25
		Dec.	29·232	1·885	56·8	25·9	30·9	46·4	37·7	8·7	42·3	40·1	·248	2·9	0·3	92	539	57·0	35·3	0·4	5	9	9	8	3·0	8·4	27	4·79
HOLKHAM (Norfolk), JOHN DAVIDSON, ESQ., Assistant to the EARL of LEICESTER.	39	July	29·978	0·896	84·8	39·5	45·3	72·5	51·0	21·5	61·6	54·2	·420	4·7	1·4	77	532	133·0	49·1	1·7	13	4	7	7	–	4·9	7	3·15
		Aug.	29·861	1·276	87·5	39·2	48·3	71·6	48·8	22·8	60·4	51·7	·384	4·3	1·5	73	531	126·7	45·9	1·8	6	6	12	7	–	4·4	11	3·35
		Sept.	29·686	1·014	69·5	36·0	33·5	61·8	45·2	16·2	53·4	50·5	·367	4·1	0·4	96	535	108·2	44·2	1·7	9	4	7	10	–	7·5	23	4·25
		Oct.	29·864	1·142	69·3	35·3	34·0	59·3	45·1	14·2	52·6	47·5	·329	3·7	0·8	83	540	82·2	43·5	1·7	5	6	16	4	–	7·0	10	1·30
		Nov.	29·814	1·018	57·8	20·3	37·5	48·1	34·4	13·7	42·3	38·5	·234	2·7	0·4	87	550	61·8	33·7	1·5	6	8	11	6	–	6·9	20	2·95
		Dec.	29·420	1·836	56·6	22·0	34·6	46·5	33·7	12·8	41·6	38·4	·233	2·7	0·4	89	544	49·2	32·4	1·7	2	8	17	4	–	8·4	19	2·96
LLANDUDNO (Carnarvonshire), JAMES NICOL, ESQ., M.D., and THOMAS DALTON, ESQ., M.D.	100	Oct.	29·768	1·370	66·3	42·0	24·3	58·7	49·5	9·2	53·5	46·2	·312	3·6	1·1	76	537	–	–	0·8	3	6	15	7	–	7·3	15	3·07
		Nov.	29·710	1·130	59·6	28·0	31·6	49·3	40·6	8·7	45·0	40·3	·249	2·9	0·5	84	545	–	–	0·6	2	9	10	9	–	8·4	23	5·50
		Dec.	29·214	1·820	54·5	30·0	24·5	51·6	40·8	7·4	45·0	41·5	·263	3·0	0·4	85	536	–	–	0·8	2	4	15	10	–	7·3	18	4·17
CALCETHORPE MANOR (near) Louth (Lincolnshire), D. GRANT BRIGGS, ESQ., F.M.S.	382	Oct.	29·514	1·154	67·4	32·8	34·6	56·5	46·3	10·2	50·6	47·3	·327	3·7	0·5	89	535	92·3	42·6	1·0	5	8	12	6	–	6·8	16	1·61
		Nov.	29·447	1·136	56·5	20·3	36·2	45·9	36·4	9·5	41·0	38·9	·237	2·7	0·3	93	545	75·8	32·5	0·7	6	6	11	7	5·2	7·5	25	3·98
		Dec.	29·041	1·772	54·8	25·0	29·8	44·5	37·5	7·0	41·0	38·9	·237	2·7	0·3	93	537	58·0	34·4	1·0	1	9	15	6	7·2	7·5	26	5·66
LIVERPOOL OBSERVATORY, JOHN HARTNUP, ESQ., F.R.A.S.	197	Oct.	29·665	1·374	67·8	37·9	29·9	56·7	48·3	8·4	51·8	46·8	·321	3·6	0·8	83	537	–	–	1·1	3	14	12	2	–	7·2	16	3·16
		Nov.	29·622	1·145	57·3	28·9	28·4	47·1	39·3	7·8	42·9	39·8	·246	2·9	0·3	89	544	–	–	1·1	6	12	6	6	–	7·1	18	4·00
		Dec.	29·168	1·788	54·3	29·0	25·3	46·1	38·8	7·3	42·6	39·1	·238	2·7	0·4	87	538	–	–	1·4	3	15	10	3	–	7·4	21	4·56
ECCLES (near MANCHESTER), T. MACKERETH, ESQ., F.R.A.S., F.M.S.	145	Oct.	29·740	1·210	73·5	27·5	46·0	59·2	46·0	13·2	52·1	46·5	·317	3·6	0·8	81	538	66·8	39·2	0·3	3	8	15	5	1·1	6·5	14	2·98
		Nov.	29·683	1·088	60·5	23·3	37·2	48·3	36·0	12·3	42·4	38·9	·237	2·7	0·4	88	548	50·7	28·5	0·2	5	10	8	7	0·5	7·6	20	3·21
		Dec.	29·233	1·739	54·5	25·0	29·5	47·2	36·9	10·3	42·5	38·8	·236	2·7	0·4	87	540	47·5	29·9	0·4	3	8	13	7	1·6	7·7	21	5·01
BERMERSIDE OBSERVATORY, HALIFAX (Yorkshire), EDWARD CROSSLEY, ESQ., F.R.A.S.	520	Oct.	29·346	1·334	67·0	29·8	37·2	56·3	45·6	10·7	50·4	45·6	·306	3·5	0·7	84	533	82·2	–	0·4	4	11	8	8	–	7·4	14	4·58
		Nov.	29·318	1·110	54·0	24·8	29·2	45·6	36·7	8·9	40·8	37·6	·226	2·6	0·3	88	543	64·5	–	0·4	6	12	6	6	–	7·1	13	4·17
		Dec.	28·884	1·750	54·0	26·0	28·0	43·4	37·2	6·2	40·5	38·2	·231	2·7	0·3	92	535	51·3	–	0·5	2	11	9	9	–	8·4	21	9·16
HULL (Yorkshire), MR. E. PEAK.	12	Oct.	29·895	1·296	67·0	35·0	32·0	57·7	47·7	10·0	52·3	47·7	·331	3·7	0·7	84	540	69·4	44·2	–	–	–	–	–	0·7	–	12	2·83
		Nov.	29·846	0·936	55·0	27·0	28·0	46·3	38·7	7·6	42·7	39·0	·237	2·7	0·4	86	550	55·0	36·4	–	–	–	–	–	1·8	–	20	4·09
		Dec.	29·442	1·794	55·0	27·0	28·0	45·3	38·5	6·8	42·4	39·3	·241	2·8	0·4	89	543	47·7	35·1	–	–	–	–	–	1·7	–	22	6·24
STONYHURST (Lancashire), REV. S. J. PERRY, F.M.S., F.R.S., F.R.A.S.	363	Oct.	29·499	1·248	67·6	32·1	35·5	57·7	46·8	10·9	51·6	46·4	·316	3·5	0·8	82	534	93·1	44·1	–	7	9	9	6	–	8·6	14	2·84
		Nov.	29·444	1·091	58·9	24·3	34·6	50·4	38·3	12·1	43·2	40·1	·250	2·8	0·4	89	542	74·3	34·9	1·1	7	9	6	8	–	8·6	19	2·13
		Dec.	29·022	1·716	58·1	26·5	31·6	47·1	37·8	9·3	42·5	38·8	·236	2·7	0·4	87	535	61·0	31·5	1·3	3	10	9	9	–	7·9	24	5·39
LEEDS (Philosophical Hall) (Yorkshire), LOUIS C. MIALL, ESQ.	137	Oct.	29·737	1·294	72·0	33·0	39·0	58·2	47·1	11·1	52·2	47·4	·327	3·7	1·0	83	538	69·2	–	1·4	3	10	12	6	–	5·2	16	3·21
		Nov.	29·722	1·138	57·0	31·0	26·0	47·1	38·9	8·2	43·3	39·6	·244	2·8	0·4	87	548	56·0	–	1·5	8	8	5	9	–	5·9	18	2·91
		Dec.	29·252	1·759	58·0	30·0	28·0	46·0	39·0	7·0	43·0	39·3	·240	2·8	0·4	86	539	47·3	–	1·4	4	9	11	7	–	7·1	23	6·46

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1876.	Pressure of Atmosphere in Month.		Temperature of Air in Month.						Mean Temperature.		Vapour.					Mean Reading of Thermometer.		Wind.					Mean Amount of Ozone.	Mean Amount of Cloud.	Rain.	
								Mean						In a cubic foot of Air.							Relative Proportion of							
		Months.	Mean.	Range.	Highest.	Lowest.	Range.	Of all Highest.	Of all Lowest.	Daily Range.	Air.	Dew Point.	Elastic Force.	Mean.	Short of Saturation.	Mean Degree of Humidity. Sat^{n}. = 100.	Mean Weight of a cubic foot of Air.	Maximum in Rays of Sun.	Minimum on Grass.	Estimated Strength.	N.	E.	S.	W.			Number of Days it fell.	Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
BRADFORD (Yorkshire), J. MCLANDSBOROUGH, ESQ., C.E., F.G.S.	366	Oct.	29·478	1·349	65·0	34·8	30·2	55·8	47·7	8·1	51·6	44·4	·292	3·3	1·0	76	534	67·0	–	1·0	6	12	8	5	–	7·7	16	3·81
		Nov.	29·458	1·094	55·0	23·0	26·0	46·3	39·1	7·2	42·4	37·6	·225	2·6	0·4	84	544	56·4	–	1·1	7	8	6	9	–	7·7	17	3·36
		Dec.	28·983	1·730	54·0	29·0	25·0	44·7	38·9	5·8	42·1	39·2	·240	2·8	0·3	90	535	45·9	–	1·2	5	11	11	4	–	8·7	23	7·47
COCKERMOUTH (Cumberland), H. DODGSON, ESQ., M.D., F.R.A.S., F.M.S.	146	Oct.	29·695	1·514	69·2	25·6	43·6	57·3	47·8	9·5	51·4	45·3	·304	3·5	0·8	80	538	76·4	38·5	0·4	4	10	10	7	1·4	6·2	18	3·38
		Nov.	29·658	1·092	57·7	21·3	36·4	47·3	36·8	10·5	41·7	38·1	·230	2·6	0·4	88	548	55·4	27·2	0·2	8	10	7	5	0·9	6·2	15	2·64
		Dec.	29·201	1·750	53·5	29·9	23·6	46·5	41·5	5·0	43·8	39·5	·242	2·8	0·4	85	537	50·1	31·1	0·5	1	10	13	7	3·2	7·4	22	4·77
ALLENHEADS (Northumberland), MR. T. KIDD, Assistant to W. B. BEAUMONT, ESQ., M.P.	1360	Oct.	28·435	1·362	–	28·5	–	–	43·2	–	–	–	–	–	–	–	–	82·1	38·8	0·9	4	10	12	5	–	7·1	18	2·21
		Nov.	28·408	1·075	–	18·3	–	–	32·2	–	–	–	–	–	–	–	–	67·2	29·7	0·9	5	11	7	7	–	7·1	21	5·16
		Dec.	27·908	1·678	–	23·0	–	–	32·7	–	–	–	–	–	–	–	–	65·0	30·7	1·7	4	10	12	6	–	8·2	24	10·60
SILLOTH RECTORY (Cumberland), REV. FRANCIS REDFORD, M.A., F.R.A.S., F.M.S.	28	Oct.	29·809	1·533	70·7	27·6	43·1	58·8	46·7	12·1	51·6	47·0	·323	3·6	0·7	84	540	81·7	42·7	1·2	3	12	8	8	7·7	5·4	15	3·22
		Nov.	29·802	1·110	56·2	20·4	35·8	47·7	35·8	11·9	41·3	37·7	·227	2·6	0·6	88	551	66·7	31·9	0·8	3	12	8	7	6·2	4·8	15	2·90
		Dec.	29·356	1·762	53·1	28·9	26·2	47·1	37·8	9·3	42·5	39·2	·239	2·7	0·4	88	541	56·6	34·0	1·6	1	9	13	8	8·8	6·3	22	4·66
CARLISLE (Cumberland), ISAAC CARTMELL, ESQ., F.M.S.	114	Oct.	29·737	1·431	69·6	24·4	45·2	57·9	44·5	13·4	50·6	45·3	·302	3·4	0·7	82	539	78·9	39·1	1·2	6	8	11	6	4·6	6·8	18	2·64
		Nov.	29·716	1·084	57·5	17·6	39·9	46·7	34·2	12·5	40·2	37·5	·224	2·6	0·3	90	551	57·7	29·5	1·2	6	10	8	6	4·1	6·6	12	2·23
		Dec.	29·288	1·674	54·0	26·9	27·1	46·2	36·7	9·5	41·5	38·3	·232	2·6	0·4	89	541	50·2	32·2	1·7	2	14	11	4	5·0	7·8	20	4·27
BYWELL (Northumberland), MR. JOHN DAWSON, Assistant to W. B. BEAUMONT, ESQ., M.P.	87	Oct.	29·740	1·458	68·0	33·0	35·0	58·6	48·1	10·5	52·0	46·3	·315	3·6	0·8	81	538	70·4	42·1	1·3	2	11	7	11	–	5·3	15	1·55
		Nov.	29·737	1·034	56·0	25·0	31·0	46·7	38·5	8·2	41·8	36·4	·217	2·5	0·6	83	550	53·0	32·6	1·2	3	10	6	11	–	6·9	22	4·10
		Dec.	29·280	1·656	53·0	28·0	25·0	45·9	38·2	7·7	42·1	36·7	·219	2·6	0·5	81	541	49·4	32·3	1·5	2	14	8	7	–	8·1	24	9·11
NORTH SHIELDS (Northumberland), ROBERT SPENCE, ESQ.	124	Oct.	29·820	1·396	65·0	34·0	31·0	55·3	46·7	8·6	50·5	46·0	·311	3·5	0·6	85	541	–	44·9	1·6	7	4	9	11	–	7·4	17	1·78
		Nov.	29·804	1·120	54·0	29·0	25·0	45·5	37·7	7·8	41·4	38·2	·231	2·7	0·4	89	551	–	37·0	1·7	9	8	7	6	–	8·1	24	2·96
		Dec.	29·360	1·798	50·6	29·0	21·6	45·6	37·3	8·3	41·7	37·9	·228	2·6	0·4	87	543	–	35·8	1·7	4	7	11	9	–	7·6	28	6·14
MILLTOWN Banbridge, (Ireland), JOHN P. SMYTH, ESQ., JUN., M.A., M.I.C.E.I., F.G.S.	200	Oct.	29·551	1·708	65·0	37·0	28·0	55·7	46·9	8·8	50·8	46·1	·311	3·5	0·7	83	536	88·4	43·8	1·8	6	7	14	4	–	5·5	17	4·48
		Nov.	29·601	1·126	57·0	23·0	34·0	48·1	37·6	10·5	42·6	39·1	·238	2·7	0·4	87	546	69·0	34·0	1·7	5	10	12	3	–	5·1	21	3·50
		Dec.	29·095	1·580	53·0	27·0	26·0	46·2	36·7	9·5	41·6	38·5	·233	2·7	0·4	89	538	60·9	33·5	1·7	5	12	12	2	–	6·6	23	7·66

NOTE.—*The Barometer Reading*, BRADFORD, 15th November, 3h. p.m., 29·910 in., has been altered to 28·910 in.
" " BARNSTAPLE, 16th " 3h. p.m., 30·25 in., " 29·25 in.
" " " 20th " 3h. p.m., 25·96 in., " 29·96 in.
" " " 23rd " 9h. a.m., 30·42 in., " 30·02 in.
" " HELSTON, 5th December, 9h. a.m., 29·446 in., " 28·446 in.
" " GLOUCESTER, 6th " 9h. a.m., 29·960 in., " 28·960 in.
" " " 8th " 4h. p.m., 29·200 in., " 30·200 in.
" " " 20th " 9h. a.m., 29·664 in., " 28·664 in.

Second Rain-gauges are placed—

				October.	November.	December.	Total during the Quarter.
At Beckenham,	at the height of	50 feet	*above the ground*, the amount collected was	1·30 inches.	3·11 inches.	— inches.	— inches.
" Strathfield Turgiss,	"	38 feet	" "	1·18 "	2·98 "	3·85 "	8·01 "
" Oxford,	"	22 feet	" "	1·03 "	3·21 "	4·94 "	9·18 "
" Cardington,	"	36 feet	" "	0·54 "	2·90 "	3·75 "	7·19 "
" Wisbech,	"	8 feet	" "	0·76 "	2·82 "	3·77 "	7·35 "
" Nottingham,	"	39 feet	" "	2·51 "	3·02 "	4·22 "	9·75 "
" Holkham,	"	4 feet	" "	1·21 "	2·63 "	— "	— "
" Eccles (Manchester),	"	34 feet	" "	2·70 "	2·88 "	4·04 "	9·62 "
" Milltown (Ireland),	"	40 feet	" "	3·96 "	2·86 "	6·21 "	13·03 "

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.		°	°									in.
Guernsey	29·431	68·5	32·0	36·5	55·0	47·4	25·0	7·6	50·9	46·4	·318	3·6	0·6	85	535	—	—	1·6	4	8	11	7	3·5	6·6	63	20·27
Helston	29·389	68·0	28·0	40·0	56·8	44·5	34·3	12·3	50·6	45·0	·331	3·4	0·8	81	536	63·9	40·6	2·1	5	8	11	7	6·4	6·5	58	16·96
Truro	29·400	68·0	23·0	45·0	54·6	43·8	32·0	8·8	49·8	45·5	·306	3·5	0·6	86	539	—	—	2·3	5	9	9	8	—	7·1	63	20·66
Plymouth	29·469	67·0	27·0	40·0	54·6	44·5	29·3	10·1	49·3	46·6	·320	3·6	0·4	91	540	—	43·9	1·4	5	9	9	7	—	7·4	59	17·44
Ventnor	—	71·0	29·1	41·9	57·0	46·4	33·0	10·6	50·6	46·8	·323	3·6	0·6	87	540	—	—	—	—	—	—	—	7·1	—	54	13·05
Osborne	29·450	69·2	27·1	42·1	53·4	42·6	32·7	10·8	48·1	45·4	·307	3·5	0·4	91	539	75·8	36·4	0·2	6	7	11	7	—	7·0	58	12·77
Bournemouth	29·463	65·3	24·1	41·2	53·2	43·7	32·4	9·5	48·4	44·4	·294	3·4	0·5	86	540	—	—	—	8	6	9	8	—	5·6	54	14·45
Brighton	29·484	69·0	29·0	40·0	52·7	44·9	30·4	7·8	48·4	43·7	·288	3·4	0·6	84	539	—	41·3	1·2	7	8	10	6	—	7·5	45	10·69
Hastings	29·484	68·3	28·5	39·8	52·7	44·4	30·1	8·3	48·4	44·6	·296	3·4	0·5	87	539	—	41·6	1·6	8	5	12	6	—	7·2	54	12·75
Taunton	29·422	74·0	22·0	52·0	53·8	41·8	37·3	12·0	47·8	45·8	·310	3·4	0·3	93	541	60·1	38·7	0·2	5	8	11	6	2·4	7·3	54	14·32
Salisbury	29·450	75·0	21·0	54·0	53·4	38·9	39·5	14·5	46·2	43·5	·286	3·2	0·4	90	540	72·1	37·1	1·4	7	7	8	—	—	7·2	60	14·98
Barnstaple	29·415	73·0	25·5	49·5	55·1	44·9	30·7	10·2	49·7	44·1	·293	3·4	0·7	83	540	—	—	1·3	3	9	13	5	—	4·8	59	14·02
Caterham	29·525	80·0	20·0	60·0	50·4	39·8	38·3	10·6	45·8	42·5	·276	3·2	0·4	89	533	—	—	1·8	6	6	11	8	0·5	3·9	52	13·62
Ramsgate	29·490	69·6	29·0	40·6	52·8	44·3	32·8	8·5	48·6	44·6	·297	3·4	0·6	87	541	78·2	36·1	1·9	7	6	10	8	—	7·3	42	10·08
Strathfield Turgiss	29·479	69·7	25·2	44·5	52·3	41·3	34·8	11·0	46·6	43·4	·284	3·2	0·4	89	540	76·2	36·5	0·6	7	6	10	7	2·2	7·4	54	11·35
Weybridge Heath	29·504	72·0	23·0	49·0	51·9	40·9	38·0	11·0	46·2	43·2	·283	3·3	0·4	89	542	65·6	38·6	0·7	6	7	13	5	0·8	7·2	57	10·37
East Tilbury	29·502	77·0	25·0	52·0	54·7	40·6	37·9	14·1	47·5	44·0	·290	3·1	0·5	87	543	58·6	37·4	0·1	6	6	11	7	—	7·2	50	8·91
Marlborough Green	29·447	70·3	25·9	44·4	51·7	41·0	33·4	10·7	45·9	43·1	·281	3·2	0·4	90	535	76·2	36·4	0·2	7	7	9	8	—	7·7	53	13·90
Blackheath	29·490	73·6	27·2	46·4	52·9	41·6	35·4	11·3	47·0	42·2	·271	3·1	0·6	83	541	75·2	39·4	0·5	5	7	12	7	—	7·4	52	10·77
Streatley Vicarage	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	47	9·93
Chiswick	29·499	72·5	22·0	50·5	53·9	39·9	38·7	14·0	47·1	42·8	·279	3·2	0·5	85	543	75·5	37·5	1·0	5	7	9	10	—	7·9	47	9·82
Camden Square	29·471	71·2	27·6	43·6	52·5	42·3	33·1	10·2	47·2	43·7	·287	3·2	0·5	87	541	63·8	38·8	—	8	4	9	9	—	7·5	53	10·72
Oxford	29·453	69·6	25·1	41·5	52·1	42·7	32·6	9·4	47·2	43·4	·284	3·2	0·5	87	539	78·1	36·2	0·6	6	8	10	7	1·2	7·9	55	9·68
Gloucester	29·478	70·5	21·5	49·0	53·5	40·9	37·7	12·6	47·2	44·2	·293	3·3	0·4	89	542	72·2	34·6	0·4	4	7	8	11	2·0	7·0	48	11·89
Royston	29·482	69·9	25·0	44·9	52·3	40·4	34·9	11·9	46·2	42·9	·278	3·2	0·4	88	540	—	—	—	4	6	14	6	—	7·2	60	9·02
Cardington	29·463	69·0	25·0	44·0	51·6	40·4	33·7	11·2	46·0	43·2	·283	3·2	0·4	90	543	57·0	34·9	1·2	5	7	11	8	—	7·5	48	8·80
Cambridge	29·457	71·3	26·0	45·3	52·8	41·5	34·7	11·3	47·1	43·8	·289	3·3	0·4	89	543	77·5	36·2	1·3	6	7	12	6	—	7·4	59	8·93
Lampeter	29·466	69·5	18·0	51·5	52·3	39·4	37·5	12·9	45·7	42·6	·275	3·1	0·4	89	537	68·0	—	—	5	11	10	5	—	—	60	19·44
Norwich	29·455	71·8	26·5	45·3	51·4	43·4	30·4	8·0	47·0	45·5	·307	3·5	0·2	94	543	—	—	—	3	10	12	5	—	—	53	7·33
Leicester	29·460	68·9	26·5	42·4	50·8	41·9	32·5	8·9	46·2	42·6	·276	3·1	0·5	87	539	72·7	35·1	1·0	5	9	11	6	—	7·8	58	9·53
Wisbech	29·459	69·2	26·0	43·2	51·4	42·0	32·1	9·4	46·1	43·8	·290	3·3	0·3	92	544	72·0	37·9	0·4	5	8	10	7	1·9	7·4	54	7·69
Nottingham	29·457	69·7	25·8	43·9	51·4	40·6	33·8	10·8	45·7	42·1	·270	3·1	0·5	88	541	69·3	39·1	0·4	5	10	10	6	2·3	7·4	74	10·56
Holkham	29·488	69·3	29·3	49·0	51·3	37·7	35·4	13·6	45·5	41·5	·255	3·0	0·5	86	545	64·4	36·5	1·6	4	7	15	5	—	7·4	49	7·23
Llandudno	29·407	66·3	28·0	38·3	53·2	43·6	26·8	8·4	47·8	42·7	·275	3·2	0·7	82	539	—	—	0·7	2	6	13	9	—	7·7	56	12·74
Calcethorpe	29·481	67·4	29·3	47·1	49·0	40·1	33·5	8·9	44·2	41·7	·267	3·0	0·4	92	539	75·4	36·5	0·9	4	8	13	6	6·7	7·3	67	11·29
Liverpool	29·429	67·8	28·9	38·9	50·0	42·1	27·9	7·9	45·8	41·9	·268	3·1	0·5	86	540	—	—	1·2	4	14	9	4	—	7·2	55	11·72
Eccles	29·452	73·5	23·3	50·2	51·6	39·6	37·6	12·0	45·7	41·4	·263	3·0	0·5	85	542	55·0	32·5	0·3	4	9	12	6	1·1	7·3	55	11·39
Bermerside, Halifax	29·493	67·0	24·8	42·2	48·4	39·8	31·5	8·6	43·9	40·5	·254	2·9	0·4	88	537	66·0	—	0·4	4	11	8	8	—	7·6	48	17·91
Hull	29·471	67·0	27·0	40·0	49·8	41·6	29·3	8·2	45·8	42·0	·270	3·1	0·5	86	544	57·4	38·9	—	—	—	—	—	1·4	—	54	13·16
Stonyhurst	29·448	67·6	24·3	43·3	51·7	41·0	33·9	10·7	45·8	41·8	·267	3·0	0·5	86	537	76·1	37·8	—	6	9	8	8	—	8·4	57	10·41
Leeds	29·448	72·0	39·0	42·0	50·4	41·7	31·0	8·7	46·2	42·1	·270	3·1	0·6	85	542	57·5	—	1·4	5	9	9	7	—	6·1	57	12·88
Bradford	29·448	65·0	29·0	36·0	48·9	41·9	27·1	7·0	45·4	40·4	·252	2·9	0·6	83	528	56·4	—	1·1	6	10	8	6	—	8·0	56	14·64
Cockermouth	29·418	69·2	21·3	47·9	50·4	42·0	34·5	8·3	45·6	41·0	·259	3·0	0·5	84	541	60·6	32·3	0·4	4	10	10	6	1·8	6·6	55	10·99
Allenheads	—	—	18·3	—	—	36·0	—	—	—	—	—	—	—	—	—	71·4	33·1	1·2	4	10	10	6	—	7·5	63	17·97
Silloth	29·423	70·7	20·4	50·3	51·2	40·1	35·0	11·1	45·1	41·3	·263	3·0	0·6	87	544	68·3	36·2	1·2	2	11	10	8	7·6	5·5	52	10·78
Carlisle	29·451	69·6	17·6	52·0	50·3	38·5	37·4	11·8	44·1	40·4	·253	2·9	0·5	87	544	62·3	33·6	1·4	5	11	10	5	4·6	7·1	50	9·14
Bywell	29·429	68·0	25·0	43·0	50·4	41·6	30·3	8·8	45·3	39·8	·250	2·9	0·6	82	543	57·6	35·3	1·3	2	12	7	10	—	6·8	61	14·76
North Shields	—	65·0	29·0	36·0	48·8	40·6	25·9	8·2	44·5	40·7	·257	2·9	0·5	87	545	—	39·2	1·7	7	6	9	9	—	7·7	69	10·88
Milltown (Ireland)	29·373	65·0	23·0	42·0	50·0	40·4	29·3	9·6	45·0	41·2	·261	3·0	0·5	86	540	72·6	37·1	1·7	5	10	13	3	—	5·7	61	15·64

The highest temperatures of the air were at Caterham, 80°·0; East Tilbury, 77°·0; and at Salisbury, 75°·0.
The lowest temperatures of the air were at Carlisle, 17°·6; Lampeter, 18°·0; and at Allenheads, 18°·3.
The greatest daily ranges of the temperatures of the air were at Salisbury, 14°·5; East Tilbury, 14°·1; and at Chiswick, 14°·0.
The least daily ranges of the temperatures of the air were at Bradford, 7°·0; Guernsey, 7°·6; and at Brighton, 7°·8.
The greatest numbers of rainy days were at Nottingham, 74; North Shields, 69; and at Calcethorpe, 67.
The least numbers of rainy days were at Ramsgate, 42; Brighton, 45; and at Streatley and Chiswick, both 47.
The heaviest falls of rain were at Truro, 20·66 inches; Guernsey, 20·27 inches; and at Lampeter, 19·44 inches.
The least falls of rain were at Holkham, 7·21 inches; Norwich, 7·33 inches; and at Wisbech, 7·69 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.		°	°									in.
Guernsey	29·431	68·5	32·0	36·5	55·0	47·4	25·0	7·6	50·9	46·4	·318	3·6	0·6	85	535	—	—	1·6	4	8	11	7	3·5	6·6	63	20·27
Between the latitudes 50° and 51°	29·448	68·2	27·0	41·2	54·4	44·6	31·8	9·8	48·2	45·3	·304	3·5	0·6	87	539	64·8	40·8	1·5	6	7	10	7	6·8	6·9	56	14·85
Between the latitudes 51° and 52°	29·477	72·6	24·5	48·1	52·8	41·5	35·6	11·3	47·1	43·4	·285	3·2	0·5	87	540	72·0	37·2	0·9	6	7	10	8	1·3	7·0	52	11·41
Between the latitudes 52° and 53°	29·465	69·8	24·3	45·5	51·7	40·8	33·7	10·9	46·2	43·1	·280	3·2	0·4	89	542	68·7	36·6	1·0	5	8	12	6	2·1	7·4	57	9·76
Between the latitudes 53° and 54°	29·454	68·6	25·8	42·8	50·5	41·2	31·4	8·9	46·6	41·8	·267	3·1	0·5	86	540	64·6	36·3	0·8	4	9	10	7	2·4	7·4	56	12·62
Between the latitudes 54° and 55°	29·434	68·5	22·7	45·8	50·2	40·8	32·9	9·4	45·1	40·6	·255	2·9	0·6	85	542	62·8	34·1	1·1	4	11	9	7	4·7	6·9	56	13·05
Mean for the Quarter, Year 1873	29·714	68·8	22·8	46·0	50·5	39·1	34·0	11·4	44·6	40·8	·256	2·9	0·5	87	546	66·1	38·5	1·0	5	5	8	12	3·2	6·6	45	6·82
Mean for the Quarter, " 1874	29·608	64·9	14·9	50·0	48·3	37·0	33·1	11·3	42·4	38·6	·242	2·8	0·5	86	547	63·1	31·5	1·2	7	5	8	11	5·3	6·7	55	10·50
Mean for the Quarter, " 1875	29·637	66·4	22·6	43·8	48·5	38·5	32·3	10·0	43·2	39·5	·246	2·8	0·5	87	547	63·0	34·5	1·2	7	8	7	9	3·7	7·4	54	11·30
Mean for the Quarter, " 1876	29·456	69·5	24·9	44·6	51·9	41·8	33·1	10·1	46·5	42·8	·278	3·2	0·5	87	541	66·6	37·0	1·1	5	8	10	7	3·5	7·1	55	12·34

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING MARCH 31, 1877.

Remarks on the Weather during the Quarter ending March 31st, 1877.

By James Glaisher, Esq., F.R.S., *&c.*

The weather during the quarter has been for the most part exceptional, the readings of the barometer have been usually below their averages, with frequent stormy weather, the temperature of the air was high both in January and February, rain fell almost continuously and was excessive in January, and there has been very little sunshine throughout the quarter.

The high temperature which set in on November 13th, 1876, and continued with the exception of six days in December, till the end of the year, was also prevalent throughout January and until the 19th of February 1877, the average daily excess of temperature for the 50 days beginning January 1st and ending February 19th was 6°·1; and for the 99 days beginning November 13th and ending February 19th was 5°·1, the winter, therefore, of the year 1876–7 has been exceptionally mild. On February 20th a period set in, which was distinguished by several days of temperature below their averages, and then followed by a smaller number of days of temperature above their averages, and this variation of temperature, alternately warm and cold, continued till March 23rd, the average daily deficiency of temperature for the 26 days ending March 23rd was 2½°. From March 24th to the end of the quarter the weather was uniformly warm, and the average daily excess was 2°·9.

The fall of rain in January was excessive, at about London and its neighbourhood it fell during the first half of the month on nearly every day, and during the whole of the month it fell on 6 days out of 7 days. The amount at Greenwich was 4·35 ins.; back to the year 1815 we have no instance of so large a fall of rain in January, and but two instances which are closely approximate, viz., in the year 1828 when the fall was 4·3 ins., and in the year 1868 when it was 4·2 ins. The average rainfall of 62 Januaries is 1·85 in., so that more than double the average fell in January; this is the more remarkable as the fall in December 1876 was so excessive.

The fall of rain in the three months ending January was 13·20 ins., being more than half the mean annual fall of 62 years, viz., 25·2 ins. The average fall for the three successive months,

Fall of Rain at the different Stations on Twelve selected days.

Names of Stations.	January. 2nd.	3rd.	4th.	6th.	7th.	8th.	10th.	11th.	17th.	19th.	29th.	30th.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Guernsey	0·28	0·71	0·67	0·55	0·38	0·28	0·15	0·19	0·11	0·07	0·10	0·10
Helston	0·09	0·77	0·19	0·88	0·33	0·15	0·08	0·50	0·26	0·30	0·10	—
Truro	1·49	0·48	0·18	0·67	0·10	0·07	0·46	0·27	0·12	0·01	0·10	0·13
Plymouth	0·11	0·89	0·42	0·29	0·49	0·19	0·03	0·25	0·49	0·33	0·07	0·14
Ventnor	0·20	0·36	0·12	0·27	0·28	0·48	1·39	0·12	0·06	—	0·15	0·13
Osborne	1·33	0·35	0·03	0·43	0·32	0·59	0·85	0·02	0·10	0·02	0·12	0·08
Portsmouth	0·25	1·27	0·35	0·35	0·31	—	—	—	—	—	0·00	0·00
Brighton	0·81	0·48	0·14	0·27	0·21	0·71	1·09	0·03	0·16	0·08	0·07	0·11
Salisbury	0·74	0·64	0·20	1·12	0·73	0·50	0·54	0·00	0·50	0·13	0·12	0·15
Barnstaple	0·60	0·10	0·16	0·40	0·03	0·05	0·29	0·13	0·07	0·03	0·34	0·00
Caterham	0·00	0·50	0·64	0·17	0·40	0·55	0·01	1·50	0·32	0·22	0·00	0·18
Ramsgate	0·25	0·21	0·07	0·25	0·17	0·96	0·82	0·21	0·05	0·00	0·00	0·24
Strathfield Turgiss	0·00	0·40	0·05	0·51	0·19	0·43	0·56	0·05	0·06	0·02	0·09	0·06
Weybridge Heath	0·16	0·55	0·05	0·58	0·37	0·70	0·67	0·09	0·15	0·01	0·07	0·11
East Tilbury	0·33	0·24	0·04	0·53	0·14	0·75	1·30	0·21	0·05	0·01	0·02	0·10
Marlborough	0·04	0·45	0·70	0·11	0·84	0·32	0·03	0·35	0·11	0·33	0·06	0·22
Bristol	0·48	0·65	0·03	0·42	0·02	0·08	0·36	0·02	0·02	0·06	0·44	0·01
Blackheath	0·29	0·25	0·29	0·24	0·33	0·53	0·44	0·28	0·09	0·04	0·01	0·12
Royal Observatory	0·32	0·27	0·28	0·23	0·31	0·54	0·50	0·32	0·01	0·04	0·01	0·12
Streatley	0·10	0·48	0·60	0·15	0·45	0·58	0·63	0·45	0·00	0·15	0·12	0·12
Chiswick	0·24	0·24	0·50	0·14	0·30	0·52	0·02	0·98	0·02	0·05	0·09	0·02
Camden Square	0·31	0·45	0·02	0·31	0·49	0·60	0·57	0·07	0·08	0·00	0·05	0·16
Oxford	0·44	0·57	0·01	0·43	0·57	0·10	0·44	0·00	0·14	0·00	0·30	0·00
Gloucester	0·03	0·14	0·90	0·12	0·35	0·00	0·02	0·20	0·11	0·32	0·18	0·35
Royston	—	—	—	—	0·03	0·25	0·34	0·00	0·12	0·00	0·12	0·05
Cardington	0·02	0·63	0·00	0·19	0·31	0·12	0·35	0·00	0·09	0·00	0·12	0·13
Lampeter	0·18	0·18	1·09	0·81	0·91	0·28	0·03	0·00	0·00	0·60	0·00	0·38
Cambridge	0·18	0·02	0·62	0·02	0·13	0·03	0·03	0·34	0·00	0·04	0·02	0·11
Norwich	0·13	0·02	0·59	0·00	0·08	0·18	0·13	0·03	0·01	0·08	0·02	0·25
Leicester	0·17	0·00	0·78	0·15	0·18	0·01	0·10	0·00	0·03	0·04	0·08	0·41
Birmingham	0·10	0·05	1·30	0·07	0·33	0·04	0·08	0·00	0·12	0·11	0·10	0·57
Wolverhampton	0·06	0·74	0·00	0·32	0·00	0·00	0·00	0·00	0·00	0·03	0·32	0·08
Wisbech	0·01	1·18	0·00	0·09	0·16	0·03	0·00	0·02	0·09	0·00	0·12	0·04
Nottingham	0·31	0·01	1·12	0·03	0·11	0·13	0·03	0·00	0·01	0·01	0·05	0·53
Holkham	0·11	0·00	0·73	0·02	0·13	0·13	0·12	0·00	0·00	0·00	0·06	0·11
Llandudno	0·00	0·60	0·17	0·48	0·03	0·09	0·00	0·00	0·02	0·02	0·70	0·03
Sheffield	0·01	1·23	0·18	0·31	0·01	0·00	0·01	0·00	0·04	0·02	1·41	0·09
Kelstern Grange	0·00	1·24	0·02	0·69	0·24	0·00	0·00	0·03	0·20	0·00	0·12	0·02
Liverpool	0·09	0·00	1·17	0·40	0·21	0·00	0·00	0·00	0·42	0·29	0·06	0·30
Manchester	0·00	—	—	0·05	0·00	0·00	0·00	0·00	0·01	0·01	0·86	0·05
Eccles	0·00	0·64	0·27	0·18	0·02	0·00	0·00	0·00	0·05	0·02	0·89	0·04
Bermerside	0·50	0·00	0·00	1·40	0·20	0·30	0·04	0·00	0·12	0·23	0·17	1·20
Hull	0·00	0·68	0·03	0·13	0·08	0·00	0·00	0·08	0·18	0·00	0·17	0·00
Stonyhurst	0·51	1·25	0·00	0·00	0·26	0·03	0·10	0·00	0·15	0·45	0·00	1·01
Bradford	0·27	0·00	1·12	0·14	0·25	0·02	0·03	0·02	0·02	0·16	0·19	1·08
Leeds	0·00	1·14	0·12	0·00	0·17	0·00	0·00	0·00	0·00	0·00	0·79	0·00
Cockermouth	0·00	0·00	0·48	0·46	0·43	0·13	0·38	0·00	1·08	1·02	0·25	0·48
Allenheads	0·00	1·36	0·26	0·29	0·30	0·25	0·00	0·00	0·00	0·52	1·14	0·00
Silloth	0·00	0·33	0·85	0·23	0·01	0·12	0·00	0·00	0·01	0·06	0·30	0·00
Sunderland	0·28	0·00	0·80	0·22	0·20	0·01	0·03	0·01	0·22	0·09	0·07	0·10
Carlisle	0·00	0·14	0·90	0·32	0·07	0·00	0·00	0·00	0·02	0·11	0·50	0·00
Bywell	0·00	0·96	0·34	0·32	0·05	0·06	0·03	0·00	0·00	0·06	0·52	0·00
North Shields	0·00	0·71	0·18	0·16	0·01	0·15	0·00	0·00	0·00	0·08	0·21	0·00
Milltown (Ireland)	0·02	1·45	0·21	0·34	0·28	0·06	0·05	0·18	0·17	0·10	0·42	0·06

November, December, and January, is 6·24 ins., therefore for these months the fall of rain has exceeded in amount twice the average fall.

The fall of rain in January was large everywhere, and it fell on every day in the month at one or other place, the day of least fall was the 22nd, on which day it fell at a few places only, and to a small amount; on the 12th, 13th, 23rd, and 26th the falls were less than a ¼ of an inch, all the other days the falls exceeded a ¼ of an inch at one or more places; on the 2nd, 3rd, 4th, 6th, 7th, 8th, 10th, 11th, 17th, 19th, 29th, and 30th, the fall at one or more stations was nearly one inch or it exceeded one inch. The Table at foot of preceding page shows the falls of rain on these 12 days at the several stations.

The heavy rainfall at the end of December and at the beginning of January caused great floods generally.

The readings of the barometer in the neighbourhood of London were below their respective averages from the 1st to the 8th of January to the mean amount of 0·64 in. daily; from the 9th to the 19th, the readings were alternately above and below their average values; from the 20th to the end of the month the readings were above their averages, with the exception of two days, viz., 25th and 30th, which were 0·22 in. and 0·41 in. below. The mean reading for the month was 29·665 ins. being 0·085 in. below the average. The greatest departure in defect of the average during the month was 1·04 in. on the 1st. During the first nine days of February the readings of the barometer were all above their averages; from the 10th to the 27th they were all below with the exception of three days, viz., 14th, 17th, and 18th, which were respectively 0·04in., 0·02 in., and 0·07 in. above their averages; on the last day of February the reading of the barometer was 0·25 in. above the average. The mean reading for the month was 29·751 ins., being 0·043 in. below the average. From the 1st to the 3rd of March the barometer readings were above their average values, from the 4th to the end of the month they were all below, excepting on three days, viz., 10th, 11th, and 31st, which were 0·01 in., 0·13 in., and 0·15 in. respectively above their averages; the mean amount in defect of the average for these 28 days was 0·32 in. The mean reading for the month was 29·569 ins., being 0·172 in. below the average.

At Greenwich *the mean temperature* of January was 1°·4 below that of December; that of February was 0°·8 above that of January; and that of March was 2°·8 below that of February. (From the preceding 36 years' observations the *mean temperature* of January below that of December is 1°·5; that of February above that of January is 0°·6; and that of March above that of February is 2°·5.)

The mean temperature of the air for January below that of December over the whole country was very nearly alike, and averaged 1°·3; that of February above that of January was nearly the same everywhere, the average being 1°·1; and that of March below that of February was nearly uniform, and averaged 2°·8.

The mean temperature of the air for January was 42°·7, being 6°·2 and 4°·1 above the averages of the preceding 106 years, and 36 years respectively. In the preceding 106 years there are but 5 instances of so high a mean temperature for the month of January, viz.:—

In 1796 it was	45°·3	In 1846 it was	43°·7
1804 „	43·2	1875 „	43·4
1834 „	44·4		

The mean temperature of the air for February was 43°·5, being 4°·9 and 4°·3 above the averages of the preceding 106 years, and 36 years respectively. In the preceding 106 years there are only 8 instances of so high a mean temperature for the month of February, viz.:—

In 1779 it was	45°·3	In 1850 it was	44°·7
1794 „	44·7	1867 „	44·7
1809 „	44·1	1869 „	45·3
1846 „	43·9	1872 „	44·8

The mean temperature of the air for March was 40°·7, being 0°·4 and 1°·0 below the averages of the preceding 106 years, and 36 years respectively; it was higher than the values in 1874 and 1876 by 3°·0, and 0°·4 respectively; but 0°·5 above that in 1875.

The mean temperature of the air for the quarter was 42°·3, being 3°·6 and 2°·5 above the averages of the preceding 106 years, and 36 years respectively. In the preceding 106 years, there are but 6 instances of so high a mean temperature in the quarter, viz.:—

In 1779 it was	42°·4	In 1846 it was	43°·6
1822 „	43·5	1863 „	42·6
1834 „	42·9	1872 „	43·6

The mean high day temperatures of the air were respectively 4°·7 and 3°·8 above their averages in January and February; but 1°·4 below in March.

The mean low night temperatures of the air were respectively 3°·1 and 4°·2 higher than their averages in January and February; but 0°·7 lower in March. Therefore the days and nights were warm in January and February, but somewhat cold in March.

The mean daily ranges of temperature were respectively 0°·4, and 0°·6 below their averages in February and March, but 1°·6 above in January.

At Greenwich the atmospheric pressure in January was greater than in December by 0·354 in., in February greater than in January by 0·086 in., and in March less than in February by 0·182 in. (From the preceding 36 years' observations the mean pressure in January is less than in December by 0·055 in., that in February greater than in January by 0·044 in., and that in March less than in February by 0·053 in.) The mean increase of pressure from December to

January south of latitude 51° was 0·392 in., between 51¼° and 52° it was 0·352 in., between 52¼° and 53¾° it was 0·325 in.; and north of 54° was 0·275 in. The mean increase of pressure from January to February, south of latitude 51° was 0·175 in.; and north of 51¼° it was 0·093 in. The mean decrease of pressure from February to March, south of latitude 51¼° was 0·222 in., between 51½° and 52° it was 0·171 in., between 52¼° and 53¾° it was 0·134 in., and north of this parallel was 0·102 in.

1877. Months.	Temperature of Air. Mean.	Air. Diff. from average of 106 years.	Air. Diff. from average of 36 years.	Evaporation. Mean.	Evaporation. Diff. from average of 36 years.	Dew Point. Mean.	Dew Point. Diff. from average of 36 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 36 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 36 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 36 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.
Jan. -	42·7	+6·2	+4·1	41·0	+3·9	39·0	+3·9	11·3	+1·6	43·4	0·236	+0·035	2·7	+0·3
Feb. -	43·5	+4·9	+4·3	40·9	+3·4	37·8	+2·9	10·9	−0·4	43·1	0·227	+0·022	2·6	+0·2
Mar. -	40·7	−0·4	−1·0	38·2	−1·0	35·0	−1·4	14·0	−0·6	42·4	0·204	−0·012	2·4	−0·2
Means -	42·3	+3·6	+2·5	40·0	+2·1	37·3	+1·8	12·1	+0·2	43·0	0·222	+0·015	2·6	+0·1

1877. Months.	Degree of Humidity. Mean.	Humidity. Diff. from average of 36 years.	Reading of Barometer. Mean.	Barometer. Diff. from average of 36 years.	Weight of a Cubic Foot of Air. Mean.	Weight of Air. Diff. from average of 36 years.	Rain. Amount.	Rain. Diff. from average of 62 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
Jan. -	86	−1	29·665	−0·085	547	− 6	4·4	+2·5	370	10	16	5	23·1	42·0
Feb. -	80	−5	29·751	−0·043	548	− 5	1·7	+0·2	408	9	14	5	19·0	46·0
Mar. -	81	−1	29·569	−0·172	548	− 2	2·2	+0·6	307	17	13	1	18·2	42·9
Means -	82	−2	29·662	−0·100	548	− 4	Sum 8·3	Sum +3·3	Mean 362	Sum 36	Sum 43	Sum 11	Lowest 18·2	Highest 46·0

NOTE.—In reading this table it will be borne in mind that the minus sign (−) signifies *below* the average, and that the plus sign (+) signifies *above* the average.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter were as follows:—

Direction of Wind.	January. Average.	January. 1877.	January. Departure from Average.	February. Average.	February. 1877.	February. Departure from Average.	March. Average.	March. 1877.	March. Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	1½	2	+ ½	2	4	+2	2¾	5	+2¼
N.	3	1	−2	3	2	−1	3¾	4	+ ¼
N.E.	3½	2	−1½	3½	1	−2½	4	2	−2
E.	¾	2	+1¼	2	0	−2	2½	1	−1½
S.E.	2¼	3	+ ¾	1¼	0	−1¼	2	2	0
S.	4½	9	+4½	3	3	0	2½	4	+1½
S.W.	9¾	7	−2¾	8	11	+3	7¾	9	+1¼
W.	3½	5	+1½	2¾	7	+4¼	3¼	4	+ ¾
Calm (nearly.)	2¾	0	−2¾	2½	0	−2½	2¼	0	−2¼

The plus sign (+) denotes excesses over averages; in the month of January the largest numbers affected with this sign are opposite to the S. and W., in February to the S.W.,W., and N.W., and in March to the N.W.

The minus sign (−) denotes defects below averages; in the month of January the largest numbers affected with this sign are opposite to the N. and S.W., in February and March to the N.E. and E.

Thunderstorms occurred on 6 days in January, 3 days in February, and on 6 days in March.
Thunder was heard on 3 days in January, 1 day in February, and on 3 days in March.
Lightning was seen on 7 days in January, 1 day in February, and on 2 days in March.
Solar halos were seen on 19 days during the quarter.
Lunar halos were seen on 24 nights during the quarter.
Aurora borealis was seen on the 23rd of January at Guernsey.
Snow fell on 14 days in January, 11 days in February, and on 17 days in March.
Hail fell on 43 days during the quarter.
Fog prevailed on 19 days in January, 8 days in February, and on 18 days in March.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING MARCH 31ST, 1877.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the sixth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1877. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.M.S.	204	Jan.	29·642	1·620	55·5	37·5	18·0	51·5	43·4	8·1	47·3	43·9	·288	3·3	0·4	88	541	–	–	2·1	4	4	12	11	5·0	7·3	29	6·69
		Feb.	29·822	0·986	54·0	34·0	20·0	50·6	43·5	7·1	46·5	42·3	·270	3·1	0·6	86	546	–	–	1·9	6	0	8	14	4·8	6·8	25	1·24
		Mar.	29·537	1·591	55·5	31·0	24·5	49·0	38·8	10·2	43·2	39·0	·238	2·7	0·5	85	545	–	–	1·5	8	4	7	12	3·5	5·6	19	2·58
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	Jan.	29·739	1·755	64·0	32·0	32·0	52·7	41·0	11·7	46·8	43·0	·277	3·1	0·5	87	544	57·3	36·1	2·6	4	2	15	10	8·0	6·9	26	5·87
		Feb.	29·968	0·785	56·0	30·0	26·0	52·6	41·5	11·1	47·2	42·6	·273	3·2	0·4	85	548	59·1	38·6	2·4	8	0	4	16	9·3	6·2	23	2·28
		Mar.	29·707	1·574	65·0	29·0	36·0	52·8	38·3	14·5	44·9	40·2	·249	2·9	0·5	84	546	63·0	35·8	2·2	10	3	6	12	7·4	4·8	20	2·70
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	Jan.	29·766	1·707	56·0	29·0	27·0	52·1	40·8	11·3	46·4	42·6	·273	3·1	0·5	87	545	–	–	2·8	5	2	12	12	–	7·6	28	7·18
		Feb.	30·011	0·833	57·0	33·0	24·0	52·1	43·7	8·4	47·3	43·1	·278	3·2	0·5	86	548	–	–	3·4	8	0	3	17	–	7·0	26	2·01
		Mar.	29·782	1·350	59·0	25·0	34·0	51·3	37·5	13·8	43·3	38·7	·235	2·7	0·6	83	549	–	–	2·5	12	2	7	10	–	6·5	22	2·62
PLYMOUTH (Devon), John Merrifield, Esq., F.R.A.S., F.M.S., LL.D.	69	Jan.	29·819	1·806	55·0	30·5	24·5	49·8	40·2	9·6	45·5	44·4	·292	3·3	0·2	96	546	–	38·6	1·7	5	5	11	10	–	7·5	29	6·44
		Feb.	30·038	0·976	57·5	32·0	25·5	52·1	41·5	10·6	46·6	43·2	·289	3·2	0·5	89	549	–	38·5	1·4	7	0	3	18	–	7·4	19	1·92
		Mar.	29·795	1·662	58·5	27·0	31·5	49·9	36·4	13·5	42·9	40·7	·255	2·9	0·2	92	549	–	33·9	1·2	10	4	6	11	–	5·7	25	3·47
VENTNOR (Royal National Hospital), Isle of Wight, Hartley Sagar, Esq.	150	Jan.	29·840	1·594	55·3	34·3	21·0	52·0	42·1	9·9	47·8	43·6	·283	3·2	0·6	87	544	–	–	–	5	3	9	14	8·0	7·3	25	6·92
		Feb.	29·878	1·094	58·6	27·4	31·2	52·0	42·4	9·6	47·8	41·9	·265	3·0	0·7	81	545	–	–	–	6	1	5	16	6·8	7·1	21	1·81
		Mar.	29·683	1·510	60·9	28·0	32·9	52·0	38·3	13·7	43·8	38·2	·239	2·6	0·6	80	546	–	–	–	9	5	6	11	6·8	5·8	17	2·30
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	Jan.	29·665	1·793	54·1	28·2	25·9	49·3	38·2	11·1	44·4	42·5	·273	3·2	0·2	93	545	63·9	33·6	0·6	3	3	15	10	–	7·4	27	6·54
		Feb.	29·774	1·082	55·0	25·2	29·8	49·4	39·8	9·6	44·7	41·5	·261	3·0	0·4	89	547	77·2	35·6	0·3	3	1	5	19	–	7·8	16	1·80
		Mar.	29·582	1·468	58·4	21·3	37·1	49·9	34·4	15·5	42·0	37·5	·225	2·6	0·5	85	546	94·9	30·4	0·1	8	3	8	12	–	6·6	15	1·88
BRIGHTON (Sussex), F. E. Sawyer, Esq., F.M.S.	206	Jan.	29·668	1·844	54·7	31·4	23·3	48·5	39·5	9·0	44·3	41·5	·261	3·0	0·4	90	545	–	36·6	1·2	5	3	13	10	–	7·9	28	6·28
		Feb.	29·741	1·195	54·4	25·0	29·4	48·5	39·4	9·1	44·0	40·7	·254	2·9	0·4	88	547	–	37·4	0·8	6	0	3	19	–	8·3	20	1·84
		Mar.	29·550	1·458	55·0	25·4	29·6	46·6	35·4	11·2	40·5	36·9	·219	2·5	0·4	87	547	–	33·1	0·9	9	4	6	12	–	5·9	19	2·36
TAUNTON (Somerset), W. Tuckwell, Esq.	80	Feb.	29·907	1·018	57·0	28·0	29·0	51·2	40·6	10·6	45·6	42·1	·268	3·0	0·5	88	548	57·6	36·6	0·3	8	0	1	19	2·2	6·7	16	1·54
		Mar.	29·710	1·585	61·0	21·0	40·0	50·4	35·2	15·2	42·4	39·3	·241	2·8	0·4	89	548	59·0	32·3	0·2	10	3	5	13	2·1	6·3	16	1·76
SALISBURY (Wilton House), T. Challis, Esq.	186	Jan.	29·630	1·852	55·0	26·0	29·0	49·4	35·3	14·1	42·9	40·5	·253	3·0	0·2	91	546	64·6	34·5	1·9	5	4	11	11	–	6·9	27	7·60
		Feb.	29·757	1·142	57·0	23·0	34·0	50·5	36·7	13·8	43·8	39·8	·246	2·8	0·5	86	548	73·3	35·9	1·5	9	0	5	14	–	6·3	15	1·68
		Mar.	29·565	1·516	60·0	18·0	42·0	50·3	32·0	18·3	41·0	36·3	·213	2·5	0·5	83	547	83·9	30·2	1·5	14	2	4	11	–	5·9	19	2·03
BARNSTAPLE (Devon), William Knile, Esq.	43	Jan.	29·739	1·720	57·0	33·0	24·0	51·4	41·1	10·3	46·1	42·0	·268	3·1	0·5	87	544	–	–	1·5	3	3	14	11	–	6·7	28	5·23
		Feb.	29·959	0·840	58·0	33·0	25·0	51·6	42·8	8·8	47·0	43·0	·277	3·2	0·5	87	548	–	–	1·3	5	0	6	17	–	6·4	23	3·33
		Mar.	29·748	1·600	59·0	27·0	32·0	50·9	39·0	11·9	44·4	39·2	·240	2·8	0·6	82	547	–	–	1·3	6	3	8	14	–	3·9	21	3·90
CATERHAM (Surrey), James Adam, Esq., M.D.	660	Jan.	29·167	1·850	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2·3	4	2	11	14	0·7	4·1	24	7·45
		Feb.	29·250	1·120	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2·4	10	0	4	14	–	4·5	15	2·79
		Mar.	29·077	1·350	54·0	24·0	30·0	46·4	34·5	11·9	40·0	34·9	·263	2·4	0·5	82	540	–	32·4	2·2	9	3	7	12	0·7	4·5	22	2·71

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1877. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
RAMSGATE (St. Augustine's Monastery), Rev. T. Hugh Quelch, O.S.B.	108	Jan.	29·747	1·799	55·4	30·0	25·4	49·1	36·6	12·5	43·4	40·3	·251	2·9	0·4	89	548	74·5	33·5	2·2	5	3	15	8	–	6·8	19	4·63
		Feb.	29·795	1·365	57·0	25·9	31·1	45·6	39·4	6·2	43·0	39·9	·247	2·8	0·4	89	549	86·4	35·3	2·0	5	0	6	17	–	7·4	18	1·89
		Mar.	29·571	1·367	55·9	25·7	30·2	47·0	35·9	11·1	42·3	37·2	·222	2·6	0·6	83	546	88·4	31·2	1·8	6	3	6	16	–	7·0	21	3·33
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	Jan.	29·621	1·881	55·0	28·3	26·7	48·9	37·2	11·7	43·3	39·8	·245	2·8	0·4	88	546	70·8	32·0	0·7	5	3	13	10	2·0	7·4	26	4·06
		Feb.	29·741	1·147	57·9	24·6	33·3	47·8	39·1	8·7	44·0	38·9	·236	2·7	0·6	81	547	81·0	34·1	0·7	9	0	3	16	2·5	7·5	16	1·38
		Mar.	29·757	1·449	58·3	21·8	36·5	48·7	34·0	14·7	40·7	35·9	·211	2·5	0·5	84	548	91·3	27·6	0·6	9	3	6	13	2·0	6·6	19	1·84
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	Jan.	29·711	1·935	55·5	27·0	28·5	47·5	36·9	10·6	42·2	39·7	·243	2·8	0·3	90	548	58·4	33·6	1·1	4	5	16	6	2·0	6·8	27	4·83
		Feb.	29·807	1·208	58·3	22·0	36·3	49·4	38·2	11·2	43·5	39·8	·246	2·8	0·4	87	549	68·0	34·5	1·1	7	0	9	12	2·7	6·3	18	1·59
		Mar.	29·606	1·480	61·0	19·5	41·5	50·0	33·0	17·0	40·7	37·1	·221	2.6	0·4	88	548	79·7	29·6	0·8	7	4	12	8	3·3	5·2	17	2·28
EAST TILBURY Vicarage (Essex), Rev. R. Tyas, M.A., LL.D.	29	Jan.	29·826	1·854	57·4	25·6	31·8	50·5	35·3	15·2	43·2	39·7	·245	2·8	0·5	88	549	49·9	34·3	0·1	5	1	12	13	–	7·4	25	4·91
		Feb.	29·900	1·244	60·0	20·2	39·8	52·7	37·6	15·1	45·2	38·9	·237	2·8	0·7	79	549	50·6	37·0	0·2	11	0	4	13	–	7·8	12	0·91
		Mar.	29·745	1·384	58·4	23·0	35·4	50·8	34·5	16·3	41·6	37·8	·228	2·6	0·3	88	550	57·8	32·1	0·1	9	3	7	12	–	7·1	20	3·31
MARLBOROUGH, The Green (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	474	Jan.	29·309	1·976	53·3	28·8	24·5	47·9	36·5	11·4	42·0	39·1	·238	2·7	0·4	90	541	66·0	33·6	0·6	5	2	13	11	–	6·9	28	5·72
		Feb.	29·434	1·106	56·2	24·7	31·5	48·6	38·4	10·2	43·0	39·7	·244	2·8	0·4	88	543	78·3	34·9	0·5	4	0	5	19	–	7·2	20	1·75
		Mar.	29·248	1·488	57·8	20·8	37·0	47·9	33·6	14·3	40·2	35·9	·211	2·4	0 5	85	542	87·5	29·1	0·2	9	2	4	16	–	6·7	18	2·41
BLACKHEATH (London), James Glaisher, Esq., F.R.S.	160	Jan.	29·656	1·912	58·3	28·6	29·7	49·5	36·8	12·7	43·1	39·2	·239	2·8	0·4	86	547	67·9	34·0	1·2	3	5	14	9	–	7·0	23	4·37
		Feb.	29·749	1·218	60·1	24·5	35·6	50·4	38·0	12·4	44·0	38·8	·236	2·7	0·6	81	547	77·6	35·9	1·3	4	1	9	14	–	6·8	16	1·78
		Mar.	29·576	1·410	61·7	22·8	38·9	49·3	34·1	15·2	40·8	35·6	·209	2·4	0 6	82	548	86·8	31·7	0·9	7	3	10	11	–	6·4	18	2·47
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.A.S., F.M.S.	150	Jan.	29·663	1·906	55·0	28·8	26·2	48·8	38·2	10·6	44·0	40·5	·252	2·9	0·4	87	545	–	–	2·0	5	2	12	12	–	7·0	25	5·28
		Feb.	29·722	1·134	58·0	27·3	30·7	49·9	39·5	10·4	44·9	39·5	·242	2·8	0·6	82	546	–	–	2·3	9	3	2	14	–	6·8	14	1·46
		Mar.	29·602	1·463	58·1	20·3	37·8	48·7	34·6	14·1	41·7	36·3	·215	2·5	0·6	82	547	–	–	1·5	11	7	5	8	–	5·8	19	2·11
CHISWICK (Middlesex), J. K. L. M. Farquhar, Esq.	25	Jan.	29·789	1·962	57·0	26·0	31·0	50·3	35·6	14·7	43·2	40·1	·249	2·9	0·3	89	549	69·6	33·5	1·1	2	3	13	13	–	7·7	24	5·03
		Feb.	29·882	1·152	59·0	25·0	34·0	50·9	38·3	12·6	44·8	38·7	·235	2·7	0·7	79	549	83·7	—	1·2	3	0	4	21	–	8·1	13	1·85
		Mar.	29·711	1·216	58·0	21·0	37·0	49·2	33·9	15·3	40 8	36·7	·217	2·5	0·5	86	550	90·5	30·0	1·2	7	3	8	13	–	5·5	15	2·14
CAMDEN SQUARE (London), G. J. Symons, Esq., F.M.S.	123	Jan.	29·701	1·899	56·4	28·5	27·9	48·5	37·4	11·1	43·3	39·6	·244	2·8	0·4	87	547	56·5	34·3	—	5	2	14	10	–	7·1	25	4·74
		Feb.	29·793	1·172	58·5	25·3	33·2	49·4	38·6	10·8	44·0	39·6	·244	2·8	0·5	84	548	69·3	36·1	—	9	0	3	16	–	6·3	17	1·78
		Mar.	29·635	1·534	59·4	23·5	35·9	48·6	34·9	13·7	41·4	37·3	·224	2·6	0·5	86	548	79·7	32·4	—	12	1	6	12	–	6·6	20	2·38
OXFORD OBSERVATORY, Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	Jan.	29·596	1·628	56·2	29·3	26·9	48·8	37·8	11·0	43·2	39·7	·245	2·8	0·4	88	546	73·5	34·7	1·0	3	5	14	9	2·3	7·6	26	4·63
		Feb.	29·711	1·084	55·0	22·9	32·1	48·9	39·2	9·7	44·0	39·2	·240	2·8	0·5	83	547	84·8	35·8	1·1	4	0	6	18	3·0	7·5	15	1·58
		Mar.	29·510	1·406	55·8	24·7	31·1	48·2	35·9	12·3	41·9	36·3	·215	2·5	0·6	82	545	92·0	32·7	0·8	5	4	6	16	2·9	7·5	20	1·98
GLOUCESTER ASYLUM, E. Toller, Esq., M.D.	100	Jan.	29·723	1·882	61·7	28·5	33·2	50·2	36·0	14·2	43·1	38·7	·235	2·7	0·5	84	548	65·0	30·0	0·7	3	3	8	17	1·6	7·0	24	4·35
		Feb.	29·864	0·951	57·5	24·5	33·0	50·6	37·4	13·2	44·2	39·6	·244	2·8	0·5	84	549	69·2	33·2	0·6	10	2	2	14	1·4	7·6	15	1·59
		Mar.	29·685	1·518	61·0	17·5	43·5	50·9	34·9	16·0	42·2	35·1	·205	2·4	0·7	77	548	82·8	27·1	0·4	9	3	3	16	2·4	6·5	15	1·46
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	Jan.	—	1·896	56·2	28·0	28·2	48·1	35·0	13·1	41·7	38·6	·234	2·7	0·3	89	547	–	–	–	3	2	16	10	–	6·0	26	3·17
		Feb.	29·623	1·108	57·0	22·4	34·6	49·2	36·2	13·0	42·8	38·1	·231	2·6	0·5	84	546	–	–	–	5	0	6	17	–	6·9	15	1·94
		Mar.	29·460	1·364	57·8	21·8	36·0	48·5	32·6	15·9	39·7	35·3	·206	2·4	0·5	85	547	–	–	–	6	4	8	13	–	6·7	19	1·81
CARDINGTON (near Bedford), Mr. J. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	105	Jan.	29·687	1·906	57·6	28·0	29·6	47·9	35·6	12·3	41·8	39·8	·245	2·8	0·3	92	548	50·4	29·6	2·2	3	3	11	14	–	6·6	22	3·25
		Feb.	29·786	1·140	57·4	22·6	34·8	49·2	37·2	12·0	43·0	40·1	·249	2·8	0·4	90	549	60·9	31·9	2·3	8	0	2	18	–	6·6	13	1·70
		Mar.	29·632	1·430	56·4	21·6	34·8	47·7	33·7	14·0	40·1	35·3	·206	2·4	0·5	83	550	67·2	27·6	1·8	9	3	7	12	–	6·7	14	1·57
CAMBRIDGE, J. W. L. Glaisher, Esq., M.A., F.R.S.	40	Jan.	29·746	1·918	57·7	27·8	29·9	48·3	37·4	10·9	42·8	39·5	·243	2·8	0·4	88	548	72·3	31·0	1·7	5	2	14	10	–	6·8	24	2·56
		Feb.	29·823	1·192	56·8	23·8	33·0	49·2	38·6	10·6	43·6	39·3	·241	2·8	0·5	85	549	88·1	32·3	1·8	6	1	7	14	–	7·4	20	1·96
		Mar.	29·674	1·410	57·5	23·2	34·3	48·5	34·0	14·5	40·6	36·5	·216	2·5	0·5	86	550	96·7	26·2	1·2	8	4	8	11	–	6·8	24	1·71

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1877. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°								in.
LAMPETER (Cardiganshire), St. David's College, Prof. A. W. Scott, M.A.	420	Jan.	29·329	1·714	53·5	25·0	28·5	48·5	35·5	13·0	42·5	40·5	·252	2·9	0·2	93	541	62·7	—	—	2	5	15	9	—	—	24	7·66
NORWICH (Norfolk), John Quinton, Esq., Jun.	42	Jan.	29·761	1·862	56·0	31·0	25·0	47·3	38·6	8·7	42·8	41·5	·262	3·0	0·1	95	550	—	—	—	2	4	15	10	—	—	24	7·66
		Feb.	29·798	1·304	55·0	20·0	35·0	48·0	38·2	9·8	42·5	41·4	·261	3·1	0·1	96	550	—	—	—	3	0	7	18	—	—	22	2·66
		Mar.	29·673	1·304	56·0	26·5	29·5	46·2	35·9	10·3	40·1	37·6	·225	2·6	0·3	91	550	—	—	—	5	5	9	12	—	—	19	1·91
LEICESTER (Town Museum), W. J. Harrison, Esq., F.G.S.	245	Jan.	29·510	1·883	56·8	29·9	26·9	47·4	37·3	10·1	42·2	38·4	·233	2·7	0·4	87	545	66·0	30·1	1·5	2	5	16	8	—	6·7	22	3·05
		Feb.	29·609	1·109	56·2	22·8	33·4	48·1	38·4	9·7	43·3	38·3	·231	2·7	0·6	82	545	78·5	30·4	1·4	6	0	7	15	—	6·8	18	2·32
		Mar.	29·460	1·412	54·7	22·0	32·7	47·4	34·9	12·5	40·6	35·1	·205	2·4	0·6	87	546	91·5	27·4	1·3	7	3	8	13	—	6·9	20	1·84
WISBECH (Cambridgeshire), S. H. Miller, Esq., F.R.A.S., F.M.S.	14	Jan.	29·778	1·874	56·5	29·0	27·5	47·0	37·0	10·0	41·8	39·4	·242	2·8	0·2	92	550	65·9	34·3	0·8	3	7	14	7	4·3	6·9	22	3·26
		Feb.	29·838	1·170	54·8	24·8	30·0	48·2	37·7	10·5	42·4	39·5	·242	2·8	0·3	90	550	75·4	34·1	0·7	3	0	11	14	4·8	7·1	19	1·99
		Mar.	29·703	1·362	57·7	23·7	34·0	47·6	34·1	13·5	40·0	36·1	·212	2·4	0·5	86	551	84·8	29·7	0·5	8	3	10	10	5·6	6·5	20	1·74
NOTTINGHAM, M.O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	183	Jan.	29·544	1·868	57·8	27·6	30·2	47·7	36·3	11·4	41·9	38·8	·237	2·8	0·3	90	546	59·3	31·8	0·6	3	3	16	9	5·0	7·0	28	3·59
		Feb.	29·637	1·003	56·7	21·6	35·1	48·6	37·0	11·6	42·7	38·6	·234	2·7	0·5	86	547	73·3	33·2	0·5	5	0	10	13	3·7	6·1	22	1·94
		Mar.	29·514	1·390	57·3	18·1	39·2	47·8	33·3	14·5	39·7	35·3	·207	2·4	0·5	85	548	82·7	30·5	0·4	9	1	10	11	2·3	6·2	22	2·01
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	39	Jan.	29·740	1·860	56·5	22·0	34·5	47·2	32·4	14·8	42·6	38·7	·235	2·5	0·5	86	549	51·0	30·9	2·0	3	4	17	7	—	7·0	18	2·50
		Feb.	29·764	1·208	55·0	21·2	33·8	48·4	32·0	16·4	42·7	39·0	·237	2·7	0·4	86	549	73·2	31·4	2·1	6	0	10	12	—	7·7	19	3·05
		Mar.	29·650	1·358	56·2	19·0	37·2	46·1	28·9	17·2	40·1	37·1	·221	2·2	0·4	89	550	88·7	28·0	1·2	9	4	8	10	—	6·6	19	2·00
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	100	Jan.	29·604	1·750	56·2	31·0	25·2	49·1	38·6	10·5	44·0	38·1	·230	2·7	0·6	79	545	—	—	0·8	3	2	8	18	—	6·7	24	5·14
		Feb.	29·764	1·110	56·0	28·5	27·5	48·9	41·2	7·7	45·0	39·6	·243	2·8	0·6	82	546	—	—	1·0	7	0	4	17	—	7·1	22	4·14
		Mar.	29·615	1·460	54·5	30·0	24·5	48·9	37·3	11·6	43·0	37·7	·226	2·6	0·6	82	546	—	—	0·8	6	5	3	17	—	6·2	21	2·62
KELSTERN GRANGE (near) Louth (Lincolnshire), D. Grant Briggs, Esq., F.M.S.	393	Jan.	29·345	1·871	54·7	27·8	26·9	44·7	34·3	10·4	39·2	37·4	·224	2·6	0·2	94	546	70·9	29·4	1·2	5	3	11	12	8·2	6·3	21	3·98
		Feb.	29·401	1·216	55·1	18·9	36·2	46·2	34·5	11·7	40·0	37·9	·228	2·6	0·3	93	545	88·7	29·8	0·8	6	2	5	15	8·4	6·3	20	2·62
		Mar.	29·286	1·348	54·6	18·8	35·8	45·5	32·3	13·2	38·0	35·6	·208	2·4	0·3	91	546	94·4	26·5	0·8	7	4	7	13	8·7	5·6	21	2·12
LIVERPOOL OBSERVATORY, John Hartnup, Esq., F.R.A.S.	197	Jan.	29·505	1·801	57·2	31·4	25·8	46·9	37·6	9·3	42·0	37·5	·225	2·6	0·5	85	545	—	—	1·5	2	8	13	8	—	6·6	21	4·44
		Feb.	29·638	1·096	54·9	30·4	24·5	47·9	40·6	7·3	43·6	40·5	·253	2·9	0·4	89	546	—	—	1·8	5	0	5	18	—	7·4	23	3·54
		Mar.	29·499	1·460	55·6	26·4	29·2	45·9	36·1	9·8	40·4	34·9	·203	2·4	0·6	81	547	—	—	1·5	6	7	6	12	—	6·3	20	2·29
ECCLES (near Manchester), T. Mackereth, Esq., F.R.A.S., F.M.S.	145	Jan.	29·587	1·762	56·9	26·4	30·5	47·6	35·3	12·3	41·7	37·6	·225	2·6	0·4	88	547	49·5	28·2	0·9	2	5	13	11	2·6	8·5	24	5·28
		Feb.	29·698	1·080	54·5	23·0	31·5	47·9	36·8	11·1	42·4	38·4	·232	2·7	0·5	86	548	52·8	29·7	0·7	7	0	4	17	3·6	7·6	23	4·19
		Mar.	29·538	1·416	56·7	17·4	39·3	48·0	32·3	15·7	40·0	35·6	·208	2·4	0·5	85	548	57·3	25·4	0·3	8	6	5	12	2·5	7·6	25	2·46
BERMERSIDE OBSERVATORY, HALIFAX (Yorkshire), Edward Crossley, Esq., F.R.A.S.	520	Jan.	—	1·840	57·0	26·0	31·0	44·8	34·9	9·9	39·8	35·7	·209	2·4	0·5	86	544	66·5	—	1·1	3	4	11	13	—	7·2	20	5·58
		Feb.	29·264	0·992	55·0	27·0	28·0	46·0	37·5	8·5	42·8	39·5	·243	2·8	0·4	88	539	78·6	—	0·8	4	0	9	15	—	7·2	20	4·29
		Mar.	29·154	1·350	55·4	28·0	27·4	45·2	33·5	11·7	38·1	34·3	·198	2·3	0·4	86	543	80·6	28·8	0·5	5	6	8	12	—	6·8	18	3·75
HULL (Yorkshire), Mr. E. Peak.	12	Jan.	29·736	1·882	57·0	28·0	29·0	44·7	36·1	8·6	40·7	36·9	·218	2·5	0·4	86	551	53·3	33·3	—	—	—	—	—	2·2	—	21	2·63
		Feb.	29·795	1·096	56·0	22·0	34·0	47·2	36·4	10·8	42·0	37·5	·225	2·6	0·5	85	550	64·2	34·5	—	—	—	—	—	2·1	—	20	2·50
		Mar.	29·690	1·313	54·0	23·0	31·0	46·3	33·8	12·5	39·5	35·1	·205	2·4	0·5	85	551	64·0	31·4	—	—	—	—	—	2·5	—	21	2·22
STONYHURST (Lancashire), Rev. S. J. Perry, F.M.S., F.R.S., F.R.A.S.	363	Jan.	29·324	1·805	59·9	24·1	35·8	44·4	35·2	9·2	40·3	36·7	·217	2·5	0·4	88	544	69·4	31·7	1·9	2	5	8	16	—	8·2	23	6·10
		Feb.	29·438	1·115	58·3	13·9	44·4	47·3	35·9	11·4	42·0	38·2	·231	2·7	0·4	87	544	81·7	32·3	2·0	4	0	4	20	—	7·9	22	5·36
		Mar.	29·308	1·398	53·2	20·5	32·7	46·9	32·6	14·3	39·2	35·3	·207	2·4	0·4	85	544	92·1	29·2	1·4	8	4	2	17	—	8·1	20	4·37
LEEDS (Philosophical Hall) (Yorkshire), Louis C. Miall, Esq.	137	Jan.	29·595	1·848	58·0	30·0	28·0	45·0	36·8	8·2	41·5	36·3	·215	2·4	0·6	83	547	47·8	—	1·5	5	9	7	10	—	5·4	19	3·76
		Feb.	29·638	1·088	56·0	24·0	32·0	48·6	38·6	10·0	43·7	40·0	·247	2·8	0·4	86	545	60·4	—	1·6	6	1	6	15	—	4·5	15	1·72
		Mar.	29·550	1·377	54·0	30·0	24·0	47·6	35·3	12·3	40·6	34·7	·201	2·3	0·6	80	547	61·3	—	1·5	7	4	5	15	—	4·4	18	2·63

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1877. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°								in.
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	366	Jan.	29·301	1·864	57·2	30·8	26·4	45·0	37·6	7·4	41·2	36·7	·217	2·5	0·5	84	542	52·0	—	1·3	5	4	12	10	—	8·4	24	4·65
		Feb.	29·422	1·018	58·4	23·0	35·4	47·6	39·0	8·6	42·6	36·2	·214	2·6	0·7	79	543	58·0	—	1·3	5	1	5	17	—	6·8	22	2·60
		Mar.	29·289	1·360	54·0	20·0	34·0	44·1	34·9	9·2	38·6	33·4	·192	2·2	0·5	83	545	58·6	—	1·2	9	4	6	12	—	6·4	23	3·14
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.R.A.S., F.M.S.	146	Jan.	29·497	1·782	52·1	24·3	27·8	45·4	37·7	7·7	41·7	37·9	·228	2·6	0·4	87	545	50·8	28·3	0·6	6	5	8	12	3·9	7·5	27	8·53
		Feb.	29·639	1·234	51·9	17·8	34·1	46·6	38·7	7·9	42·2	39·8	·245	2·8	0·3	91	547	65·4	27·9	0·5	5	0	7	16	4·1	6·5	23	3·91
		Mar.	29·526	1·236	56·3	19·8	36·5	46·9	34·0	12·9	39·9	35·1	·205	2·4	0·5	83	548	76·1	24·4	0·4	7	5	8	11	3·1	7·4	18	2·36
ALLENHEADS (Northumberland), Mr. T. Kidd, Assistant to W. B. Beaumont, Esq., M.P.	1360	Jan.	28·206	1·694	—	13·0	—	—	30·0	—	—	—	—	—	—	—	—	62·2	—	1·3	5	9	7	10	—	7·1	23	7·89
		Feb.	28·319	0·993	—	14·0	—	—	31·4	—	—	—	—	—	—	—	—	68·4	—	1·4	6	0	5	17	—	7·6	22	4·76
		Mar.	28·203	1·251	—	16·0	—	—	28·2	—	—	—	—	—	—	—	—	76·6	—	0·9	7	5	8	11	—	5·6	23	6·10
SILLOTH RECTORY (Cumberland), Rev. Francis Redford, M.A., F.R.A.S., F.M.S.	28	Jan.	29·642	1·804	53·3	23·1	30·2	46·3	35·2	11·1	40·7	37·3	·222	2·6	0·4	88	549	62·8	31·5	2·2	2	7	12	10	8·8	5·7	26	6·41
		Feb.	29·722	1·503	58·2	17·2	41·0	49·6	37·6	12·0	42·9	38·7	·235	2·7	0·5	85	548	77·4	33·6	1·6	8	0	5	15	7·0	5·0	15	2·68
		Mar.	29·660	1·220	55·3	19·0	36·3	49·4	33·4	16·0	40·4	36·3	·214	2·5	0·5	85	550	78·7	29·1	1·8	8	5	9	9	8·6	5·4	17	1·97
CARLISLE (Cumberland), Isaac Cartmell, Esq., F.M.S.	114	Jan.	29·537	1·700	55·0	21·8	33·2	45·8	33·7	12·1	39·5	36·5	·217	2·5	0·3	89	548	55·7	29·0	2·0	4	6	9	12	7·8	7·0	24	5·23
		Feb.	29·707	1·390	55·0	11·8	43·2	47·1	35·1	12·0	41·3	36·8	·218	2·6	0·5	85	550	71·9	30·2	2·3	5	1	3	19	7·6	6·5	20	2·64
		Mar.	29·567	1·152	54·4	22·2	32·2	46·5	32·0	14·5	39·2	36·0	·212	2·2	0·4	89	549	76·0	27·1	1·9	7	4	6	14	5·9	6·0	16	2·20
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	Jan.	29·540	1·728	52·0	27·0	25·0	45·6	36·2	9·4	40·7	33·9	·195	2·3	0·7	77	547	51·4	30·6	1·6	3	7	8	13	—	6·5	25	4·50
		Feb.	29·623	1·150	56·0	24·0	32·0	49·2	38·3	10·9	42·8	36·0	·212	2·5	0·7	77	546	56·8	32·7	1·5	5	1	5	17	—	5·6	18	1·90
		Mar.	29·554	1·198	55·0	22·0	33·0	47·0	34·2	12·8	39·0	33·7	·194	2·2	0·6	82	549	56·3	28·6	1·5	7	7	4	13	—	5·9	22	4·78
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	Jan.	29·621	1·810	54·6	27·0	27·6	44·1	35·0	9·1	39·6	35·9	·211	2·4	0·4	87	550	—	34·0	1·6	5	3	8	15	—	6·2	25	3·08
		Feb.	29·665	1·205	52·6	22·0	30·6	46·3	36·6	9·7	41·1	36·4	·214	2·5	0·5	83	549	—	34·8	1·8	12	2	3	11	—	6·2	18	1·58
		Mar.	29·603	1·132	55·0	22·0	33·0	44·6	33·1	11·5	38·5	33·8	·195	2·3	0·5	84	551	—	30·6	1·8	8	4	7	12	—	6·2	20	1·70
MILLTOWN Banbridge, (Ireland), John P. Smyth, Esq., Jun., M.A., M.I.C.E.I., F.G.S.	200	Jan.	29·397	1·762	51·0	27·0	24·0	46·1	34·9	11·2	40·5	36·8	·218	2·5	0·4	87	545	63·2	31·2	2·3	5	6	17	3	—	5·7	28	5·95
		Feb.	29·620	0·896	53·0	26·0	27·0	47·6	37·9	9·7	42·6	38·6	·235	2·7	0·5	86	546	83·7	34·4	2·0	6	0	12	10	—	6·2	24	2·36
		Mar.	29·500	1·197	56·0	24·0	32·0	48·2	34·2	14·0	40·8	36·3	·214	2·5	0·5	84	546	103·2	29·7	1·6	6	2	12	11	—	5·2	22	3·60

NOTE.—*The Barometer Reading*, Gloucester, 1st January, 9h. a.m., 29·668 in., has been altered to 28·668 in.
" " " 1st " 4h. p.m., 29·946 in., " 28·946 in.
" " Chiswick, 1st " 9h. a.m., 29·746 in., " 28·746 in.
" " N. Shields, 1st " 2h. p.m., 29·82 in., " 28·82 in.
" " Llandudno, 4th " 9h. a.m., 29·970 in., " 28·870 in.
" " Leeds, 4th " 10h. a.m., 29·987 in., " 28·987 in.
" " Allenheads, 30th " 3h. p.m., 28·942 in., " 27·942 in.
" " Helston, 15th February, 9h. a.m., 30·836 in., " 29·836 in.
" " Ramsgate, 25th March, 9h. a.m., 29·898 in., " 28·898 in.
The Dry bulb Thermometer Reading, Llandudno, 23rd January, 9h. a.m., 48·8 " 43·8

Leeds, the fall of Rain in the months of January and February appear small.

NOTE.—*Holkham*, the readings of the minimum thermometer appear too low, and have not been used in deducing the mean temperature and hygrometrical results.

Second Rain-gauges are placed—

			January.	February.	March.	Total during the Quarter.
At Strathfield Turgiss, at the height of 38 feet *above the ground*, the amount collected was			2·87 inches.	0·97 inches.	1·73 inches.	5·57 inches.
" Oxford,	"	22 feet	4·30 "	1·36 "	1·82 "	7·48 "
" Cardington,	"	36 feet	2·70 "	1·40 "	1·20 "	5·30 "
" Wisbech,	"	8 feet	3·06 "	1·73 "	1·62 "	6·41 "
" Nottingham,	"	39 feet	3·00 "	1·64 "	1·86 "	6·50 "
" Holkham,	"	4 feet	2·13 "	2·68 "	1·84 "	6·65 "
" Eccles,	"	34 feet	4·05 "	3·45 "	2·09 "	9·59 "
" Milltown (Ireland),	"	49 feet	4·51 "	2·13 "	3·44 "	10·08 "

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·631	55·5	31·0	24·5	50·4	41·9	20·8	8·5	45·7	41·7	·265	3·0	0·5	86	544	—	—	1·8	6	3	9	12	4·4	6·6	73	11·21
Helston	29·656	65·0	29·0	36·0	52·7	40·3	31·3	12·4	46·3	41·9	·266	3·1	0·5	85	546	59·8	36·8	2·4	7	2	8	13	8·2	6·0	69	10·87
Truro	29·638	59·0	25·0	34·0	51·8	40·7	28·3	11·1	45·7	41·5	·262	3·0	0·5	85	547	—	—	2·9	8	2	7	13	—	7·0	76	11·81
Plymouth	29·682	58·5	27·0	31·5	50·6	39·4	27·2	11·2	45·0	42·8	·276	3·1	0·3	92	548	—	37·0	1·4	7	3	7	13	—	6·9	73	11·70
Ventnor	—	60·9	27·4	33·5	52·0	49·9	28·4	11·1	46·5	41·2	·259	2·9	0·6	83	545	—	—	—	7	3	7	14	7·2	6·7	65	11·05
Osborne	29·607	38·4	21·3	37·1	49·5	37·5	30·9	12·0	43·7	40·5	·253	2·9	0·4	89	546	79·7	33·2	0·3	5	2	9	14	—	7·3	58	10·22
Brighton	29·624	55·0	25·0	30·0	47·9	38·1	27·4	9·8	42·9	39·7	·245	2·8	0·4	88	546	—	33·7	1·0	7	2	7	14	—	7·4	67	10·48
Salisbury	29·615	60·0	18·0	42·0	50·1	34·7	35·0	15·4	42·6	38·9	·237	2·8	0·4	87	547	73·9	33·5	1·6	9	2	7	12	—	6·4	61	11·73
Barnstaple	29·600	59·0	27·0	32·0	51·3	41·0	27·0	10·3	45·8	41·4	·262	3·0	0·5	85	546	—	—	1·4	5	2	9	14	—	5·7	72	12·46
Caterham	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2·3	8	2	7	13	—	4·4	61	12·70
Ramsgate	29·581	57·0	25·7	31·3	47·2	37·3	28·9	9·9	42·9	39·1	·240	2·8	0·5	87	548	83·1	33·3	2·0	5	2	9	14	—	7·1	58	9·83
Strathfield Turgiss	29·622	58·3	21·8	36·5	48·5	36·8	32·2	11·7	42·7	38·2	·231	2·7	0·5	84	547	81·0	31·2	0·7	8	2	7	13	2·2	7·2	61	7·28
Weybridge Heath	29·637	61·0	19·5	41·5	49·0	36·0	35·4	12·9	42·1	38·9	·237	2·7	0·4	88	548	68·7	32·6	1·0	6	3	12	9	2·7	6·1	62	8·70
East Tilbury	29·619	60·0	20·2	39·8	51·3	35·8	35·7	15·5	43·3	38·8	·237	2·7	0·5	85	549	52·8	34·5	0·1	8	1	8	13	—	7·4	57	9·43
Marlborough Green	29·593	57·8	20·8	37·0	48·1	35·2	31·0	11·9	41·7	38·2	·231	2·6	0·4	88	542	77·3	32·5	0·4	6	1	7	15	—	6·9	66	9·98
Blackheath	29·607	61·7	22·8	38·9	49·7	36·3	34·7	13·4	42·6	37·9	·228	2·6	0·5	83	547	77·4	33·9	1·1	5	3	11	11	—	6·7	57	8·62
Streatley Vicarage	29·594	58·1	20·3	37·8	49·1	37·4	31·6	11·7	43·5	38·8	·236	2·7	0·5	84	546	—	—	1·9	8	4	6	11	—	6·5	58	8·83
Chiswick	29·588	59·0	21·0	38·0	50·1	35·9	34·0	14·2	42·9	38·5	·234	2·7	0·5	85	549	81·3	—	1·2	4	2	8	16	—	7·1	52	9·02
Camden Square	29·605	59·4	23·5	35·9	48·8	37·0	32·3	11·8	42·9	38·8	·237	2·7	0·5	86	548	68·5	34·3	—	9	1	8	13	—	6·7	62	8·90
Oxford	29·600	56·2	22·9	33·3	48·6	37·6	30·0	11·0	43·0	38·4	·233	2·7	0·5	84	546	83·4	34·4	1·0	4	3	9	14	2·7	7·5	61	8·12
Gloucester	29·637	61·7	17·5	44·2	50·6	36·1	36·6	14·5	43·2	37·8	·228	2·6	0·8	82	548	72·3	30·1	0·6	7	3	4	16	1·8	7·0	54	7·40
Royston	—	57·8	21·8	36·0	48·6	34·6	32·9	14·0	41·4	37·3	·224	2·6	0·4	86	547	—	—	—	5	2	10	13	—	6·5	60	6·92
Cardington	29·577	57·6	21·6	36·0	48·3	35·5	33·1	12·8	41·6	38·4	·233	2·7	0·4	88	549	59·5	29·7	2·1	7	2	7	15	—	6·6	49	6·33
Cambridge	29·559	57·7	23·2	34·5	48·7	36·7	32·4	12·0	42·3	38·4	·233	2·7	0·5	86	549	85·7	29·8	1·6	6	2	10	12	—	7·0	68	6·62
Norwich	29·539	56·0	20·0	36·0	47·2	37·6	29·8	9·6	41·8	40·2	·249	3·2	0·2	91	550	—	—	—	3	4	10	13	—	—	64	6·67
Leicester	29·568	56·8	22·0	34·8	47·6	36·9	31·0	10·7	42·0	37·3	·223	2·6	0·5	85	545	78·7	29·5	1·4	5	3	10	12	—	6·8	60	7·21
Wisbech	29·556	57·7	23·7	34·0	47·6	36·3	30·5	11·3	41·4	38·3	·232	2·7	0·3	89	551	75·4	32·7	0·7	5	3	12	10	4·2	6·8	61	6·99
Nottingham	29·537	57·8	18·1	39·7	48·0	35·5	34·8	12·5	41·4	37·6	·226	2·6	0·4	87	547	71·8	31·8	0·5	6	1	12	11	3·7	6·4	72	7·54
Holkham	29·529	56·5	19·0	37·5	47·2	31·1	35·2	16·1	41·8	38·3	·231	2·5	0·4	87	549	71·0	30·1	1·8	6	3	12	10	—	7·1	55	7·23
Llandudno	29·536	56·2	28·5	27·7	49·0	39·0	25·7	10·0	44·0	38·5	·233	2·7	0·6	81	546	—	—	0·9	6	2	5	17	—	6·7	67	11·90
Kelstern Grange	29·541	55·1	18·8	36·3	45·5	33·7	33·0	11·8	39·1	37·0	·220	2·5	0·3	93	546	84·7	28·6	0·9	6	3	8	13	8·4	6·1	62	8·72
Liverpool	29·533	57·2	26·4	30·8	46·9	38·1	26·5	8·8	42·0	37·6	·227	2·6	0·5	85	546	—	—	1·6	4	5	8	13	—	6·8	64	10·27
Eccles	29·548	56·9	17·4	39·5	47·8	34·8	33·8	13·0	41·4	37·2	·222	2·6	0·5	86	548	53·2	27·8	0·6	6	4	7	13	2·9	7·2	72	11·26
Bermerside, Halifax	—	57·0	26·0	31·0	45·3	35·3	28·8	10·0	40·2	36·5	·217	2·5	0·5	87	542	75·2	—	0·8	4	3	10	13	—	7·1	58	13·62
Hull	29·537	57·0	22·0	35·0	46·1	35·4	31·3	10·6	40·7	36·5	·216	2·5	0·5	85	551	60·5	33·1	—	—	—	—	—	2·3	—	62	7·55
Stonyhurst	29·531	59·9	13·9	46·0	46·2	34·6	37·6	11·6	40·5	36·7	·218	2·5	0·4	87	544	81·1	31·1	1·8	5	3	5	18	—	8·1	65	15·83
Leeds	29·521	58·0	24·0	34·0	47·1	36·9	28·0	10·2	41·9	37·0	·221	2·5	0·5	83	546	56·5	—	1·5	6	5	6	13	—	4·8	52	8·11
Bradford	29·520	58·4	20·0	38·4	45·6	37·2	31·9	8·4	40·8	35·4	·208	2·4	0·2	82	543	56·2	—	1·3	6	3	8	13	—	7·2	63	10·30
Cockermouth	29·487	56·3	17·8	38·5	46·3	36·8	32·8	9·5	41·3	37·6	·226	2·6	0·4	87	547	64·1	26·9	0·5	6	3	8	13	3·7	7·1	68	14·36
Allenheads	—	—	13·0	—	—	29·9	—	—	—	—	—	—	—	—	—	69·1	—	1·2	6	5	7	13	—	6·8	68	13·72
Silloth	29·481	58·2	17·2	41·0	48·4	35·4	35·9	13·0	41·3	37·4	·224	2·6	0·5	86	549	73·0	31·4	1·9	6	4	9	11	8·1	5·4	58	11·06
Carlisle	29·511	55·0	11·8	43·2	46·5	33·6	36·2	12·9	40·0	36·4	·216	2·4	0·4	88	549	67·9	28·8	2·1	5	4	6	15	7·1	6·5	60	10·95
Bywell	29·466	56·0	22·0	34·0	47·3	36·2	30·0	11·1	40·8	34·5	·200	2·3	0·7	79	547	54·8	30·6	1·5	5	5	6	14	—	6·0	65	11·18
North Shields	—	55·0	22·0	33·0	45·0	34·9	30·4	10·1	39·7	35·4	·207	2·4	0·5	85	550	—	33·1	1·7	8	3	6	13	—	6·2	63	6·36
Milltown (Ireland)	29·500	56·0	24·0	32·0	47·3	35·7	27·7	11·6	41·3	37·2	·222	2·6	0·5	86	546	83·4	31·8	2·0	5	3	14	8	—	5·7	74	11·91

The highest temperatures of the air were at Helston, 65°·0; Blackheath and Gloucester, both 61°·7; Weybridge, 61°·0; and at Ventnor, 60°·9.

The lowest temperatures of the air were at Carlisle, 11°·8; Allenheads, 13°·0; Stonyhurst, 13°·9; and at Silloth, 17°·2.

The greatest daily ranges of the temperatures of the air were at East Tilbury, 15°·5; Salisbury, 15°·4; Gloucester, 14°·5; and at Chiswick, 14°·2.

The least daily ranges of the temperatures of the air were at Bradford, 8°·4; Guernsey, 8°·5; and at Liverpool, 8°·8.

The greatest numbers of rainy days were at Truro, 76; Milltown, 74; and at Guernsey and Plymouth, both 73.

The least numbers of rainy days were at Cardington, 49; Chiswick and Leeds, both 52; and at Gloucester, 54.

The heaviest falls of rain were at Allenheads, 18·75 inches; Stonyhurst, 15·83 inches; and at Cockermouth, 14·86 inches.

The least falls of rain were at Cambridge, 6·23 inches; North Shields, 6·36 inches; and at Cardington, 6·52 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest.	Mean of all Lowest.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·631	55·5	31·0	24·5	50·4	41·9	20·8	8·5	45·7	41·7	·265	3·0	0·5	86	544	—	—	1·8	6	3	9	12	4·4	6·6	73	11·21
Between the latitudes 50° and 51°	29·641	59·5	25·8	33·7	50·8	39·5	28·9	11·3	45·0	41·3	·260	3·0	0·5	87	546	69·8	35·7	1·6	7	2	7	14	7·7	6·9	68	11·04
Between the latitudes 51° and 52°	29·607	59·2	21·6	37·6	49·4	36·8	32·6	12·6	43·0	38·8	·235	2·7	0·5	85	547	73·8	32·3	1·2	7	2	8	13	2·4	6·7	60	10·20
Between the latitudes 52° and 53°	29·552	57·2	21·2	36·0	47·9	35·5	32·5	12·4	41·7	38·2	·231	2·7	0·4	88	548	73·7	30·6	1·4	5	3	10	12	3·9	6·7	61	10·97
Between the latitudes 53° and 54°	29·535	57·2	22·1	35·1	46·7	36·0	29·3	10·7	41·2	37·1	·222	2·6	0·5	86	546	68·5	30·1	1·2	5	4	7	14	4·5	6·8	63	12·71
Between the latitudes 54° and 55°	29·493	56·8	17·8	39·0	46·8	35·8	33·4	11·0	40·8	36·3	·215	2·5	0·4	84	547	64·2	29·4	1·4	6	4	7	13	6·3	6·5	65	
Mean for the Quarter, 50° to 55° — Year 1874	29·812	61·3	20·1	41·2	48·2	35·9	32·0	12·3	41·9	37·8	·228	2·6	0·4	86	551	68·6	30·6	1·2	6	4	8	13	4·1	6·3	44	6·28
Mean for the Quarter, 50° to 55° — " 1875	29·802	57·7	17·3	40·4	45·4	35·1	31·7	10·3	39·8	36·4	·217	2·5	0·4	87	553	62·7	31·1	1·4	7	8	7	8	3·9	7·4	46	6·58
Mean for the Quarter, 50° to 55° — " 1876	29·631	58·1	19·2	38·9	45·5	34·3	33·6	11·2	39·6	36·0	·212	2·5	0·4	87	551	66·3	30·7	1·4	6	6	8	10	4·2	6·7	53	8·21
Mean for the Quarter, 50° to 55° — " 1877	29·566	58·0	21·7	36·3	48·3	36·7	31·3	11·6	42·4	38·3	·233	2·7	0·5	86	547	70·0	31·6	1·3	6	3	8	13	4·2	6·7	63	10·37

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING JUNE 30, 1877.

Remarks on the Weather during the Quarter ending June 30th, 1877.

By James Glaisher, Esq., F.R.S., *&c.*

The weather continued exceptional till the beginning of June; the readings of the barometer were low in April and May, the temperature of the air was low from the middle of April, and the month of May came in with extreme cold weather, the highest temperature day by day for the first week was nearly 20° lower than the ordinary maximum temperature of those days, and the night temperatures were so low, that severe frosts were experienced generally, and great damage was done to all out-of-door vegetation. The weather was cold during the whole month of May, particularly on the 22nd, 23rd, and 24th. The fall of rain was in excess in April, and deficient in May and June, and there has been an unusual prevalence of E. and S.E. winds during the whole quarter.

Till April 11th the weather was warm, and the average daily excess of temperature was 3°; on the 12th a cold period set in, and continued till June 2nd; the coldest days of this period were May 1st to May 6th, and their average deficiency of temperature was as large as 11½°, at many places on these days the highest temperature reached was below 50°, and at some places was below 45°; the temperature of the air at night was at many places below 32°, particularly on the 4th and 5th, on which nights at some places it was as low as 22° and 23°, whilst the temperature of vegetation, on every night from the 1st of May to the 8th was exceedingly low; on the 1st at some places it was as low as 19° to 26°; on the 2nd, 21° to 26°; on the 3rd, 19° to 22°; on the 4th, 13° to 18°; on the 5th, 13° to 18°; on the 6th, 16° to 21°; on the 7th, 19° to 22°; on the 8th, 19° to 23°; the temperature of the air continued low till the 2nd of June, the average deficiency of temperature for the 52 days ending this day was 4° daily; from June 3rd the weather was for the most part warmer, and the average excess of temperature was 2½°.

The following table contains the highest and lowest temperatures of the air at the several stations from May 1st to May 6th.

Table of Maximum and Minimum Temperatures of the Air at the several Stations on May 1st, 2nd, 3rd, 4th, 5th, and 6th.

Names of Stations.	May 1st. Max.	May 1st. Min.	May 2nd. Max.	May 2nd. Min.	May 3rd. Max.	May 3rd. Min.	May 4th. Max.	May 4th. Min.	May 5th. Max.	May 5th. Min.	May 6th. Max.	May 6th. Min.
	°	°	°	°	°	°	°	°	°	°	°	°
Guernsey	48·0	43·0	49·5	42·0	51·5	41·0	47·0	42·0	48·0	41·0	52·0	41·0
Helston	55·0	40·0	63·0	35·0	55·0	43·0	50·0	37·0	51·0	37·0	55·0	35·0
Truro	54·0	34·0	55·0	39·0	58·0	32·0	52·0	40·0	57·0	34·0	57·0	35·0
Plymouth	55·0	39·5	50·0	37·0	51·0	35·5	55·0	37·0	49·5	35·5	53·5	37·0
Torquay	49·4	40·6	49·3	40·2	52·0	36·3	46·1	37·2	48·4	38·2	48·4	39·7
Ventnor	54·7	38·7	53·0	41·0	56·2	36·6	50·5	35·6	55·7	35·0	57·1	38·1
Osborne	51·3	36·8	52·9	38·0	59·3	30·1	51·0	31·2	56·2	31·0	55·2	32·1
Bournemouth	49·8	33·5	50·0	39·0	51·1	34·9	49·5	32·8	55·0	30·8	56·2	33·6
Portsmouth	59·0	38·0	52·0	40·0	58·3	35·7	54·5	32·5	64·0	32·0	66·3	33·8
Brighton	49·0	35·3	52·0	36·0	53·0	33·8	47·0	33·0	52·2	32·7	49·8	33·8
Salisbury	52·0	36·5	54·5	28·5	56·5	35·5	52·5	27·0	57·5	25·5	60·0	29·0
Barnstaple	58·0	42·0	56·0	41·0	57·0	46·0	56·0	36·5	54·0	34·0	58·0	48·0
Caterham	49·0	35·0	45·0	36·0	47·0	33·0	47·0	27·0	47·0	26·0	48·0	28·0
Ramsgate	48·0	39·4	51·3	35·1	51·6	33·0	47·6	33·3	49·5	37·8	48·7	40·8
Strathfield Turgiss	48·3	33·3	52·0	36·5	52·9	33·0	50·2	27·6	54·4	26·6	55·5	30·0
Weybridge Heath	47·0	31·8	52·0	36·0	51·5	30·0	50·0	25·0	52·5	23·5	55·5	24·8
East Tilbury	52·2	37·1	57·8	32·1	53·2	30·0	53·6	27·6	53·0	31·2	54·0	29·2
Marlborough	46·1	33·9	51·7	31·5	49·7	34·8	48·8	27·7	51·3	25·8	54·9	28·5
Bristol	52·7	38·1	55·6	34·9	48·8	31·1	52·2	28·8	54·0	26·8	59·2	28·6
Blackheath	48·1	34·9	50·7	37·1	52·6	31·6	50·0	28·3	54·0	28·6	54·8	32·3
Royal Observatory	48·0	36·6	51·3	35·5	52·9	31·9	50·1	28·1	52·3	33·2	52·0	30·8
Streatley	53·8	32·0	48·0	38·4	51·2	38·8	56·7	27·3	52·8	25·3	54·4	27·4
Chiswick	53·0	36·0	—	37·0	53·0	28·0	52·0	29·0	50·0	28·0	—	—
Camden Square	50·1	37·2	51·0	38·7	52·5	30·7	53·5	29·2	55·0	29·7	53·9	31·1
Oxford	47·7	35·4	54·3	34·0	48·0	27·0	48·4	26·8	50·4	29·0	54·5	30·2
Gloucester	53·2	35·0	57·0	32·5	53·7	28·5	51·0	26·0	54·2	24·5	61·7	28·0
Royston	49·8	34·4	53·4	34·8	55·0	—	—	23·6	51·5	24·6	54·5	25·4
Cardington	52·0	35·4	48·0	36·6	55·0	31·0	46·4	25·0	50·0	24·6	50·6	27·0
Somerleyton	46·5	35·9	48·0	33·8	49·0	30·4	51·4	30·8	50·2	26·5	55·2	35·0
Cambridge	50·3	35·6	53·6	37·0	49·1	29·0	52·2	22·4	52·0	23·0	56·3	28·9
Norwich	46·0	37·0	46·5	38·0	47·0	34·0	46·8	32·0	47·0	30·8	52·2	30·0
Leicester	45·5	34·9	51·0	35·6	46·8	34·6	45·6	28·5	48·3	29·0	54·0	29·0
Wolverhampton	49·3	30·2	48·3	33·0	52·3	32·0	51·1	27·9	48·0	30·0	51·0	28·9
Nottingham	50·3	35·1	46·2	35·1	53·3	34·2	47·8	30·2	49·7	30·4	49·1	28·0
Llandudno	49·0	35·5	52·4	34·3	51·4	35·6	47·2	34·0	50·4	34·0	59·8	34·9
Sheffield	48·0	34·8	52·0	35·0	46·0	36·5	47·0	28·5	48·0	32·5	55·0	26·0
Kelstern Grange	43·0	33·8	50·2	34·5	45·3	32·1	43·8	28·1	44·9	30·1	50·1	29·0
Liverpool	50·9	34·3	46·8	35·0	48·6	37·7	47·9	32·7	46·9	35·4	48·5	33·2
Eccles	48·0	26·3	52·0	34·7	47·9	31·1	53·8	25·1	53·2	28·8	55·5	29·1
Bermerside	45·0	31·0	49·6	34·0	44·6	35·0	49·0	28·3	47·0	39·0	—	28·3
Hull	45·0	34·0	53·0	34·0	46·0	35·0	47·0	27·0	47·0	34·0	49·0	27·0
Stonyhurst	49·1	35·5	55·5	30·9	49·0	23·7	53·2	28·9	52·5	27·3	57·8	30·5
Bradford	48·6	34·8	46·0	37·0	50·2	36·2	45·8	38·6	49·7	37·9	49·0	35·2
Leeds	49·0	36·0	54·0	38·0	49·0	37·0	57·0	36·0	52·0	34·0	—	32·0
Cockermouth	50·0	28·4	50·5	28·9	47·7	32·3	49·8	26·8	51·3	28·3	53·1	31·8
Allenheads	—	26·0	—	31·0	—	30·0	—	22·0	—	26·0	—	—
Silloth	51·8	33·0	56·9	33·2	54·2	33·8	56·0	27·7	57·0	29·3	57·0	32·7
Sunderland	45·0	37·0	52·0	39·0	50·0	37·0	51·0	33·0	53·0	34·0	56·0	35·0
Carlisle	47·2	31·2	53·1	34·8	48·2	25·8	52·1	26·5	51·5	32·4	57·3	34·6
Bywell	45·0	36·0	58·0	37·0	50·0	38·0	48·0	32·0	50·0	34·0	55·0	32·0
North Shields	45·0	35·0	50·0	35·0	42·0	35·0	46·0	30·0	47·0	30·0	52·0	33·0
Milltown (Ireland)	49·0	39·0	57·0	37·0	50·0	32·0	52·0	28·0	52·0	27·0	51·0	36·0

From this Table it will be seen that the highest temperature on May 1st was as low as 43° at Kelstern, and was 45° at several places; on the 3rd was 42° at North Shields; on May 4th was 43°·8 at Kelstern, and below 46° at several places; on the 5th was below 47° at several places; and on the 6th was below 50° at different places; the lowest temperature on the 1st was 26° at Eccles and Allenheads on the 2nd was 28°·5 at Salisbury; on the 3rd was 23°·7 at

Stonyhurst; on the 4th was 22°·0 at Allenheads; on the 5th was 23° at Cambridge; and on the 6th was 24°·8 at Weybridge.

The readings of the barometer in the neighbourhood of London were below their averages from the 2nd to the 9th of April (that for the 1st being 0·08 inch above); they were above their averages from the 12th to the 15th; below on the 16th, 17th, and 18th, above on the two following days; and below from the 21st to the end of the month, with the exception of the 26th and the last day, which were respectively 0·02 in. and 0·20 in. above. The mean reading for the month was 29·591 ins. being 0·177 in. below the average. Back to 1841 there are but three instances of so low a barometer reading for the month of April as that in the present year, viz.: In 1846 it was 29·589 in.; in 1848 it was 29·589 in.; and in 1849 it was 29·517 in. During the first four days of May the readings of the barometer were above their averages; from the 5th to the 15th they were below, and alternately above and below on the four following days; from the 20th to the 26th, the readings were all above their average values; and from the 27th to the end of the month they were all below. The mean reading for the month was 29·704 in., being 0·084 in. below the average. From the 1st to the 4th of June the readings of the barometer were below their averages; from the 5th to the 20th they were above, excepting the 12th, which was 0·09 in. below; on the 21st, 22nd, and 23rd they were below their averages, and from the 24th to the end of the month they were again above. The mean reading for the month was 29·843 ins., being 0·030 in. above the average.

At Greenwich *the mean temperature* of April above that of March was 4°·7; that of May above that of April was 3°·5; and that of June above that of May was 12°·4. (From the preceding 36 years' observations the *mean temperature* of April above that of March is 5°·5; that of May above that of April is 5°·6; and that of June above that of May is 6°·1.)

The mean temperature of the air for April above that of March over the whole country was 4°·0; that of May above that of April was 3°·1; and that of June above that of May south of latitude 50¾° was 9°·2; between 50¾° and 51½° was 11°·4; between 51½° and 53⅓° was 11°·8; and north of 53⅓° was 10°·7.

The mean temperature of the air for April was 45°·4, being 0°·7 and 1°·8 below the averages of the preceding 106 years, and 36 years respectively. It was lower than any value back to 1861.

The mean temperature of the air for May was 48°·9, being 3°·6 and 3°·9 below the averages of the preceding 106 years, and 36 years respectively. In the preceding 106 years there have been but 9 instances of so low a mean temperature for the month of May, viz.:—In 1772 it was 48°·6; 1773, 47°·5; 1782, 48°·1; 1783, 48°·3; 1814, 48°·6; 1816, 48°·8; 1817, 47°·9; 1837, 47°·8; and 1855, 48°·8.

The mean temperature of the air for June was 61°·3, being 3°·1; and 2°·4 above the averages of the preceding 106 years, and 36 years respectively. In the preceding 106 years, there are only 12 instances of so high a mean temperature in June, viz.:—In 1775 it was 62°·6; 1778, 61°·3; 1781, 62°·5; 1804, 61°·3; 1818, 62°·9; 1822, 62°·6; 1826, 62°·9; 1842, 62°·9; 1846, 65°·3; 1857, 61°·8; 1858, 64°·9; and 1868, 62°·0.

The mean temperature of the air for the quarter was 51°·9, being 0°·4 and 1°·1 below the averages of the preceding 106 years, and 36 years respectively.

The mean high day temperatures of the air were respectively 3°·7 and 5°·1 below their averages in April and May; but 3°·9 above in June.

1877. Months.	Temperature of Air. Mean.	Temperature of Air. Diff. from average of 106 years.	Temperature of Air. Diff. from average of 36 years.	Temperature of Evaporation. Mean.	Temperature of Evaporation. Diff. from average of 36 years.	Temperature of Dew Point. Mean.	Temperature of Dew Point. Diff. from average of 36 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 36 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 36 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 36 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.
April -	45·4	−0·7	−1·8	42·6	−1·5	39·3	−1·3	14·7	−4·0	49·4	0·240	−0·014	2·8	−0·2
May -	48·9	−3·6	−3·9	44·9	−4·1	40·6	−4·6	17·9	−2·7	52·4	0·253	−0·047	2·9	−0·5
June -	61·3	+3·1	+2·4	55·3	+0·8	49·9	−0·7	24·5	+3·4	63·5	0·360	−0·010	4·1	−0·1
Means -	51·9	−0·4	−1·1	47·6	−1·6	43·3	−2·2	19·0	−1·1	55·1	0·284	−0·024	3·3	−0·3

1877. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 36 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 36 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 36 years.	Rain. Amount.	Rain. Diff. from average of 62 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Number of Nights it was Between 30° and 40°.	Number of Nights it was Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
April -	80	+2	29·591	−0·177	543	0	3·2	+1·5	308	3	21	6	27·1	43·8
May -	73	−3	29·704	−0·084	541	0	1·4	−0·7	279	6	9	16	23·0	46·9
June -	67	−7	29·843	+0·030	530	− 2	0·7	−1·3	284	0	6	24	36·5	57·1
Means -	73	−3	29·713	−0·077	538	− 1	Sum 5·3	Sum −0·5	Mean 290	Sum 9	Sum 36	Sum 46	Lowest 23·0	Highest 57·1

NOTE.—In reading this table it will be borne in mind that the minus sign (−) signifies *below* the average, and that the plus sign (+) signifies *above* the average.

The mean low night temperatures of the air were respectively 0°·2 and 0°·6 above their averages in April and June; but 2°·4 below in May. Therefore the days and nights in April and May were generally cold, but warmer in June.

The mean daily ranges of temperature were respectively 4°·0, and 2°·7 below their averages in April and May, but 3°·4 above in June.

At Greenwich the atmospheric pressure in April was greater than in March by 0·022 in., in May greater than in April by 0·113 in., and in June greater than in May by 0·139 in. (From the preceding 36 years' observations the mean pressure in April is greater than in March by 0·027 in., that in May greater than in April by 0·020 in., and that in June greater than in May by 0·025 in.) The mean *decrease* of pressure from March to April south of latitude 50½° was 0·079 in., between 50½° and 51½° was 0·039 in., the mean increase between 51½° and 52° was 0·001 in., between 52° and 54½° was 0·058 in.; and north of 54½° was 0·110 in. The mean increase of pressure from April to May was nearly the same everywhere and averaged 0·112 in., and the mean increase of pressure from May to June over the whole country was 0·121 in.

The fall of rain in April was 3·2 ins., being 1·5 above the average of 62 years; in May the fall was 1·4 in., being 0·7 in. below the average; and in June the fall was 0·7 in., being 1·3 in. below the average. The fall of rain in the quarter was 5·3 ins. being 0·5 in. below the average.

In the preceding 62 years there are but seven instances of so small a fall of rain in June as in the present year, viz.:—In the year 1818 it was 0·7 in., in 1827 was 0·7 in., in 1846 was 0·5 in., in 1849 was 0·3 in., in 1855 was 0·7 in., in 1868 was 0·5 in., and in 1870 was 0·4 in.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter were as follows:—

Direction of Wind.	April. Average.	April. 1877.	April. Departure from Average.	May. Average.	May. 1877.	May. Departure from Average.	June. Average.	June. 1877.	June. Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	2¼	2	− ¼	1¼	3	+1¾	2	2	0
N.	4	3	−1	4¼	3	−1¼	3¼	1	−2¼
N.E.	6	6	0	7	7	0	3½	4	+ ½
E.	3½	5	+1½	2¼	2	− ¼	2¼	6	+3¾
S.E.	2	3	+1	1¾	4	+2¼	1½	1	− ½
S.	2½	4	+1½	2¾	4	+1¼	2¼	3	+ ¾
S.W.	6¼	5	−1¼	7½	5	−2½	10	8	−2
W.	2½	2	− ½	2	3	+1	3¾	5	+1¼
Calm (nearly.)	1	0	−1	2	0	−2	1½	0	−1½

The plus sign (+) denotes excesses over averages; the largest numbers affected with this sign in the month of April are opposite to the E. and S., in May to the S.E. and N.W., and in June the largest number is opposite to the E.

The minus sign (−) denotes defects below averages; the largest numbers affected with this sign in the month of April are opposite to the N. and S.W., in June to the N. and S.W., and in May the greatest deficiency is the S.W.

Thunderstorms occurred on 10 days in April, 9 in May, and 8 in June.
Thunder was heard but lightning was not seen on 6 days in April, 5 in May, and 8 in June.
Lightning was seen but thunder was not heard on 2 days in April, 1 in May, and 4 in June.
Solar halos were seen on 8 days in April, 9 in May, and 5 in June.
Lunar halos were seen on 3 nights in April, 2 in May, and 2 in June.
Snow fell on 6 days in April, and 6 days in May.
Hail fell on 10 days in April, and 7 days in May.
Fog prevailed on 14 days in April, 9 in May, and 10 in June.

Sycamore in leaf.	The earliest,	April 4th,	at Carlisle.	The latest,	May 26th,	at Hull.
Horsechesnut	,,	,,	,, 7th, at Osborne.	,,	,, 28th,	at Hull.
Field elm	,,	,,	,, 8th, at Carlisle.	,,	June 3rd,	at Hull.
Hawthorne	,,	,,	,, 8th, at Helston.	,,	May 25th,	at Hull.
Lime	,,	,,	,, 18th, at Carlisle.	,,	June 1st,	at Hull.
Oak	,,	,,	,, 21st, at Strathfield.	,,	,, 14th,	at Hull.
Hazel	,,	,,	,, 22nd, at Hull.	,,	May 30th,	at Hull.
Walnut	,,	,,	,, 30th, at Carlisle.	,,	June 20th,	at Hull.
Common Poplar	,,	,,	May 10th, at Oxford.	,,	,, 16th,	at Hull.
Oriental Plane	,,	,,	,, 13th, at Oxford.	,,	,, 13th,	at Hull.
Lilac in blossom.	,,	April	4th, at Helston.	,,	,, 22nd,	at Llandudno.
Yellow Broom	,,	,,	,, 9th, at Helston.	,,	,, 16th,	at Torquay.
Hardy Pear	,,	,,	,, 12th, at Oxford.	,,	May 14th,	at Hull.
Cherry	,,	,,	,, 13th, at Oxford.	,,	,, 12th,	at Carlisle.
Laburnum	,,	,,	,, 13th, at Helston.	,,	June 6th,	at Hull.
Hardy Apple	,,	,,	,, 22nd, at Llandudno.	,,	May 20th,	at Milltown.
Honeysuckle	,,	,,	May 16th, at Strathfield.	,,	June 27th,	at Hull.
Mountain Ash	,,	,,	,, 17th, at Strathfield.	,,	,, 22nd,	at Hull.
White Broom	,,	,,	,, 18th, at Hull.	,,	May 30th,	at Milltown.
Wheat in ear.		,,	June 3rd, at Helston.	,,	June 17th,	at Osborne.
Oats ,,		,,	,, 11th, at Helston.	,,	,, 24th,	at Cardington.
Wheat in flower.		,,	June 5th, at Weybridge.	,,	,, 25th,	at Llandudno.
Cuckoo arrived.		,,	April 13th, at Guernsey.	,,	May 13th,	at Bermerside.
Swallow ,,		,,	,, 12th, at Oxford.	,,	,, 6th,	at Kelstern.
Nightingale ,,		,,	,, 4th, at Oxford.	,,	April 9th,	at Strathfield.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING JUNE 30TH, 1877.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the sixth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1877. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.=100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.M.S.	204	April	29·490	1·176	56·5	36·5	20·0	52·1	44·0	8·1	47·2	43·6	·284	3·3	0·5	88	539	–	–	1·5	7	10	8	5	3·7	6·3	20	5·14
		May	29·654	0·906	62·0	41·0	21·0	55·1	45·5	9.6	49·4	45·2	·303	3·5	0·6	86	539	–	–	1·6	8	7	8	8	3·9	5·2	15	2·74
		June	29·801	0·708	72·5	49·0	23·5	64·8	53·4	11·4	58·0	54·4	·424	4·7	0·7	88	532	–	–	1·1	7	7	8	8	3·6	4·2	7	0·92
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	April	29·610	1·186	64·0	34·0	30·0	56·5	42·6	13·9	48·2	40·5	·251	2·9	1·0	75	540	68·5	39·6	2·5	5	10	8	7	7·4	5·3	16	3·98
		May	29·803	1·022	69·0	35·0	34·0	59·5	44·1	15·4	50·8	42·4	·272	3·1	1·1	74	541	77·0	40·8	2·4	8	8	9	6	7·1	3·6	10	2·66
		June	29·922	0·900	76·0	44·0	32·0	69·2	52·3	16·9	58·8	50·6	·370	4·2	1·4	74	534	83·3	48·8	1·9	8	7	10	5	3·4	4·3	7	2·02
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	April	29·653	1·120	60·0	32·0	28·0	55·4	43·5	11·9	47·3	42·9	·276	3·2	0·6	86	542	–	–	2·9	4	11	8	7	–	7·1	16	4·09
		May	29·828	1·000	64·0	31·0	33·0	58·5	43·0	15·5	48·7	43·1	·279	3·2	0·7	81	543	–	–	2·7	6	8	8	9	–	5·7	14	4·03
		June	29·934	0·945	79·0	43·0	36·0	68·2	53·5	14·7	58·0	52·7	·397	4·5	0·5	82	535	–	–	2·5	7	8	9	6	–	6·3	9	2·62
PLYMOUTH (Devon), John Merrifield, Esq., F.R.A.S., F.M.S., LL.D.	69	April	29·711	1·170	60·5	34·5	26·0	54·2	42·7	11·5	47·2	44·7	·295	3·4	0·4	92	543	–	42·0	1·7	5	13	6	6	–	8·4	16	4·48
		May	29·882	1·080	63·0	35·5	27·5	57·4	44·1	13·3	49·7	45·6	·306	3·5	0·5	87	543	–	42·0	1·7	7	9	7	8	–	6·6	12	2·56
		June	30·008	1·049	75·0	45·0	30·0	67·1	54·4	12·7	59·3	52·5	·394	4·5	1·2	79	535	–	52·6	1·4	7	8	9	6	–	5·8	9	1·34
BABBACOMBE, Torquay (Devon), Edwin E. Glyde, Esq., F.M.S.	305	Jan.	29·501	1·889	55·7	32·8	22·9	50·4	39·6	10·8	45·2	42·0	·267	3·0	0·4	89	541	–	31·3	1·6	2	2	12	15	4·6	7·2	29	7·89
		Feb.	29·689	1·054	57·3	28·0	29·3	51·5	41·3	10·2	46·1	41·4	·261	3·0	0·6	85	544	–	34·0	1·5	7	0	4	17	4·8	6·6	18	1·61
		Mar.	29·455	1·649	61·1	25·2	35·9	50·0	36·8	13·2	43·1	37·5	·223	2·6	0·6	80	543	–	29·5	1·3	7	3	7	14	4·6	6·1	22	2·67
		April	29·390	1·281	64·1	33·0	29·1	52·2	41·9	10·3	46·1	41·6	·264	3·1	0·5	85	538	–	35·9	1·5	6	10	8	6	5·1	7·8	19	5·80
		May	29·546	1·108	63·6	36·3	27·3	56·1	43·5	12·6	48·6	41·8	·265	3·0	0·9	77	538	–	37·2	1·3	7	10	6	8	4·3	6·3	19	3·28
		June	29·691	1·117	76·0	44·6	31·4	65·9	52·3	13·6	57·5	50·4	·366	4·1	1·2	77	531	133·1	46·7	1·1	4	9	6	11	4·7	6·1	11	1·24
VENTNOR (Royal National Hospital for Consumption), Isle of Wight, Hartley Sagar, Esq.	150	April	29·639	1·072	62·9	36·4	26·5	56·0	43·3	12·7	47·5	43·7	·285	3·2	0·5	87	541	–	–	–	4	11	8	7	7·2	7·1	15	2·52
		May	29·798	1·000	66·4	35·0	31·4	59·2	44·8	14·4	50·0	44·9	·298	3·4	0·7	83	541	–	–	–	5	9	8	9	8·2	5·7	12	2·06
		June	29·924	0·842	78·9	47·7	31·2	69·8	53·9	15·9	59·5	53·5	·410	4·6	1·1	81	532	–	–	–	3	8	11	8	7·7	4·9	6	0·64
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	April	29·550	1·224	62·6	32·0	30·6	55·3	39·9	15·4	46·2	42·4	·271	3·1	0·5	87	541	105·5	36·1	0·4	5	12	8	5	–	7·4	16	2·08
		May	29·692	1·010	69·1	30·1	39·0	60·1	41·2	18·9	50·0	45·9	·309	3·5	0·6	86	539	108·7	37·4	0·2	6	10	8	7	–	6·1	12	2·37
		June	29·818	0·894	85·4	44·0	41·4	73·1	51·1	22·0	60·6	58·8	·496	5·5	0·4	94	529	131·5	47·7	0·3	5	8	10	7	–	4·8	6	0·54
SOUTH BOURNE, near Bournemouth, (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	128	Jan.	29·736	1·850	55·5	31·1	24·4	50·5	40·0	10·5	45·5	42·2	·239	3·0	0·5	88	545	–	–	–	5	2	12	12	–	5·9	26	6·58
		Feb.	29·849	1·050	56·1	27·8	28·3	49·7	41·9	7·8	45·6	41·5	·263	3·0	0·5	86	547	–	–	–	6	0	2	20	–	4·9	20	1·62
		Mar.	29·659	1·570	58·3	24·6	33·7	49·0	38·1	10·9	42·9	38·7	·235	2·7	0·5	85	547	–	–	–	8	3	6	14	–	3·5	14	1·46
		April	29·369	1·080	59·9	34·2	25·7	52·4	44·0	8·4	46·9	41·1	·259	3·0	0·7	82	541	–	–	–	4	12	10	4	–	5·5	14	2·98
		May	29·773	1·080	63·9	31·7	32·2	57·0	44·1	12·9	49·4	41·1	·259	2·9	1·1	73	542	–	–	–	9	9	6	7	–	3·9	15	2·25
		June	29·904	0·990	77·1	44·8	32·3	68·0	53·0	15·0	59·5	49·7	·358	4·0	1·7	70	533	–	–	–	7	8	9	6	–	2·6	8	0·80
BRIGHTON (Sussex), F. E. Sawyer, Esq., F.M.S.	206	April	29·536	1·239	59·0	34·0	25·0	53·4	41·6	11·8	46·6	39·7	·245	2·9	1·0	78	540	95·4	38·7	1·2	5	10	9	6	–	8·9	14	2·35
		May	29·658	1·056	65·0	32·7	32·3	57·4	43·8	13·6	49·4	42·4	·272	3·1	1·0	77	540	103·0	40·3	1·0	7	8	10	6	–	6·8	14	1·96
		June	29·807	0·791	78·4	45·0	33·4	69·9	53·2	16·7	60·6	49·9	·360	4·0	1·9	68	530	116·9	50·9	1·0	4	6	9	11	–	4·8	6	1·18
TAUNTON (Somerset), W. Tuckwell, Esq.	80	May	29·738	1·032	72·0	29·0	43·0	62·1	43·1	19·0	50·4	48·1	·335	3·8	0·3	92	539	72·2	38·9	0·2	5	7	10	9	–	6·7	14	2·83
		June	29·919	1·026	87·0	39·0	48·0	74·6	52·0	22 6	61·3	57·1	·466	5·1	0·9	86	539	85·9	47·8	0·2	2	5	16	7	–	5·1	7	0·60
SALISBURY (Wilton House), T. Challis, Esq.	186	April	29·539	1·136	62·5	29·5	33·0	56·1	39·3	16·8	46·3	42·0	·268	3·1	0·5	86	541	97·5	38·2	1·6	4	10	6	10	–	7·5	15	3·86
		May	29·671	1·114	70·0	25·5	44·5	61·5	38·8	22·7	48·6	42·6	·274	3·2	0·8	79	541	110·6	37·6	1·5	8	9	7	7	–	6·6	15	3·39
		June	29·896	0·948	87·5	35·5	52·0	75·6	50·0	25·6	60·7	53·8	·414	4·6	1·3	78	536	122·3	48·1	1·5	6	8	7	9	–	5·0	7	0·80

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1877. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.=100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
BARNSTAPLE (Devon), William Knile, Esq.	43	April	29·668	1·230	64·0	32·5	31·5	55·9	43·5	12·4	48·2	43·2	·279	3·2	0·6	83	541	–	–	1·2	3	10	11	6	–	4·7	17	3·82
		May	29·816	1·190	63·0	34·0	32·0	60·8	46·1	14·7	51·7	44·3	·291	3·3	1·0	76	540	–	–	1·4	5	11	9	6	–	3·5	13	2·95
		June	29·939	1·010	86·0	49·0	37·0	72·6	56·2	16·4	62·1	54·5	·426	4·7	1·5	76	530	–	–	1·1	3	6	11	10	–	3·5	9	1·42
CATERHAM (Surrey), James Adam, Esq., M.D.	660	April	29·113	1·050	61·0	31·0	30·0	51·3	38·6	12·7	44·3	37·2	·221	2·6	0·8	75	535	–	–	2·5	6	9	8	7	2·9	4·4	17	4·11
		May	29·204	1·100	61·0	26·0	35·0	54·8	40·8	14·0	47·0	40·4	·251	2·9	0·8	78	534	–	–	4·5	6	7	10	8	1·9	4·5	14	2·75
		June	29·364	0·850	80·0	42·0	38·0	69·1	50·3	18·8	59·5	49·1	·349	3·9	1·8	68	523	–	–	3·7	3	7	9	11	3·2	2·9	7	1·08
RAMSGATE (Kent), Rev. E. Douglas O'Gara, O.S.B.	108	April	29·634	1·123	61·4	38·1	23·3	51·8	42·3	9·5	46·0	41·5	·263	3·1	0·5	85	543	98·3	37·7	2·3	9	10	5	6	–	7·7	17	2·29
		May	29·734	1·068	62·5	33·0	29·5	55·7	44·5	11·2	49·0	41·8	·266	3·0	1·0	76	541	107·8	39·3	1·9	10	8	7	6	–	7·1	19	2·40
		June	29·889	0·753	76·1	45·2	30·9	68·1	53·3	14·8	59·4	52·2	·392	4·4	1·3	78	532	119·8	48·0	1·5	6	8	8	8	–	5·5	9	1·66
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	April	29·541	1·269	60·3	28·8	31·5	54·2	39·5	14·7	45·8	39·8	·246	2·8	0·7	80	541	99·0	34·4	0·7	8	9	8	5	2·0	7·5	17	2·54
		May	29·674	1·103	66·0	26·6	39·4	57·9	40·5	17·4	48·2	40·4	·251	2·9	0·9	75	541	108·6	34·8	0·7	9	7	8	7	2·5	6·4	14	2·09
		June	29·807	0·907	83·4	41·9	41·5	72·0	50·2	21·8	60·0	50·0	·361	4·0	1·8	70	531	125·0	46·0	0·7	2	8	9	11	3·0	6·3	7	1·53
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	April	29·624	1·073	64·0	29·0	35·0	55·3	37·8	17·5	46·0	40·3	·251	2·9	0·7	81	543	76·1	35·3	0·8	8	11	7	4	2·6	7·4	20	2·80
		May	29·743	1·151	68·8	23·5	45·3	59·5	38·9	20·6	48·6	41·7	·264	3·0	0·9	78	542	94·3	35·5	0·8	9	8	8	6	2·3	6·7	14	2·28
		June	29·887	0·870	84·5	40·5	44·0	75·7	48·9	26·8	61·1	51·7	·383	4·3	1·7	72	531	114·5	44·3	0·7	6	7	11	6	1·0	4·3	8	0·56
EAST TILBURY VICARAGE (Essex), Rev. R. Tyas, M.A., LL.D.	29	April	29·765	0·980	65·2	28·6	36·6	57·2	40·2	17·0	47·7	41·4	·261	3·0	0·7	80	543	67·0	38·4	0·7	4	10	7	10	–	7·2	15	2·34
		May	29·864	1·024	67·6	27·6	40·0	60·0	41·1	18·9	49·5	44·3	·292	3·3	0·7	83	543	89·0	38·6	0·1	6	10	6	9	–	6·2	15	1·70
		June	30·000	0·812	86·5	42·2	44·3	74·3	50·9	23·4	61·3	52·9	·401	4·5	1·6	75	532	122·2	47·9	0·1	4	6	8	12	–	4·0	4	0·77
MARLBOROUGH, The Green (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	474	April	29·237	1·124	59·5	30·2	29·3	52·2	38·7	13·5	44·4	39·4	·241	2·8	0·6	82	537	92·3	35·0	0·3	7	10	7	7	–	8·0	20	3·68
		May	29·364	1·140	64·5	25·8	38·7	56·8	39·9	16·9	47·5	39·6	·243	2·8	1·0	75	536	105·3	34·2	0·2	11	5	6	9	–	6·9	13	2·24
		June	29·509	0·994	81·8	40·7	41·1	70·5	50·4	20·1	59·1	49·4	·353	4·0	1·6	70	526	120·3	45·7	0·3	6	7	7	10	–	5·2	8	1·25
BLACKHEATH (London), James Glaisher, Esq., F.R.S.	160	April	29·586	1·267	67·0	32·7	34·3	54·3	39·5	14·8	45·6	39·2	·240	2·8	0·8	79	542	91·4	36·2	1·2	7	10	8	5	–	7·1	19	3·29
		May	29·699	1·158	69·0	28·3	40·7	59·1	41·1	18·0	48·7	41·0	·257	2·9	1·0	75	541	104·6	37·1	1·0	8	8	8	7	–	6·1	11	1·66
		June	29·846	0·831	84·7	43·3	41·4	74·4	51·5	22·9	61·4	49·2	·352	3·9	2·1	65	530	132·8	47·7	1·0	4	9	7	10	–	4·2	7	0·64
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.A.S., F.M.S.	150	April	29·598	1·124	62·3	30·6	31·7	54·8	40·8	14·0	47·0	40·5	·251	2·9	0·8	78	541	–	–	1·7	10	10	5	5	–	7·8	17	2·45
		May	29·735	1·152	67·7	25·3	42·4	58·7	41·2	17·5	48·9	42·2	·271	3·1	0·9	78	542	–	–	1·5	9	9	6	7	–	6·8	15	1·53
		June	29·847	0·929	86·0	41·3	44·7	74·1	50·7	23·4	60·6	52·2	·391	4·4	1·6	74	530	–	–	1·7	8	5	7	10	–	4·8	8	1·79
CHISWICK (Middlesex), J. K. L. M. Farquhar, Esq.	25	April	29·719	1·232	64·0	29·0	35·0	55·8	39·6	16·2	46·2	39·4	·242	2·8	0·8	78	544	101·1	36·6	1·3	4	10	10	6	–	8·2	14	2·50
		May	29·824	1·118	68·0	28·0	40·0	59·7	40·5	19·2	48·9	42·9	·277	3·1	0·7	80	543	106·6	34·4	1·2	4	8	9	10	–	6·7	11	1·37
		June	29·961	0·844	85·0	34·0	51·0	73·7	48·5	25·2	59·7	49·5	·355	3·9	1·8	69	534	123·4	44·5	1·0	2	8	7	13	–	5·3	7	1·04
CAMDEN SQUARE (London), G. J. Symons, Esq., F.M.S.	123	April	29·623	1·158	64·0	33·4	30·6	54·9	40·7	14·2	46·4	40·8	·256	3·0	0·6	82	542	91·8	38·4	–	9	8	8	5	–	7·3	16	2·59
		May	29·740	1·148	68·0	29·2	38·8	59·8	42·1	17·7	49·8	41·2	·260	2·9	1·1	73	541	106·6	39·2	–	13	4	6	8	–	6·8	15	1·91
		June	29·887	0·870	84·7	44·7	40·0	75·3	52·3	23·0	62·4	50·5	·368	4·1	2·2	65	530	129·3	47·5	–	5	7	10	8	–	3·7	6	0·42
OXFORD OBSERVATORY, Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	April	29·527	1·388	61·4	33·0	28·4	53·6	39·9	13·7	46·4	40·7	·254	2·9	0·7	81	541	92·9	36·8	0·8	6	12	7	5	4·5	8·6	17	2·16
		May	29·623	1·192	66·6	27·7	38·9	58·1	42·0	16·1	49·8	42·3	·270	3·0	1·0	76	538	105·6	39·0	0·8	7	9	7	8	5·2	7·5	17	2·11
		June	29·781	0·821	82·4	41·2	41·2	72·0	50·9	21·1	61·2	52·0	·389	4·4	1·7	73	529	122·9	48·9	0·8	4	7	7	12	6·0	6·4	9	0·99
GLOUCESTER ASYLUM, E. Toller, Esq., M.D.	100	April	29·648	1·300	64·0	25·5	38·5	55·0	38·4	16·6	45·6	41·1	·259	2·9	0·6	85	544	95·5	34·0	0·7	3	10	9	8	3·3	7·8	15	2·83
		May	29·795	1·212	70·5	24·5	46·0	60·7	39·8	20·9	49·3	42·5	·273	3·1	1·0	77	542	109·7	32·0	0·6	7	10	4	10	2·7	6·7	14	2·13
		June	29·931	1·094	85·5	37·5	48·0	74·1	50·4	23·7	60·8	50·1	·363	4·0	1·9	68	532	127·8	42·1	0·5	5	8	5	12	2·1	5·6	8	1·36
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	April	29·497	1·178	64·3	29·2	35·1	54·5	37·5	17·0	44·4	39·8	·246	2·8	0·5	84	542	–	–	–	8	10	8	4	–	8·2	16	2·31
		May	29·611	1·149	69·5	23·6	45·9	59·8	39·2	20·6	48·2	41·7	·263	3·0	0·8	78	540	–	–	–	9	6	8	8	–	7·1	15	2·54
		June	29·753	0·869	85·6	41·3	44·3	74·7	48·0	26·7	60·2	50·8	·372	4·1	1·7	71	529	–	–	–	6	5	10	9	–	4·9	5	1·16

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1877. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°								in.
CARDINGTON (near Bedford), Mr. J. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	105	April	29·659	1·214	63·0	31·0	32·0	53·9	39·0	14·9	44·8	40·3	·250	2·9	0·5	85	545	77·6	33·3	2·2	6	12	7	5	–	8·4	15	2·60
		May	29·763	1·164	70·0	24·6	45·4	58·9	40·3	18·6	48·6	39·2	·240	2·8	1·2	70	542	97·5	34·4	2·1	8	7	8	8	–	6·9	16	2·30
		June	29·896	0·888	84·6	41·0	43·6	74·5	50·3	24·2	61·9	49·6	·356	4·1	2·2	65	530	117·5	43·4	1·7	3	9	5	13	–	4·7	7	1·45
CAMBRIDGE, J. W. L. Glaisher, Esq., M.A., F.R.S.	40	April	29·707	1·252	64·8	29·0	35·8	54·4	38·7	15·7	45·2	40·5	·251	2·9	0·7	84	545	106·9	32·8	1·5	7	10	7	6	–	7·7	16	2·17
		May	29·809	1·174	70·2	22·4	47·8	59·8	39·9	19·9	48·3	41·4	·261	3·0	0·9	78	544	124·7	32·9	1·5	7	10	8	6	–	7·4	19	1·47
		June	29·939	0·866	85·2	41·0	44·2	75·1	49·7	25·4	61·2	49·5	·356	4·0	2·1	66	532	143·2	42·3	1·6	5	7	7	11	–	4·9	8	0·32
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	50	Jan.	—	—	55·2	28·0	27·2	47·6	32·7	14·9	40·8	39·5	·242	2·9	0·1	95	–	–	27·2	1·4	3	2	13	13	8·6	7·4	25	2·23
		Feb.	29·815	1·250	55·0	23·0	32·0	49·0	36·2	12·8	42·3	40·6	·253	2·9	0·1	94	550	–	28·3	1·1	5	0	5	18	8·4	8·4	21	2·39
		Mar.	29·680	1·268	57·5	24·6	32·9	47·9	33·0	14·9	39·5	38·3	·232	2·8	0·1	95	551	–	24·1	1·2	6	7	8	10	8·8	7·0	23	2·53
		April	29·732	1·066	61·3	30·8	30·5	52·0	38·2	13·8	43·5	41·9	·267	2·9	0·2	94	547	–	29·3	1·4	5	13	8	4	8·6	7·4	16	2·19
		May	29·825	1·122	65·5	26·5	39·0	57·0	41·0	16·0	47·8	44·6	·295	3·3	0·5	89	544	–	31·8	1·1	6	11	8	6	–	6·1	13	1·68
		June	29·959	0·816	83·0	41·0	42·0	70·0	50·3	19·7	58·5	53·4	·408	4·5	1·0	83	534	–	40·9	1·1	2	11	9	8	7·7	3·7	8	1·63
NORWICH (Norfolk), John Quinton, Esq., Jun.	42	April	29·742	1·150	63·5	33·5	30·0	50·6	40·6	10·0	44·5	39·7	·245	2·8	0·5	83	547	–	–	–	7	14	5	4	–	–	11	2·12
		May	29·823	1·203	68·0	30·0	38·0	56·2	42·7	13·5	48·1	43·7	·284	3·3	0·5	85	544	–	–	–	12	8	6	5	–	–	12	1·68
		June	29·955	0·854	82·8	47·0	35·8	71·5	53·1	18·4	60·5	51·0	·374	4·2	1·7	71	533	–	–	–	5	8	11	6	–	–	9	1·35
LEICESTER (Town Museum), W. J. Harrison, Esq., F.G.S.	245	April	29·499	1·237	60·9	32·1	28·8	50·9	39·2	11·7	44·3	37·8	·227	2·7	0·7	77	542	93·2	31·2	1·3	8	10	8	4	–	8·6	16	3·13
		May	29·595	1·261	66·0	28·5	37·5	55·4	41·4	14·0	47·7	38·9	·237	2·7	1·0	72	540	108·6	34·4	1·3	8	10	6	7	–	7·5	15	1·75
		June	29·727	1·019	79·4	41·8	37·6	69·1	49·9	19·2	58·8	47·5	·329	3·7	1·9	67	541	123·6	43·8	1·3	5	9	9	7	–	6·3	8	0·64
NOTTINGHAM, M.O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	183	April	29·567	1·092	61·8	29·4	32·4	52·2	38·8	13·4	44·0	38·5	·234	2·7	0·6	80	544	89·8	37·0	0·4	7	12	8	3	4·5	8·2	21	2·65
		May	29·664	1·285	64·7	28·0	36·7	56·3	40·1	16·2	46·6	40·2	·250	2·9	0·7	80	543	102·1	37·2	0·4	10	10	6	5	4·1	7·6	17	2·61
		June	29·780	0·954	80·4	38·2	42·2	70·5	49·3	21·2	58·2	49·5	·355	4·0	1·5	73	532	123·1	45·6	0·4	7	7	10	6	4·3	5·8	12	1·51
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	100	April	29·625	1·380	59·8	34·5	25·3	51·8	40·5	11·3	45·3	38·8	·236	2·7	0·7	78	544	–	–	1·0	3	15	7	5	–	7·3	15	2·60
		May	29·745	1·470	64·5	34·0	30·5	57·2	43·0	14·2	48·7	40·6	·253	2·9	1·1	74	542	–	–	0·9	2	18	5	6	–	5·9	13	2·32
		June	29·849	1·140	80·9	47·0	33·9	67·4	52·8	14·6	58·9	49·6	·356	4·0	1·5	71	532	–	–	0·7	3	10	4	13	–	6·9	11	1·59
KELSTERN GRANGE, near Louth (Lincolnshire), D. Grant Briggs, Esq., F.M.S.	393	April	29·365	1·264	59·1	31·3	27·8	48·2	38·0	10·2	41·9	38·8	·236	2·8	0·3	90	542	97·9	33·5	0·9	5	12	8	5	8·8	8·3	22	3·02
		May	29·448	1·323	63·5	28·0	35·5	52·4	39·2	13·2	44·8	42·4	·271	3·1	0·2	92	541	103·8	35·0	0·8	6	11	6	8	8·9	7·5	19	1·86
		June	29·577	0·936	75·8	40·8	35·0	65·8	48·1	17·7	55·8	51·3	·378	4·3	0·7	86	531	123·3	43·7	0·9	5	8	8	9	8·3	5·5	10	1·22
LIVERPOOL OBSERVATORY, John Hartnup, Esq., F.R.A.S.	197	April	29·528	1·139	54·9	33·7	21·2	49·9	40·0	9·9	43·7	37·8	·227	2·6	0·6	79	544	–	–	1·3	4	16	5	5	–	7·4	15	2·28
		May	29·642	1·446	61·0	32·7	28·3	54·4	42·8	11·6	47·3	38·6	·234	2·7	1·0	73	542	–	–	1·2	8	12	5	6	–	6·4	13	1·90
		June	29·745	1·057	79·0	47·7	31·3	66·4	52·4	14·0	57·7	48·0	·335	3·8	1·6	70	532	–	–	1·2	4	8	8	10	–	6·1	14	1·23
ECCLES (near Manchester), T. Mackereth, Esq., F.M.S., F.R.A.S.	145	April	29·611	1·328	58·4	29·0	29·4	51·3	36·9	14·4	43·5	37·2	·222	2·6	0·7	78	545	61·7	30·7	0·2	5	15	8	2	1·4	7·9	20	2·07
		May	29·703	1·368	66·6	25·1	41·5	56·6	38·7	17·9	47·2	39·1	·238	2·8	1·0	74	543	70·7	31·9	0·2	9	10	6	6	2·3	7·8	15	3·06
		June	29·818	0·986	82·7	39·0	43·7	69·3	48·2	21·1	57·9	48·2	·338	3·8	1·6	70	533	83·8	40·8	0·2	5	5	10	10	2·0	6·5	13	1·90
BERMERSIDE OBSERVATORY, HALIFAX (Yorkshire), Edward Crossley, Esq., F.R.A.S.	520	April	29·213	1·190	59·0	30·3	28·7	49·3	37·2	12·1	40·9	37·7	·226	2·7	0·3	89	541	79·0	33·6	0·4	6	15	6	3	–	7·9	14	3·63
		May	29·311	1·420	63·4	28·3	38·1	53·7	39·6	14·1	41·9	36·3	·215	2·6	0·6	82	542	90·5	33·7	0·6	7	13	6	5	–	7·2	11	3·69
		June	29·416	1·050	77·3	41·3	36·0	66·9	47·8	19·1	55·3	48·1	·337	3·8	1·1	77	529	110·3	44·3	0·5	1	9	10	10	–	5·6	12	2·32
HULL (Yorkshire), Mr. E. Peak.	12	April	29·777	1·136	59·0	31·0	28·0	49·3	39·2	10·1	43·2	38·4	·232	2·7	0·5	83	549	72·1	37·2	–	–	–	–	–	1·4	–	15	3·87
		May	29·858	1·304	65·0	27·0	38·0	54·6	40·0	14·6	46·4	40·6	·254	3·0	0·6	82	547	78·2	37·7	–	–	–	–	–	2·9	–	16	1·57
		June	29·973	0·938	79·0	40·0	39·0	68·2	49·6	18·6	57·6	51·3	·377	4·2	1·1	80	536	97·3	46·6	–	–	–	–	–	2·0	–	13	1·91
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.S., F.M.S., F.R.A.S.	363	April	29·372	1·377	57·0	28·0	29·0	50·9	36·4	14·5	42·7	37·2	·222	2·6	0·6	82	542	98·4	34·8	1·6	4	16	6	4	–	7·4	17	2·76
		May	29·472	1·441	68·1	23·7	44·4	56·3	39·3	17·0	46·4	40·0	·248	2·9	0·8	79	539	109·2	37·6	1·6	6	14	3	8	–	8·5	13	2·77
		June	29·581	0·998	80·0	38·2	41·8	66·7	48·0	18·7	56·1	47·9	·335	3·8	1·2	74	531	117·5	47·3	1·6	8	5	9	8	–	7·6	15	2·88

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1877. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°								in.
LEEDS (Philosophical Hall) (Yorkshire), H. Crowther, Esq.	137	April	29·642	1·122	62·0	33·0	29·0	50·8	38·8	12·0	43·3	37·6	·225	2·6	0·6	74	546	62·3	–	1·6	6	12	7	5	–	5·1	16	3·51
		May	29·720	1·425	68·0	32·0	36·0	59·8	41·3	18·5	48·3	38·7	·235	2·7	1·1	70	542	72·6	–	1·4	8	9	7	7	–	4·0	12	1·97
		June	29·808	1·042	82·0	44·0	38·0	69·3	50·4	18·9	58·3	47·7	·332	3·7	1·7	68	533	83·3	–	1·4	2	8	9	11	–	3·9	11	1·29
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	366	April	29·362	1·266	54·4	35·0	19·4	48·1	39·2	8·9	42·5	35·4	·207	2·4	0·7	77	542	61·0	–	1·5	5	13	8	5	–	7·3	20	3·24
		May	29·467	1·399	61·9	34·8	27·1	53·2	41·8	11·4	46·1	37·5	·226	2·6	1·0	73	540	70·7	–	0·8	9	10	6	6	–	6·8	15	2·26
		June	29·581	0·992	80·0	44·2	35·8	67·3	51·3	16·0	56·9	47·7	·331	3·7	1·4	71	530	88·3	–	0·7	5	7	9	9	–	6·3	16	1·99
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.R.A.S., F.M.S.	146	April	29·597	1·450	59·8	29·8	30·0	50·9	38·1	12·8	43·9	36·3	·214	2·5	0·8	74	545	88·8	29·6	0·4	3	17	6	4	1·8	6·6	16	2·21
		May	29·686	1·471	63·7	26·8	36·9	55·1	40·1	15·0	46·8	38·9	·237	2·7	0·9	75	543	97·3	29·4	0·4	5	13	6	7	2·7	6·5	15	2·86
		June	29·765	1·032	81·4	40·3	41·1	66·0	50·9	15·1	57·4	48·6	·343	3·8	1·5	72	533	106·9	43·9	0·4	9	3	8	10	3·5	6·7	16	4·05
ALLENHEADS (Northumberland), Mr. T. Kidd, Assistant to W. B. Beaumont, Esq., M.P.	1360	April	28·325	1·127	–	27·0	–	–	32·7	–	–	–	–	–	–	–	–	93·2	–	1·1	3	10	10	7	–	6·1	23	4·47
		May	28·428	1·452	–	22·0	–	–	35·5	–	–	–	–	–	–	–	–	106·0	–	1·1	6	11	7	7	–	6·5	16	3·65
		June	28·533	1·021	–	35·6	–	–	45·3	–	–	–	–	–	–	–	–	119·4	–	1·5	4	8	7	11	–	5·7	14	2·21
SILLOTH RECTORY (Cumberland), Rev. Francis Redford, M.A., F.R.A.S., F.M.S.	28	April	29·738	1·506	63·3	28·8	34·5	53·4	37·0	16·4	43·6	37·3	·222	2·6	0·7	78	548	81·5	33·3	1·3	1	12	14	3	8·4	4·9	12	2·23
		May	29·819	1·618	68·0	27·7	40·3	58·9	39·9	19·0	47·7	39·5	·243	2·8	1·0	74	544	91·9	35·7	1·2	3	12	8	8	9·8	5·0	13	2·67
		June	29·895	1·020	83·2	40·0	43·2	70·3	49·6	20·7	58·0	49·6	·357	4·0	1·4	74	534	103·7	46·1	1·0	3	7	10	10	8·2	4·3	12	2·20
CARLISLE (Cumberland), Isaac Cartmell, Esq., F.M.S.	114	April	29·660	1·352	59·3	26·6	32·7	50·5	35·3	15·2	41·6	–	–	–	–	–	–	82·8	31·4	2·1	8	14	5	3	4·9	7·1	12	2·01
		May	29·730	1·544	66·7	25·8	40·9	56·6	39·4	17·2	46·5	44·1	·259	3·0	0·7	82	544	95·6	34·3	2·1	9	8	5	9	6·4	6·8	16	2·09
		June	29·801	0·992	83·0	38·2	44·8	68·5	47·6	20·9	56·9	47·3	·326	3·7	1·5	70	534	105·7	43·8	2·3	3	5	9	13	5·7	6·0	14	2·27
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	April	29·669	1·262	58·0	33·0	25·0	50·1	38·9	11·2	42·5	36·9	·220	2·5	0·6	81	547	60·7	33·4	1·3	3	19	5	3	–	6·3	22	4·61
		May	29·736	1·550	64·0	32·0	32·0	55·0	42·0	13·0	46·4	39·8	·246	2·9	0·8	79	544	68·0	37·2	1·4	7	12	5	7	–	5·5	18	3·29
		June	29·798	1·064	78·0	43·0	35·0	69·4	53·2	16·2	58·5	49·9	·360	4·0	1·5	73	532	92·2	47·4	1·4	5	8	7	10	–	4·0	14	1·37
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	April	29·745	1·257	55·0	30·0	25·0	48·1	38·0	10·1	41·4	36·7	·218	2·5	0·5	84	550	–	35·2	1·7	8	11	6	5	–	6·7	18	3·53
		May	29·811	1·576	59·5	30·0	29·5	51·9	40·0	11·9	44·5	39·5	·243	2·8	0·6	82	548	–	37·5	1·6	9	11	5	6	–	6·8	15	2·23
		June	29·874	1·076	73·0	42·0	31·0	62·7	50·3	12·4	54·7	47·5	·328	3·7	1·1	76	537	–	47·1	1·6	2	4	10	14	–	4·9	10	1·09
MILLTOWN, Banbridge (Ireland), John P. Smyth, Esq., Jun., M.A., M.I.C.E.I., F.G.S.	200	April	29·500	1·264	56·0	30·0	26·0	49·8	37·7	12·1	43·1	36·5	·216	2·5	0·7	78	544	99·6	33·6	2·3	5	15	8	2	–	5·9	16	3·15
		May	29·630	1·682	62·0	27·0	35·0	55·9	39·9	16·0	46·7	38·8	·236	2·7	0·9	75	542	116·2	35·4	2·0	8	9	10	4	–	4·5	18	3·46
		June	29·683	1·070	77·0	38·0	39·0	65·2	48·6	16·6	55·6	48·0	·336	3·8	1·2	76	533	129·9	45·7	1·5	5	6	13	6	–	4·7	17	2·37

NOTE.—*The Barometer Reading*, Gloucester, 4th April, 4h. p.m., 29·900 in., has been altered to 28·900 in.
" " Ramsgate, 23rd April, 9h. p.m., 29·024 in., " 29·524 in.

Carlisle.—The mean reading of the *wet bulb* thermometer for the month of April at 5h. p.m., when corrected for index error, and diurnal range is higher than that of the dry bulb, and therefore cannot be used in deducing hygrometrical results.

Second Rain-gauges are placed—

			April.	May.	June.	Total during the Quarter.
At Strathfield Turgiss, at the height of 38 feet *above the ground*, the amount collected was			1·88 inches.	1·43 inches.	1·20 inches.	4·51 inches.
" Oxford,	"	22 feet	" " 2·04 "	2·02 "	0·92 "	4·98 "
" Cardington,	"	36 feet	" " 2·30 "	2·00 "	1·00 "	5·30 "
" Nottingham,	"	39 feet	" " 2·44 "	2·37 "	1·28 "	6·09 "
" Eccles,	"	34 feet	" " 1·66 "	2·64 "	1·54 "	5·84 "
" Milltown (Ireland),	"	40 feet	" " — "	3·07 "	2·03 "	— "

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs	°	°									in.
Guernsey	29·531	72·5	36·5	36·0	57·3	47·6	21·5	9·7	51·7	47·7	·337	3·8	0·6	87	537	—	—	1·4	7	8	8	7	3·7	5·2	42	8·80
Helston	29·595	76·0	34·0	42·0	61·7	46·3	32·0	15·4	52·6	44·5	·298	3·4	1·2	74	538	76·3	43·1	2·3	7	8	9	6	6·0	4·4	33	8·60
Truro	29·535	79·0	31·0	48·0	60·7	46·7	32·3	14·0	51·3	46·2	·317	3·6	0·7	83	540	—	—	2·7	6	9	8	7	—	6·4	39	10·74
Plymouth	29·610	75·0	34·5	40·5	59·6	47·1	27·8	12·5	52·1	47·6	·332	3·8	0·7	86	540	—	45·5	1·6	6	10	7	7	—	6·9	37	8·38
Torquay	29·577	76·0	35·0	41·0	58·1	45·9	29·3	12·3	50·7	44·6	·298	3·4	0·9	80	535	—	39·9	1·3	6	10	7	8	4·7	6·7	49	10·32
Ventnor	29·566	78·9	35·0	43·9	61·7	47·3	29·7	14·3	52·2	47·4	·331	3·7	0·8	84	538	—	—	—	4	9	9	8	7·7	5·9	33	5·22
Osborne	29·517	85·4	30·1	55·3	62·8	44·1	37·0	18·8	52·5	49·0	·359	4·0	0·7	89	539	115·2	40·4	0·3	5	10	9	6	—	6·1	34	4·79
Bournemouth	29·599	77·1	31·7	45·4	59·1	47·0	30·1	12·1	51·9	44·0	·292	3·3	1·2	75	539	—	—	—	7	10	8	6	—	4·0	37	6·05
Brighton	29·593	78·4	32·7	45·7	59·2	46·2	30·2	14·0	52·2	44·6	29·	3·3	1·3	74	537	105·1	43·3	1·1	5	8	9	8	—	6·8	34	5·49
Barnstaple	29·520	86·0	32·5	53·5	63·1	43·6	33·7	14·3	54·0	47·3	·332	3·7	1·0	78	53	—	—	1·2	4	9	10	7	—	3·9	39	5·19
Salisbury	29·554	87·5	25·5	62·0	64·4	42·7	43·2	21·7	51·9	46·1	·319	3·6	0·9	81	537	106·8	41·2	1·5	6	9	7	9	—	6·4	37	8·05
Caterham	—	80·0	26·0	54·0	58·4	43·2	34·3	15·2	50·3	42·2	·274	3·1	1·1	74	531	—	41·6	3·6	5	8	9	9	2·7	3·9	38	7·94
Ramsgate	29·563	76·1	33·0	43·1	58·5	46·7	37·9	11·8	51·5	45·2	·307	3·5	0·9	80	539	108·6	41·7	1·4	8	9	7	7	—	6·8	45	6·53
Strathfield Turgiss	29·604	83·4	26·6	56·8	61·4	43·4	37·3	18·0	51·3	43·4	·286	3·2	1·1	75	538	110·9	38·4	0·7	6	8	8	8	2·5	6·7	38	6·16
Weybridge Heath	29·618	84·5	23·5	61·0	63·5	41·9	41·4	21·6	51·9	44·6	·299	3·4	1·1	77	538	95·0	38·4	0·8	8	9	9	5	2·0	6·1	42	5·64
East Tilbury	29·589	86·5	27·6	58·9	63·8	44·0	40·3	19·8	52·8	46·2	·318	3·6	1·0	79	539	92·7	41·6	0·3	5	9	7	10	—	5·8	34	4·81
Marlborough Green	29·604	81·8	25·8	56·0	59·8	43·0	36·4	16·8	50·3	42·8	·279	3·2	1·1	76	530	106·0	38·4	0·3	8	7	7	9	—	6·7	41	7·17
Blackheath	29·602	84·7	28·3	56·4	62·6	44·0	38·8	18·6	51·9	43·1	·283	3·2	1·3	73	538	109·6	40·3	1·1	6	9	8	7	—	5·8	37	5·29
Streatley Vicarage	29·589	86·0	25·3	60·7	62·5	44·2	39·6	18·3	52·2	45·0	·304	3·5	1·1	77	538	—	—	1·6	9	8	6	7	—	6·5	40	5·77
Chiswick	29·571	85·0	28·0	57·0	63·1	42·9	42·0	20·2	51·6	43·9	·291	3·3	1·1	76	540	110·4	38·5	1·2	3	9	9	10	—	6·7	32	4·91
Camden Square	29·590	84·7	29·2	55·5	63·3	45·0	36·5	18·3	52·9	44·2	·295	3·3	1·3	73	538	109·2	41·7	—	9	6	8	7	—	5·2	37	4·92
Oxford	29·571	82·4	27·7	54·7	61·2	44·3	36·2	16·9	52·5	45·0	·304	3·4	1·1	77	536	107·1	41·6	0·8	6	9	7	8	5·2	7·5	43	5·26
Gloucester	29·603	85·5	24·5	61·0	63·3	42·9	44·2	20·4	51·9	44·6	·298	3·3	1·2	77	539	111·0	36·0	0·6	5	9	6	10	2·7	6·7	37	6·32
Royston	29·617	85·6	23·6	62·0	63·0	41·6	41·8	21·4	50·9	44·1	·294	3·3	1·0	78	537	—	—	—	8	7	9	7	—	6·7	36	6·06
Cardington	29·599	84·6	24·6	60·0	62·4	43·2	40·3	19·2	51·8	43·0	·282	3·3	1·3	73	539	97·5	37·0	2·0	6	9	7	9	—	6·7	38	6·55
Cambridge	29·572	85·2	22·4	62·8	63·1	42·8	42·6	20·3	51·6	43·8	·289	3·3	1·2	76	540	110·4	38·5	1·2	6	9	7	8	—	6·7	43	5·99
Somerleyton	29·570	83·0	26·5	56·5	59·7	43·2	37·2	16·5	50·0	46·6	·323	3·6	0·6	89	542	—	34·0	1·2	4	12	8	6	—	5·7	37	5·99
Norwich	29·585	82·8	30·0	52·8	59·4	45·5	34·6	13·9	51·0	44·5	·301	3·4	0·9	80	541	—	—	—	8	10	7	5	—	—	32	7·15
Leicester	29·608	79·4	28·5	50·9	58·5	43·5	34·6	15·0	50·3	41·4	·264	3·0	1·2	72	541	108·5	36·5	1·3	7	10	8	6	—	7·5	39	7·52
Nottingham	29·592	80·4	28·0	52·4	59·7	42·7	37·1	17·0	49·9	42·7	·280	3·2	0·9	78	540	105·0	39·9	0·4	8	10	8	5	4·3	7·2	50	6·77
Llandudno	29·566	80·9	34·0	46·9	58·8	45·4	29·9	13·4	51·0	45·0	·282	3·2	1·1	74	539	—	—	0·9	3	14	5	8	—	6·7	39	6·53
Kelstern Grange	29·588	75·8	28·0	47·8	55·5	41·8	32·8	13·7	47·5	44·2	·295	3·4	0·4	89	538	108·3	37·4	0·9	5	10	7	8	8·7	7·1	51	6·10
Liverpool	29·586	79·0	32·7	46·3	56·9	45·1	26·9	11·8	49·6	41·5	·265	3·0	1·1	74	539	—	—	1·2	5	12	6	7	—	6·6	42	5·41
Eccles	29·602	82·7	25·1	57·6	59·1	41·3	38·2	17·8	49·5	41·5	·266	3·1	1·1	74	540	72·7	—	1·5	5	10	8	8	—	4·3	39	7·03
Bermerside, Halifax	29·619	77·3	28·3	49·0	56·6	41·5	34·8	15·1	46·0	40·7	·259	3·0	0·7	83	537	93·2	37·2	0·5	5	12	7	6	—	6·8	48	7·64
Hull	29·595	79·0	27·0	52·0	57·4	42·9	35·0	14·5	49·1	43·4	·288	3·3	0·7	82	544	82·5	40·5	—	—	—	—	—	2·1	—	44	7·23
Stonyhurst	29·597	80·0	23·7	56·3	58·0	41·2	38·4	16·8	48·4	41·7	·268	3·1	0·9	78	537	108·4	39·9	1·6	6	12	6	7	—	7·8	45	8·41
Leeds	29·610	82·0	32·0	50·0	60·0	43·5	34·3	16·5	50·0	41·3	·264	3·0	1·1	71	540	72·7	—	1·5	5	10	8	8	—	4·3	39	6·77
Bradford	29·611	80·0	34·8	45·2	56·2	44·1	27·4	12·1	48·5	40·2	·255	2·9	1·0	74	537	73·3	—	1·0	6	10	8	7	—	6·8	51	7·42
Cockermouth	29·588	81·4	26·8	54·6	57·3	43·0	36·0	14·3	49·4	41·3	·265	3·0	1·1	74	540	97·7	34·3	0·4	6	11	7	7	2·7	6·6	47	9·12
Allenheads	—	—	22·0	—	—	37·8	—	—	—	—	—	—	—	—	—	106·2	—	1·2	4	10	8	8	—	6·1	55	10·23
Silloth	29·574	83·2	27·7	55·5	60·9	42·2	39·3	18·7	49·8	42·1	·274	3·1	1·0	75	542	92·4	38·4	1·2	2	10	11	7	8·8	4·7	37	7·10
Carlisle	—	83·0	25·8	57·2	58·5	40·8	39·5	17·8	48·3	—	—	—	—	—	—	94·7	36·5	2·2	7	9	6	8	5·7	6·6	42	6·37
Bywell	29·555	78·0	32·0	46·0	58·2	44·7	30·7	13·5	49·1	42·2	·275	3·1	1·0	78	541	73·6	39·3	1·4	5	13	6	7	—	5·3	54	9·27
North Shields	—	73·0	30·0	43·0	54·2	42·8	28·5	11·4	46·9	41·2	·263	3·0	0·7	81	543	—	39·9	1·6	6	9	7	8	—	6·1	43	6·85
Milltown (Ireland)	29·561	77·0	27·0	50·0	57·0	42·1	33·3	14·9	48·5	41·1	·263	3·0	0·9	76	540	115·2	38·2	1·9	6	10	10	4	—	5·0	51	8·98

The highest temperatures of the air were at Salisbury, 87°·5; East Tilbury, 86°·5; Barnstaple and Streatley, both 86°·0; Royston, 85°·6; and Gloucester, 85°·5.

The lowest temperatures of the air were at Allenheads, 22°·0; Cambridge, 22°·4; Weybridge, 23°·5; Royston, 23°·6; and Stonyhurst, 23°·7.

The greatest daily ranges of the temperatures of the air were at Salisbury, 21°·7; Weybridge, 21°·6; Royston, 21°·4; Gloucester, 20°·4; Cambridge, 20°·3; and Chiswick, 20°·2.

The least daily ranges of the temperatures of the air were at Guernsey, 9°·7; North Shields, 11°·4; and Ramsgate and Liverpool both 11°·8.

The greatest number of rainy days were at Bywell, 54; Allenheads, 53; Kelstern Grange, Bradford, and Milltown, all 51; and Nottingham, 50.

The least number of rainy days were at Chiswick and Norwich, both 32; Helston and Ventnor, both 33; and Osborne, Brighton, and East Tilbury, all 34.

The heaviest falls of rain were at Truro, 10·74 inches; Allenheads, 10·33 inches; Torquay, 10·32 inches; Bermerside, 9·64 inches; and Bywell, 9·27 inches.

The least falls of rain were at Cambridge, 3·96 inches; East Tilbury, 4·81 inches; Chiswick, 4·91 inches; Camden Square, 4·92 inches; and Osborne, 4·99 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·531	72·5	36·5	36·0	57·3	47·6	21·5	9·7	51·5	47·7	·337	3·8	0·6	87	537	—	—	1·4	7	8	8	7	3·7	5·2	42	8·80
Between 50° and 51°	29·574	78·2	33·0	45·2	60·5	46·3	31·1	14·2	51·9	45·9	·315	3·6	0·9	81	538	98·9	42·4	1·6	6	9	8	7	6·1	5·9	37	7·48
Between 51° and 52°	29·585	83·6	27·5	56·1	61·9	44·2	37·6	17·7	51·9	44·4	·298	3·4	1·1	76	537	106·1	39·8	1·2	6	8	8	8	3·0	6·1	39	6·08
Between 52° and 53°	29·592	83·0	26·2	56·8	60·8	43·2	33·3	17·6	50·8	43·8	·290	3·3	1·0	78	540	109·0	36·7	1·3	7	9	8	7	—	6·8	39	5·47
Between 53° and 54°	29·595	79·6	28·9	50·7	57·8	42·8	33·7	15·0	48·9	42·2	·274	3·1	0·9	78	539	89·7	37·9	1·0	5	11	7	7	4·2	6·7	43	7·15
Between 54° and 55°	29·582	81·1	29·4	51·7	58·2	43·0	34·6	15·2	49·0	41·5	·267	3·0	1·0	75	540	89·7	37·1	1·2	5	11	8	6	5·7	6·0	47	8·28
Mean for the Quarter, 50° to 55° — Year 1874	29·683	78·3	30·8	47·5	62·3	43·6	40·9	18·7	51·4	44·5	·296	3·3	1·0	77	539	103·3	38·6	1·1	8	8	6	9	3·6	5·7	34	4·41
Mean for the Quarter, 50° to 55° — „ 1875	29·663	78·7	29·3	49·4	62·4	44·2	39·3	18·2	52·0	45·1	·305	3·5	1·0	77	539	100·7	39·5	1·2	6	6	8	11	4·3	5·9	38	5·89
Mean for the Quarter, 50° to 55° — „ 1876	29·703	82·6	28·3	54·3	61·1	43·1	40·3	18·0	50·9	43·8	·289	3·3	0·9	75	541	101·4	37·8	1·0	7	8	6	8	4·1	5·5	34	5·57
Mean for the Quarter, 50° to 55° — „ 1877	29·586	81·1	29·0	52·1	59·8	43·9	35·1	15·9	50·5	43·6	·289	3·3	1·0	78	539	98·7	38·8	1·3	7	9	8	7	4·8	6·3	41	6·89

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING SEPTEMBER 30, 1877.

Remarks on the Weather during the Quarter ending September 30th, 1877.

By James Glaisher, Esq., F.R.S., *&c.*

The weather during the quarter has been for the most part cold and ungenial, particularly towards the end of September; the only period of genial weather in the three months was that in August from the 13th to the 21st, the wind during this period was chiefly from the S.W., and the two days, viz., the 19th and 20th of August were warm, being 8° and 10° above their average temperatures, and the mean excess of daily temperature for these nine days was $4\frac{1}{4}°$. The 43 days ending August 12th were, with very few exceptions, chilly and unpleasant, the average daily deficiency of temperature for these 43 days was $1\frac{1}{4}°$. From August 22nd to the end of the quarter the weather was almost continuously cold, and at times painfully so, particularly from the 15th to the 25th of September, when the wind was almost constantly blowing from the north, the average deficiency of daily temperature for the 40 days ending September 30th, was 3°·1, and the mean temperature of the month of September proved to be lower than in any September for 74 years, that is back to the year 1803. The six most remarkable days of cold were those from the 20th to the 25th of September both inclusive. The following table shows the highest and lowest temperatures observed on these days, and the amount of departures below their averages will be seen by considering that the average maximum temperature in September is about $67\frac{3}{4}°$, and the average minimum temperature in September is about $49\frac{1}{4}°$.

Table of Maximum and Minimum Temperatures of the Air at the several Stations on September 20th, 21st, 22nd, 23rd, 24th, and 25th.

Names of Stations.	Sept. 20th. Max.	Sept. 20th. Min.	Sept. 21st. Max.	Sept. 21st. Min.	Sept. 22nd. Max.	Sept. 22nd. Min.	Sept. 23rd. Max.	Sept. 23rd. Min.	Sept. 24th. Max.	Sept. 24th. Min.	Sept. 25th. Max.	Sept. 25th. Min.
	°	°	°	°	°	°	°	°	°	°	°	°
Guernsey	60·5	56·0	55·5	49·5	56·5	47·0	59·5	48·0	59·0	51·5	60·0	49·5
Helston	68·0	53·0	60·0	38·0	68·0	41·0	60·0	52·0	65·0	45·0	63·0	47·0
Truro	61·0	54·0	60·0	41·0	61·0	33·0	58·0	42·0	65·0	50·0	62·0	45·0
Plymouth	66·0	51·5	61·5	48·0	57·5	41·0	59·0	41·5	57·5	47·5	60·5	44·0
Torquay	60·8	52·6	56·0	45·5	57·1	41·0	57·2	43·3	60·4	46·0	60·8	44·8
Ventnor	65·0	51·9	62·2	41·2	63·0	41·1	60·3	46·8	64·5	47·4	64·6	45·2
Osborne	62·9	49·6	61·9	39·8	61·3	39·1	59·7	41·0	62·4	43·1	57·2	36·9
Portsmouth	62·0	52·0	61·0	43·0	58·5	42·0	58·0	45·0	55·6	44·0	56·5	43·0
Brighton	56·6	48·0	55·8	39·5	54·1	39·1	58·4	43·3	56·8	43·5	56·0	38·0
Salisbury	60·0	49·0	61·0	34·0	59·0	33·0	64·0	35·0	63·0	38·0	58·0	38·0
Barnstaple	62·0	55·0	63·0	47·0	59·0	36·0	60·0	45·0	60·0	48·0	63·0	51·0
Caterham	56·0	48·0	50·0	36·0	50·0	36·0	52·0	38·0	54·0	42·0	54·0	35·0
Ramsgate	55·0	49·5	56·2	46·7	58·5	45·2	58·3	44·6	57·3	44·7	56·0	45·1
Strathfield Turgiss	57·8	47·0	57·0	37·7	57·4	39·0	56·5	38·3	60·3	42·8	57·2	31·2
Weybridge Heath	52·5	45·0	57·8	33·8	57·0	34·0	59·5	39·3	58·3	38·8	57·3	32·5
Marlborough	58·2	47·9	55·9	37·7	54·9	37·3	57·5	38·9	59·0	39·2	54·9	33·1
Bristol	60·4	49·6	58·1	38·8	58·7	36·9	60·4	40·6	61·0	41·0	59·0	42·0
Blackheath	53·8	47·0	57·1	39·6	59·0	40·8	55·3	44·4	59·7	43·6	54·8	35·0
Royal Observatory	52·4	44·5	58·5	38·5	59·5	39·0	57·9	43·0	61·3	42·5	54·9	33·3
Streatley	—	—	—	—	—	—	—	—	62·0	36·8	62·3	30·9
Chiswick	62·0	47·0	55·0	35·0	55·0	34·0	56·0	36·0	58·0	36·0	59·0	28·0
Camden Square	55·4	48·8	58·1	38·6	58·5	39·9	58·3	43·6	59·0	41·6	57·1	36·1
Oxford	54·9	38·1	55·1	39·0	55·4	43·0	56·5	44·0	57·1	33·0	55·9	41·0
Gloucester	58·0	50·0	58·0	35·5	60·0	33·0	59·0	40·5	61·0	38·0	58·5	35·0
Royston	59·0	48·1	56·6	35·3	55·2	37·0	56·3	40·7	59·1	41·6	57·7	33·8
Cardington	59·6	50·0	57·6	37·4	55·0	37·4	55·6	43·0	58·4	42·0	57·4	32·0
Cambridge	58·0	49·0	56·8	38·0	57·5	39·0	59·6	43·0	57·5	42·1	56·8	35·0
Somerleyton	58·9	48·2	57·9	40·4	57·0	38·3	56·8	42·0	57·0	39·8	56·8	39·4
Norwich	55·0	46·5	56·2	43·0	54·0	42·0	56·0	45·0	55·0	44·0	53·0	41·2
Leicester	57·0	46·9	56·7	39·0	56·0	39·1	58·5	46·5	56·9	44·0	52·0	35·4
Wolverhampton	55·1	49·0	54·5	37·4	54·0	36·7	52·6	44·7	55·5	39·0	55·3	36·0
Wisbech	57·2	48·3	56·7	38·0	58·2	39·5	58·4	44·0	56·8	41·0	53·5	35·0
Nottingham	61·0	49·2	55·7	38·0	56·3	38·6	56·6	45·0	58·2	45·2	57·0	35·0
Llandudno	56·8	51·3	54·1	47·6	57·7	48·9	56·0	48·2	55·9	45·5	54·4	43·9
Sheffield	55·0	48·7	57·0	40·0	57·0	40·0	59·0	46·5	57·0	45·0	52·0	35·0
Kelstern Grange	55·5	42·5	54·1	37·9	53·9	38·0	55·9	39·8	55·2	38·8	50·4	37·2
Liverpool	57·8	52·0	57·1	42·0	54·4	42·8	53·8	48·9	56·0	48·0	55·3	45·2
Eccles	57·2	47·5	60·5	33·0	58·2	31·3	62·5	45·6	63·7	42·6	52·5	37·0
Bermerside	54·0	47·0	55·0	48·8	55·6	36·5	55·7	36·3	56·0	44·0	50·2	37·0
Hull	55·0	47·0	55·0	40·0	54·0	40·0	55·0	45·0	55·0	42·0	52·0	38·0
Stonyhurst	56·9	34·1	54·1	33·9	55·3	47·1	59·0	42·8	59·1	36·2	54·2	43·3
Leeds	69·0	46·0	69·0	41·0	74·0	40·0	—	46·0	72·0	44·0	58·0	39·0
Bradford	60·0	48·4	53·0	42·0	55·0	40·0	55·0	40·6	55·2	45·2	53·8	40·2
Cockermouth	58·4	46·2	58·3	34·1	55·5	31·1	60·4	46·7	59·5	41·0	57·0	40·9
Allenheads	—	42·8	—	37·3	—	33·2	—	—	—	38·0	—	36·8
Silloth	59·2	46·3	59·8	34·8	63·4	34·3	65·8	44·3	59·1	42·7	62·7	41·5
Sunderland	52·0	47·0	57·0	44·0	52·0	43·0	56·0	50·0	61·0	44·0	55·0	44·0
Carlisle	56·2	35·5	54·6	31·5	56·8	43·0	58·1	39·6	52·4	38·6	60·0	34·5
Bywell	58·0	48·0	55·0	42·0	57·0	40·0	58·0	46·0	57·0	43·0	57·0	40·0
North Shields	49·7	45·0	52·0	41·0	53·0	39·5	52·0	43·5	52·2	42·5	55·3	41·0
Milltown (Ireland)	58·0	50·0	55·0	39·0	56·9	35·0	56·0	46·0	55·0	47·0	57·0	47·0

It will be seen that the maximum temperatures on these days were generally some degrees below 60°, and that the minimum temperatures, which should be nearly 50°, were very generally below 40°, and on the 25th day at some places below 32°.

The readings of the barometer in the neighbourhood of London were alternately above and below their averages from the 1st to the 11th of July; below their respective averages from the

12th to the 19th; above on the 20th and 21st; below on the three following days; and then above to the end of the month, with the exception of the 26th, which was 0·02 in. below. The mean reading for the month was 29·747 ins. being 0·058 in. below the average of the preceding 36 years. In August the barometer readings were above their average values from the 2nd to the 6th (that of the 1st being 0·04 inch below), they were below on the four following days, above on the 11th and 12th, below from the 13th to the 22nd, with the exception of two days, viz., 17th and 18th, which were 0·01 in., and 0·05 in. above their averages; the readings were above their averages on the 23rd and 24th, and below from the 25th to the end of the month. The mean reading for the month was 29·701 ins., being 0·093 in. below the average. The following are the only instances back to 1841 when the barometer reading for the month of August was lower than that of the present year, viz., in 1844 it was 29·677 ins.; in 1852 it was 29·649 ins.; in 1866 it was 29·637 ins. From the 1st to the 5th of September the readings of the barometer were alternately above and below their averages; they were below, from the 6th to the 15th, above on the 16th, 17th, 18th, and 19th, below on the four following days, and above from the 24th to the end of the month. The mean reading for the month was 29·903 ins., being 0·101 in. above the average.

At Greenwich *the mean temperature* of July was below that of June by 0°·5; that of August was above that of July by 0°·9; and that of September was below that of August by 8°·8. (From the preceding 36 years' observations the *mean temperature* of July is higher than that of June by 3°·3; that of August is lower than that of July by 0°·7; and that of September is lower than that of August by 4°·2.)

The mean temperature of the air for July below that of June over the whole country was 0°·2; that of August above that of July was 0°·7; and that of September below that of August was 6°·6.

The mean temperature of the air for July was 60°·8, being 0°·8 and 1°·4 below the averages of the preceding 106 years, and 36 years respectively. It was 5°·1 lower than the value recorded in 1876.

The mean temperature of the air for August was 61°·7, being 0°·8 and 0°·2 above the averages of the preceding 106 years, and 36 years respectively.

The mean temperature of the air for September was 52°·9, being 3°·7; and 4°·4 below the averages of the preceding 106 years, and 36 years respectively. In the preceding 106 years, there are only 4 instances of so low a mean temperature in September, viz.:—In 1771, it was 52°·0; in 1786, it was 51°·3; in 1793, it was 52°·8; and in 1803, it was 52°·4.

The mean temperature of the air for the quarter was 58°·5, being 1°·2 and 1°·9 below the averages of the preceding 106 years and 36 years respectively.

The mean high day temperatures of the air were 1°·6, 0°·2, and 4°·5 below their averages in July, August, and September respectively.

The mean low night temperatures of the air were 1°·1 and 4°·0 below their respective averages in July and September; but 0°·9 above in August. Therefore the days and nights were cold in July and September, and also at the beginning and end of August, but warm in the middle.

The mean daily ranges of temperature were respectively 0°·6, 1°·0, and 0°·5 below their averages in July, August, and September.

At Greenwich the atmospheric pressure in July was less than in June by 0·096 in., in August less than in July by 0·046 in., and in September greater than in August by 0·202 in. (From the preceding 36 years' observations the mean pressure in July is less than in June by 0·005 in., in August less than in July by 0·011 in., and in September greater than in August by 0·008 in.) The mean *decrease* of pressure from June to July south of latitude 51° was 0·037 in., between 51° and 52° was 0·086 in., between 52° and 53° was 0·118 in., between 53° and 54° was 0·129 in.; and north of 54° was 0·133 in. The mean decrease from July to August south of latitude 51° was 0·083 in., between 51° and 52° was 0·051 in., between 52° and 53° was 0·039 in., between 53° and 54° was 0·030 in., and north of 54° was 0·022 in. The mean increase from August to September south of latitude 51° was 0·173 in., between 51° and 52° was 0·185 in., between 52° and 53° was 0·199 in., between 53° and 54° was 0·243 in.; and north of 54° was 0·264 in.

The fall of rain in July was 2·4 ins., being 0·2 in. below the average; in August it was 2·9 ins., being 0·5 in. above the average; and in September it was 1·1 in., being 1·3 in. below the average. Since 1815 there have been only nine instances of so small a fall of rain in September, as that in the present year, viz.:—In the year 1818 it was 0·9 in., in 1823 it was 1·0 in., in 1832 it was 0·4 in., in 1834 it was 0·9 in., in 1843 it was 0·5 in., in 1851 it was 0·4 in., in 1854 it was 0·7 in., in 1858 it was 0·9 in., and in 1865 it was 0·2 in. The fall of rain in the quarter was 6·4 in., being 1·0 in., below the average of the preceding 62 years.

Thunderstorms occurred on 8 days in July, 9 in August, and 6 in September.

Thunder was heard but lightning was not seen on 6 days in July, 11 in August, and 4 in September.

Lightning was seen but thunder was not heard on 4 days in July, 8 in August, and 4 in September.

Solar halos were seen on 7 days in July, 6 in August, and 5 in September.

Lunar halos were seen on 2 nights in July, 4 in August, and 2 in September.

Hail fell on 7 days in July, 3 in August, and 3 in September.

Fog prevailed on 5 days in July, 7 in August, and 11 in September.

1877. Months.	Temperature of Air. Mean.	Air. Diff. from average of 106 years.	Air. Diff. from average of 36 years.	Evaporation. Mean.	Evaporation. Diff. from average of 36 years.	Dew Point. Mean.	Dew Point. Diff. from average of 36 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 36 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 36 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 36 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.
July -	60·8	−0·8	−1·4	56·3	−1·5	52·4	−1·5	20·7	−0·6	66·4	0·394	−0·024	4·4	−0·3
August	61·7	+0·8	+0·2	56·8	−0·6	52·6	−1·2	18·9	−1·0	65·9	0·397	−0·020	4·4	−0·2
Sept. -	52·9	−3·7	−4·4	49·5	−4·6	46·2	−4·9	18·0	−0·5	58·8	0·313	−0·067	3·6	−0·6
Means -	58·5	−1·2	−1·9	54·2	−3·2	50·4	−2·5	19·2	−0·7	63·7	0·368	−0·037	4·1	−0·4

1877. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 36 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 36 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 36 years.	Rain. Amount.	Rain. Diff. from average of 62 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
July -	74	−1	29·747	−0·058	529	+ 1	2·4	−0·2	286	0	4	27	35·8	55·2
August	73	−3	29·701	−0·093	527	− 2	2·9	+0·5	293	0	2	29	30·5	58·1
Sept. -	78	−3	29·903	+0·101	540	+ 7	1·1	−1·3	241	3	15	12	25·6	57·0
Means -	75	−2	29·784	−0·017	532	+ 2	Sum 6·4	Sum −1·0	Mean 273	Sum 3	Sum 21	Sum 68	Lowest 25·6	Highest 58·1

NOTE.—In reading this table it will be borne in mind that the minus sign (−) signifies *below* the average, and that the plus sign (+) signifies *above* the average.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter were as follows:—

Direction of Wind.	July. Average.	July. 1877.	July. Departure from Average.	August. Average.	August. 1877.	August. Departure from Average.	September. Average.	September. 1877.	September. Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	2¾	3	+ ¼	2	4	+2	1½	4	+2½
N.	3¼	0	−3¼	3	3	0	3½	10	+6½
N.E.	3¼	0	−3¼	3	0	−3	5½	3	−2½
E.	1½	0	−1½	1	0	−1	1¼	2	+ ¾
S.E.	¼	0	− ¼	1¼	2	+ ¾	1¼	2	+ ¾
S.	2¾	4	+1¼	3	4	+1	2	1	−1
S.W.	10½	12	+1½	10½	11	+ ½	7½	5	−2½
W.	4	11	+7	3¾	7	+3¼	2½	2	− ½
Calm (nearly.)	2½	1	−1½	3½	0	−3½	4½	1	−3½

The plus sign (+) denotes excesses over averages; the largest numbers affected with this sign in the month of July are opposite to the W., in August to the N.W. and W., and in September to the N. and N.W.

The minus sign (−) denotes defects below averages; the largest numbers affected with this sign in the month of July are opposite to the N. and N.E., in August to the N.E. and E., and in September to the N.E. and S.W.

Oats in flower, on the 7th of July at Llandudno. *Wheat in ear*, on the 1st of July at Oxford; *Barley in ear*, on the 3rd of July at Strathfield Turgiss. *Oats in ear*, on the 1st of July at Strathfield Turgiss. *Rye in ear*, on the 1st of July at Oxford.

Oats cut, on the 25th of July at Oxford, on the 20th of August at Llandudno, and on the 25th at Kelstern Grange.

Wheat cut, on the 1st of August at Guernsey, on the 7th at Oxford, on the 8th at Cardington, on the 13th at Torquay, on the 17th at Llandudno, and on the 21st at Kelstern Grange.

Barley cut, on the 18th of August at Cardington, on the 20th at Oxford, on the 24th at Llandudno, and on the 30th at Torquay.

Horsechesnut divested of leaves, on the 27th of September at Helston. *Hawthorne divested of leaves*, on the 20th of September at Helston.

Woodcock arrived, on the 26th of September at Helston. *Swallow departed*, on the 20th of September from Stonyhurst.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING SEPTEMBER 30TH, 1877.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the sixth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1877. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat^{n}. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.M.S.	204	July	29·776	1·020	79·5	50·5	29·0	65·0	54·6	10·4	58·0	55·7	·445	4·9	0·5	92	532	–	–	1·3	5	2	10	14	4·1	5·1	13	2·89
		Aug.	29·684	0·683	75·5	51·5	24·0	66·3	57·3	9·0	59·9	57·1	·468	5·2	0·6	91	528	–	–	1·4	6	5	10	10	4·2	4·4	14	2·39
		Sept.	29·838	0·658	67·5	47·0	20·5	61·6	52·9	8·7	56·0	52·3	·394	4·4	0·6	88	535	–	–	1·2	10	7	5	8	3·4	4·0	11	1·83
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	July	29·904	1·046	76·0	45·0	31·0	70·2	52·1	18·1	59·7	51·8	·386	4·3	1·4	75	532	79·9	48·2	2·1	8	0	9	14	3·5	4·7	14	3·56
		Aug.	29·805	0·916	80·0	40·0	40·0	70·6	54·7	15·9	61·2	52·8	·398	4·5	1·6	75	529	82·6	49·9	2·3	4	5	13	9	4·2	4·5	17	5·21
		Sept.	29·948	0·683	72·0	38·0	34·0	65·8	48·1	17·7	55·7	49·3	·353	4·0	1·0	80	538	78·3	42·9	2·2	13	8	4	5	5·8	4·9	12	3·09
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	July	29·908	1·030	78·0	43·0	35·0	67·7	53·0	14·7	58·0	54·2	·421	4·7	0·7	87	534	–	–	2·7	7	2	6	16	–	6·9	15	2·85
		Aug.	29·809	0·847	74·0	38·0	36·0	68·3	54·4	13·9	59·1	54·0	·417	4·7	0·9	80	531	–	–	2·6	5	5	10	11	–	6·9	21	5·84
		Sept.	30·016	0·740	68·0	33·0	35·0	63·5	46·6	16·9	53·5	50·5	·367	4·1	0·5	89	541	–	–	2·4	12	10	4	4	–	5·9	11	2·66
PLYMOUTH (Devon), John Merrifield, Esq., F.R.A.S., F.M.S., LL.D.	69	July	29·964	1·078	75·0	45·0	30·0	67·5	53·1	14·4	59·2	53·7	·413	4·7	1·0	83	534	–	51·5	1·4	6	2	8	15	–	7·0	12	2·83
		Aug.	29·888	0·848	73·0	41·0	32·0	67·5	55·7	11·8	60·4	55·9	·447	5·0	0·9	86	531	–	54·6	1·6	6	6	10	9	–	6·3	21	5·08
		Sept.	30·069	0·671	66·0	39·0	27·0	61·7	48·4	13·3	54·2	49·8	·358	4·0	0·7	85	541	–	48·0	1·2	9	8	5	8	–	5·5	10	2·29
BABBACOMBE, Torquay (Devon), Edwin E. Glyde, Esq., F.M.S.	305	July	29·639	1·120	77·9	44·0	33·9	66·8	51·8	15·0	57·9	51·3	·378	4·3	1·1	79	530	134·1	45·6	1·1	5	2	6	18	3·8	6·9	12	2·43
		Aug.	29·565	0·857	72·8	41·6	31·2	66·5	54·3	12·2	59·1	53·4	·409	4·6	1·0	82	527	131·4	49·0	1·2	2	5	9	15	4·7	6·5	13	4·00
		Sept.	29·743	0·705	67·8	40·0	27·8	60·7	48·9	11·8	54·1	47·5	·329	3·7	1·0	79	536	121·1	43·1	1·3	11	8	4	7	4·2	5·7	8	2·43
VENTNOR (Royal National Hospital for Consumption), Isle of Wight, Hartley Sagar, Esq.	100	July	29·860	1·024	77·5	48·8	28·7	69·6	55·4	14·2	60·1	54·7	·428	4·8	1·0	83	531	–	–	–	2	0	2	27	6·4	5·1	11	2·16
		Aug.	29·796	1·032	78·0	50·0	28·0	70·2	57·6	12·6	62·2	56·8	·460	5·2	1·1	83	528	–	–	–	3	2	8	18	6·9	4·9	14	2·43
		Sept.	30·076	0·566	70·8	41·1	29·7	65·8	51·1	14·7	56·7	48·0	·336	3·8	1·4	72	539	–	–	–	6	9	9	6	6·3	4·5	8	1·60
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	July	29·763	1·058	86·4	44·0	42·4	71·2	51·8	19·4	60·4	57·0	·467	5·2	0·7	89	529	123·0	49·0	0·2	4	0	13	14	–	6·1	12	2·67
		Aug.	29·704	0·720	80·6	41·4	39·2	70·6	54·5	16·1	61·0	57·3	·470	5·2	0·8	88	527	121·5	52·1	0·4	5	2	13	11	–	6·4	11	3·12
		Sept.	29·877	0·710	70·3	36·9	33·4	64·1	47·0	17·1	55·1	52·9	·401	4·5	0·4	92	537	108·4	44·0	0·3	12	7	4	7	–	5·1	7	1·62
SOUTH BOURNE, near Bournemouth, (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	128	July	29·835	1·080	79·3	41·8	37·5	68·1	52·8	15·3	59·4	49·8	·358	4·0	1·7	70	532	–	–	–	4	0	6	21	–	3·8	8	3·38
BRIGHTON (Sussex), F. E. Sawyer, Esq., F.M.S.	206	July	29·732	1·138	74·0	45·4	28·6	69·6	53·8	15·8	60·7	52·7	·398	4·5	1·5	70	528	115·9	51·0	1·0	2	1	12	16	–	6·7	11	2·36
		Aug.	29·665	0·625	74·8	45·3	29·5	69·1	55·5	13·6	61·3	52·5	·396	4·4	1·4	73	526	114·6	52·8	1·1	6	4	12	9	–	5·6	10	3·05
		Sept.	29·843	0·621	67·2	38·0	29·2	61·0	48·0	13·0	54·0	46·3	·312	3·5	1·2	75	538	97·2	45·6	1·0	14	5	4	7	–	4·9	9	0·99
SALISBURY (Wilton House), T. Challis, Esq.	186	July	29·727	1·132	87·0	38·0	49·0	71·8	47·9	23·9	58·7	52·0	·389	4·3	1·2	79	530	118·8	46·2	1·3	2	0	3	26	–	6·5	14	4·44
		Aug.	29·676	0·768	80·0	34·0	46·0	71·6	51·0	20·6	59·8	53·8	·415	4·6	1·1	82	528	116·8	49·0	1·5	4	2	4	21	–	6·6	15	3·34
		Sept.	29·868	0·684	71·0	33·0	38·0	64·1	41·8	22·3	52·2	47·2	·323	3·7	0·7	83	540	103·3	39·9	1·3	13	3	4	10	–	5·8	6	2·69
BARNSTAPLE (Devon), William Knile, Esq.	43	July	29·897	1·100	77·0	45·0	32·0	68·5	56·1	12·4	60·6	53·4	·407	4·6	1·4	77	531	–	–	1·3	3	1	11	16	–	4·7	18	4·80
		Aug.	29·818	0·910	77·0	50·0	27·0	70·1	58·0	12·1	62·3	54·4	·423	4·7	1·6	75	528	–	–	1·4	1	4	13	13	–	4·1	18	5·69
		Sept.	30·018	0·740	69·0	36·0	33·0	63·9	48·4	15·5	55·2	48·9	·347	3·9	1·0	80	539	–	–	1·3	10	7	6	7	–	2·6	9	3·18

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1877. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat^{n}. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
CATERHAM (Surrey), James Adam, Esq., M.D.	611	July	29·291	1·150	79·0	40·0	39·0	66·8	49·2	17·6	58·1	50·3	·366	4·1	1·3	75	523	–	47·1	3·9	7	0	5	19	2·0	5·0	14	3·31
		Aug.	29·263	0·650	75·0	38·0	37·0	67·6	48·8	18·8	58·7	52·6	·398	4·4	1·1	80	522	–	47·4	2·2	5	3	8	15	3·6	5·1	15	3·36
		Sept.	29·386	0·650	67·0	35·0	32·0	59·2	45·6	13·6	52·0	45·5	·305	3·5	0·9	79	532	–	44·1	1·9	10	9	4	7	–	3·2	15	1·43
RAMSGATE (Kent), Rev. B. Douglas O'Gara, O.S.B.	108	July	29·812	1·007	81·2	44·3	36·9	72·1	53·3	18·8	61·2	53·9	·416	4·7	1·4	78	529	120·6	48·9	1·4	3	2	9	17	–	6·2	15	1·70
		Aug.	29·743	0·669	76·0	44·6	31·4	69·3	56·5	12·8	61·8	54·9	·432	5·0	1·4	79	527	118·6	52·3	1·8	4	4	11	12	–	6·4	15	2·05
		Sept.	29·913	0·740	68·8	44·6	24·2	62·1	50·5	11·6	55·4	49·1	·351	3·9	1·0	80	537	110·7	46·2	1·5	10	6	4	10	–	5·5	12	1·50
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	July	29·724	1·066	82·8	40·0	42·8	69·1	50·6	18·5	58·9	51·7	·384	4·3	1·2	77	530	121·3	45·6	0·6	2	0	5	24	3·5	6·4	12	2·74
		Aug.	29·664	0·767	79·0	36·9	42·1	69·0	52·5	16·5	60·1	52·2	·391	4·4	1·4	75	528	124·4	48·8	0·7	4	3	8	16	4·1	5·5	12	1·68
		Sept.	29·858	0·706	66·7	31·2	35·5	62·0	44·3	17·7	52·5	47·1	·324	3·7	0·7	82	540	107·1	39·5	0·5	8	9	3	10	1·1	5·9	7	1·26
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	Sept.	29·930	0·752	72·5	32·5	40·0	62·7	43·5	19·2	51·9	46·2	·314	3·5	0·8	81	542	94·9	40·0	0·6	11	8	7	4	0·3	5·9	10	0·97
EAST TILBURY VICARAGE (Essex), Rev. R. Tyas, M.A., LL.D.	29	July	29·895	1·082	91·5	43·2	48·3	74·4	52·5	21·9	62·2	54·9	·433	4·8	1·4	78	529	105·9	49·8	0·9	4	0	1	26	–	4·4	12	0·86
		Aug.	29·855	0·670	86·0	40·0	46·0	75·8	54·5	21·3	64·2	54·8	·432	4·7	1·9	71	527	104·1	51·0	0·4	5	3	9	14	–	6·5	9	1·48
		Sept.	30·027	0·740	75·2	31·3	43·9	64·6	45·4	19·2	54·2	46·5	·315	3·6	1·2	75	541	88·4	40·2	0·6	13	6	4	7	–	5·0	8	0·49
MARLBOROUGH, The Green (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	474	July	29·420	1·093	82·5	41·4	41·1	67·9	50·4	17·5	57·9	52·4	·394	4·4	1·0	82	536	118·6	44·6	0·2	3	0	6	22	–	6·4	20	5·22
		Aug.	29·362	0·784	77·3	36·2	41·1	68·3	52·4	15·9	59·2	53·1	·405	4·6	1·1	81	523	117·7	47·3	0·2	6	3	9	13	–	6·5	18	4·66
		Sept.	29·361	0·652	66·5	33·1	33·4	61·1	43·8	17·3	51·8	44·8	·297	3·4	1·0	77	535	105·7	37·5	0·1	15	5	4	6	–	6·0	7	3·13
BLACKHEATH (London), James Glaisher, Esq., F.R.S.	160	July	29·743	1·121	86·8	44·2	42·6	70·6	53·4	17·2	60·6	52·6	·396	4·4	1·5	75	529	124·4	48·7	1·0	2	0	10	19	–	5·8	13	2·48
		Aug.	29·699	0·711	84·7	42·6	42·1	71·6	55·8	15·8	62·1	53·4	·409	4·5	1·7	74	526	117·7	52·3	1·2	5	1	11	14	–	6·1	17	3·00
		Sept.	29·884	0·739	71·6	35·0	36·6	62·5	46·4	16·1	53·3	47·1	·323	3·6	0·9	80	539	104·1	43·3	0·7	13	5	4	8	–	6·2	10	1·23
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.S., F.M.S.	150	July	29·761	1·173	84·6	46·0	88·6	71·0	52·2	18·8	60·2	53·5	·409	4·6	1·3	79	529	–	–	2·1	5	0	7	19	–	6·3	16	2·72
		Aug.	29·730	0·765	86·5	37·8	48·7	71·9	54·5	17·4	61·8	54·2	·421	4·7	1·5	76	527	–	–	1·9	5	2	10	14	–	6·3	18	2·61
		Sept.	29·924	0·676	69·4	30·9	38·5	64·2	44·9	19·3	53·5	47·7	·331	3·7	0·9	81	540	–	–	1·6	11	6	2	11	–	5·1	8	1·46
CHISWICK (Middlesex), J. K. L. M. Farquhar, Esq.	25	July	29·870	1·050	83·0	42·0	41·0	71·3	51·4	19·9	60·2	54·6	·426	4·8	1·1	82	531	122·7	47·3	1·2	1	0	6	24	–	6·9	11	2·81
		Aug.	29·838	0·696	87·0	35·0	52·0	73·0	52·1	20·9	60·7	51·9	·387	4·3	1·6	72	530	124·9	48·0	1·3	1	2	11	17	–	6·7	15	2·84
		Sept.	30·006	0·702	75·0	28·0	47·0	62·9	42·5	20·4	52·3	46·7	·319	3·6	0·8	82	543	110·0	37·9	1·0	9	6	5	10	–	6·6	6	0·57
CAMDEN SQUARE (London), G. J. Symons, Esq., F.M.S.	123	July	29·783	1·102	87·1	43·6	43·5	71·9	53·0	18·9	61·3	52·5	·396	4·4	1·6	74	529	123·9	49·5	–	4	1	9	17	–	5·3	14	3·94
		Aug.	29·744	0·696	82·9	42·4	40·5	72·8	55·0	17·8	62·6	52·8	·400	4·4	1·9	70	527	124·9	52·4	–	6	1	7	17	–	5·2	17	2·23
		Sept.	29·628	0·726	73·3	36·1	37·2	63·7	46·2	17·5	53·8	45·9	·309	3·6	1·2	75	540	103·9	41·7	–	12	2	5	11	–	5·9	10	0·83
OXFORD OBSERVATORY, Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	July	29·678	1·116	82·0	42·0	40·0	70·0	52·0	18·0	60·6	53·1	·405	4·5	1·4	77	527	117·5	47·7	1·0	3	0	12	16	4·1	7·6	16	3·36
		Aug.	29·640	0·799	77·9	39·5	38·4	68·8	53·5	15·3	60·9	53·6	·411	4·6	1·4	77	526	118·6	51·5	0·7	4	3	10	14	4·9	7·6	24	3·40
		Sept.	29·834	0·665	67·7	33·8	33·9	69·5	45·6	23·9	55·2	48·7	·345	3·9	1·1	79	536	109·3	42·0	0·5	11	6	4	9	2·7	7·5	13	2·51
GLOUCESTER ASYLUM, E. Toller, Esq., M.D.	100	July	29·842	1·110	82·0	40·5	41·5	72·3	51·4	20·9	60·2	53·7	·444	5·0	0·8	86	530	126·5	–	0·4	8	1	3	19	1·2	6·8	12	2·91
		Aug.	29·747	0·790	83·7	39·0	44·7	72·1	52·1	20·0	61·0	57·0	·464	5·1	0·9	87	528	116·2	–	0·5	6	3	7	15	2·2	7·6	19	3·92
		Sept.	29·965	0·716	70·0	33·0	37·0	64·8	43·2	21·6	53·3	50·0	·360	4·1	0·5	88	540	105·7	–	0·4	10	6	5	9	1·1	6·2	5	1·05
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	July	29·644	1·079	82·0	42·0	40·0	72·2	50·5	21·7	59·7	54·3	·422	4·7	1·1	83	528	–	–	–	2	0	9	20	–	7·0	14	3·70
		Aug.	29·597	0·704	85·5	40·2	45·3	72·6	52·0	20·6	60·5	54·5	·425	4·7	1·2	81	526	–	–	–	5	2	9	15	–	6·5	19	3·34
		Sept.	29·783	0·601	71·4	33·8	37·6	62·7	43·6	19·1	51·8	46·5	·318	3·6	0·6	82	539	–	–	–	12	5	4	9	–	6·3	9	1·50
CARDINGTON (near Bedford), Mr. J. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	105	July	29·788	1·106	83·4	42·4	41·0	71·7	51·9	19·8	61·0	54·5	·425	4·8	1·1	80	529	111·2	46·4	1·7	2	0	5	24	–	6·9	17	3·35
		Aug.	29·749	0·720	83·6	39·0	44·6	71·6	53·2	18·4	61·2	55·9	·416	4·7	1·4	78	528	105·5	47·6	2·2	4	2	11	14	–	5·8	17	3·40
		Sept.	29·914	0·640	70·0	32·0	38·0	62·2	45·0	17·2	53·1	47·9	·332	3·8	0·9	81	540	90·6	37·4	1·6	12	6	2	10	–	5·8	9	1·70

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1877. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
CAMBRIDGE (Trinity College), J. W. L. Glaisher, Esq., M.A., F.R.S.	40	July	29·835	1·110	85·0	44·0	42·0	72·6	52·2	20·4	60·9	53·5	·410	4·6	1·4	77	535	135·5	47·3	1·6	4	1	10	16	–	6·2	17	2·41
		Aug.	29·790	0·706	80·0	41·6	38·4	72·5	53·7	18·8	61·3	53·6	·412	4·6	1·5	76	529	138·2	48·2	1·6	5	2	11	13	–	6·3	21	3·76
		Sept.	29·992	0·679	72·0	31·0	41·0	63·7	44·4	19·3	53·2	48·0	·335	3·8	0·8	82	541	120·8	39·1	1·5	11	7	5	7	–	6·0	12	1·85
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	50	July	29·828	1·068	85·8	41·8	44·0	71·1	51·7	19·4	60·1	54·7	·428	4·8	1·0	83	530	–	42·4	1·1	3	4	9	15	6·7	5·2	17	3·33
		Aug.	29·792	0·720	77·0	39·7	37·3	70·1	51·3	18·8	59·4	55·5	·441	4·9	0·8	87	530	–	–	1·0	5	5	10	11	7·6	6·1	16	2·54
		Sept.	29·986	0·678	70·2	35·0	35·2	62·8	45·6	17·2	53·3	50·3	·365	4·1	0·4	89	541	–	–	1·1	9	11	4	6	7·5	5·3	17	3·12
NORWICH (Norfolk), John Quinton, Esq., Jun.	42	July	29·826	1·062	85·5	45·0	40·5	70·5	54·7	15·8	61·0	54·6	·427	4·8	0·2	80	530	–	–	–	1	2	11	17	–	–	12	2·91
		Aug.	29·789	0·682	79·0	45·0	34·0	69·9	55·5	14·4	61·0	53·7	·413	4·6	1·4	77	529	–	–	–	3	7	11	10	–	–	17	4·27
		Sept.	29·990	0·662	68·5	40·0	28·5	60·9	47·7	13·2	53·5	48·9	·345	4·0	0·6	84	541	–	–	–	11	4	5	10	–	–	14	2·47
LEICESTER (Town Museum), W. J. Harrison, Esq., F.G.S.	245	July	29·615	1·144	77·7	44·4	33·3	67·0	52·2	14·8	58·8	51·6	·383	4·2	1·3	77	528	122·7	45·1	0·9	3	1	8	19	–	8·0	18	2·66
		Aug.	29·576	0·752	78·2	42·1	36·1	67·3	53·1	14·2	59·5	51·4	·380	4·3	1·4	75	527	122·5	47·4	0·8	4	3	11	13	–	7·4	16	2·55
		Sept.	29·978	0·707	65·0	35·4	29·6	59·7	45·3	14·4	52·0	44·9	·299	3·4	1·0	77	539	106·6	36·6	0·8	12	6	4	8	–	6·8	12	1·56
WISBECH (Cambridgeshire), S. H. Miller, Esq., F.R.A.S., F.M.S.	14	April	29·761	1·206	63·5	31·8	31·7	52·7	39·5	13·2	44·2	40·0	·248	2·8	0·5	85	547	97·2	35·2	0·7	10	11	6	3	4·3	6·1	14	3·59
		May	29·856	1·160	70·1	30·7	39·4	58·7	41·2	17·5	48·3	42·7	·274	3·2	0·7	81	544	102·9	36·0	0·6	13	6	7	5	3·4	6·9	16	1·82
		June	29·976	0·932	85·2	43·0	42·2	78·9	50·7	23·2	61·2	53·9	·416	4·7	1·4	78	532	124·4	44·9	0·9	6	5	12	7	3·7	4·8	9	1·54
		July	29·848	1·146	81·6	41·0	40·6	71·2	51·6	19·6	60·3	–	–	–	–	–	–	121·6	47·3	0·6	1	2	13	15	2·9	6·5	16	2·57
		Aug.	29·802	0·750	80·1	40·0	40·1	71·3	54·0	17·3	61·1	57·0	·466	5·2	0·9	87	529	121·6	43·5	0·6	5	6	9	11	3·1	6·3	15	3·07
		Sept.	30·035	0·658	70·0	35·0	35·0	62·3	44·9	17·4	52·8	49·6	·356	4·0	0·5	90	542	106·5	40·3	0·5	12	6	2	11	2·1	6·3	14	1·44
NOTTINGHAM, M.O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	183	July	29·654	1·190	78·6	40·6	38·0	70·1	50·8	19·3	58·7	52·0	·389	4·3	1·2	79	529	120·1	48·6	0·4	3	1	10	17	2·3	7·3	19	2·37
		Aug.	29·625	0·717	80·9	38·8	42·1	70·7	52·3	18·4	59·6	53·2	·406	4·5	1·2	80	527	115·5	50·3	0·4	4	8	10	9	2·3	6·8	24	3·97
		Sept.	29·849	0·642	71·5	33·2	38·3	61·5	44·0	17·5	51·6	46·4	·316	3·5	0·8	82	540	99·3	41·7	0·4	12	9	4	5	1·2	6·1	17	2·04
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	100	July	29·749	1·272	74·1	47·0	27·1	66·3	54·3	12·0	58·4	53·3	·407	4·5	0·9	85	531	–	–	0·7	4	1	2	24	–	8·2	19	5·28
		Aug.	29·709	0·860	74·4	47·0	27·4	66·1	54·3	11·8	58·9	52·6	·398	4·4	1·2	80	530	–	–	0·7	5	6	7	13	–	6·4	22	5·77
		Sept.	29·957	0·822	68·9	42·5	26·4	60·0	49·1	10·9	54·2	47·9	·332	3·8	1·0	79	540	–	–	0·7	6	9	5	10	–	7·1	15	4·30
KELSTERN GRANGE, near Louth (Lincolnshire), D. Grant Briggs, Esq., F.M.S.	393	July	29·438	1·191	78·1	41·1	37·0	66·9	50·3	16·6	57·2	52·6	·397	4·4	0·8	85	527	124·5	45·6	0·7	4	2	11	14	7·2	6·8	16	2·68
		Aug.	29·410	0·750	74·7	38·0	36·7	63·0	51·1	14·9	57·3	53·5	·410	4·6	0·7	87	528	117·0	43·2	0·9	5	4	10	12	8·4	6·4	18	4·11
		Sept.	29·630	0·744	67·2	37·1	30·1	58·8	43·5	15·3	50·3	46·4	·316	3·6	0·7	87	538	113·3	38·1	0·6	10	7	6	7	7·0	5·2	16	4·97
LIVERPOOL OBSERVATORY, John Hartnup, Esq., F.R.A.S.	197	July	29·635	1·296	70·0	43·8	26·2	63·3	53·8	9·5	57·2	50·3	·365	4·1	1·2	77	530	–	–	1·4	3	1	7	20	–	6·9	17	4·53
		Aug.	29·597	0·849	74·5	48·2	23·3	64·7	54·2	10·5	58·0	52·3	·393	4·4	1·0	81	529	–	–	1·3	5	7	6	13	–	7·7	20	4·87
		Sept.	29·844	0·820	63·8	42·0	21·8	58·4	48·5	9·9	52·6	46·8	·321	3·6	0·9	81	539	–	–	–	–	–	–	–	–	5·7	14	3·04
ECCLES (near Manchester), T. Mackereth, Esq., F.M.S., F.R.A.S.	145	July	29·698	1·188	75·5	42·0	33·5	65·9	49·7	16·2	56·8	51·4	·379	4·2	0·9	82	532	80·0	43·1	0·2	9	0	6	16	1·3	8·6	22	5·52
		Aug.	29·664	0·798	77·1	40·1	37·0	66·9	50·6	16·3	57·9	50·6	·369	4·4	1·0	81	530	81·4	43·3	0·1	7	3	10	11	1·4	7·6	25	4·88
		Sept.	29·900	0·840	67·8	31·3	35·5	61·0	42·5	18·5	51·4	44·8	·297	3·4	0·9	78	542	72·7	34·9	0·2	11	9	4	6	1·2	5·7	14	2·41
BERMERSIDE OBSERVATORY, HALIFAX (Yorkshire), E. J. Crossley, Esq., F.R.A.S.	520	July	29·267	1·226	71·0	41·4	29·6	65·5	49·4	16·1	55·6	49·6	·357	4·0	1·0	81	526	106·8	46·5	0·7	2	2	12	15	–	7·6	12	3·15
		Aug.	29·234	0·712	76·8	41·9	34·9	66·0	50·7	15·3	56·3	50·7	·371	4·2	0·9	82	524	104·8	48·6	0·7	4	7	10	10	–	7·0	20	4·12
		Sept.	29·504	0·730	66·0	36·3	29·7	58·5	43·8	14·7	50·0	44·8	·298	3·4	0·7	83	536	96·8	39·9	0·4	6	11	6	7	–	6·2	11	4·23
HULL (Yorkshire), Mr. E. Peak.	12	July	29·821	1·204	76·0	43·0	33·0	69·2	53·0	16·2	59·5	53·9	·416	4·7	1·1	83	531	99·6	49·9	–	–	–	–	–	1·0	–	15	2·61
		Aug.	29·798	0·748	74·0	42·0	32·0	66·1	53·5	12·6	58·6	54·8	·431	4·8	0·7	88	532	88·7	51·0	–	–	–	–	–	1·8	–	23	4·90
		Sept.	30·025	0·772	67·0	33·0	34·0	59·1	45·1	14·0	51·7	47·3	·327	3·7	0·7	85	543	82·0	41·4	–	–	–	–	–	2·8	–	16	4·46
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.S., F.M.S., F.R.A.S.	363	July	29·445	1·277	72·0	40·2	31·8	65·5	49·3	16·2	55·9	51·4	·383	4·3	0·7	87	528	114·0	49·4	1·6	0	0	13	18	–	9·1	22	4·96
		Aug.	29·417	0·809	74·1	41·3	32·8	65·8	51·3	14·5	57·3	52·2	·391	4·4	0·9	83	526	115·8	50·2	1·2	5	5	10	11	–	8·9	24	6·66
		Sept.	29·681	0·888	68·2	33·9	34·3	60·3	44·1	16·2	51·4	45·1	·302	3·4	0·9	79	538	112·1	41·6	1·0	10	5	6	9	–	6·3	16	4·48

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1877. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
LEEDS (Philosophical Hall) (Yorkshire), H. Crowther, Esq.	137	July	29·681	0·998	75·0	38·0	37·0	67·2	51·1	16·1	57·9	48·6	·342	3·8	1·5	70	530	76·1	–	1·6	3	3	11	14	–	5·3	16	3·55
		Aug.	29·654	0·868	75·0	45·0	30·0	69·5	52·5	17·0	59·2	51·1	·375	4·2	1·4	75	529	78·9	–	1·5	2	7	10	12	–	4·8	20	4·08
		Sept.	29·893	0·814	75·0	39·0	36·0	65·7	45·6	20·1	53·6	46·1	·311	3·5	1·1	76	539	74·4	–	1·7	7	5	6	12	–	4·7	9	3·94
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	366	July	29·451	1·262	74·0	44·4	29·6	65·5	52·6	12·9	57·5	48·7	·344	3·8	1·9	73	527	82·8	–	1·1	3	2	6	20	–	7·1	20	3·56
		Aug.	29·430	0·837	74·0	44·8	29·2	66·6	53·3	13·3	58·5	51·8	·336	4·3	1·2	78	525	83·7	–	0·8	4	9	8	10	–	6·5	23	4·44
		Sept.	29·666	0·750	63·8	39·9	23·9	58·3	46·3	12·0	51·4	44·7	·297	3·4	0·8	78	537	73·3	–	0·9	9	6	3	12	–	7·0	13	3·26
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.R.A.S., F.M.S.	146	July	29·624	1·184	71·1	40·2	30·9	63·0	52·6	10·4	56·4	51·0	·375	4·2	0·9	82	531	104·7	46·4	0·5	3	2	11	15	2·3	7·9	25	4·92
		Aug.	29·623	0·814	75·3	40·9	34·4	65·0	52·6	12·4	57·5	51·4	·380	4·2	1·1	80	530	104·8	46·0	0·3	5	5	6	15	1·7	7·3	20	6·23
		Sept.	29·887	0·952	69·5	31·5	38·0	60·6	44·4	16·2	51·8	45·2	·303	3·4	0·9	78	541	96·5	35·1	0·4	9	7	3	11	1·8	5·6	9	3·20
ALLENHEADS (Northumberland), Mr. T. Kidd, Assistant to W. B. Beaumont, Esq., M.P.	1360	July	28·408	0·931	–	37·0	–	–	47·8	–	–	–	–	–	–	–	–	114·3	–	1·7	2	3	5	21	–	7·2	24	5·51
		Aug.	28·371	0·794	–	37·7	–	–	47·9	–	–	–	–	–	–	–	–	111·7	–	1·2	5	4	9	13	–	7·1	29	10·35
		Sept.	28·602	0·885	–	33·2	–	–	41·0	–	–	–	–	–	–	–	–	97·5	–	1·3	10	8	7	6	–	6·6	16	2·18
SILLOTH RECTORY (Cumberland), Rev. Francis Redford, M.A., F.R.A.S., F.M.S.	28	July	29·759	1·142	73·5	40·1	33·4	68·4	55·0	13·4	59·4	51·8	·387	4·3	1·3	76	530	97·2	48·4	1·0	2	4	9	16	8·6	6·5	23	4·91
		Aug.	29·734	1·116	78·1	41·8	36·3	68·6	51·3	17·3	58·2	52·1	·390	4·4	1·1	80	531	99·5	46·7	0·7	5	10	10	6	8·6	6·1	20	6·65
		Sept.	30·010	0·999	71·1	34·3	36·8	63·7	43·7	20·0	52·8	44·0	·288	3·3	1·2	72	542	101·8	40·5	0·8	6	9	3	12	7·2	4·0	8	2·05
CARLISLE (Cumberland), Isaac Cartmell, Esq., F.M.S.	114	July	29·683	1·150	71·5	35·3	36·2	65·0	49·4	15·6	56·0	50·6	·370	4·2	0·8	82	532	97·0	45·8	2·5	1	2	13	15	6·4	7·9	24	5·88
		Aug.	29·664	0·816	73·8	39·0	34·8	64·8	49·2	15·6	56·0	51·2	·378	4·3	0·7	84	532	93·2	45·0	1·5	6	7	6	12	4·0	7·7	24	7·39
		Sept.	29·938	0·936	69·9	31·5	38·4	60·3	40·9	19·4	50·5	43·9	·288	3·3	0·8	79	543	93·6	36·3	1·6	11	6	3	10	4·2	5·8	11	2·23
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	July	29·652	1·160	74·0	45·0	29·0	64·4	54·8	9·6	58·5	49·9	·360	4·0	1·5	73	529	94·4	49·2	1·5	6	3	5	17	–	4·9	22	3·65
		Aug.	29·626	0·876	72·0	43·0	29·0	62·9	53·2	9·7	56·8	51·8	·385	4·3	0·9	83	530	82·9	47·6	1·1	3	11	4	13	–	6·6	28	7·71
		Sept.	29·900	0·902	67·0	40·0	27·0	61·1	47·0	14·1	52·1	46·7	·319	3·6	0·8	82	541	77·3	41·2	1·1	7	9	3	11	–	4·6	14	1·33
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	July	29·718	0·933	73·0	42·0	31·0	63·9	51·6	12·3	56·1	48·1	·338	3·8	1·2	74	533	–	48·7	1·5	6	1	7	17	–	6·5	15	2·45
		Aug.	29·703	0·738	68·0	42·0	26·0	62·7	50·6	12·1	55·7	51·6	·383	4·3	0·7	87	533	–	–	1·6	4	9	5	13	–	7·2	27	6·32
		Sept.	29·961	0·960	62·0	39·5	22·5	56·1	46·1	10·0	50·2	45·1	·300	3·4	0·7	83	544	–	45·3	1·4	13	5	4	8	–	5·6	15	1·76
MILLTOWN, Banbridge (Ireland), John P. Smyth, Esq., Jun., M.A., M.I.C.E.I., F.G.S.	200	July	29·582	1·064	70·0	39·0	31·0	63·1	51·0	12·1	55·7	49·3	·353	3·9	1·1	80	531	121·7	48·0	2·1	4	0	14	13	–	6·7	24	4·76
		Aug.	29·563	0·862	71·0	40·0	31·0	63·5	50·5	13·0	55·8	50·4	·367	4·1	0·9	83	530	118·8	47·1	1·5	9	7	8	7	–	6·2	23	3·42
		Sept.	29·834	1·024	63·0	33·0	30·0	58·5	43·6	14·9	50·9	44·6	·295	3·4	0·8	80	541	115·4	38·7	1·6	11	4	6	9	–	3·9	11	2·05

NOTE.—*The Barometer Reading*, Bradford, 16th July, 3h. p.m., 29·940 in., has been altered to 28·940 in.
" " Wisbech, 26th Aug., 9h. a.m., 29·005 in., " 29·505 in.
" " Bradford, 18th Sept., 3h. p.m., 29·460 in., " 29·960 in.
" " Bywell, 24th Sept., 3h. p.m., 29·056 in., " 30·056 in.

Wisbech.—The mean reading of the *wet bulb* thermometer for the month of July at 3h. p.m., when corrected for diurnal range is higher than that of the dry bulb, and therefore cannot be used in deducing hygrometrical results.

Second Rain-gauges are placed—

	July	August.	September.	Total during the Quarter.
At Strathfield Turgiss, at the height of 38 feet *above the ground*, the amount collected was	2·06 inches.	1·45 inches.	0·87 inches.	4·38 inches.
" Oxford, " 22 feet " "	3·28 "	3·39 "	2·30 "	8·97 "
" Cardington, " 36 feet " "	2·75 "	3·00 "	1·00 "	6·75 "
" Wisbech, " 8 feet " "	2·51 "	3·04 "	1·38 "	6·93 "
" Nottingham, " 39 feet " "	2·20 "	3·51 "	1·99 "	7·70 "
" Eccles, " 34 feet " "	4·53 "	4·29 "	2·13 "	10·95 "
" Milltown (Ireland), " 40 feet " "	4·52 "	3·10 "	– "	– "

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·549	79·5	47·0	32·5	64·3	51·9	24·5	9·4	58·0	55·0	·436	4·8	0·6	90	532			1·3	7	5	8	11	3·9	4·5	38	1·73
Helston	29·621	80·0	38·0	42·0	68·9	51·6	35·0	17·3	58·9	51·3	·379	4·3	1·3	77	533	80·3	47·0	2·2	8	4	9	9	4·5	4·7	43	1·93
Truro	29·556	78·0	33·0	45·0	66·5	51·3	33·3	15·2	56·9	52·9	·402	4·5	0·7	89	535	—	—	2·6	8	6	7	10	—	6·6	47	1·97
Plymouth	29·646	75·0	39·0	36·0	65·6	52·4	29·7	13·2	57·9	53·1	·406	4·6	0·9	85	535	—	51·4	1·4	7	5	8	11	—	6·3	45	1·97
Torquay	29·605	77·9	40·0	37·9	64·7	51·7	31·0	13·0	57·0	50·7	·372	4·2	1·0	80	531	128·9	45·9	1·2	6	5	6	13	4·2	6·4	33	1·46
Ventnor	29·611	78·0	41·1	36·9	68·0	54·7	28·8	13·8	59·7	53·2	·408	4·6	1·2	79	533	—	—	—	4	4	6	17	6·5	4·8	33	1·41
Osborne	29·521	85·4	36·9	49·5	68·6	51·1	38·3	17·5	58·8	55·7	·446	5·0	0·6	90	528	117·6	48·4	0·3	7	3	10	11	—	5·9	30	1·40
Brighton	29·599	74·8	38·0	36·8	66·6	52·4	29·1	14·2	58·7	50·5	·369	4·1	1·4	73	531	109·2	49·8	1·0	7	3	9	11	—	5·7	30	1·46
Salisbury	29·583	87·0	33·0	54·0	69·2	46·9	44·3	22·3	56·9	51·0	·376	4·2	1·0	81	533	113·0	45·0	1·4	6	2	4	19	—	6·3	33	1·26
Barnstaple	29·566	77·0	36·0	41·0	67·5	54·2	30·7	13·3	59·4	52·2	·392	4·4	1·3	77	533	—	—	1·3	5	4	10	12	—	3·8	45	2·10
Caterham	—	79·0	35·0	44·0	64·5	47·9	36·0	16·6	56·3	49·5	·356	4·0	1·1	78	526	—	46·2	2·7	7	4	6	14	—	4·4	44	2·16
Ramsgate	29·539	81·2	44·3	36·9	67·8	53·4	30·8	14·4	59·5	52·6	·400	4·5	1·3	79	531	116·6	49·1	1·6	6	4	8	13	—	6·0	42	1·96
Strathfield Turgiss	29·597	82·8	31·2	51·6	66·7	49·1	40·1	17·6	57·2	50·3	·366	4·5	1·1	78	533	117·6	44·6	0·6	5	4	5	17	2·9	5·9	31	1·26
Marlborough Green	29·575	82·5	33·1	49·4	65·8	48·9	38·5	16·9	56·3	50·1	·365	4·1	1·0	80	528	114·0	43·1	0·2	8	3	6	14	—	6·3	45	1·71
Blackheath	29·570	86·8	35·0	51·8	68·2	51·9	40·4	16·4	58·7	51·0	·376	4·2	1·4	76	531	115·4	48·1	1·0	7	2	8	14	—	6·0	40	0·71
Streatley Vicarage	29·581	86·5	30·9	55·6	69·0	50·5	41·9	18·5	58·5	51·8	·387	4·3	1·2	79	532	—	—	1·9	7	3	6	15	—	5·9	42	2·27
Chiswick	29·554	87·0	28·0	59·0	69·1	48·7	46·7	20·4	57·7	51·1	·377	4·2	1·2	79	535	119·2	44·4	1·2	4	3	7	17	—	6·7	32	2·30
Camden Square	29·582	87·1	36·1	51·0	69·5	51·4	40·4	18·1	59·2	50·4	·368	4·1	1·6	73	532	117·6	47·9	—	7	1	7	15	—	5·5	41	2·37
Oxford	29·557	82·0	33·8	48·2	69·4	50·4	37·4	19·0	58·9	51·8	·387	4·3	1·3	77	530	115·1	47·1	0·7	6	3	9	13	3·9	7·6	53	1·98
Gloucester	29·536	83·7	33·0	50·7	69·7	48·9	41·1	20·8	58·2	54·2	·423	4·7	0·7	87	533	116·1	—	0·4	8	3	5	14	1·5	6·9	38	2·34
Royston	29·578	85·5	33·8	51·7	69·2	48·7	41·0	20·5	57·3	51·8	·388	4·3	1·0	82	531	—	—	—	7	2	7	15	—	6·6	42	2·40
Cardington	29·539	83·6	32·0	51·6	68·5	50·0	41·2	18·5	58·4	52·1	·391	4·4	1·1	80	532	102·4	43·8	1·8	6	3	5	16	—	6·2	45	2·62
Cambridge	29·530	86·0	31·0	55·0	69·6	50·1	40·5	19·5	58·5	51·7	·386	4·3	1·2	78	535	131·5	41·5	1·6	7	3	9	12	—	6·2	50	2·29
Somerleyton	29·513	85·8	35·0	50·8	68·0	49·5	38·8	18·5	57·6	53·5	·411	4·6	0·7	86	537	—	—	1·1	6	7	8	10	7·3	5·5	50	2·49
Norwich	29·517	85·5	40·0	45·5	67·1	52·6	34·3	14·5	58·5	52·4	·395	4·5	0·7	80	533	—	—	—	5	4	9	12	—	—	45	2·77
Leicester	29·569	78·2	35·4	42·8	64·7	50·2	33·0	14·5	56·8	49·3	·354	4·0	1·2	76	531	117·3	43·0	0·8	6	3	8	13	—	7·4	46	1·98
Wisbech	—	81·6	35·0	46·6	68·3	50·2	38·6	18·1	58·1	—	—	—	—	—	—	116·6	45·7	0·6	6	5	8	12	2·7	6·4	45	2·09
Nottingham	29·544	80·9	33·2	47·7	67·4	49·0	39·5	18·4	56·6	50·5	·370	4·1	1·1	80	532	111·6	46·9	0·4	6	6	8	10	1·9	6·7	60	1·56
Llandudno	29·534	74·4	42·5	31·9	64·1	52·6	27·0	11·5	57·2	51·3	·379	4·2	1·0	81	534	—	—	0·7	5	5	5	16	—	7·2	56	1·77
Kelstern Grange	29·531	78·1	37·1	41·0	63·9	48·3	34·6	15·6	54·9	50·8	·374	4·2	0·7	86	531	118·3	44·0	0·7	6	4	9	11	7·5	6·1	50	1·97
Liverpool	29·545	74·5	42·0	32·5	62·1	52·2	24·8	9·9	55·9	49·8	·360	4·0	1·0	80	533	—	—	—	—	—	—	—	—	6·8	51	2·44
Eccles	29·562	77·1	31·3	45·8	64·6	47·6	35·7	17·0	55·4	48·9	·348	4·0	0·9	80	535	78·0	40·4	0·2	9	4	7	11	1·3	7·3	61	2·56
Bermerside, Halifax	29·355	76·8	36·3	40·5	63·3	48·0	31·4	15·3	54·0	48·4	·342	3·9	0·9	82	529	102·8	45·0	0·6	4	7	9	11	—	6·9	45	1·76
Hull	29·504	76·0	33·0	43·0	64·8	50·5	33·0	14·3	56·6	52·0	·391	4·4	0·8	85	535	90·1	47·4	—	—	—	—	—	1·9	—	54	1·76
Stonyhurst	29·546	74·1	33·9	40·2	63·9	48·2	33·0	15·7	54·9	49·6	·359	4·0	0·8	83	531	114·0	47·1	1·3	5	3	10	13	—	8·1	62	2·10
Leeds	29·548	75·0	38·0	37·0	67·5	49·7	34·3	17·7	56·9	48·6	·343	3·8	1·3	74	535	76·5	—	1·6	4	5	9	13	—	4·9	45	1·26
Bradford	29·544	74·0	39·9	34·1	63·5	50·7	27·5	12·7	55·8	48·4	·342	3·8	1·3	76	530	79·9	—	0·9	5	6	6	14	—	6·9	56	1·46
Cockermouth	29·518	75·3	31·5	43·8	62·9	49·9	54·4	13·0	55·2	49·2	·353	3·9	1·0	80	534	102·0	42·5	0·4	6	5	7	13	1·9	6·9	54	1·96
Allenheads	—	—	33·2	—	—	45·6	—	—	—	—	—	—	—	—	—	107·8	—	1·4	6	5	7	13	—	7·0	69	3·94
Silloth	29·509	78·1	34·3	43·8	66·9	50·0	35·5	16·9	56·8	49·3	·355	4·0	1·2	76	534	99·5	45·2	0·8	4	8	7	11	8·1	5·5	51	1·60
Carlisle	29·540	73·8	31·5	42·3	63·4	46·5	33·5	16·9	54·2	48·6	·345	3·9	0·8	82	536	94·6	42·4	1·9	6	5	7	12	4·9	7·1	59	1·60
Bywell	29·466	74·0	40·0	34·0	64·8	51·7	28·3	11·1	55·8	49·5	·355	4·0	1·1	79	533	84·9	46·0	1·2	5	8	4	14	—	5·4	64	1·95
North Shields	—	73·0	39·5	33·5	60·9	49·4	26·5	11·5	54·0	48·3	·340	3·8	0·9	81	537	—	—	1·5	8	5	5	13	—	6·4	57	1·75
Milltown (Ireland)	—	71·0	33·0	38·0	61·7	48·4	30·7	13·3	54·1	48·1	·338	3·8	0·9	81	534	115·3	44·6	1·7	8	4	9	10	—	5·6	58	1·75

The highest temperatures of the air were at Camden Square, 87°·1; Salisbury and Chiswick, both 87°·0; and Blackheath, 86°·8.
The lowest temperatures of the air were at Chiswick, 28°·0; Streatley, 30°·9; Cambridge, 31°·0; and Strathfield Turgiss, 31°·2.
The greatest daily ranges of the temperatures of the air were at Salisbury, 22°·3; Gloucester, 20°·8; and Royston, 20°·5.
The least daily ranges of the temperatures of the air were at Guernsey, 9°·4; Liverpool, 9°·9; and Bywell, 11°·1.
The greatest number of rainy days were at Allenheads, 69; Bywell, 64; Stonyhurst, 62; and Eccles, 61.
The least number of rainy days were at Osborne and Brighton, both 30; Strathfield Turgiss, 31; Chiswick, 32; Torquay and Ventnor, both 33.
The heaviest falls of rain were at Allenheads, 18·04 inches; Stonyhurst, 16·10 inches; and Llandudno, 15·35 inches.
The least falls of rain were at Ramsgate, 5·25 inches; Strathfield Turgiss, 5·68 inches; and Ventnor, 6·19 inches.

QUARTERLY METEOROLOGICAL TABLE for different PARALLELS of LATITUDE.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·549	79·5	47·0	32·5	64·3	54·9	24·5	9·4	58·0	55·0	·436	4·8	0·6	90	532	—	—	1·3	7	5	8	11	3·9	4·5	38	1·73
Between 50° and 51°	29·593	79·2	38·0	41·2	67·1	52·1	33·0	15·0	58·2	52·8	·402	4·5	0·9	83	533	108·9	48·2	1·5	7	4	8	13	5·1	5·8	38	2·21
Between 51° and 52°	29·567	83·5	34·1	49·4	68·0	50·2	39·0	17·8	58·2	51·3	·381	4·3	1·2	79	531	116·1	46·2	1·2	6	3	7	15	2·8	5·9	41	2·24
Between 52° and 53°	29·541	83·4	34·4	49·0	67·7	50·0	38·4	17·7	57·7	51·6	·385	4·3	1·0	80	533	115·9	44·2	1·1	6	4	8	13	4·0	6·4	48	2·29
Between 53° and 54°	29·541	75·8	36·8	39·0	64·3	49·6	31·7	14·7	55·7	49·9	·362	4·1	0·9	81	533	96·6	44·8	0·9	6	5	8	12	3·6	6·8	53	1·94
Between 54° and 55°	29·519	75·0	35·4	39·6	63·9	49·8	32·4	14·1	55·6	49·0	·350	3·9	1·1	79	533	94·8	44·0	1·1	5	6	6	13	5·0	6·5	59	1·46
Mean for the Quarter, 50° to 55°: Year 1874	29·527	85·3	40·2	45·1	69·3	51·6	36·7	17·7	59·2	52·0	·389	4·4	1·3	78	529	108·8	46·2	1·2	4	4	9	14	3·6	5·6	47	2·09
" 1875	29·595	81·5	41·6	39·9	68·9	52·3	35·9	16·6	59·3	53·1	·405	4·5	1·2	80	531	101·8	48·1	1·2	6	8	7	10	3·5	5·9	45	2·45
" 1876	29·520	90·0	40·1	49·9	70·0	52·2	40·1	17·8	59·8	52·4	·396	4·4	1·4	77	530	110·8	47·4	1·1	6	5	7	13	4·1	5·3	43	2·36
" 1877	29·552	79·4	35·7	43·7	66·2	50·3	34·9	15·9	57·1	50·9	·376	4·2	1·0	80	533	106·4	45·5	1·2	6	4	7	13	4·1	6·3	48	10·36

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING DECEMBER 31, 1877.

REMARKS ON THE WEATHER DURING THE QUARTER ENDING DECEMBER 31ST, 1877.

By JAMES GLAISHER, ESQ., F.R.S., *&c.*

The month of October opened fine and dry, with a low temperature; on the 14th there was a severe gale, causing great destruction of property all over the country; the storm seems to have raged throughout Devonshire and Cornwall with great fury, and caused there a great deal of damage; there was but little rain at any station in England, and none at those stations in the Eastern Counties on this day, but there was a very heavy rainfall in Scotland. After this day to the end of the month the weather was generally fine. The month of November was for the most part cloudy, wet, and with very few bright days; the changes both of temperature and atmospheric pressure were rapid; on the 11th there was a very heavy gale of wind, and the barometer reading on this day was the lowest in the year. The month of December was very dark, and almost sunless, with fog and damp weather prevalent. Till the 9th of October the direction of the wind was mostly from the N. or E., or a compound of these winds; and from the 10th of October to the end of the year the wind was almost always from the W., S.W., or S.S.W., to a very unusual degree.

Till the 19th of October, with the exception of the 13th and 14th, the temperature daily was low; the defect for these 19 days was on the average $4\frac{1}{4}°$ daily. From October 20th to November 4th the weather was mostly warm, but occasionally it was cold; upon the average of these 15 days there was an excess of temperature of $2\frac{1}{4}°$ daily. On November 5th a considerable increase of warmth took place, and continued till the gale of the 11th day; the average daily excess of these seven days was $7\frac{1}{4}°$; on the 12th, immediately following the gale, a considerable depression of temperature took place, and from this day to December 28th the changes of temperature from warm to cold and vice versâ were frequent, the warm periods being somewhat longer than the cold; the average of the 47 days ending December 28th was $\frac{3}{4}°$ in excess of daily temperature. The year closed with the three finest and warmest days in the month, whose mean temperature was $8\frac{1}{4}°$ daily in excess of their average.

The readings of the barometer in the neighbourhood of London were above their averages from the 1st to the 21st (with the exception of two days, viz., 14th and 15th, which were 0·13 in. and 0·02 in. respectively below); they were below from the 22nd to the 27th, above on the 28th, below on the 29th and 30th, and 0·28 in. above on the last day. The mean reading for the month was 29·849 ins., being 0·151 in. above the average. During the first three days of November the barometer readings were above their averages; from the 4th to the 13th they were below, that for the 12th being no less than 0·95 in. in defect; they were above from the 15th to the 18th, and below from the 19th to the end of the month; the mean amount in defect of the average for these 12 days was 0·42 in. daily. The mean reading for the 29th was 28·75 ins., being 0·96 in. below the average. The mean reading for the month was 29·517 ins., being 0·233 ins. below the average. In December the readings of the barometer were alternately above and below their averages from the 1st to the 13th, they were all above their averages from the 14th to the 23rd, all below from the 24th to the 30th, and 0·11 in. above on the last day of the year. The mean reading for the month was 29·863 ins., being 0·072 in. above the average.

The highest and the lowest readings of the barometer in the year occurred during this quarter, viz., the highest reading in the year was 30·517 ins. on December 20th, and the lowest reading in the year was 28·549 in. on November 11th, thus giving a range of 1·968 in.

At Greenwich *the mean temperature* of October was below that of September by 4°·3; that of November was below that of October by 3°·1; and that of December was below that of November by 4°·7. (From the preceding 36 years' observations the *mean temperature* of October is lower than that of September by 7°·1; that of November is lower than that of October by 6°·6; and that of December is lower than that of November by 3°·4.)

The mean temperature of the air for October below that of September over the whole country was 3°·4; that of November below that of October was 3°·7; and that of December below that of November was 4°·1.

The mean temperature of the air for October was 48°·6, being 0°·5 and 1°·6 below the averages of the preceding 106 years, and 36 years respectively. It was 4°·2 lower than the value in 1876.

The mean temperature of the air for November was 45°·5, being 3°·2 and 1°·9 above the averages of the preceding 106 years, and 36 years respectively. It was higher than any value recorded back to 1863. In the preceding 106 years there have been 13 instances when the mean temperature of November was as high as in the present year, viz., 45°·5. In 1806 = 47°·4, 1817 = 46°·9, 1818 = 49°·2, 1821 = 47°·6, 1822 = 48°·2, 1824 = 46°·2, 1845 = 45°·8, 1846 = 46°·0, 1847 = 46°·9, 1850 = 46°·5, 1852 = 48°·9, 1857 = 45°·8, 1863 = 45°·7.

The mean temperature of the air for December was 40°·8, being 1°·7, and 0°·6 above the averages of the preceding 106 years, and 36 years respectively. It was 3°·3 lower than the value in 1876, and 2°·1 higher than that in 1875.

The mean temperature of the air for the quarter was 45°·0, being 1°·5 and 0°·3 above the averages of the preceding 106 years and 36 years respectively.

The mean high day temperatures of the air were 2°·9 and 0°·4 above their respective averages in November and December, but 0°·4 below in October.

The mean low night temperatures of the air for October was 3°·3 below the average; that for November was 1°·8 above the average; and that for December was the same as the average. Therefore the days and nights in October were cold, but generally warm in November and December.

The mean daily ranges of temperature were 2°·9, 1°·1, and 0°·6 above their respective averages in October, November, and December.

At Greenwich the atmospheric pressure in October was less than in September by 0·054 in., in November was less than in October by 0·332 in., and in December greater than in November by 0·346 in. (From the preceding 36 years' observations the mean pressure in October is less than in September by 0·104 in., in November greater than in October by 0·052 in., and in December greater than in November by 0·041 in.) The mean *decrease* of pressure from September to October south of latitude 51° was 0·025 in., between 51° and 52° was 0·042 in., from 52° to 53° was 0·058 in., between 53° and 54° was 0·130 in.; and north of 54° was 0·172 in. The decrease from October to November was somewhat smaller at southern stations than at northern; the mean of all was 0·355 in.; and the increase from November to December was from all stations 0·431 in.

The fall of rain in October was 1·7 in., being 1·1 in. below the average; in November it was 3·4 ins., being 1·1 in. above the average; and in December was 1·8 in., being 0·2 in. below the average. Back to 1818 there are but 11 instances of so large a fall of rain in November as in the present year, viz.:—In 1821, when it was 4·7 in.; in 1822=4·1 in.; 1824=4·3 in.; 1830=3·4 in.; 1839=4·4 in.; 1841=3·7 in.; 1842=4·2 in.; 1844=4·3 in.; 1852=6·0 in.; 1861=5·2 in.; and 1871=3·6 in. The fall of rain in the quarter was 6·9 ins., being 0·2 in. below the average. The fall of rain in November was generally greatly in excess, particularly at extreme southern stations. At Cockermouth the fall was 9·86 ins., being higher than at any other station; it was the wettest November there for 16 years, the fall not having been equalled in amount in any one month since October 1862. On November 12th, there was a flood greater than any since October 1874.

On November 11th, the day of the great gale, the fall of rain at Guernsey was 1·65 in.; at Truro, 1·05 in.; at Torquay, 1·25 in.; at Ventnor, 1·07 in.; at Weybridge, 1·58 in.; at Chiswick, 1·02 in.; at Marlborough, 1·65 in.; and at Gloucester 1·02 in.; on this day scarcely any rain fell either in the Midland or Eastern counties.

Thunderstorms occurred on the 15th and 16th of October at Stonyhurst, on the 22nd at Carlisle and Milltown, and on the 27th at Eccles; on the 9th of November at Helston, Truro, and Plymouth, on the 10th at Torquay, Osborne, Weybridge, Oxford, Royston, Cardington, and Cambridge, on the 12th at Silloth, on the 13th at Eccles and Llandudno, on the 19th at Eccles, on the 22nd at Halifax and Bradford, and on the 30th at Guernsey; on the 1st and 2nd of December at Helston, and on the 7th and 12th at Stonyhurst.

Thunder was heard but lightning was not seen on the 11th of October at Silloth and Carlisle, on the 20th at Silloth, and on the 27th at Cockermouth; on the 12th of November at Weybridge; and on the 14th of December at Stonyhurst.

Lightning was seen but thunder was not heard on 11th of October at Royston, Cardington, Cambridge, Carlisle, and North Shields, on the 15th at Torquay and Halifax, on the 16th at Torquay, Royston, and Liverpool, on the 22nd at Silloth, on the 27th at Halifax and Stonyhurst, and on the 28th at Stonyhurst; on the 9th of November at Torquay, Oxford, Cardington, Liverpool, Llandudno, Halifax, and Stonyhurst, on the 10th at Helston, Truro, Llandudno, Halifax, and Cockermouth, on the 11th and 12th at Llandudno, on the 13th at Guernsey, on the 21st at Guernsey and Truro, on the 22nd at Eccles, on the 23rd at Llandudno, Halifax, Stonyhurst, Leeds, and Cockermouth, on the 27th at Eccles and Carlisle, on the 28th at Torquay, Llandudno, and Carlisle, on the 29th at Guernsey and Torquay, and on the last day of the month at Weybridge. And on the 26th of December at Stonyhurst.

Solar halos were seen on the 6th of October at Oxford, Kelstern Grange, Halifax, and Carlisle, on the 11th at Torquay, on the 12th at Oxford and Halifax, and on the 17th at Torquay; on the 2nd of November at Carlisle, on the 3rd at Torquay, on the 7th at Torquay, Halifax, and Stonyhurst, on the 8th at Weybridge and Oxford, on the 17th, 18th, and 23rd at Torquay, on the 26th at Kelstern Grange, on the 27th at Oxford, and on the 28th at Torquay; on the 5th of December at Torquay, on the 7th at Torquay and Oxford, on the 13th at Oxford, on the 15th at Halifax, on the 25th at Oxford, on the 27th at Torquay, and on the 28th at Kelstern Grange.

Lunar halos were seen on the 18th of October at Helston and Torquay, on the 20th at Weybridge, Oxford, and Cambridge, on the 21st at Torquay and Carlisle, on the 21st at Torquay, on the 22nd at Weybridge, Oxford, and Cambridge, on the 23rd at Oxford, on the 24th at Cambridge, and on the 26th at Torquay and Oxford; on the 15th of November at Hull and Stonyhurst, on the 16th at Cockermouth, on the 17th at Torquay, Strathfield Turgiss, Weybridge, Oxford, Cambridge, Kelstern Grange, and Llandudno, on the 18th at Oxford and Stonyhurst, on the 19th at Oxford, on the 20th at Torquay and Stonyhurst, on the 21st at North Shields, on the 23rd at Strathfield Turgiss, and Weybridge, on the 24th at Oxford, on the 25th at Torquay and Kelstern Grange, and on the 26th at Torquay and Oxford; on the 15th of December at Oxford, Liverpool, and Stonyhurst, on the 16th at Torquay and Oxford, on the 18th and 19th at Liverpool, on the 20th at Bradford, on the 23rd at Oxford and Stonyhurst, on the 26th at Truro, and on the 28th at Weybridge.

Auroræ Borealis were seen, faintly, on the 10th and 28th of November at Torquay.

Snow fell on the 16th of October at Silloth and Carlisle. On the 10th of November at Oxford; on the 20th at Carlisle; on the 24th at Torquay and Osborne; and on the 28th at Bradford. On the 1st, 5th, and 6th of December at Llandudno; on the 7th at Bradford; on the 12th at Llandudno; on the 13th at Llandudno and Bradford; on the 14th at Llandudno; on the 24th at Oxford, Eccles, Bywell, and North Shields; on the 25th, 26th, 27th, and 28th generally between the latitudes of 51° and 54°.

1877. Months.	Temperature of Air. Mean.	Air. Diff. from average of 106 years.	Air. Diff. from average of 36 years.	Evaporation. Mean.	Evaporation. Diff. from average of 36 years.	Dew Point. Mean.	Dew Point. Diff. from average of 36 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 36 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 36 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 36 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.
Oct.	48·6	−0·5	−1·6	45·5	−2·7	42·1	−4·0	17·6	+2·9	52·0	0·269	−0·045	3·1	−0·6
Nov.	45·5	+3·2	+1·9	43·5	+2·1	41·2	+1·7	12·7	+1·1	47·6	0·260	+0·013	3·0	+0·2
Dec.	40·8	+1·7	+0·6	39·2	+0·5	37·1	+0·2	10·0	+0·6	41·4	0·221	0·000	2·6	0·0
Means	45·0	+1·5	+0·3	42·7	0·0	40·1	−0·7	13·4	+1·5	47·0	0·250	−0·011	2·9	−0·1

1877. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 36 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 36 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 36 years.	Rain. Amount.	Rain. Diff. from average of 62 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
Oct.	79	−8	29·849	+0·151	544	+ 5	1·7	−1·1	301	9	17	5	20·3	46·5
Nov.	86	−2	29·517	−0·233	541	− 7	3·4	+1·1	378	9	14	7	24·4	46·0
Dec.	87	−1	29·863	+0·072	552	+ 1	1·8	−0·2	301	14	14	3	24·0	41·8
Means	84	−4	29·743	−0·003	546	0	Sum 6·9	Sum −0·2	Mean 327	Sum 32	Sum 45	Sum 15	Lowest 20·3	Highest 46·5

NOTE.—In reading this table it will be borne in mind that the plus sign (+) signifies *above* the average, and that the minus sign (−) signifies *below* the average.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter were as follows:—

Direction of Wind.	October. Average.	October. 1877.	October. Departure from Average.	November. Average.	November. 1877.	November. Departure from Average.	December. Average.	December. 1877.	December. Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	2	0	−2	2½	3	+ ½	2	3	+1
N.	3	4	+1	3¾	1	−2¾	2¼	3	+ ¾
N.E.	2½	2	− ½	3½	1	−2½	2¼	2	− ¼
E.	1½	1	− ½	2	2	0	1¾	0	−1¾
S.E.	1½	3	+1½	2	0	−2	1¾	1	− ¾
S.	3½	4	+ ½	3½	6	+2½	3	3	0
S.W.	9	8	−1	7¾	13	+5¼	9¾	8	−1¾
W.	4½	8	+3½	2	4	+2	3¾	10	+6¼
Calm (nearly.)	3¼	1	−2¼	3¼	0	−3¼	4	1	−3

The plus sign (+) denotes excesses over averages; the largest numbers affected with this sign in the month of October are opposite to the S.E. and W., in November to the S. and S.W., and in the month of December to the W.

The minus sign (−) denotes defects below averages; the largest numbers affected with this sign in the month of October are opposite to the N.W., in November to the N. and N.E., and in December to the E. and S.W.

Hail fell on 9 days in October, 15 days in November, and on 12 days in December.

Fog prevailed on 17 days in October, 13 in November, and on 18 days in December, or on 48 days during the quarter.

Trees divested of leaves:—The Field Elm on the 2nd of November at Hull; on the 10th at Weybridge; and on the 15th at Guernsey. *The Wych Elm* on the 22nd of October at Oxford; on the 30th at Torquay; on the 5th of November at Oxford; and on the 6th at Hull. *The Oak* on the 3rd of November at Oxford; on the 15th at Guernsey; on the 16th at Hull; and on the 3rd of December at Torquay. *The Lime* on the 25th of October at Guernsey; on the 26th at Oxford; and on the 30th at Weybridge and Hull. *The Sycamore* on the 28th of October at Weybridge; on the 1st of November at Hull; and on the 15th at Guernsey. *The Horse chestnut* on the 14th of October at Oxford; on the 26th at Hull; on the 27th at Weybridge; and on the 30th at Guernsey. *The Common Poplar* on the 26th of October at Oxford; on the 30th at Torquay; and on the 6th of November at Hull. *The Occidental Plane* on the 17th of November at Hull. *The Oriental Plane* on the 12th of November at Hull. *The Hawthorn* on the 2nd of November at Weybridge; and on the 9th at Hull. *The Hazel* on the 9th of November at Hull. *The Walnut* on the 8th of November at Hull.

Acacia in blossom on the 25th of December at Helston.

Swallow departed on the 7th of October from Hull; on the 14th from Weybridge.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING DECEMBER 31ST, 1877.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the sixth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1877. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.M.S.	204	Oct.	29·840	1·350	65·0	38·5	27·5	58·2	49·5	8·7	53·4	48·8	·344	3·9	0·7	84	538	–	–	1·6	7	8	8	8	4·3	5·4	16	3·67
		Nov.	29·533	1·629	58·5	41·5	17·0	54·1	45·9	8·2	49·8	43·9	·288	3·3	0·8	81	537	–	–	2·0	4	3	11	12	5·0	6·8	26	7·85
		Dec.	29·866	1·408	55·5	35·0	20·5	50·2	42·0	8·2	46·3	42·9	·278	3·2	0·4	89	547	–	–	1·3	9	4	6	12	4·3	7·0	22	3·82
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	Oct.	29·944	1·315	69·0	36·0	33·0	64·1	47·4	16·7	54·0	48·1	·334	3·8	0·9	80	539	69·4	40·6	2·3	5	6	9	11	5·2	4·8	17	3·34
		Nov.	29·620	1·722	63·0	33·0	30·0	56·6	44·1	12·5	49·9	42·7	·275	3·1	1·0	76	538	61·0	39·3	2·2	5	2	11	12	6·6	5·6	22	6·32
		Dec.	29·972	1·418	58·0	31·0	27·0	52·8	39·7	13·1	46·3	41·0	·258	3·0	0·6	83	549	56·1	34·8	1·4	10	4	6	11	2·8	6·5	23	3·96
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	Oct.	29·991	1·364	68·0	32·0	36·0	60·5	45·2	15·3	52·2	46·8	·320	3·6	0·8	82	542	–	–	2·4	6	5	10	10	–	6·0	17	3·37
		Nov.	29·665	1·572	59·0	32·0	27·0	54·8	42·1	12·7	48·1	41·0	·256	2·9	0·5	76	541	–	–	2·6	3	2	11	14	–	7·1	27	7·09
		Dec.	30·015	1·320	54·0	29·0	25·0	50·6	39·2	11·4	45·4	40·3	·249	2·9	0·6	83	551	–	–	1·8	19	3	6	12	–	7·7	24	3·33
PLYMOUTH (Devon), John Merrifield, Esq., F.R.A.S., F.M.S., LL.D.	69	Oct.	30·039	1·412	65·2	31·5	33·7	58·6	44·6	14·0	51·3	46·6	·319	3·6	0·7	84	544	–	43·2	1·3	3	6	12	10	–	5·8	16	2·48
		Nov.	29·697	1·757	63·0	34·0	29·0	54·0	41·9	12·1	47·8	42·5	·270	3·1	0·5	83	542	–	40·6	1·7	3	4	11	12	–	6·6	24	6·50
		Dec.	30·085	1·412	54·0	30·5	23·5	49·0	37·5	11·5	43·4	40·3	·251	2·9	0·4	89	554	–	36·1	0·9	6	3	11	11	–	6·6	20	2·75
BABBACOMBE, Torquay (Devon), Edwin E. Glyde, Esq., F.M.S.	305	Oct.	29·708	1·447	65·3	31·3	34·0	58·3	44·8	13·5	51·2	44·9	·298	3·4	0·8	80	538	111·8	36·6	1·3	6	4	7	14	4·0	5·6	16	2·46
		Nov.	29·357	1·846	60·0	34·6	25·4	53·7	41·3	12·4	47·2	43·4	·281	3·2	0·5	87	536	94·7	34·6	1·5	1	0	10	19	5·3	6·1	25	7·54
		Dec.	29·749	1·362	53·9	30·9	23·0	48·1	38·1	10·0	42·9	39·4	·241	2·8	0·4	87	548	78·1	30·6	1·1	6	2	6	17	3·1	6·1	19	1·80
VENTNOR (Royal National Hospital for Consumption), Isle of Wight, Hartley Sagar, Esq.	100	Oct.	29·964	1·430	70·2	38·9	31·3	62·8	48·3	14·5	54·2	48·8	·345	3·9	0·8	82	540	–	–	–	6	7	7	11	7·3	4·5	15	2·68
		Nov.	29·643	1·624	64·0	33·5	30·5	56·5	45·5	11·0	50·2	46·3	·314	3·6	0·5	87	538	–	–	–	3	2	10	15	7·6	6·0	26	8·79
		Dec.	29·968	1·430	56·9	32·8	24·1	50·6	40·3	10·3	45·2	40·5	·251	2·9	0·6	83	550	–	–	–	8	4	3	16	6·5	6·4	14	2·04
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	Oct.	29·849	1·400	67·6	31·2	36·4	59·4	42·4	17·0	50·9	47·8	·334	3·7	0·5	90	541	96·3	39·2	0·2	7	6	7	11	–	5·5	15	2·76
		Nov.	29·528	1·584	59·1	31·6	27·5	53·0	40·3	12·7	47·0	44·3	·291	3·3	0·4	91	540	77·6	37·6	0·4	3	2	10	15	–	6·0	23	7·06
		Dec.	29·879	1·385	54·0	27·2	26·8	47·1	35·4	11·7	41·8	39·4	·242	2·8	0·3	92	552	58·1	32·6	0·1	6	2	7	16	–	6·4	16	2·02
SOUTH BOURNE, near Bournemouth, (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	128	Oct.	30·019	–	64·1	29·9	34·2	57·8	42·2	15·6	49·9	43·7	·286	3·3	0·8	80	546	–	–	–	9	5	4	13	–	2·9	12	2·31
		Nov.	29·590	1·750	60·1	31·3	28·8	51·9	40·6	11·3	46·3	42·9	·277	3·2	0·4	89	542	–	–	–	3	2	8	17	–	4·5	22	7·19
		Dec.	29·937	1·440	53·1	27·0	26·1	47·6	37·1	10·5	42·5	38·2	·239	2·7	0·4	88	553	–	–	–	9	2	3	17	–	4·5	12	1·58
BRIGHTON (Sussex), F. E. Sawyer, Esq., F.M.S.	206	Oct	29·827	1·475	61·8	32·9	28·9	57·1	44·1	13·0	50·6	43.7	·285	3·3	0·8	79	542	91·9	39·6	0·9	8	4	7	12	–	5·1	13	3·44
		Nov.	29·514	1·771	57·1	33·0	24·1	52·0	42·0	10·0	47·0	43·1	·278	3·2	0·5	87	539	80·6	36·8	1·3	4	2	9	15	–	6·3	24	6·43
		Dec.	29·836	1·456	53·0	28·3	24·7	46·1	36·5	9·6	41·3	37·9	·229	2·6	0·4	87	551	66·6	32·9	0·7	13	3	4	11	–	5·7	17	2·67
SALISBURY (Wilton House), T. Challis, Esq.	186	Oct.	29·833	1·426	66·0	22·0	44·0	59·8	36·3	23·5	47·7	42·0	·267	3·1	0·7	82	544	88·9	34·9	1·4	9	4	4	14	–	5·3	16	2·10
		Nov.	29·487	1·734	60·0	27·0	33·0	53·3	35·0	18·3	44·7	41·7	·263	3·0	0·4	89	542	76·1	33·7	1·4	7	3	5	15	–	6·6	24	7·76
		Dec.	29·865	1·408	56·0	23·0	33·0	46·9	30·4	16·5	39·5	36·0	·212	2·4	0·4	88	554	62·0	29·7	1·2	8	4	3	16	–	6·2	13	1·88
BARNSTAPLE (Devon), William Knile, Esq.	43	Oct.	29·974	1·400	73·0	32·0	41·0	60·0	46·5	13·5	52·5	46·7	·320	3·6	0·9	81	542	–	–	1·4	4	7	9	11	–	4·7	17	3·94
		Nov.	29·629	1·680	60·0	34·0	26·0	53·6	43·5	10·1	48·3	43·1	·278	3·2	0·6	82	540	–	–	1·3	4	1	13	12	–	4·3	25	8·77
		Dec.	30·019	1·300	54·0	32·0	22·0	49·5	40·0	9·5	45·0	40·7	·253	2·9	0·5	85	551	–	–	1·2	7	3	11	10	–	5·1	27	4·12

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1877. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
CATERHAM (Surrey), James Adam, Esq., M.D.	608	Oct.	29·352	1·400	63·0	30·0	33·0	55·2	41·1	14·1	48·8	43·0	·278	3·1	0·7	80	534	–	38·2	4·4	7	5	7	12	0·6	3·3	15	2·30
		Nov.	29·066	1·550	56·0	33·0	23·0	50·1	40·2	9·9	45·9	41·8	·265	3·0	0·5	86	531	–	37·6	4·7	4	1	11	14	0·3	3·6	21	5·88
		Dec.	29·353	1·330	51·0	25·0	26·0	45·5	33·7	11·8	40·2	36·8	·218	2·5	0·6	88	541	–	32·2	3·4	8	3	6	14	–	3·4	15	2·40
RAMSGATE (Kent), Rev. E. Douglas O'Gara, O.S.B.	108	Oct.	29·882	1·290	63·2	30·4	32·8	57·7	46·8	10·9	51·6	44·4	·292	3·3	1·0	76	541	93·1	36·8	1·6	6	4	7	14	–	5·9	14	2·19
		Nov.	29·591	1·583	58·9	32·5	26·4	52·7	41·4	11·3	47·5	38·4	·232	2·7	1·1	72	542	83·3	36·3	2·1	2	2	12	14	–	6·0	21	4·75
		Dec.	29·908	1·426	50·2	30·0	20·2	45·6	36·9	8·7	41·0	38·0	·229	2·6	0·4	89	554	66·6	32·6	1·3	5	4	9	13	–	6·6	16	2·72
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	Oct.	29·820	1·411	67·9	25·3	42·6	57·9	39·1	18·8	48·3	43·1	·278	3·2	0·6	83	544	98·5	33·3	0·6	3	5	9	14	1·7	6·5	13	1·65
		Nov.	29·494	1·641	57·4	30·4	27·0	52·3	37·9	14·4	45·1	41·0	·257	2·9	0·5	86	541	81·3	32·4	0·6	5	2	13	10	1·4	5·7	22	4·97
		Dec.	29·838	1·435	55·0	26·1	28·9	46·3	34·7	11·6	40·7	37·3	·223	2·6	0·3	88	553	67·5	28·7	0·4	6	4	7	14	0·9	6·5	17	1·70
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	Oct.	29·887	1·363	68·0	26 0	42·0	58·0	38·6	19·4	47·5	41·0	·257	3·0	0·8	79	546	83·3	34·1	0·7	6	7	12	6	0·6	4·9	14	2·01
		Nov.	29·550	1·675	58·3	28·5	29·8	51·4	38·6	12·8	45·0	41·4	·260	3·0	0·4	88	542	69·5	33·5	0·8	2	4	17	7	0·6	5·5	23	4·64
		Dec.	29·905	1·442	54·0	25·3	28·7	44·8	34·4	10·4	39·7	35·7	·209	2·4	0·5	86	555	50·2	29·5	0·7	4	7	13	7	0·4	5·7	18	1·49
MARLBOROUGH, The Green (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	474	Oct.	29·509	1·400	66·1	24·5	41·6	57·6	39·2	18·4	47·7	42·2	·269	3·0	0·7	82	539	94·4	31·0	0·3	7	5	8	11	–	4·9	15	2·49
		Nov.	29·157	1·731	57·4	31·2	26·2	51·5	38·1	13·4	44·3	41·5	·261	3·0	0·4	90	536	80·4	29·6	0·5	1	1	9	19	–	6·1	22	7·01
		Dec.	29·527	1·392	51·9	26·7	25·2	45·1	34·6	10·5	39·7	37·2	·222	2·6	0·3	91	548	62·8	26·3	0·2	4	0	5	22	–	6·5	19	2·39
BLACKHEATH (London), James Glaisher, Esq., F.R.S.	160	Oct.	29·845	1·432	69·0	29·0	40·0	57·8	41·4	16·4	49·2	43·0	·278	3·2	0·9	79	543	93·4	37·9	0·9	5	4	10	12	–	5·2	13	1·98
		Nov.	29·511	1·742	60·1	32·1	28·0	52·1	39·7	12·4	46·0	41·3	·261	3·0	0·6	85	541	77·5	35·7	1·0	3	2	13	12	–	5·9	20	3·60
		Dec.	29·864	1·452	54·6	28·3	26·3	45·9	35·9	10·0	41·3	37·5	·225	2·6	0·4	87	553	59·1	31·6	0·6	6	2	8	15	–	6·7	18	1·82
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.S., F.M.S.	150	Oct.	29·872	1·363	67·8	26·0	41·8	58·3	40·5	17·8	48·3	43·1	·278	3·2	0·7	83	545	–	–	1·5	10	4	6	11	–	6·4	17	1·58
		Nov.	29·513	1·633	60·0	29·5	30·5	51·3	35·7	15·6	45·2	–	–	–	–	–	–	–	–	1·4	5	3	9	13	–	5·2	19	4·66
		Dec.	29·870	1·430	53·0	28·0	25·0	46·4	35·7	10·7	41·5	38·1	·230	2·6	0·4	88	552	–	–	1·0	8	4	7	12	–	6·1	17	1·76
CHISWICK (Middlesex), J. K. L. M. Farquhar, Esq.	25	Oct.	29·978	1·416	69·0	25·0	44·0	59·0	37·4	21·6	47·8	43·6	·284	3·2	0·6	87	547	96·1	33·1	1·2	6	4	6	15	–	6·2	12	2·03
		Nov.	29·612	1·600	59·0	26·0	33·0	53·0	36·5	16·5	45·0	40·0	·247	2·8	0·6	83	544	81·9	31·4	1·0	3	2	11	14	–	6·1	19	3·87
		Dec.	29·969	1·418	56·0	23·0	33·0	47·6	33·7	13·9	41·2	37·1	·221	2·6	0·5	86	555	65·7	28·5	0·9	4	4	3	20	–	6·9	11	1·37
CAMDEN SQUARE (London), G. J. Symons, Esq., F.M.S.	123	Oct.	29·887	1·366	67·5	30·9	36·6	58·9	41·7	17·2	49·5	43·1	·279	3·2	0·9	79	544	85·9	37·7	–	11	1	6	13	–	5·3	16	1·97
		Nov.	29·544	1·568	59·1	31·2	27·9	52·3	39·6	12·7	46·0	41·7	·265	3·1	0·5	86	541	61·6	35·4	–	3	0	9	18	–	5·8	22	3·88
		Dec.	29·903	1·394	54·2	28·3	25·9	45·6	35·5	10·1	40·8	37·4	·223	2·6	0·4	88	554	49·9	31·2	–	7	2	4	18	–	5·8	17	1·51
OXFORD OBSERVATORY, Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	Oct.	29·783	1·421	66·3	28·9	37·4	56·6	41·3	15·3	49·1	43·1	·280	3·2	0·8	80	542	102·7	37·5	0·8	6	4	9	12	1·2	5·9	23	1·71
		Nov.	29·421	1·727	59·2	32·4	26·8	51·0	40·1	10·9	45·6	41·1	·259	2·9	0·5	85	539	89·3	36·2	0·9	1	1	15	13	2·0	6·7	24	3·87
		Dec.	29·820	1·303	54·6	28·1	25·9	46·1	36·4	9·7	41·2	37·6	·225	2·6	0·4	88	552	72·1	32·6	0·6	5	2	8	16	1·0	6·8	24	1·74
GLOUCESTER ASYLUM, E. Toller, Esq., M.D.	100	Oct.	29·917	1·440	71·0	23·5	47·5	58·9	39·5	19·4	48·9	46·6	·320	3·6	0·3	92	545	85·8	–	0·5	8	6	7	10	0·6	4·8	13	1·79
		Nov.	29·573	1·668	60·0	31·0	29·0	52·6	38·3	14·3	45·9	42·7	·274	3·1	0·5	89	542	75·1	–	0·3	4	2	7	17	0·3	5·5	23	3·01
		Dec.	29·932	1·374	59·0	25·0	34·0	48·8	34·9	13·9	41·8	39·6	·245	2·9	0·2	92	553	63·4	–	0·3	6	3	4	18	0·5	6·8	14	1·59
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	Oct.	29·754	1·394	68·8	28·5	40·3	58·0	39·5	18·5	48·3	43·1	·279	3·2	0·7	82	542	–	–	–	5	7	9	10	–	6·0	13	0·87
		Nov.	29·355	1·671	59·3	30·4	28·9	51·5	37·5	14·0	44·4	40·9	·257	2·9	0·5	88	539	–	–	–	2	0	15	13	–	5·2	22	3·12
		Dec.	29·746	1·404	52·0	26·2	25·8	45·3	33·5	11·8	39·6	36·6	·217	2·5	0·3	90	552	–	–	–	4	2	10	15	–	6·2	20	1·79
CARDINGTON (near Bedford), Mr. J. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	105	Oct.	29·886	1·404	68·0	27·0	41·0	56·6	39·2	17·4	47·7	43·7	·285	3·2	0·6	88	545	69·6	34·1	2·1	4	6	8	13	–	6·0	15	1·60
		Nov.	29·557	1·642	59·0	28·4	30·6	50·7	37·1	13·6	44·2	40·7	·254	2·9	0·4	87	543	55·9	32·4	1·3	1	1	12	16	–	6·1	15	3·10
		Dec.	29·908	1·440	52·6	26·0	26·6	45·2	33·8	11·4	39·8	37·0	·221	2·6	0·3	90	555	47·5	29·0	1·0	6	2	7	16	–	6·3	13	1·60
CAMBRIDGE (Trinity College), J. W. L. Glaisher, Esq., M.A., F.R.S.	40	Oct.	29·936	1·422	69·4	29·0	40·4	58·6	40·6	18·0	49·0	44·2	·291	3·3	0·7	84	545	99·8	33·4	1·5	6	4	10	11	–	5·9	15	1·05
		Nov.	29·604	1·640	59·6	30·2	29·4	52·1	39·8	12·3	45·4	40·7	·253	2·9	0·5	85	543	85·0	32·4	1·1	1	2	15	12	–	5·7	21	2·90
		Dec.	29·952	1·447	53·0	25·8	27·2	44·8	35·4	9·4	40·5	37·1	·220	2·5	0·4	88	555	64·3	29·1	0·9	6	1	11	13	–	7·0	22	1·69

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1877. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	50	Oct.	29·937	1·360	65·7	24·8	40·9	57·4	40·9	16·5	48·8	45·9	·310	3·4	0·4	90	545	—	—	1·2	6	6	8	11	7·6	4·7	14	1·64
		Nov.	29·620	1·562	59·8	27·8	32·0	51·4	37·6	13·8	43·9	41·9	·266	3·1	0·2	93	545	—	—	1·1	3	1	12	14	7·4	4·9	22	3·55
		Dec.	29·940	1·450	52·5	25·8	26·7	44·2	33·9	10·3	39·9	38·5	·234	2·8	0·1	95	555	—	—	1·1	4	4	11	12	6·8	7·0	19	2·65
NORWICH (Norfolk), John Quinton, Esq., Jun.	42	Oct.	29·933	1·418	66·0	29·5	36·5	56·0	43·5	12·5	49·2	46·9	·312	3·6	0·4	90	545	—	—	—	6	4	11	10	—	—	13	1·81
		Nov.	29·617	1·548	58·5	32·0	26·5	50·7	41·3	9·4	45·9	44·0	·287	3·3	0·2	94	543	—	—	—	2	2	17	9	—	—	18	2·46
		Dec.	29·943	1·512	52·0	27·5	24·5	44·2	36·6	7·6	40·3	39·7	·244	2·9	0·1	97	555	—	—	—	5	3	10	13	—	—	16	2·25
LEICESTER (Town Museum), W. J. Harrison, Esq., F.G.S.	245	Oct.	29·712	1·373	68·0	32·0	36·0	58·2	40·9	17·3	48·5	41·6	·263	3·0	0·9	78	541	90·6	30·9	1·3	4	4	8	15	—	6·5	13	1·30
		Nov.	29·366	1·782	57·9	32·0	25·9	50·8	39·4	11·4	44·9	39·7	·245	2·8	0·5	83	539	76·6	30·2	1·4	3	1	12	14	—	5·8	20	2·47
		Dec.	29·722	1·447	52·3	26·9	25·4	45·0	35·6	9·4	40·4	36·8	·219	2·5	0·4	88	551	59·3	28·4	1·1	5	3	6	17	—	6·9	17	1·74
WISBECH (Cambridgeshire), S. H. Miller, Esq., F.R.A.S., F.M.S.	14	Nov.	29·631	1·514	57·0	30·0	27·0	50·1	38·4	11·7	43·9	40·7	·254	2·9	0·4	88	545	73·5	32·9	0·7	1	3	17	9	3·8	5·2	17	2·37
		Dec.	29·960	1·432	51·5	24·0	27·5	44·0	33·8	10·2	39·5	37·0	·221	2·6	0·3	91	556	61·9	29·3	0·5	4	3	11	13	1·8	6·3	14	1·88
NOTTINGHAM, M.O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	183	Oct.	29·759	1·360	69·0	29·0	40·0	56·7	40·0	16·7	47·2	43·4	·282	3·2	0·5	88	544	85·4	36·5	0·3	3	7	11	10	1·6	7·4	23	1·76
		Nov.	29·411	1·794	59·1	28·0	31·1	50·9	36·3	14·6	43·5	40·9	·256	2·9	0·3	90	541	69·0	33·5	0·5	1	2	15	12	2·3	6·4	25	2·47
		Dec.	29·759	1·456	51·9	24·0	27·9	45·3	33·9	11·4	39·9	37·8	·226	2·7	0·2	92	552	55·3	31·1	0·3	5	2	11	13	1·5	6·5	22	1·87
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	39	April	29·727	1·134	63·7	—	—	50·8	—	—	44·4	39·2	·240	2·8	0·6	82	546	105·2	33·6	1·8	9	9	8	4	—	7·9	17	2·63
		May	29·798	1·216	65·6	—	—	55·5	—	—	48·2	42·8	·275	3·2	0·7	82	543	114·6	34·6	1·5	13	6	5	7	—	6·7	15	1·22
		June	29·929	0·890	81·2	—	—	68·8	—	—	58·6	51·0	·375	4·2	1·3	76	534	141·7	42·4	2·0	5	8	9	8	—	5·0	9	1·03
		July	29·804	1·048	80·0	41·8	38·2	70·0	—	—	60·8	53·4	·408	4·6	1·4	77	529	132·8	44·8	1·8	2	0	14	15	—	6·5	16	3·03
		Aug.	29·788	0·660	81·8	42·0	39·8	69·9	54·1	15·8	60·3	53·8	·414	4·6	1·2	79	530	121·4	48·3	1·8	6	4	12	9	—	6·7	14	3·30
		Sept.	29·975	0·628	70·0	33·0	37·0	60·3	45·0	15·3	53·0	46·2	·312	3·5	1·0	77	541	116·4	40·5	1·6	13	4	6	7	—	5·9	13	1·47
		Oct.	29·904	1·370	66·6	27·7	38·9	55·4	43·3	12·1	49·3	43·7	·286	3·3	0·8	81	544	88·8	35·6	2·0	6	5	12	8	—	5·7	13	1·50
		Nov.	29·577	1·586	57·6	26·6	31·0	50·2	37·2	13·0	43·5	40·6	·254	2·9	0·4	90	545	66·4	32·3	1·8	2	1	19	8	—	6·4	15	2·72
		Dec.	29·950	1·448	55·8	25·0	30·8	45·3	33·0	12·3	39·9	36·7	·218	2·6	0·3	89	556	49·3	28·2	1·5	5	3	14	9	—	6·9	15	2·00
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	100	Oct.	29·817	1·466	69·0	37·3	31·7	58·0	46·2	11·8	51·8	45·4	·305	3·4	0·9	79	540	—	—	1·1	4	2	7	18	—	6·2	16	3·37
		Nov.	29·450	1·920	62·0	35·0	27·0	52·2	42·8	9·4	47·3	41·6	·263	3·0	0·7	81	538	—	—	1·0	4	1	13	12	—	6·4	22	6·35
		Dec.	29·862	1·450	55·5	33·6	21·9	48·0	39·5	8·5	44·0	39·2	·240	2·7	0·6	82	549	—	—	0·8	5	3	6	17	—	7·0	23	3·88
KELSTERN GRANGE, near Louth (Lincolnshire), D. Grant Briggs, Esq., F.M.S.	393	Oct.	29·522	1·401	66·1	26·2	39·9	54·5	39·9	14·6	46·7	42·4	·271	3·1	0·6	85	540	92·4	35·7	1·1	5	5	11	10	7·3	5·3	19	2·07
		Nov.	29·158	1·787	56·0	29·2	26·8	48·4	36·6	11·8	42·2	39·3	·240	2·8	0·4	90	538	80·6	32·9	1·2	2	1	14	13	7·6	4·8	18	2·73
		Dec.	29·537	1·476	48·8	23·9	24·9	42·3	33·4	8·9	37·8	35·7	·209	2·5	0·2	92	550	64·3	30·3	0·9	4	3	10	14	6·5	5·8	16	2·27
LIVERPOOL OBSERVATORY, John Hartnup, Esq., F.R.A.S.	197	Oct.	29·710	1·432	68·8	38·4	30·4	56·0	45·3	10·7	49·9	45·4	·304	3·5	0·6	85	540	—	—	1·4	4	6	12	9	—	6·5	20	3·05
		Nov.	29·338	1·790	60·1	34·0	26·1	50·7	41·4	9·3	45·4	40·9	·256	2·9	0·6	85	538	—	—	1·5	1	3	13	13	—	6·6	23	4·10
		Dec.	29·746	1·453	53·0	30·0	23·0	46·2	38·5	7·7	42·2	39·6	·243	2·8	0·3	90	549	—	—	1·5	3	5	9	14	—	7·5	23	4·20
ECCLES (near Manchester), T. Mackereth, Esq., F.M.S., F.R.A.S.	145	Oct.	29·771	1·424	68·5	30·4	38·1	57·4	40·1	17·3	48·3	42·8	·275	3·2	0·7	82	543	65·1	33·3	0·6	4	4	10	13	1·8	6·7	20	4·04
		Nov.	29·396	1·848	61·1	26·7	34·4	51·0	37·7	13·3	44·3	39·9	·246	2·8	0·5	85	540	55·4	29·7	0·6	3	1	13	13	2·1	7·0	24	5·54
		Dec.	29·816	1·456	51·7	25·8	25·9	45·3	34·3	11·0	40·3	36·9	·219	2·5	0·4	88	553	45·5	27·3	0·5	7	2	8	14	2·2	7·9	24	3·85
BERMERSIDE OBSERVATORY, HALIFAX (Yorkshire), E. J. Crossley, Esq., F.R.A.S.	520	Oct.	29·363	1·426	66·0	28·4	37·6	54·2	40·8	13·4	47·0	42·0	·268	3·0	0·7	84	537	85·8	36·3	0·8	3	7	11	10	—	5·9	18	4·98
		Nov.	29·009	1·682	57·0	30·0	27·0	48·1	38·9	9·2	42·8	38·8	·236	2·7	0·5	86	535	71·6	33·7	0·8	1	2	14	13	—	6·7	17	4·18
		Dec.	29·437	1·530	50·4	30·0	20·4	44·5	36·7	7·8	40·5	37·8	·227	2·6	0·3	90	545	59·3	32·8	0·6	4	5	8	14	—	7·6	16	4·15
HULL (Yorkshire), Mr. E. Peak.	12	Oct.	29·919	1·506	65·0	27·0	38·0	54·2	41·0	13·2	47·2	45·4	·304	3·5	0·2	94	546	67·7	37·5	—	—	—	—	—	1·2	—	16	2·00
		Nov.	29·576	1·674	57·0	29·0	28·0	48·7	38·5	10·2	43·5	39·8	·246	2·8	0·4	87	545	61·0	35·1	—	—	—	—	—	1·5	—	16	2·13
		Dec.	29·961	1·486	50·0	24·0	26·0	43·2	34·7	8·5	39·6	35·9	·211	2·4	0·4	87	556	49·3	32·2	—	—	—	—	—	1·5	—	14	2·08
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.S., F.M.S., F.R.A.S.	363	Oct.	29·514	1·434	67·0	27·4	39·6	53·3	40·3	13·0	46·9	42·0	·267	3·0	0·7	84	540	99·2	38·4	1·8	4	3	10	14	—	6·3	21	6·51
		Nov.	29·126	1·856	58·2	28·8	29·4	50·1	38·7	11·4	44·2	40·5	·252	2·9	0·4	87	536	83·3	35·4	2·0	1	1	14	14	—	8·3	25	6·45
		Dec.	29·548	1·470	50·5	25·0	25·5	45·1	34·9	10·2	40·3	37·1	·221	2·6	0·4	89	548	64·1	31·7	1·6	3	3	7	18	—	7·7	28	6·64

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1877. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
LEEDS (Philosophical Hall) (Yorkshire), H. Crowther, Esq.	137	Oct.	29·774	1·482	65·0	31·0	34·0	55·8	42·4	13·4	49·0	41·6	·263	3·0	1·0	75	542	64·4	—	1·7	4	5	8	14	—	4·4	18	3·17
		Nov.	29·409	1·682	59·0	32·0	27·0	50·3	39·6	10·7	45·4	38·1	·230	2·7	0·8	76	539	57·3	—	1·4	2	2	12	14	—	4·3	19	2·79
		Dec.	29·801	1·494	53·0	27·0	26·0	46·3	36·4	9·9	41·9	35·9	·212	2·4	0·6	81	551	50·0	—	1·4	5	3	8	15	—	4·9	14	2·61
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	366	Oct.	29·535	1·398	62·0	31·0	31·0	54·4	43·8	10·6	47·8	43·0	·277	3·1	0·6	85	539	63·8	—	0·7	6	6	8	11	—	7·2	22	4·27
		Nov.	29·156	1·766	57·8	32·5	25·3	49·1	41·0	8·1	44·8	38·5	·234	2·7	0·7	78	536	56·8	—	0·8	4	1	12	13	—	6·5	24	3·69
		Dec.	29·578	1·510	50·6	30·6	20·0	44·3	37·1	7·2	40·9	37·5	·224	2·6	0·4	88	548	48·3	—	0·8	2	1	12	16	—	7·5	22	3·55
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.R.A.S., F.M.S.	146	Oct.	29·706	1·420	63·8	29·5	34·3	55·7	43·9	11·8	48·8	44·1	·290	3·2	0·6	84	541	76·6	34·3	0·7	6	3	11	11	3·3	6·9	22	6·06
		Nov.	29·300	1·983	57·8	27·1	30·7	49·2	42·0	7·2	45·2	40·9	·256	2·9	0·5	85	538	61·4	31·3	0·6	3	2	12	13	4·4	7·4	24	9·86
		Dec.	29·746	1·454	50·8	25·7	25·1	44·7	37·8	6·9	41·2	37·6	·226	2·6	0·4	87	550	48·2	28·9	0·4	5	5	11	10	3·2	7·1	22	5·10
ALLENHEADS (Northumberland), Mr. T. Kidd, Assistant to W. B. Beaumont, Esq., M.P.	1360	Oct.	28·445	1·233	—	26·4	—	—	37·5	—	—	—	—	—	—	—	—	79·1	—	1·3	4	3	10	13	—	5·8	21	4·78
		Nov.	28·018	1·622	—	23·4	—	—	34·8	—	—	—	—	—	—	—	—	66·7	—	1·6	4	2	10	14	—	5·4	23	6·26
		Dec.	28·412	1·634	—	20·1	—	—	30·7	—	—	—	—	—	—	—	—	61·7	—	1·0	5	3	8	15	—	6·2	21	3·77
SILLOTH RECTORY (Cumberland), Rev. Francis Redford, M.A., F.R.A.S., F.M.S.	28	Oct.	29·838	1·540	63·1	25·4	40·7	57·6	42·8	14·8	49·1	43·1	·279	3·2	0·9	80	543	84·4	38·8	1·3	4	6	10	11	8·6	4·7	21	5·54
		Nov.	29·457	1·929	57·5	27·4	30·1	50·8	40·5	10·3	55·3	40·8	·254	2·9	0·6	84	540	72·6	36·2	1·4	4	3	7	16	10·2	5·1	22	6·70
		Dec.	29·865	1·441	51·1	26·2	24·9	45·6	36·2	9·4	41·0	37·6	·225	2·6	0·4	88	553	60·0	32·5	1·3	7	4	5	15	7·5	4·9	22	3·70
CARLISLE (Cumberland), Isaac Cartmell, Esq., F.M.S.	114	Oct.	29·752	1·488	65·7	24·2	41·5	56·2	40·6	15·6	47·8	41·6	·263	3·1	0·7	80	543	80·7	35·9	2·1	5	3	11	12	7·4	6·0	22	4·03
		Nov.	29·340	1·922	60·2	25·0	35·2	49·4	37·9	11·5	43·4	39·5	·243	2·8	0·5	86	540	67·5	33·1	1·8	2	2	15	11	6·0	5·8	26	6·04
		Dec.	29·761	1·474	57·6	24·3	33·3	45·3	34·2	11·1	40·0	37·0	·220	2·5	0·4	89	552	52·6	29·7	1·7	4	4	8	15	5·9	7·2	24	3·13
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	Oct.	29·735	1·338	64·0	30·0	34·0	55·8	43·1	12·7	48·1	42·9	·275	3·2	0·6	83	542	67·7	37·4	1·4	5	4	8	14	—	5·5	19	3·17
		Nov.	29·350	1·648	57·0	30·0	27·0	49·9	40·7	9·2	44·6	38·9	·237	2·7	0·6	80	539	60·4	34·5	1·4	4	2	8	16	—	5·6	20	2·11
		Dec.	29·759	1·478	52·0	27·0	25·0	45·4	36·4	9·0	40·6	34·7	·201	2·3	0·6	80	551	54·3	30·4	1·3	6	7	5	15	—	6·3	21	2·50
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	Oct.	29·800	1·672	61·4	29·0	32·4	52·8	42·1	10·7	46·5	42·0	·268	3·1	0·5	85	545	—	40·4	1·8	7	1	7	16	—	5·7	21	2·61
		Nov.	29·418	1·827	57·4	30·0	27·4	48·5	37·7	10·8	42·7	37·4	·224	2·6	0·6	82	543	—	35·6	1·7	7	0	7	16	—	5·1	17	1·42
		Dec.	29·803	1·462	55·3	25·0	30·3	44·7	34·8	9·9	39·9	37·4	·224	2·7	0·2	91	553	—	33·0	1·7	11	2	5	13	—	6·3	22	2·15
MILLTOWN, Banbridge (Ireland), John P. Smyth, Esq., Jun., M.A., M.I.C.E.I., F.G.S.	200	Oct.	29·635	1·406	62·0	28·0	34·0	55·2	42·8	12·4	48·5	44·3	·292	3·4	0·5	86	540	91·6	39·7	1·8	5	3	14	9	—	5·2	18	2·69
		Nov.	29·254	1·950	58·0	30·0	28·0	48·6	37·5	11·1	42·7	38·3	·232	2·7	0·5	85	540	78·8	33·5	2·6	1	2	23	4	—	4·4	23	3·29
		Dec.	29·685	1·580	52·0	29·0	23·0	45·7	35·3	10·4	40·6	36·9	·219	2·5	0·4	86	550	58·7	31·3	1·6	4	3	13	11	—	5·9	22	2·76

NOTE.—*The Barometer Reading*, Bywell, 15th Oct., 9h. a.m., 28·988 in., has been altered to 29·988 in.
" " Silloth, 23rd Nov., 9h. a.m., 28·332 in., " 29·332 in.
" " Gloucester, 29th Nov., 4h. p.m., 29·983 in., " 28·983 in.

GLOUCESTER.—The readings of the minimum thermometer on grass are all too low, and cannot be used.

Second Rain-gauges are placed—

			October.	November.	December.	Total during the Quarter.
At Strathfield Turgiss, at the height of 38 feet *above the ground*, the amount collected was			1·50 inches.	3·65 inches.	1·22 inches.	7·37 inches.
" Oxford,	"	22 feet " "	1·62 "	3·62 "	1·65 "	6·89 "
" Cardington,	"	36 feet " "	1·25 "	2·25 "	1·46 "	4·96 "
" Wisbech,	"	8 feet " "	— "	2·22 "	1·71 "	— "
" Nottingham,	"	39 feet " "	1·43 "	1·76 "	1·73 "	4·92 "
" Eccles,	"	84 feet " "	3·22 "	4·17 "	2·79 "	10·19 "
" Milltown (Ireland),	"	40 feet " "	— "	2·67 "	2·04 "	— "

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·665	65·0	45·0	30·0	51·2	45·8	21·7	8·4	49·8	45·2	·303	3·5	0·6	85	541	—	—	1·6	7	5	8	11	4·5	6·4	64	15·34
Helston	29·669	69·0	31·0	38·0	57·8	43·7	30·0	14·1	50·1	43·9	·289	3·3	0·8	80	542	62·2	38·2	2·0	7	4	9	11	4·9	5·6	62	13·62
Truro	29·652	68·0	29·0	39·0	55·3	42·2	29·3	13·1	48·6	42·7	·275	3·1	0·8	80	545	—	—	2·3	6	3	9	12	—	6·9	68	13·79
Plymouth	29·734	65·2	30·5	34·7	53·9	41·3	28·7	12·6	47·5	43·1	·289	3·2	0·5	85	547	—	40·0	1·3	4	4	11	11	—	6·3	60	11·75
Torquay	29·662	65·3	30·9	34·4	53·4	41·4	27·5	12·0	47·1	42·6	·273	3·1	0·6	85	541	91·9	33·9	1·3	4	2	8	17	4·1	5·9	60	11·80
Ventnor	29·661	70·2	32·8	37·4	56·6	44·7	28·6	11·9	49·9	45·2	·303	3·5	0·6	84	543	—	—	—	6	4	7	14	7·1	5·6	55	13·51
Osborne	29·649	67·6	27·2	40·4	53·2	39·4	30·2	13·8	46·6	43·8	·289	3·3	0·4	91	544	77·3	36·5	0·2	5	3	8	14	—	6·0	54	11·81
Bournemouth	29·719	64·1	27·0	37·1	52·4	40·0	29·7	12·4	46·2	41·9	·257	3·1	0·5	86	547	—	—	—	7	3	5	16	—	4·0	46	11·08
Brighton	29·678	61·8	28·3	33·5	51·7	40·9	25·9	10·8	46·3	41·6	·254	3·0	0·6	84	544	79·7	33·4	1·0	8	3	7	13	—	5·7	54	12·34
Salisbury	29·689	66·0	22·0	44·0	53·3	33·9	36·7	19·4	44·0	39·9	·244	2·8	0·5	86	547	75·7	32·8	1·3	8	4	4	15	—	6·0	53	11·74
Barnstaple	29·637	73·0	32·0	41·0	54·4	43·3	29·7	11·1	48·6	43·5	·284	3·2	0·7	83	544	—	—	1·3	5	4	11	11	—	4·7	69	16·83
Caterham	29·639	63·0	25·0	38·0	50·3	38·3	27·3	12·0	46·0	40·5	·254	2·9	0·6	85	535	—	36·0	4·2	6	3	8	13	—	3·4	51	10·58
Ramsgate	29·639	63·2	30·0	33·2	52·0	41·7	25·5	10·3	46·7	40·3	·251	2·9	0·8	79	546	81·0	35·2	1·7	4	3	9	14	—	6·2	51	9·66
Strathfield Turgiss	29·677	57·9	25·3	42·6	52·2	37·2	32·8	14·9	44·7	40·5	·253	2·9	0·5	86	546	82·4	31·5	0·5	5	4	10	13	1·3	6·2	52	8·32
Weybridge Heath	29·702	63·0	25·3	42·7	51·4	37·2	33·5	14·2	44·1	39·4	·242	2·8	0·6	84	548	67·7	32·4	0·7	4	6	14	7	0·5	5·4	55	8·14
Marlborough Green	29·664	46·1	21·5	41·6	51·4	37·3	31·0	14·1	43·9	40·3	·251	2·9	0·5	88	541	79·2	29·0	0·3	4	2	7	17	—	5·8	56	11·89
Blackheath	29·657	69·0	28·3	40·7	51·9	39·0	31·4	12·9	45·5	40·6	·255	2·9	0·6	84	546	76·7	35·1	0·8	5	3	10	13	—	5·9	51	7·40
Streatley Vicarage	29·672	67·8	25·0	41·8	52·0	37·3	32·4	14·7	45·0	—	—	—	—	—	—	—	—	1·3	8	4	7	12	—	5·9	53	8·00
Chiswick	29·630	39·0	23·0	46·0	53·2	35·9	36·7	17·3	44·7	40·2	·251	2·9	0·6	85	549	81·2	31·0	1·0	4	3	7	16	—	6·4	42	7·27
Camden Square	29·655	67·5	28·3	39·2	52·3	38·9	30·1	13·3	45·4	40·7	·256	3·0	0·6	84	546	65·8	34·8	—	7	1	6	16	—	5·6	55	7·26
Oxford	29·647	66·3	28·1	38·2	51·2	39·3	30·0	11·9	45·3	40·6	·255	2·9	0·6	84	544	88·0	35·4	0·8	4	2	11	14	1·4	6·5	71	7·32
Gloucester	29·637	71·0	23·5	47·5	53·4	37·6	36·8	15·8	45·5	43·0	·280	3·2	0·3	91	547	74·8	—	0·4	6	4	6	15	0·5	5·7	50	6·39
Royston	29·660	68·8	23·2	42·6	51·6	36·8	31·7	14·8	44·1	40·2	·251	2·9	0·5	87	544	—	—	—	4	3	11	13	—	5·8	55	5·78
Cardington	29·639	68·0	26·0	42·0	50·8	36·7	32·7	14·1	43·9	40·5	·253	2·9	0·5	88	548	57·7	31·8	1·8	4	3	9	15	—	6·1	43	6·30
Cambridge	29·621	69·4	25·8	43·6	51·8	38·6	32·3	13·2	45·0	40·7	·254	2·9	0·5	86	548	83·0	31·6	1·2	4	2	12	12	—	6·2	58	5·64
Somerleyton	29·616	65·7	24·8	40·9	51·0	37·5	33·2	13·5	44·2	42·1	·270	3·1	0·2	93	548	—	—	1·1	4	4	10	12	7·3	5·5	55	7·84
Norwich	29·596	66·0	27·5	38·5	50·3	40·5	29·2	9·8	45·1	43·2	·281	3·3	0·2	94	548	—	—	—	4	3	13	11	—	—	47	6·53
Leicester	29·622	68·0	26·9	41·1	51·3	38·6	29·1	12·7	44·6	39·4	·243	2·8	0·6	83	544	75·5	29·8	1·3	4	3	9	15	—	6·4	50	5·21
Nottingham	29·586	69·0	24·0	45·0	51·0	35·7	33·0	14·3	43·5	40·7	·255	2·9	0·3	90	546	69·9	33·7	0·4	3	4	12	12	1·8	6·8	70	6·21
Holkham	29·601	66·6	25·0	41·6	50·3	37·8	33·6	12·5	44·2	40·3	·253	2·9	0·5	87	548	68·2	32·0	1·8	4	3	15	8	—	6·3	43	6·22
Llandudno	29·549	69·0	33·6	35·4	52·7	42·8	26·9	9·9	47·7	42·1	·269	3·0	0·7	81	542	—	—	1·0	4	2	9	16	—	6·5	61	13·69
Kelstern Grange	29·590	66·1	23·9	42·2	48·4	33·6	30·5	11·8	42·2	39·1	·240	2·8	0·4	89	543	79·1	33·0	1·1	4	3	12	12	7·1	5·3	53	7·07
Liverpool	29·544	68·8	30·0	38·8	51·0	41·7	26·5	9·3	45·8	42·0	·268	3·1	0·5	87	542	—	—	1·5	3	5	11	12	—	6·9	65	11·35
Eccles	29·570	68·5	25·8	42·7	51·2	37·4	32·8	13·9	44·3	39·9	·247	2·8	0·5	85	545	55·3	30·1	0·6	5	2	10	13	2·0	7·2	68	13·41
Bermerside, Halifax	29·596	63·0	28·4	37·6	48·9	38·8	28·3	10·1	43·4	39·5	·244	2·8	0·5	87	539	72·2	34·3	0·7	3	5	11	12	—	6·7	51	13·51
Hull	29·578	65·0	24·0	41·0	48·7	38·1	30·7	10·6	43·4	40·4	·254	2·9	0·3	89	549	59·3	34·9	—	—	—	—	—	1·4	—	46	6·21
Stonyhurst	29·545	67·0	25·0	42·0	49·5	33·0	31·5	11·5	43·8	39·9	·247	2·8	0·5	87	541	82·2	35·2	1·8	3	2	10	15	—	7·4	74	19·60
Leeds	29·576	65·0	27·0	38·0	50·8	39·5	29·0	11·3	45·4	38·5	·235	2·7	0·8	77	544	57·2	—	1·5	4	3	9	14	—	4·5	51	8·57
Bradford	29·572	62·0	30·6	31·4	49·3	40·6	25·4	8·7	44·5	39·7	·245	2·8	0·6	84	541	56·3	—	0·8	4	3	11	13	—	7·1	68	11·51
Cockermouth	29·485	63·8	25·7	38·1	49·9	41·2	30·0	8·7	45·1	40·9	·257	2·9	0·5	85	543	62·1	31·5	0·6	5	3	11	11	3·6	7·1	68	21·02
Allenheads	—	—	20·1	—	—	34·3	—	—	—	—	—	—	—	—	—	69·2	—	1·3	4	3	9	14	—	5·8	65	14·81
Silloth	29·497	66·1	25·4	40·7	51·3	39·8	31·9	11·5	45·1	40·5	·253	2·9	0·6	84	545	72·3	35·8	1·3	5	4	7	14	8·8	4·9	65	15·91
Carlisle	29·500	65·7	24·2	41·5	50·3	37·6	31·8	12·7	43·7	39·4	·242	2·8	0·5	85	545	66·9	32·9	1·9	4	3	11	13	6·4	6·3	72	13·20
Bywell	29·470	64·0	27·0	37·0	50·4	40·1	28·7	10·3	44·4	38·8	·238	2·7	0·6	81	544	60·8	34·1	1·4	5	4	7	14	—	5·8	60	7·78
North Shields	—	61·4	25·0	36·4	48·7	38·2	30·0	10·5	43·0	38·9	·239	2·8	0·4	85	547	—	36·3	1·7	8	1	6	15	—	5·7	60	6·18
Milltown (Ireland)	29·495	62·0	28·0	34·0	49·8	38·5	28·3	11·3	43·9	39·8	·248	2·9	0·5	86	543	76·4	34·8	2·0	3	3	17	8	—	5·2	63	8·74

The highest temperatures of the air were at Barnstaple, 73°·0; Gloucester, 71°·0; and Ventnor, 70°·2.

The lowest temperatures of the air were at Allenheads, 20°·1; Salisbury, 22°·0; Chiswick, 23°·0; and Gloucester, 23°·5.

The greatest daily ranges of the temperatures of the air were at Salisbury, 19°·4; Chiswick, 17°·3; and Gloucester, 15°·8.

The least daily ranges of the temperatures of the air were at Guernsey, 8°·4; Bradford and Cockermouth, both 8°·7; and Liverpool, 9°·3.

The greatest number of rainy days were at Stonyhurst, 74; Carlisle, 72; Oxford, 71; and Nottingham 70.

The least number of rainy days were at Chiswick, 42; Cardington and Holkham, both 43; and Hull 46.

The heaviest falls of rain were at Cockermouth, 21·02 inches; Stonyhurst, 19·60 inches; and Barnstaple, 16·83 inches.

The least falls of rain were at Leicester, 5·51 inches; Cambridge, 5·64 inches; and Royston, 5·78 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·665	65·0	45·0	30·0	54·2	45·8	21·7	8·4	49·8	45·2	·303	3·5	0·6	85	541	—	—	1·6	7	5	8	11	4·8	6·4	64	15·24
Between 50° and 51°	29·679	67·1	29·8	37·3	54·7	41·8	29·1	12·9	48·0	43·3	·282	3·2	0·6	84	544	78·1	37·1	1·4	6	3	8	14	5·4	5·8	58	12·48
Between 51° and 52°	29·656	67·6	26·6	41·0	52·1	38·6	31·5	13·5	45·4	40·9	·257	3·0	0·6	85	545	77·4	33·4	1·2	5	3	9	13	0·9	5·6	55	9·10
Between 52° and 53°	29·618	67·7	25·8	41·9	51·0	37·9	31·9	13·1	44·3	40·9	·258	3·0	0·4	88	547	70·9	31·8	1·3	4	3	11	12	4·6	6·2	53	6·24
Between 53° and 54°	29·569	66·9	27·2	39·7	50·2	39·1	29·5	11·1	44·5	40·2	·251	2·9	0·5	85	543	67·6	33·5	1·2	4	3	10	13	3·5	6·4	59	11·64
Between 54° and 55°	29·505	64·3	26·6	37·7	50·2	39·9	30·6	10·3	44·6	39·9	·247	2·8	0·6	84	544	64·6	33·6	1·2	5	3	9	13	6·3	6·2	66	14·04
Mean for the Quarter, 50° to 55° — Year 1874	29·608	64·9	14·9	50·0	48·3	37·0	33·1	11·3	42·4	33·6	·242	2·8	0·5	86	547	63·1	31·5	1·2	7	5	8	11	5·3	6·7	55	10·50
" 1875	29·637	66·4	22·6	43·8	48·5	38·5	32·3	10·0	43·2	39·5	·246	2·8	0·5	87	547	63·0	34·5	1·2	7	8	7	9	3·7	7·4	54	11·20
" 1876	29·456	69·5	24·9	44·6	51·9	41·8	33·1	10·1	46·5	42·8	·278	3·2	0·5	87	541	66·6	37·0	1·1	5	8	10	7	3·5	7·1	55	12·34
" 1877	29·604	66·7	27·2	39·5	51·6	49·5	30·5	12·2	45·4	41·0	·259	3·0	0·5	85	545	71·7	35·9	1·3	5	3	9	13	4·1	6·0	58	10·70

Remarks on the Weather during the Quarter ending March 31st, 1878.

By James Glaisher, Esq., F.R.S., *&c.*

The month of January was unusually mild, the sky was generally overcast, and there was very little sunshine, the fall of rain was less than the average, and the fall of snow till after the 24th was small in amount. Till the 24th day, with the exception of the 10th, 11th, 12th, and 13th, the temperature was every day above its average; and on the 14th, 15th, 21st, and 22nd, to a very large amount; the temperatures on the 21st and 22nd, both day and night, were extremely high, and the average excess of daily temperature from January 1st to the 24th was 5°·1. On the 25th a cold period set in, and snow fell daily, chiefly in the north, but on the 25th it fell generally over the country, extending as far south as Guernsey. On January 28th there was a slight shock of earthquake, which was felt at Jersey, Isle of Wight, London, Brighton, Southampton, Havre, Rouen, and Paris, and many other places. The cold weather which set in on January 25th, continued to February 12th, and the average deficiency of temperature for these 19 days was 2°·6 daily. On February 13th a very warm period set in, and on the 17th there was a remarkably high day temperature at all stations, the temperature at some exceeding 60°, and at many being nearly equal to this amount; this very warm period continued till March 13th, the first day of March being distinguished for high temperature, and for the 28 days ending March 13th, the daily excess of temperature was on the average as large as 7°; then there occurred 5 days of low temperature, snow falling over the Midland and Northern Counties daily; the average daily deficiency of temperature was 4½°; then 4 days (March 18th–22nd) of warmth followed, the excess of temperature being 6½°. Up to this time the weather for the whole quarter had been exceedingly mild, but on the 23rd day of March bad weather set in with severity, and from this day to the end of the quarter the weather was bitterly inclement; snow fell on every day, accompanied with very cold N. and N.E. winds, and no more trying weather during the winter was experienced than on March 29th and 30th; the snow on these days was large in amount, and was general over the whole country, all the railways in Devonshire being blocked, and telegraphic communications being everywhere interrupted. The average deficiency of temperature for the 10 days ending March 31st was as large as 6¾° daily.

The readings of the barometer were high upon the whole quarter, in January the mean reading was 29·979 inches, and this was slightly exceeded in the years 1855, 1858, 1859, 1864, and 1874. In February the mean reading was 30·101 inches, and there are only two Februaries back to 1841 in which this reading was exceeded, viz.: in 1849 when it was 30·106 inches, and in 1863 when it was 30·141 inches.

The readings of the barometer in the vicinity of London were above their averages from the 1st to the 6th of January, below on the 7th and 8th, above from the 9th to the 22nd, below on the three following days, above on the 26th and 27th, below on the 28th, and again above from the 29th to the end of the month. The mean reading for the month was 29·979 ins., being 0·231 in. above the average. During the first nine days of February the barometer readings were above their averages; the mean amount in excess of the average for these nine days was no less than 0·56 in.; the reading on the 10th was the same as the average, the readings on the 11th and 12th were above their averages, and on the 13th and 14th they were below, from the 15th to the 26th they were all above their averages, and on the 27th and 28th they were respectively 0·13 in. and 0·07 in. below. The mean reading for the month was 30·101 ins., being 0·308 in. above the average. The readings of the barometer from the 1st to the 10th of March were alternately above and below their averages, from the 11th to the 21st they were all above, and from the 22nd to the end of the month they were below their averages, with the exception of the 26th, which was 0·11 in. above. The mean reading for the month was 29·890 ins., being 0·154 in. above the average.

At Greenwich *the mean temperature* of January was below that of December by 0°·4; that of February was above that of January by 1°·8; and that of March was below that of February by 0°·2. (From the preceding 37 years' observations the *mean temperature* of January is lower than that of December by 1°·5; that of February is higher than that of January by 0°·6; and that of March is higher than that of February by 2°·3.)

The mean temperature of the air for January below that of December over the whole country was 0°·6; that of February above that of January was 1°·8; and that of March below that of February was 0°·1.

The mean temperature of the air for January was 40°·4, being 3°·9 and 1°·7 above the averages of the preceding 107 years, and 37 years respectively. It was 2°·3 lower than the value in 1877.

The mean temperature of the air for February was 42°·2, being 3°·5 and 2°·9 above the averages of the preceding 107 years, and 37 years respectively. It was 1°·3 lower than the value in 1877.

The mean temperature of the air for March was 42°·0, being 0°·9, and 0°·4 above the averages of the preceding 107 years, and 37 years respectively. It was 1°·3 higher than the value in 1877.

The mean temperature of the air for the quarter was 41°·5, being 2°·8 and 1°·7 above the averages of the preceding 107 years and 37 years respectively.

The mean high day temperatures of the air were 1°·2 and 1°·6 above their respective averages in January and February, but 0°·3 below in March.

The following table contains the highest and lowest temperatures registered at all the stations on January 21st and 22nd, February 17th, and March 1st, which were remarkable for their high temperatures; and on March 29th and 30th, which were remarkable for their low temperatures.

TABLE of MAXIMUM and MINIMUM TEMPERATURES of the AIR at the several STATIONS on January 21st and 22nd, February 17th, and March 1st, 29th, and 30th.

Names of Stations.	Jan. 21st.		Jan. 22nd.		Feb. 17th.		March 1st.		March 29th.		March 30th.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
	°	°	°	°	°	°	°	°	°	°	°	°
Guernsey	54·0	43·5	53·0	50·0	54·5	44·5	54·0	50·5	48·0	40·5	42·0	33·0
Helston	55·0	51·0	54·0	45·0	57·0	42·0	50·0	46·0	44·0	32·0	48·0	32·0
Truro	55·0	51·0	55·0	52·0	56·0	48·0	55·0	53·0	40·0	34·0	46·0	34·0
Plymouth	52·5	47·5	54·0	51·0	51·5	45·5	53·0	51·0	48·5	32·5	40·0	31·0
Torquay	52·4	50·2	52·1	46·8	57·5	45·0	53·2	51·0	38·1	33·0	44·2	29·2
Ventnor	51·7	45·3	51·7	49·1	58·8	46·1	52·2	48·3	40·0	34·2	46·7	30·8
Osborne	51·9	44·6	52·0	48·6	59·4	41·2	51·9	47·5	37·0	31·8	43·7	29·0
Bournemouth	50·6	41·6	54·0	45·0	50·8	45·0	51·6	47·2	38·0	33·0	44·2	30·1
Brighton	50·0	40·0	50·2	45·4	51·8	46·8	51·0	46·8	37·0	33·0	38·7	31·0
Salisbury	55·0	43·5	56·5	49·0	58·0	44·0	56·0	49·0	37·0	31·0	44·0	28·0
Barnstaple	55·0	47·0	56·0	53·0	58·0	47·0	56·0	52·0	44·0	32·0	42·0	33·0
Caterham	51·0	44·0	52·0	48·0	55·0	44·0	52·0	38·0	42·0	30·0	45·0	28·0
Bath	—	—	—	—	57·7	45·1	54·0	47·4	36·0	30·0	38·8	27·0
Ramsgate	51·8	41·0	53·0	50·3	55·3	44·4	53·2	48·1	38·1	34·9	38·3	32·6
Strathfield Turgiss	54·0	46·5	54·4	47·5	59·2	47·2	56·0	50·1	36·5	32·4	41·3	29·0
Weybridge Heath	55·0	45·5	55·0	50·5	59·5	46·8	56·0	49·5	36·0	31·5	40·0	29·8
Marlborough	54·7	48·4	54·0	46·2	57·7	46·1	55·5	48·5	35·8	31·1	39·9	26·5
Bristol	54·3	46·2	54·3	51·7	59·6	43·5	56·6	50·5	39·7	31·8	44·0	28·7
Blackheath	57·3	46·0	56·7	49·0	61·2	47·0	56·1	49·1	35·2	30·0	42·3	29·2
Royal Observatory	54·8	43·2	54·8	47·3	60·5	46·4	56·8	50·2	35·8	32·3	40·8	30·8
Streatley	54·0	45·7	56·3	53·0	51·2	47·8	55·2	52·2	42·0	32·0	38·0	29·5
Chiswick	53·0	48·0	56·0	52·0	55·0	42·0	55·5	49·5	45·5	32·5	46·5	31·5
Camden Square	55·6	44·9	54·8	51·0	59·7	46·3	57·2	49·2	38·0	32·4	42·3	31·0
Oxford	54·0	44·9	56·5	52·0	58·1	42·9	58·4	46·9	39·9	29·0	43·0	27·0
Gloucester	54·0	44·5	53·0	49·0	62·0	44·5	55·0	48·0	45·5	34·0	42·7	28·0
Royston	52·9	42·4	56·0	50·0	53·0	44·4	56·2	47·3	41·2	29·6	37·9	28·7
Cardington	56·6	44·0	54·6	51·0	58·0	44·0	59·4	49·0	39·0	31·0	43·4	30·0
Somerleyton	56·2	48·5	45·0	30·8	57·9	41·4	58·2	47·0	34·2	33·0	38·5	31·8
Cambridge	58·0	46·6	54·7	46·0	60·8	47·0	60·8	48·3	39·8	33·7	41·5	29·6
Norwich	56·5	43·0	54·5	44·0	57·5	48·0	58·8	50·0	38·0	33·5	41·0	35·5
Leicester	55·9	49·6	55·4	43·0	59·2	45·9	56·8	49·2	40·2	33·8	43·8	30·5
Wolverhampton	52·4	43·1	54·5	42·7	46·5	40·0	54·5	46·6	35·4	29·5	41·5	35·4
Nottingham	52·3	45·8	55·7	40·9	51·5	43·1	54·5	48·3	37·7	31·0	42·4	29·8
Holkham	52·5	43·0	55·4	40·0	51·2	41·7	54·5	46·4	41·2	34·7	40·6	34·2
Llandudno	57·9	50·8	52·0	41·8	63·4	48·0	54·1	49·2	43·0	33·8	43·5	31·0
Sheffield	56·0	46·5	56·1	41·0	58·0	45·0	59·0	49·0	41·5	31·0	43·0	29·5
Kelstern Grange	54·0	46·1	52·4	39·8	56·3	43·6	56·0	46·2	39·1	33·1	39·2	28·4
Liverpool	55·0	47·1	55·7	41·1	53·8	45·2	56·2	43·9	42·9	30·7	44·5	35·4
Eccles	54·5	44·0	48·4	33·5	60·4	43·7	56·7	44·5	43·8	29·8	47·6	24·8
Bermerside	52·8	49·0	40·2	38·0	59·6	45·0	54·0	46·0	42·0	31·0	44·3	28·0
Hull	56·0	45·0	47·0	42·0	58·0	45·0	59·0	44·0	44·0	34·0	48·0	29·0
Stonyhurst	53·0	37·0	45·0	34·5	57·9	38·0	53·8	42·0	43·2	27·9	46·0	25·0
Bradford	52·8	45·4	53·7	39·8	51·0	45·0	54·0	48·6	38·0	32·0	42·6	30·0
Leeds	57·0	45·0	48·0	39·0	55·0	45·0	60·0	48·0	45·0	30·0	45·0	29·0
Cockermouth	51·2	44·6	52·0	39·0	58·3	46·2	51·9	46·7	43·9	29·3	43·0	24·2
Allenheads	—	35·7	—	29·5	—	—	—	41·8	—	23·0	—	20·8
Silloth	50·7	43·9	50·9	29·9	59·4	45·9	51·4	45·7	44·8	29·5	47·0	27·0
Sunderland	51·0	44·0	42·0	35·0	57·0	47·0	60·0	47·0	45·0	35·0	45·0	30·0
Carlisle	53·5	28·8	44·6	31·5	60·3	41·4	53·8	41·8	43·3	24·0	43·8	28·5
Bywell	49·0	44·0	45·0	35·0	60·0	49·0	58·0	48·0	44·0	32·0	45·0	30·0
North Shields	53·0	42·2	42·0	32·0	55·0	44·8	57·0	45·0	40·4	34·3	40·6	28·8
Waringstown (Ireland)	54·0	28·0	45·0	31·0	57·0	39·0	53·0	42·0	49·0	33·0	47·2	32·0

From the numbers in this table it will be seen how exceptionally warm were January 1st, January 22nd, February 17th, and March 1st, and how exceptionally cold were the days towards the end of March; in fact the minimum temperature of the former were generally higher than the maxima of the latter, whilst on these days the minima generally over the country were near 32°, and at many places were even several degrees lower.

The mean low night temperatures of the air were 1°·8, 3°·2, and 0°·8 respectively above their averages in January, February, and March. Therefore the days and nights were warm on the average throughout the quarter.

The mean daily ranges of temperature were 0°·6, 1°·6, and 1°·1 respectively below their averages in January, February, and March.

At Greenwich the atmospheric pressure in January was greater than in December by 0·116 in., in February greater than in January by 0·122 in., and in March less than in February by 0·211 in. (From the preceding 37 years' observations the mean pressure in January is less than in December by 0·043 in., that in February greater than in January by 0·045 in., and that in March less than in February by 0·057 in.) The mean increase of pressure from December to January over the whole country was pretty nearly the same everywhere, the mean from all stations being 0·125 in. The mean increase from January to February was from all stations 0·105 in.; the mean decrease from February to March was somewhat larger in the midland counties than in the southern or northern parts; the mean from all stations was 0·175 in.

The fall of rain was below its average in each month; the amount in the quarter was 3·0 ins., and back to 1815 there have been only four instances of so small an amount in these 3 months, viz.:—In the year 1820 it was 3·0 ins.; in 1829 it was 2·4 ins.; in 1850 it was 2·8 ins.; and in 1874 it was 2·4 ins.

Thunderstorms occurred on the 23rd of January at Torquay, and on the 24th of March at Liverpool and Llandudno.

1878. Months.	Temperature of Air. Mean.	Air. Diff. from average of 107 years.	Air. Diff. from average of 37 years.	Evaporation. Mean.	Evaporation. Diff. from average of 37 years.	Dew Point. Mean.	Dew Point. Diff. from average of 37 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 37 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 37 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 37 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.
Jan.	40·4	+3·9	+1·7	38·4	+1·2	36·0	+0·8	9·1	−0·6	41·3	0·212	+0·010	2·4	0·0
Feb.	42·2	+3·5	+2·9	40·5	+2·9	38·5	+3·5	9·7	−1·6	41·7	0·233	+0·027	2·7	+0·3
March	42·0	+0·9	+0·4	38·5	−0·8	34·3	−2·0	13·5	−1·1	46·5	0·198	−0·018	2·3	−0·2
Means	41·5	+2·8	+1·7	39·1	+1·1	36·3	+0·8	10·8	−1·1	43·2	0·214	+0·006	2·5	0·0

1878. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 37 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 37 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 37 years.	Rain. Amount.	Rain. Diff. from average of 63 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
Jan.	84	−3	29·979	+0·231	556	+ 3	0·9	−1·1	330	17	8	6	19·5	45·1
Feb.	87	+3	30·101	+0·308	556	+ 3	1·1	−0·4	219	6	18	4	19·7	45·0
March	75	−7	29·890	+0·154	552	+ 2	1·1	−0·5	348	16	8	7	13·5	48·0
Means	82	−2	29·990	+0·231	555	+ 3	Sum 3·1	Sum −2·0	Mean 299	Sum 39	Sum 34	Sum 17	Lowest 13·5	Highest 48·0

NOTE.—In reading this table it will be borne in mind that the plus sign (+) signifies *above* the average, and that the minus sign (−) signifies *below* the average.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter were as follows:—

Direction of Wind.	January. Average.	January. 1878.	January. Departure from Average.	February. Average.	February. 1878.	February. Departure from Average.	March. Average.	March. 1878.	March. Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	1½	4	+2½	2	1	−1	2¾	10	+7¼
N.	3	7	+4	3	4	+1	3¼	5	+1¾
N.E.	3½	2	−1½	3½	2	−1½	4	3	−1
E.	¾	0	− ¾	2	2	0	2½	2	− ½
S.E.	2½	1	−1½	1½	4	+2½	2	0	−2
S.	4½	4	− ½	3	4	+1	2½	1	−1½
S.W.	9½	9	− ½	8	6	−2	7¾	3	−4¾
W.	3½	3	− ½	2¼	4	+1¾	3½	6	+2½
Calm (nearly.)	2¼	1	−1¼	2½	1	−1½	2½	1	−1½

The plus sign (+) denotes excesses over averages; the largest numbers affected with this sign in the month of January are opposite to the N.W. and N., in February to the S.E. and W., and in March to the N.W. and W.

The minus sign (−) denotes defects below averages; the largest numbers affected with this sign in the month of January are opposite to the N.E. and S.E., in February to the N.E. and S.W., and in March to the S.E. and S.W.

Thunder was heard but lightning was not seen on the 20th of January at North Shields, and on the 24th and 25th at Hull; on the 26th of February at Strathfield Turgiss; and on the 25th of March at Carlisle.

Lightning was seen but thunder was not heard on the 25th of January at Guernsey, Carlisle, and North Shields, on the 26th at Stonyhurst, and on the 28th at Guernsey; on the 24th of March at Weybridge, Halifax, Hull, and Stonyhurst, on the 27th at North Shields, and on the 29th at Guernsey.

Solar halos were seen on 10 days during the quarter.

Lunar halos were seen on 4 nights in January, 7 nights in February, and 4 nights in March.

Auroræ Borealis was seen, once only, on the 25th of March at Carlisle.

Snow fell on 12 days in January, only 4 days in February, and on 14 days in March.

Hail fell on 31 days during the quarter, 15 days of which were in January, and 13 in March, and only 3 days in February.

Fog prevailed on 17 days during January, and it was pretty general all over the country; in February fog prevailed at one place or other on 21 days out of 28. There was but very little fog in March; it was recorded on the 1st at Helston, on the 5th at Carlisle, on the 20th at Plymouth, and on the 25th at Eccles.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING MARCH 31ST, 1878.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the sixth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1878. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.M.S.	204	Jan.	29·996	1·212	54·0	32·5	21·5	48·2	41·1	7·1	44·5	40·6	·253	2·9	0·5	87	551	–	–	1·6	8	4	7	12	4·5	7·1	14	2·58
		Feb.	30·059	0·863	54·5	31·5	23·0	48·4	40·9	7·5	44·4	42·2	·269	3·1	0·3	92	552	–	–	1·1	6	7	8	7	4·0	7·3	13	2·06
		Mar.	29·906	1·664	54·0	33·0	21·0	49·5	40·9	8·6	44·6	39·6	·244	2·8	0·6	83	549	–	–	1·5	11	5	4	11	5·6	5·3	15	1·57
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	Jan.	30·152	1·126	56·0	29·0	27·0	51·2	41·3	9·9	45·9	39·9	·247	2·8	0·8	80	552	54·2	37·3	1·8	10	4	7	10	4·5	6·7	9	2·17
		Feb.	30·160	0·976	57·0	33·0	24·0	51·3	42·4	8·9	46·2	41·5	·263	3·1	0·4	85	552	55·2	39·4	1·6	6	8	8	6	3·8	7·1	10	1·21
		Mar.	30·090	1·624	59·0	28·0	31·0	54·6	38·8	15·8	45·6	40·0	·248	2·8	0·7	82	552	62·4	36·0	2·4	12	5	5	9	6·1	4·5	10	1·77
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	Jan.	30·202	1·092	55·0	24·0	31·0	49·8	39·6	10·2	44·4	41·4	·260	3·0	0·4	89	555	–	–	2·4	12	2	7	10	–	7·6	17	2·63
		Feb.	30·222	0·823	57·0	27·0	30·0	50·1	40·5	9·6	45·0	41·5	·262	3·0	0·4	88	555	–	–	2·0	6	7	8	7	–	8·6	15	1·97
		Mar.	30·130	1·348	59·0	25·0	34·0	52·3	39·6	12·7	45·0	38·5	·233	2·7	0·7	78	553	–	–	2·8	14	3	3	11	–	6·5	12	1·66
PLYMOUTH (Devon), John Merrifield, Esq., F.R.A.S., F.M.S., LL.D.	69	Jan.	30·221	1·262	57·0	27·0	30·0	48·8	38·9	9·9	43·6	41·2	·260	3·0	0·3	91	556	–	37·5	1·2	9	4	7	11	–	7·6	19	2·19
		Feb.	30·266	0·946	54·5	30·5	24·0	49·2	40·1	9·1	44·7	41·5	·261	3·0	0·4	89	556	–	39·1	1·1	6	5	9	8	–	8·3	9	1·25
		Mar.	30·141	1·629	60·0	29·0	31·0	51·5	39·0	12·5	44·4	38·7	·236	2·7	0·6	80	554	–	37·5	1·3	11	5	4	11	–	6·4	11	1·33
BABBACOMBE, Torquay (Devon), Edwin E. Glyde, Esq., F.M.S.	305	Jan.	29·875	1·271	54·8	24·4	30·4	47·2	38·6	8·6	42·8	39·3	·240	2·8	0·4	87	551	80·3	32·5	1·4	9	2	6	14	3·2	6·9	12	1·85
		Feb.	29·937	1·031	57·5	32·2	25·3	48·3	40·4	7·9	44·2	40·9	·256	2·9	0·4	88	550	80·6	34·3	1·1	7	7	5	9	3·8	7·9	12	2·32
		Mar.	29·796	1·617	58·2	26·8	31·4	50·1	38·3	11·8	43·8	37·7	·226	2·6	0·7	78	548	109·8	31·0	1·4	13	3	2	13	3·2	6·3	9	2·13
VENTNOR (Royal National Hospital for Consumption), Isle of Wight, Hartley Sagar, Esq.	100	Jan.	30·103	1·220	57·7	30·9	26·8	48·7	39·3	9·4	43·5	39·4	·242	2·8	0·5	85	554	–	–	–	7	6	4	14	7·0	6·5	15	1·90
		Feb.	30·201	0·836	58·8	30·5	28·3	50·0	40·5	9·5	44·2	41·6	·263	3·0	0·3	91	555	–	–	–	5	9	5	8	7·0	7·9	15	2·15
		Mar.	30·021	1·500	61·4	29·6	31·8	52·4	39·2	13·2	44·2	39·0	·238	2·7	0·6	81	552	–	–	–	12	4	3	12	6·9	7·0	9	2·39
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	Jan.	29·990	1·212	54·4	24·8	29·6	45·9	35·8	10·1	40·9	38·7	·235	2·7	0·2	92	555	63·8	34·3	0·3	11	1	5	14	–	6·4	10	1·18
		Feb.	30·035	0·870	59·4	27·2	32·2	47·8	38·1	9·7	42·6	41·3	·260	3·0	0·1	95	555	72·5	36·2	0·2	6	5	13	4	–	8·0	13	2·26
		Mar.	29·903	1·476	56·1	25·3	30·8	50·1	36·9	13·2	42·6	38·7	·235	2·7	0·5	86	552	93·6	34·0	0·7	13	2	4	12	–	6·9	8	1·11
SOUTH BOURNE, near Bournemouth, (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	128	Jan.	30·067	1·200	54·1	25·0	29·1	46·2	37·6	8·6	41·8	38·4	·234	2·7	0·4	89	556	–	–	–	16	3	4	14	–	5·5	14	1·42
		Feb.	30·164	0·850	54·1	25·0	29·1	48·8	38·4	10·4	43·1	40·9	·256	2·9	0·3	92	556	–	–	–	9	6	5	8	–	6·0	11	1·28
		Mar.	29·990	1·560	57·7	25·0	32·7	49·7	37·1	12·6	43·0	37·3	·223	2·6	0·6	81	553	–	–	–	15	3	2	11	–	4·6	12	1·77
BRIGHTON (Sussex), F. E. Sawyer, Esq., F.M.S.	206	Jan.	29·960	1·310	52·2	26·6	25·6	44·2	35·8	8·4	40·2	36·5	·216	2·5	0·4	87	555	–	32·5	0·8	12	4	4	11	–	6·6	12	1·85
		Feb.	30·091	0·914	51·8	27·0	24·8	45·9	38·7	7·2	42·1	39·7	·244	2·8	0·3	91	555	–	35·7	0·5	6	6	9	7	–	8·0	10	1·96
		Mar.	29·865	1·537	56·5	25·5	31·0	48·0	36·4	11·6	41·8	36·2	·215	2·5	0·6	82	552	–	33·2	1·0	15	4	4	8	–	7·9	11	1·35
SALISBURY (Wilton House), T. Challis, Esq.	186	Jan.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	12	1·72
		Feb.	30·077	0·912	58·0	21·5	36·5	48·2	34·7	13·5	41·6	39·4	·242	2·8	0·2	93	556	68·8	33·8	1·1	8	4	7	9	–	8·7	18	2·34
		Mar.	29·890	1·476	60·0	23·0	37·0	52·0	33·9	18·1	42·4	38·9	·237	2·7	0·4	87	552	90·5	32·6	1·5	15	2	1	13	–	7·0	13	1·51
BARNSTAPLE (Devon), William Knile, Esq.	43	Jan.	30·159	1·280	56·0	27·0	29·0	48·3	39·5	8·8	43·7	39·6	·244	2·8	0·5	86	555	–	–	1·2	9	2	8	12	–	5·8	19	2·92
		Feb.	30·199	1·039	62·0	28·0	34·0	50·0	40·1	9·9	44·9	41·2	·259	3·0	0·4	87	554	–	–	1·2	4	8	11	5	–	6·6	14	2·23
		Mar.	30·101	1·430	58·0	29·0	29·0	51·5	40·8	10·7	45·3	38·8	·237	2·7	0·7	78	552	–	–	1·3	10	4	5	12	–	5·8	11	1·51
BATH (St. Gregory's College, Downside, Somerset), Rev. F. A. Gasquet, O.S.B.	596	Feb.	29·611	0·928	57·7	24·8	32·9	46·2	37·1	9·1	41·4	38·7	·235	2·7	0·3	91	547	–	32·2	1·1	5	5	12	6	–	8·8	11	2·66
		Mar.	29·425	1·398	54·5	25·2	29·3	45·3	34·8	10·5	40·2	35·6	·209	2·4	0·5	84	546	95·1	–	1·6	10	1	6	14	–	6·5	9	2·52

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1878. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
CATERHAM (Surrey), James Adam, Esq., M.D.	608	Jan.	29·458	1·200	52·0	25·0	27·0	44·3	35·0	9·3	39·5	36·5	·216	2·5	0·3	90	547	–	32·3	4·4	8	3	9	11	0·0	3·7	13	1·57
		Feb.	29·591	0·800	55·0	27·0	28·0	44·3	36·2	8·1	40·9	38·5	·233	2·8	0·2	91	548	–	33·2	4·2	5	3	10	10	0·0	3·5	13	1·67
		Mar.	29·397	1·500	55·0	24·0	31·0	47·3	34·3	13·0	41·3	37·0	·221	2·6	0·5	85	544	–	32·2	4·5	14	8	2	7	0·5	4·1	7	1·06
RAMSGATE (Kent), Rev. E. Douglas O'Gara, O.S.B.	108	Jan.	30·033	1·391	53·0	28·2	24·8	44·5	35·8	8·7	40·4	36·3	·214	2·5	0·5	85	557	67·3	31·8	1·6	5	6	8	12	–	6·9	12	1·90
		Feb.	30·159	0·909	55·3	25·9	29·4	48·4	38·3	10·1	42·6	40·2	·230	2·9	0·3	91	556	76·9	34·2	1·0	6	6	8	8	–	7·6	18	1·20
		Mar.	29·916	1·318	57·2	27·8	29·4	48·3	37·4	10·9	42·1	36·3	·215	2·5	0·6	81	553	89·3	32·0	1·7	7	3	4	17	–	6·3	16	2·12
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	Jan.	29·956	1·256	54·4	22·1	32·3	45·3	35·3	10·0	40·4	36·5	·216	2·5	0·4	87	555	61·8	31·0	0·6	6	4	7	14	0·9	6·4	12	1·09
		Feb.	30·063	0·960	59·2	23·4	35·8	47·6	36·8	10·8	42·0	38·9	·237	2·7	0·4	89	555	74·3	32·1	0·5	5	5	10	8	1·4	8·0	12	1·61
		Mar.	29·880	1·437	59·1	24·0	35·1	51·0	35·6	15·4	42·5	35·6	·209	2·4	0·7	78	552	97·0	30·2	0·7	11	4	3	13	1·2	7·4	8	1·19
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	Jan.	30·031	1·334	55·0	23·0	32·0	44·7	35·3	9·0	39·9	35·4	·207	2·4	0·5	84	557	53·7	31·3	0·9	5	3	12	11	0·9	7·0	15	1·08
		Feb.	30·139	0·925	59·5	23·2	36·3	47·2	36·4	10·8	41·9	38·3	·233	2·7	0·4	88	557	61·6	33·1	0·7	4	5	14	5	1·6	8·4	11	1·23
		Mar.	29·927	1·443	60·0	22·8	37·2	50·3	34·5	15·8	41·9	36·3	·216	2·5	0·6	82	553	79·9	30·9	1·2	13	4	6	8	1·0	6·9	9	1·00
MARLBOROUGH, The Green (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	474	Jan.	29·647	1·280	54·7	25·3	29·4	45·0	35·6	9·4	40·0	37·9	·228	2·6	0·3	93	550	65·3	28·9	0·5	6	2	5	18	–	7·5	16	1·90
		Feb.	29·748	0·925	57·7	24·8	32·9	46·8	37·4	9·4	41·5	39·3	·241	2·8	0·2	93	550	70·7	31·8	0·3	5	4	8	11	–	8·5	13	1·59
		Mar.	29·367	1·442	56·7	24·3	32·4	49·2	34·6	14·6	41·2	36·7	·218	2·5	0·5	84	547	95·1	26·9	0·8	11	2	2	16	–	7·1	11	1·76
BLACKHEATH (London), James Glaisher, Esq., F.R.S.	160	Jan.	29·980	1·320	57·3	26·1	31·2	45·3	35·7	9·6	40·6	36·5	·216	2·5	0·5	86	555	64·1	32·9	0·7	10	2	9	10	–	7·6	11	1·01
		Feb.	30·096	0·925	61·2	25·1	36·1	47·6	37·3	10·3	42·4	38·9	·237	2·7	0·4	88	555	70·8	33·6	0·4	6	5	9	8	–	7·7	11	1·12
		Mar.	29·887	1·465	58·0	25·9	32·1	49·9	36·4	13·5	42·4	36·0	·212	2·5	0·7	79	552	83·9	31·4	1·0	11	4	3	13	–	7·2	9	0·96
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.S., F.M.S.	150	Jan.	30·003	1·238	56·5	23·3	33·2	46·2	36·9	9·3	41·7	37·9	·228	2·6	0·4	87	554	–	–	1·1	8	4	7	12	–	6·7	16	1·48
		Feb.	30·124	0·833	60·2	23·7	36·5	47·4	37·9	9·5	42·6	40·6	·254	3·0	0·2	93	556	–	–	0·9	4	6	8	10	–	8·5	13	1·57
		Mar.	29·927	1·385	60·2	24·0	36·2	51·5	36·7	14·8	43·5	38·0	·229	2·6	0·6	82	551	–	–	1·9	13	5	3	10	–	7·1	10	0·85
CHISWICK (Middlesex), Thomas R. Sim.	25	Jan.	30·058	1·280	56·0	23·0	33·0	46·6	35·0	11·6	40·8	37·9	·228	2·8	0·3	90	557	64·0	30·0	1·0	8	5	4	14	–	7·8	9	1·04
		Feb.	30·212	0·826	56·0	24·0	32·0	48·1	35·8	12·3	42·2	38·9	·237	2·7	0·4	89	558	69·3	–	0·0	4	6	8	10	–	8·7	8	1·26
		Mar.	30·012	1·600	59·0	22·0	37·0	51·1	34·6	16·5	42·4	37·1	·221	2·6	0·6	86	556	89·5	31·7	1·2	7	4	3	17	–	7·7	5	1·01
CAMDEN SQUARE (London), G. J. Symons, Esq., F.M.S.	123	Jan.	30·018	1·348	55·6	26·9	28·7	45·2	35·5	9·7	40·5	37·1	·220	2·5	0·4	88	556	59·9	32·1	–	13	3	5	10	–	7·1	15	1·31
		Feb.	30·132	1·000	59·7	25·7	34·0	47·7	37·7	10·0	42·7	39·0	·237	2·7	0·4	86	556	64·2	34·1	–	7	4	8	9	–	8·0	11	1·49
		Mar.	29·923	1·468	58·0	26·4	31·6	51·0	36·3	14·7	42·9	36·3	·214	2·5	0·7	78	552	86·2	31·8	–	14	2	1	14	–	7·0	10	1·12
OXFORD OBSERVATORY, Rev. R. Main, M.A., F.R.S., F.R.A.S.	210	Jan.	29·929	1·202	56·4	25·1	31·3	45·5	36·7	8·8	41·2	37·8	·228	2·6	0·4	88	554	–	33·6	0·7	7	4	6	14	1·6	8·1	21	1·52
		Feb.	30·019	0·938	57·9	25·1	32·8	47·3	39·1	8·2	43·0	39·7	·245	2·8	0·4	88	553	–	35·8	0·5	5	5	10	8	0·6	8·6	17	1·35
		Mar.	29·840	1·472	58·1	26·0	32·1	49·0	36·0	13·0	42·5	35·1	·206	2·4	0·6	76	551	93·3	32·0	0·7	12	3	3	13	2·4	7·9	10	0·78
GLOUCESTER ASYLUM, E. Toller, Esq., M.D.	100	Jan.	30·058	1·200	54·5	21·0	33·5	47·2	34·4	12·8	41·2	39·4	·243	2·8	0·2	93	556	62·9	–	0·4	8	5	4	14	0·5	7·6	16	1·06
		Feb.	30·150	0·948	62·0	20·5	41·5	49·1	34·9	14·2	42·0	40·2	·249	2·9	0·2	95	557	85·2	–	0·3	5	4	7	12	0·1	8·3	10	1·62
		Mar.	30·053	1·388	61·5	20·0	41·5	51·3	33·2	18·1	41·9	36·7	·219	2·5	0·6	83	555	97·3	–	0·6	12	7	4	8	1·2	7·1	9	0·84
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	Jan.	29·852	1·240	56·0	24·1	31·9	44·9	33·7	11·2	39·3	36·1	·213	2·5	0·3	89	554	–	–	–	8	3	8	12	–	7·4	15	1·66
		Feb.	29·983	0·954	58·6	25·7	32·9	47·5	35·3	12·2	41·8	38·2	·229	2·7	0·4	87	554	–	–	–	4	2	11	11	–	7·3	13	1·11
		Mar.	29·775	1·417	58·7	22·6	36·1	49·9	33·9	16·0	41·2	34·7	·201	2·3	0·7	78	551	–	–	–	12	3	3	13	–	7·1	9	1·03
CARDINGTON (near Bedford), Mr. J. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	105	Jan.	30·029	1·290	56·6	24·0	32·6	44·6	33·8	10·8	39·4	36·2	·214	2·5	0·4	89	558	47·7	30·2	1·1	10	1	5	15	–	6·9	13	1·20
		Feb.	30·147	0·830	58·6	26·0	32·6	47·7	36·1	11·6	41·8	39·4	·242	2·9	0·2	92	557	57·4	32·1	0·5	2	2	10	14	–	8·1	9	1·35
		Mar.	29·942	1·400	59·4	23·6	35·8	49·7	35·2	14·5	41·8	33·5	·193	2·2	0·8	74	553	74·2	29·7	1·9	16	3	1	11	–	6·6	9	0·48
CAMBRIDGE (Trinity College), J. W. L. Glaisher, Esq., M.A., F.R.S.	40	Jan.	30·065	1·300	58·0	21·2	36·8	45·1	35·6	9·5	40·3	37·3	·223	2·6	0·4	90	557	70·0	30·0	1·2	8	3	9	11	–	7·1	19	1·33
		Feb.	30·200	0·816	60·8	27·5	33·3	48·7	37·6	11·1	42·8	38·8	·236	2·7	0·5	86	558	76·5	31·6	0·8	4	3	11	10	–	7·2	15	1·09
		Mar.	29·983	1·418	60·8	24·3	36·5	50·4	35·7	14·7	42·2	35·7	·210	2·4	0·7	79	554	102·0	31·0	1·4	11	3	3	14	–	6·8	16	0·94

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1878. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satr. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	50	Jan.	30·070	1·390	56·2	20·8	35·4	44·3	33·3	11·0	39·0	38·1	·230	2·7	0·2	96	559	–	–	1·0	7	5	7	12	7·1	6·7	22	1·68
		Feb.	30·216	0·770	59·7	28·0	31·7	48·5	36·2	12·3	42·9	41·6	·263	3·0	0·1	98	558	–	–	0·9	5	3	9	11	7·3	7·8	11	1·15
		Mar.	29·947	1·502	58·7	23·0	35·7	49·4	35·0	14·4	41·7	38·3	·231	2·7	0·4	89	553	–	–	1·2	11	5	3	12	8·4	6·5	19	1·67
NORWICH (Norfolk), John Quinton, Esq., Jun.	42	Jan.	30·056	1·398	56·5	27·0	29·5	44·3	36·2	8·1	40·0	38·6	·234	2·7	0·2	95	557	–	–	–	6	2	6	17	–	–	16	1·69
		Feb.	30·205	0·926	57·5	28·0	29·5	47·3	38·6	8·7	42·5	40·3	·250	2·9	0·2	92	557	–	–	–	4	2	12	10	–	–	7	0·90
		Mar.	29·962	1·486	58·8	28·2	30·6	48·5	37·1	11·4	41·8	38·2	·231	2·7	0·4	88	554	–	–	–	8	1	4	18	–	–	16	0·65
WROTTESLEY, WOLVERHAMPTON (Stafford), E. Simpson, Esq.	500	Jan.	–	–	54·5	20·8	33·7	44·6	34·4	10·2	39·5	36·5	·216	2·5	0·3	90	–	–	–	–	8	3	7	13	–	8·5	16	1·96
		Feb.	–	–	52·7	24·0	28·7	44·4	34·5	9·9	39·4	37·8	·228	2·7	0·2	94	–	–	–	–	5	4	12	7	–	9·3	12	1·05
		Mar.	29·517	1·262	56·5	22·9	33·6	47·5	34·6	12·9	40·2	35·2	·205	2·4	0·5	83	547	–	–	–	13	3	4	11	–	7·8	10	0·70
LEICESTER (Town Museum), W. J. Harrison, Esq., F.G.S.	245	Jan.	29·831	1·230	55·9	26·0	29·9	44·7	36·3	8·4	40·6	36·5	·216	2·5	0·5	86	553	60·8	29·7	1·2	9	3	7	12	–	7·1	20	1·59
		Feb.	29·984	0·978	59·2	25·5	33·7	47·0	37·2	9·8	41·7	37·6	·228	2·6	0·5	87	554	62·7	30·1	0·5	4	4	12	8	–	7·2	13	1·24
		Mar.	29·780	1·463	56·8	26·0	30·8	48·2	36·2	12·0	41·8	35·2	·208	2·4	0·7	79	551	89·0	28·4	1·0	12	3	5	11	–	7·2	13	0·77
NOTTINGHAM (Notts), M.O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	183	Jan.	29·904	1·226	55·7	25·1	30·6	45·2	34·9	10·3	40·0	37·7	·226	2·6	0·3	92	554	57·9	32·2	0·3	8	3	6	14	1·6	7·1	23	2·00
		Feb.	30·034	0·764	59·8	22·0	37·8	47·5	35·4	12·1	41·0	38·7	·235	2·7	0·3	92	556	66·1	33·0	0·3	4	5	11	8	1·5	7·8	13	0·98
		Mar.	29·857	1·232	59·4	22·0	37·4	50·0	35·0	15·0	41·8	37·3	·225	2·6	0·5	86	552	85·3	32·4	0·5	15	2	2	12	2·0	6·2	13	0·59
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	39	Jan.	30·027	1·368	55·4	20·2	35·2	44·0	33·1	10·9	39·0	35·8	·210	2·4	0·4	89	558	59·2	27·2	1·6	7	2	10	12	–	7·0	19	1·43
		Feb.	30·178	0·774	59·2	23·9	35·3	46·0	35·3	10·7	41·0	38·7	·235	2·7	0·3	92	558	73·9	29·2	1·2	2	2	12	12	–	7·4	9	1·00
		Mar.	29·940	1·452	58·0	20·8	37·2	48·6	35·1	13·5	41·5	35·0	·204	2·4	0·7	78	554	96·8	28·8	2·2	11	2	5	13	–	6·9	11	0·90
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	100	Jan.	30·015	1·170	57·9	28·0	29·9	47·5	39·6	7·9	43·6	38·4	·232	2·7	0·5	81	553	–	–	1·0	6	3	5	17	–	7·1	18	2·71
		Feb.	30·084	0·980	63·4	29·3	34·1	49·1	39·8	9·3	44·2	41·6	·263	3·0	0·3	91	553	–	–	0·5	4	4	8	12	–	7·3	11	1·13
		Mar.	29·967	1·450	55·2	31·4	23·8	49·1	39·6	9·5	44·0	37·5	·224	2·6	0·7	77	551	–	–	1·0	11	5	1	14	–	7·1	15	1·85
KELSTERN GRANGE, near Louth (Lincolnshire), D. Grant Briggs, Esq., F.M.S.	393	Jan.	29·654	1·326	53·9	22·8	31·1	42·0	33·8	8·2	37·6	36·2	·213	2·5	0·1	94	552	67·9	29·8	1·0	8	3	6	14	6·5	6·4	24	2·38
		Feb.	29·786	0·956	56·1	27·1	29·0	45·8	35·3	10·5	40·0	37·9	·228	2·7	0·3	93	552	73·9	31·6	0·8	4	2	11	11	6·5	6·3	16	1·69
		Mar.	29·580	1·491	57·0	25·9	31·1	47·4	34·1	13·3	39·9	37·4	·224	2·6	0·3	91	549	98·4	30·2	1·1	11	3	2	15	7·8	6·3	18	1·54
LIVERPOOL OBSERVATORY, John Hartnup, Esq., F.R.A.S.	197	Jan.	29·889	1·260	55·7	27·0	28·7	45·5	37·8	7·7	41·3	38·3	·232	2·7	0·4	90	553	–	–	1·4	7	3	7	14	–	7·2	20	2·82
		Feb.	29·989	1·002	61·9	28·2	33·7	46·2	38·2	8·0	41·8	38·2	·231	2·7	0·4	88	554	–	–	0·9	3	8	8	9	–	8·1	13	0·39
		Mar.	29·843	1·456	56·2	30·0	26·2	47·1	38·8	8·3	42·0	36·2	·214	2·4	0·8	81	551	–	–	1·4	8	4	3	16	–	7·0	14	1·64
ECCLES (near Manchester), T. Mackereth, Esq., F.M.S., F.R.A.S.	145	Jan.	29·949	1·240	55·4	19·3	36·1	44·5	33·7	10·8	39·6	36·2	·214	2·5	0·4	88	556	45·6	27·5	0·5	10	4	4	13	2·2	7·9	21	3·36
		Feb.	30·058	0·960	60·4	22·1	38·3	46·2	34·2	12·0	40·7	36·9	·219	2·5	0·4	86	557	50·1	28·3	0·1	4	4	11	9	1·3	7·1	13	1·44
		Mar.	29·894	1·472	56·7	22·9	33·8	48·6	33·4	15·2	41·0	35·8	·210	2·4	0·6	82	553	57·9	27·0	0·6	14	3	3	11	2·9	6·9	14	1·57
BERMERSIDE OBSERVATORY, HALIFAX (Yorkshire), E. J. Crossley, Esq., F.R.A.S.	520	Jan.	29·522	1·567	52·8	28·3	24·5	42·4	35·3	7·1	38·6	33·4	·192	2·2	0·5	83	549	61·3	31·5	0·6	6	4	7	14	–	7·5	18	4·05
		Feb.	29·643	0·910	59·6	28·5	31·1	45·7	36·8	8·9	40·6	37·9	·228	2·7	0·3	95	549	65·4	32·4	0·4	2	4	9	13	–	8·0	9	1·23
		Mar.	29·472	1·370	59·0	27·0	32·0	47·2	34·7	12·5	39·9	36·1	·212	2·5	0·4	86	547	81·3	31·3	0·8	8	3	6	14	–	6·8	9	2·02
HULL (Yorkshire), Mr. E. Peake.	12	Jan.	30·045	1·234	56·0	23·0	33·0	43·0	34·7	8·3	39·5	35·4	·209	2·4	0·4	86	558	51·1	32·7	–	–	–	–	–	2·9	–	18	2·60
		Feb.	30·189	0·990	58·0	27·0	31·0	47·1	36·2	10·9	41·8	37·1	·223	2·6	0·5	85	558	57·3	34·6	–	–	–	–	–	0·6	–	10	1·28
		Mar.	29·982	1·500	59·0	26·0	33·0	49·0	35·3	13·7	41·7	35·7	·209	2·4	0·6	80	554	73·7	33·8	–	–	–	–	–	3·8	–	14	1·30
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.S., F.M.S., F.R.A.S.	363	Jan.	29·688	1·236	53·3	23·0	30·3	44·5	34·2	10·3	39·5	36·5	·217	2·5	0·3	90	551	64·3	31·4	1·6	4	1	8	18	–	7·4	21	5·09
		Feb.	29·799	0·996	57·9	27·2	30·7	46·4	34·6	11·8	40·5	37·6	·225	2·6	0·3	90	552	68·5	32·8	1·0	3	2	13	10	–	8·4	20	2·11
		Mar.	29·637	1·505	57·1	22·1	35·0	47·5	32·3	15·2	40·1	35·1	·204	2·4	0·5	83	550	101·6	30·4	2·0	6	3	3	19	–	7·3	13	2·68
LEEDS (Philosophical Hall) (Yorkshire), H. Crowther, Esq.	137	Jan.	29·932	1·240	57·0	25·0	32·0	44·8	35·6	9·2	41·0	34·9	·202	2·4	0·6	79	554	50·0	–	1·5	7	4	5	15	–	4·6	17	2·50
		Feb.	30·069	0·941	57·0	29·0	28·0	48·3	37·3	11·0	43·0	36·1	·213	2·5	0·7	77	555	52·0	–	1·3	5	4	5	14	–	5·0	8	1·08
		Mar.	29·870	1·352	60·0	25·0	35·0	50·5	35·5	15·0	42·7	33·4	·192	2·2	0·9	71	551	65·1	–	1·7	8	4	4	15	–	4·5	9	0·52
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	366	Jan.	29·693	1·250	53·7	25·0	28·7	43·9	36·6	7·3	40·2	36·5	·216	2·5	0·4	87	551	50·0	–	1·0	9	3	7	12	–	7·5	20	3·54
		Feb.	29·810	0·940	58·6	28·4	30·2	45·2	37·6	7·6	41·4	36·7	·218	2·5	0·5	84	551	53·4	–	1·0	7	2	9	10	–	8·3	8	1·07
		Mar.	29·645	1·316	56·6	26·9	29·7	48·1	36·7	11·4	41·7	35·4	·206	2·4	0·7	79	548	65·4	–	1·3	12	1	2	16	–	6·9	14	1·16

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1878. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satr. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.R.A.S., F.M.S.	146	Jan.	29·875	1·263	52·1	22·8	29·3	44·3	36·2	6·1	39·9	36·9	·221	2·6	0·3	90	554	50·2	29·1	0·3	9	5	8	9	3·9	7·0	22	4·44
		Feb.	30·000	1·014	58·4	25·6	32·8	46·3	37·6	8·7	41·6	38·0	·229	2·6	0·4	88	554	65·6	30·1	0·4	6	4	9	9	3·0	7·8	14	2·03
		Mar.	29·864	1·519	58·0	23·0	35·0	47·2	35·2	12·0	41·0	35·4	·206	2·4	0·6	81	553	75·0	27·1	0·5	9	8	6	8	3·3	6·4	15	2·65
ALLENHEADS (Northumberland), Mr. T. Kidd, Assistant to W. B. Beaumont, Esq., M.P.	1360	Jan.	28·585	1·214	–	18·4	–	–	29·3	–	–	–	–	–	–	–	–	60·0	–	1·0	–	–	–	–	–	6·6	21	5·04
		Feb.	28·680	0·915	–	21·4	–	–	31·9	–	–	–	–	–	–	–	–	66·1	–	0·8	–	–	–	–	–	7·3	12	1·82
		Mar.	28·566	1·281	–	15·5	–	–	30·1	–	–	–	–	–	–	–	–	77·0	–	1·1	–	–	–	–	–	5·7	11	2·32
SILLOTH RECTORY (Cumberland), Rev. Francis Redford, M.A., F.R.A.S., F.M.S.	28	Jan.	30·018	1·279	51·9	23·7	29·2	45·5	35·1	10·4	39·9	36·4	·216	2·5	0·4	88	557	63·4	31·6	1·1	5	5	4	17	8·9	5·6	17	4·24
		Feb.	30·107	1·028	59·1	26·6	32·5	47·2	37·5	9·7	42·0	38·7	·235	2·7	0·4	88	556	62·2	33·6	1·3	4	3	8	13	8·4	7·0	13	2·39
		Mar.	29·997	1·586	64·3	25·1	39·2	50·6	35·1	15·5	42·0	36·4	·216	2·5	0·6	82	554	78·9	30·7	1·4	10	4	3	14	8·9	4·4	10	1·07
CARLISLE (Cumberland), Isaac Cartmell, Esq., F.M.S.	114	Jan.	29·927	1·336	54·2	22·7	31·5	44·5	32·6	11·9	38·6	35·3	·207	2·3	0·4	88	557	54·6	28·2	1·5	7	4	8	12	5·6	6·7	21	3·00
		Feb.	30·028	0·990	54·9	26·3	28·6	46·8	37·7	9·1	41·6	38·4	·233	2·7	0·4	90	555	60·5	32·4	1·2	4	6	8	10	5·1	8·3	13	1·79
		Mar.	29·894	1·502	58·3	23·0	35·3	48·2	32·8	15·4	40·2	34·3	·199	2·3	0·6	80	555	78·7	28·0	2·3	8	1	4	18	6·6	6·2	12	1·21
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	Jan.	29·908	1·270	54·0	24·0	30·0	44·6	35·4	9·2	39·7	34·4	·198	2·3	0·6	81	555	52·3	28·7	1·4	7	4	5	15	–	6·3	21	4·00
		Feb.	30·022	1·008	56·0	29·0	27·0	48·9	38·1	10·8	42·4	36·2	·214	2·5	0·7	80	554	59·5	32·6	1·3	6	2	6	14	–	5·8	10	1·24
		Mar.	29·856	1·418	60·0	29·0	31·0	50·1	37·2	12·9	41·8	35·5	·209	2·4	0·6	79	552	64·8	31·2	1·6	11	5	1	14	–	5·1	16	1·32
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	Jan.	29·966	1·435	53·0	23·0	30·0	43·2	34·3	8·9	38·5	34·9	·203	2·3	0·4	87	558	–	33·4	1·8	11	3	4	13	–	6·7	25	2·99
		Feb.	30·102	1·001	55·0	30·2	24·8	46·2	36·8	9·4	41·4	37·6	·226	2·6	0·4	87	557	–	35·4	1·3	7	2	5	14	–	7·1	15	0·96
		Mar.	29·900	1·583	57·0	26·4	30·6	47·1	35·7	11·4	40·4	35·6	·209	2·4	0·5	84	554	–	34·5	2·1	13	6	1	11	–	6·0	15	1·17
WARINGSTOWN, CO. DOWN, (Ireland), Thomas Waring, Esq.	191	Jan.	29·821	1·144	55·0	24·0	31·0	45·7	33·5	12·2	39·7	37·6	·226	2·7	0·2	93	553	59·2	29·7	2·4	4	3	9	15	–	5·4	24	4·26
		Feb.	29·869	1·130	57·0	28·0	29·0	48·8	38·3	10·5	43·0	40·1	·249	2·8	0·4	90	551	66·8	36·3	2·6	2	4	10	12	–	5·4	17	1·81
		Mar.	29·808	1·350	55·0	27·0	28·0	50·3	36·0	14·3	42·3	38·8	·236	2·7	0·4	88	550	80·1	32·9	2·8	9	2	4	16	–	4·9	18	1·88
EASTBOURNE (Sussex). Miss Lizzie Hood for Miss W. L. Hall.	12	1877. Jan	–	–	56·2	28·3	27·9	50·4	38·7	11·7	45·1	41·0	·257	2·9	0·5	86	–	67·0	31·7	–	6	3	9	13	2·2	–	29	7·53
		Feb.	29·856	1·206	54·2	25·7	28·5	49·3	40·1	9·2	44·9	41·5	·261	3·0	0·4	88	548	77·0	33·7	–	10	0	2	16	2·9	–	20	2·52
		Mar.	29·709	1·416	57·6	26·1	31·5	49·1	36·0	13·1	42·1	38·5	·234	2·7	0·4	88	549	89·9	28·8	–	9	6	5	11	2·0	–	19	2·61
		Apr.	29·681	1·030	61·0	33·8	27·2	55·2	41·4	13·8	47·1	42·0	·267	3·1	0·6	85	542	106·4	34·2	–	4	13	8	5	2·4	–	17	1·99
		May	29·836	0·790	65·7	29·3	36·4	59·8	43·0	16·8	50·2	44·0	·288	3·3	0·8	80	542	116·0	35·8	–	6	7	9	9	3·9	–	14	2·03
		June	29·953	0·758	78·7	46·0	32·7	72·6	51·6	21·0	60·7	54·6	·426	4·8	1·2	81	532	125·9	44·7	–	2	7	9	12	2·0	–	8	1·57
		July	29·895	1·020	82·6	47·2	35·4	70·1	53·7	16·4	60·7	55·1	·435	4·8	1·0	81	531	112·3	46·4	–	4	1	6	20	2·7	–	12	2·31
		Aug.	29·844	0·668	77·3	39·6	37·7	70·2	55·8	14·4	62·0	55·3	·439	4·8	1·4	80	529	123·4	49·1	–	–	–	–	–	–	–	16	3·01
		Sept.	29·982	0·588	69·2	38·0	31·2	63·5	47·1	16·4	54·9	48·0	·335	3·8	1·0	83	539	113·9	39·9	–	–	–	–	–	–	–	7	1·09
		Oct.	29·971	1·372	64·3	27·7	36·6	58·4	44·0	14·4	50·6	44·5	·294	3·4	0·8	80	544	98·4	36·2	–	8	5	3	15	2·1	–	15	3·48
		Nov.	29·676	1·584	60·2	32·0	28·2	54·0	42·5	11·5	48·3	44·5	·295	3·3	0·5	87	541	–	–	–	3	0	8	19	2·3	–	24	8·76
		Dec.	29·988	1·428	53·7	27·7	26·0	47·2	37·2	10·0	42·8	38·5	·233	2·7	0·5	85	553	–	–	–	12	3	4	12	0·8	–	18	2·92

Rainfall on Beachy Head—

	Above sea level – 515 feet.	495 feet.		Above sea level – 515 feet.	495 feet.		Above sea level – 515 feet.	495 feet.
1877, January – –	6·26 inches.	6·90 inches.	1877, May – – –	1·55 inches.	1·80 inches.	1877, September – –	0·80 inches.	1·04 inches.
February – –	1·78 "	1·25 "	June – – –	1·21 "	1·53 "	October – –	2·34 "	2·52 "
March – – –	1·85 "	2·30 "	July – – –	1·57 "	2·05 "	November – –	6·13 "	6·71 "
April – – –	1·57 "	1·74 "	August – – –	2·26 "	2·58 "	December – –	1·89 "	2·30 "

NOTE.—*The Barometer Reading,* CATERHAM, 24th Mar., 9h. a.m., 29·85 in., has been altered to 28·85 in.
" " PLYMOUTH, 30th " 7h.45m.a.m., 30·475 in., " 29·475 in.

CHISWICK.—The readings of the minimum thermometer on 21st Jan., 53° has been altered to 48°.
MARLBOROUGH.— " " 29th Mar., 21°·1 " 31°·1.

Second Rain-gauges are placed—

				January.	February.	March.	Total during the Quarter.
At Strathfield Turgiss, at the height of 38 feet *above the ground*, the amount collected was				0·80 inches.	1·08 inches.	0·80 inches.	2·68 inches.
" Oxford,	"	22 feet	"	1·37 "	1·27 "	0·57 "	3·21 "
" Cardington,	"	36 feet	"	0·85 "	1·25 "	0·35 "	2·45 "
" Nottingham,	"	39 feet	"	1·87 "	0·98 "	0·54 "	3·39 "
" Holkham,	"	4 feet	"	1·32 "	0·89 "	0·86 "	3·07 "
" Eccles,	"	34 feet	"	2·62 "	1·15 "	1·28 "	5·05 "

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey - - -	29·958	54·5	31·5	23·0	48·7	41·0	21·8	7·7	44·5	40·8	·255	2·9	0·5	87	551	–	–	1·4	8	5	6	10	4·7	6·6	42	6·21
Helston - - -	29·998	59·0	28·0	31·0	52·4	40·8	27·3	11·6	45·9	40·5	·253	2·9	0·6	82	552	57·3	37·2	1·9	9	6	7	8	4·8	6·1	29	5·13
Truro - - -	29·980	59·0	24·0	35·0	50·7	39·9	31·7	10·8	44·8	40·5	·252	2·9	0·5	85	554	–	–	2·4	11	4	6	9	–	7·6	44	6·26
Plymouth - - -	30·034	50·0	27·0	33·0	49·8	39·3	28·3	10·5	44·2	40·5	·252	2·9	0·4	87	555	–	38·0	1·2	9	5	7	10	–	7·4	39	4·77
Torquay - - -	29·966	58·2	24·4	33·8	48·5	39·1	29·0	9·4	43·6	39·3	·241	2·8	0·5	84	550	99·2	32·6	1·3	10	4	4	12	3·4	7·0	33	6·20
Ventnor - - -	29·971	61·4	29·6	31·8	50·4	39·7	29·0	10·7	44·0	40·0	·248	2·8	0·5	86	554	–	–	–	8	6	4	11	7·0	7·1	39	6·44
Osborne - - -	29·944	59·4	24·8	34·6	47·9	36·9	30·9	11·0	42·0	39·6	·243	2·8	0·3	91	554	73·6	34·8	0·4	10	3	7	10	–	7·1	31	4·85
Bournemouth - -	29·978	57·7	25·0	32·7	48·2	37·7	30·3	10·5	42·6	38·9	·233	2·7	0·4	87	555	–	–	–	11	4	4	11	–	5·4	37	4·47
Brighton - - -	29·970	56·6	25·5	31·1	48·0	37·0	27·2	9·0	41·4	37·5	·225	2·6	0·4	87	554	–	33·8	0·8	11	5	6	9	–	7·5	33	5·15
Salisbury - - -	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	43	5·57
Barnstaple - - -	29·950	62·0	27·0	35·0	49·9	40·1	30·7	9·8	44·6	39·9	·247	2·8	0·5	84	554	–	–	1·2	8	5	8	10	–	6·1	44	6·66
Caterham - - -	29·999	55·0	24·0	31·1	45·3	35·2	28·7	10·1	40·6	37·3	·223	2·6	0·3	89	546	–	32·6	4·4	9	5	7	9	0·2	3·8	33	4·20
Ramsgate - - -	29·930	57·2	25·9	31·3	47·1	37·2	27·9	9·9	41·7	37·8	·223	2·6	0·5	86	555	77·8	32·7	1·4	6	5	7	12	–	6·9	46	3·22
Strathfield Turgiss -	29·963	59·2	22·1	37·1	48·0	35·9	34·4	12·1	41·6	37·0	·221	2·5	0·5	85	554	77·7	31·1	0·6	7	4	7	12	1·2	7·3	32	5·89
Weybridge Heath -	29·981	60·0	22·8	37·2	47·3	35·4	35·2	11·9	41·2	36·7	·219	2·5	0·5	85	556	65·1	41·8	0·9	7	4	11	8	1·2	7·4	35	5·31
Marlborough Green	29·935	57·7	24·3	33·4	47·0	35·9	31·6	11·1	40·9	38·0	·229	2·6	0·3	90	549	77·0	29·2	0·5	7	3	5	15	–	7·7	40	5·25
Blackheath - -	29·944	61·2	25·1	36·1	47·6	36·5	33·1	11·1	41·8	37·1	·222	2·6	0·5	84	554	72·9	32·6	0·7	9	4	7	10	–	7·5	31	3·09
Streatley Vicarage -	29·949	60·2	23·3	36·9	48·4	37·2	35·3	11·2	42·6	38·8	·237	2·7	0·4	87	554	–	–	1·3	8	5	6	11	–	7·4	39	3·99
Chiswick - - -	29·892	59·0	22·0	37·0	48·6	35·1	34·0	13·5	41·8	38·0	·229	2·7	0·4	88	557	74·3	–	0·7	6	5	5	14	–	8·1	22	3·31
Camden Square -	29·937	59·7	25·7	34·0	48·0	36·5	31·4	11·5	42·0	37·5	·224	2·6	0·5	81	555	70·1	32·7	–	11	3	5	11	–	7·4	36	3·92
Oxford - - - -	29·937	58·1	25·1	33·0	47·3	37·3	32·1	10·0	42·2	37·5	·226	2·6	0·5	84	553	–	33·8	0·6	8	4	6	12	1·5	8·2	48	3·65
Gloucester - - -	29·962	62·0	20·0	42·0	49·2	34·2	38·8	15·0	41·7	38·8	·237	2·7	0·3	90	556	81·8	–	0·4	8	5	5	11	0·6	7·7	35	3·22
Royston - - -	29·957	58·7	22·6	36·1	47·4	34·3	33·6	13·1	40·8	36·3	·214	2·5	0·5	85	553	–	–	–	8	3	7	12	–	7·3	37	3·80
Cardington - - -	29·935	59·4	23·6	35·8	47·3	35·0	33·7	12·3	40·7	36·4	·216	2·5	0·5	85	556	59·8	30·7	1·2	9	2	5	13	–	7·2	31	3·03
Cambridge - - -	29·897	60·8	21·2	39·6	48·1	36·4	35·5	11·7	41·8	37·3	·223	2·6	0·5	85	556	82·8	30·9	1·1	8	3	8	12	–	7·0	30	3·26
Somerleyton - -	29·893	59·7	20·8	38·9	47·4	34·8	34·3	12·6	41·2	39·3	·241	2·8	0·2	94	557	–	–	1·0	8	4	6	12	7·6	7·0	52	4·20
Norwich - - -	29·880	58·8	27·0	31·8	48·7	37·3	29·9	9·4	41·4	39·0	·238	2·8	0·3	92	556	–	–	–	6	2	7	15	–	–	39	3·24
Wolverhampton -	–	56·5	20·8	35·7	45·5	34·5	32·0	11·0	39·7	36·5	·216	2·5	0·3	89	–	–	–	–	9	3	8	10	–	8·5	38	3·71
Leicester - - -	29·920	59·2	25·5	33·7	46·6	36·6	31·5	10·0	41·4	36·4	·217	2·5	0·6	84	553	70·8	29·4	0·9	8	3	8	10	–	7·2	46	3·60
Nottingham - -	29·907	59·8	22·0	37·8	47·6	35·1	35·3	12·5	40·9	37·9	·229	2·6	0·4	90	554	69·8	32·5	0·4	9	3	6	11	1·7	7·0	49	5·57
Holkham - - -	29·874	59·2	20·2	39·0	46·2	34·6	35·9	11·6	40·5	36·5	·216	2·5	0·5	86	557	76·6	28·4	1·7	7	2	9	12	–	7·1	39	3·35
Llandudno - - -	29·834	63·4	28·0	35·4	48·6	39·7	29·3	8·9	43·9	39·2	·240	2·8	0·5	83	552	–	–	0·8	7	4	5	14	–	7·2	44	3·69
Kelstern Grange -	29·883	57·0	22·8	34·2	45·1	34·4	30·4	10·7	39·2	37·2	·222	2·6	0·2	93	551	87·1	30·5	1·0	8	3	6	13	6·9	6·3	58	3·61
Liverpool - - -	29·902	61·9	27·0	34·9	46·3	38·3	29·5	8·0	41·7	37·6	·226	2·6	0·5	86	553	–	–	1·2	6	5	6	13	–	7·4	47	3·05
Eccles - - -	29·914	60·4	19·3	41·1	46·4	33·8	36·1	12·6	40·3	36·3	·214	2·5	0·5	86	555	51·2	27·6	0·4	9	4	6	11	2·1	7·3	48	6·37
Bermerside, Halifax	29·916	59·6	27·0	32·6	45·1	35·6	29·2	9·5	39·7	35·8	·211	2·5	0·4	88	548	69·3	31·7	0·6	5	4	7	14	–	7·4	36	7·20
Hull - - - -	29·871	59·0	23·0	36·0	44·4	35·4	32·3	11·0	41·0	37·1	·214	2·5	0·5	84	557	60·7	33·7	–	–	–	–	–	2·4	–	42	5·18
Stonyhurst - - -	29·899	57·9	22·1	35·8	46·1	33·7	32·0	12·4	40·0	36·4	215	2·5	0·4	88	551	78·1	31·5	1·5	4	2	8	16	–	7·7	54	9·88
Leeds - - - -	29·908	60·0	25·0	35·0	47·9	33·1	31·7	11·8	42·2	34·8	·202	2·4	0·7	76	553	55·7	–	1·5	7	4	5	15	–	4·7	34	4·30
Bradford - - -	29·911	58·6	25·0	33·6	45·7	37·0	29·5	8·7	41·1	36·2	·213	2·5	0·5	83	553	55·6	–	1·1	9	2	6	13	–	7·6	42	5·77
Cockermouth - -	29·858	58·4	22·8	35·6	45·9	36·3	32·4	9·6	40·8	35·8	·219	2·5	0·4	86	554	63·6	28·8	0·4	8	6	8	9	3·4	7·1	51	9·12
Allenheads - - -	–	–	15·5	–	–	30·4	–	–	–	–	–	–	–	–	–	67·7	–	1·0	–	–	–	–	–	6·5	44	9·18
Silloth - - - -	29·850	64·3	22·7	41·6	47·8	35·9	33·6	11·9	41·3	37·2	·222	2·6	0·5	86	556	68·2	32·0	1·3	6	4	5	15	8·7	5·7	40	7·70
Carlisle - - -	29·814	58·3	22·7	35·6	46·5	34·4	31·8	12·1	40·1	36·0	·213	2·4	0·5	86	556	64·6	29·5	1·7	6	4	7	13	5·8	7·1	46	6·90
Bywell - - -	29·820	60·0	24·0	36·0	47·9	36·9	29·3	11·0	41·3	35·4	·207	2·4	0·6	80	554	58·9	30·8	1·4	8	4	4	14	–	5·7	47	6·38
North Shields - -	–	57·0	23·0	34·0	45·5	35·6	28·5	9·9	40·1	36·0	·213	2·4	0·4	83	553	–	34·4	1·7	10	4	3	13	–	6·6	55	5·12
Waringstown (Irel.)	29·819	57·0	24·0	33·0	48·3	35·9	29·3	12·4	41·7	38·8	·237	2·7	0·3	90	551	68·7	33·0	2·6	5	3	8	14	–	5·2	59	7·95

The highest temperatures of the air were at Silloth, 64°·3; Llandudno, 63°·4; and Barnstaple and Gloucester, both 62°·0.
The lowest temperatures of the air were at Allenheads, 15°·5; Eccles, 19°·3; Gloucester, 20°·0; and Holkham, 20°·2.
The greatest daily ranges of the temperatures of the air were at Gloucester, 15°·0; Chiswick, 13°·5; and Royston, 13°·1.
The least daily ranges of the temperatures of the air were at Guernsey, 7°·7; Liverpool, 8°·0; and Bradford, 8°·7.
The greatest number of rainy days were at Waringstown, 59; Kelstern Grange, 58; and North Shields, 55.
The least number of rainy days were at Chiswick, 22; Helston, 29; and Osborne, Blackheath, and Cardington, all 31.
The heaviest falls of rain were at Stonyhurst, 9·88 inches; Allenheads, 9·18 inches; and Cockermouth, 9·12 inches.
The least falls of rain were at Cardington, 3·03 inches; Blackheath, 3·09 inches; and Norwich, 3·24 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey - - - -	29·958	54·5	31·5	23·0	48·7	41·0	21·8	7·7	44·5	40·8	·255	2·9	0·5	87	551	–	–	1·4	8	5	6	10	4·7	6·6	42	6·21
Between 50° and 51° -	29·980	58·9	29·0	32·9	49·2	38·8	29·2	10·4	43·6	39·6	·244	2·8	0·5	86	553	74·7	35·3	1·3	10	5	6	10	5·1	6·9	36	5·02
Between 51° and 52° -	29·949	59·3	23·9	35·4	47·8	36·4	32·8	11·4	41·9	37·9	·228	2·6	0·4	86	554	74·6	32·1	1·1	8	4	7	11	0·9	7·1	37	4·28
Between 52° and 53° -	29·908	59·1	22·6	36·5	47·0	35·4	33·5	11·6	40·9	37·3	·223	2·6	0·5	88	555	71·9	30·4	1·0	8	3	7	12	4·7	7·3	42	3·55
Between 53° and 54° -	29·900	59·8	24·4	35·4	46·4	36·0	31·1	10·4	41·0	36·6	·217	2·5	0·5	85	553	64·4	31·0	1·0	7	4	6	13	3·8	6·9	45	6·11
Between 54° and 55° -	29·848	60·2	23·0	37·2	47·0	35·9	31·8	11·1	40·9	36·4	·215	2·5	0·5	85	555	64·6	30·3	1·2	7	4	6	13	6·0	6·4	48	7·71
Mean for the Quarter, 50° to 55° — Year 1875	29·802	57·7	17·3	40·4	45·4	35·1	31·7	10·3	39·8	36·4	·217	2·5	0·4	87	553	62·7	31·1	1·4	7	8	7	8	3·9	7·4	46	6·58
" 1876	29·631	58·1	19·2	38·9	45·5	34·3	33·6	11·2	39·6	36·0	·212	2·5	0·4	87	551	66·3	30·7	1·4	6	6	8	10	4·2	6·7	53	8·21
" 1877	29·566	58·0	21·7	36·3	48·3	36·7	31·3	11·6	42·4	38·3	·233	2·7	0·5	86	547	70·0	31·6	1·3	6	3	8	13	4·9	6·7	63	10·37
" 1878	29·917	59·5	24·0	35·5	47·5	36·5	31·7	11·0	41·7	37·6	·226	2·6	0·5	86	554	70·0	31·8	1·1	8	4	6	12	4·1	6·9	41	5·41

Remarks on the Weather during the Quarter ending June 30th, 1878.

By James Glaisher, Esq., F.R.S., *&c.*

The cold and ungenial weather with which the preceding quarter closed continued for several days into April, till the 7th day severe frosts were experienced every night, and the average daily deficiency of mean temperature was 2¾°. On the 10th day rain fell at many places, and continued for several hours on the 11th. On these days the rainfall in the London District was very remarkable; at Caterham the fall in the two days was 1·6 ins.; at Croydon 2·2 ins.; at Blackheath 2 ins. nearly; at Greenwich Observatory 2·8 ins.; north of London, at Camden Square, where the fall was the heaviest, 3·23 ins.; at Muswell Hill 2·8 ins.; at Chiswick 2·3 ins.; and Mr. G. J. Symons states that 2½ ins. out of the 3·23 ins. fell in 12 hours. This unusual fall of rain caused very heavy floods at low lying places south of the Thames, and very serious injury to property in many localities, particularly at Lewisham, Lee, and Peckham.

On the 12th the weather became warm, and from this day till May 19th, the mean temperature of every day was above its average, the mean excess of these 39 days was 4°·9 daily. On some of these days the excess of temperature was as large as 7° or 8°, the sky was, however, nearly always overcast, and rain fell frequently; in May rain fell on nearly every day from the 6th; there were many heavy rain-falls between May 6th and May 11th, the heaviest was at Bath, viz., 2 ins. on the 10th, causing serious floods in the City. On the same day rain exceeding an inch fell at Wilton and Wrottesley; on the 11th the fall was 1·8 ins. at Gloucester; and nearly 0·9 in. at Marlborough, and moderately heavy falls on this day occurred in Cornwall and Devonshire. On the 7th there was nearly an inch at Ramsgate; an inch or more at Royston, Cardington, Cambridge, Somerleyton, and more than half an inch at many places. On the 8th more than an inch fell at Leicester; and on the 9th the fall exceeded half an inch at many places. At Greenwich on the 7th the fall was 1·6 ins., of which one inch fell between 6h. p.m. and 6h. 50m. p.m. On the 20th of May the weather again set in cold, and on nearly every day the mean temperature was below its average till June 19th, the average deficiency of these 31 days was 2½° daily; from June 20th to the end of the month the temperature was in excess of its average, particularly from the 23rd to the 29th, when the weather was hot, the temperature at some places reaching to 90° or higher; the average daily excess of temperature of these 11 days was 7°.

On June 23rd a second almost unprecedented local fall of rain occurred in the London district, but it was chiefly confined to the north of London. At Camden Square Mr. Symons measured 3·28 ins. of rain, as falling between 1h. 32m. p.m. and 3h. 2m. p.m., and he remarks that no rain fell between 2h. 12m. and 2h. 46m., so that this large amount of rain actually fell in 56 minutes; the area over which this heavy rain fell was small, there was no rain at Kew, at Blackheath the fall was 0·58 in., and at most places within a few miles of London, the fall was a few tenths of an inch only. This heavy fall of rain caused the streets in the north of London to be as running rivers, and very much damage was done, a main drain near Camden Square burst, and water rushed towards King's Cross in large volumes, and from thence into the main tunnel of the Metropolitan Railway, and the traffic near Farringdon Street was stopped for two or three days.

During the rain of June 23rd, there was a severe thunderstorm, the lightning was very vivid and frequent, and many places about Hackney, Tottenham, and Kentish Town were struck by lightning; on the same day there was another severe storm near Croydon, and several places were struck by lightning. The quarter has been remarkable for a deficiency of sunshine, and for almost continuous rain in May. In the quarter the fall of rain at Greenwich was 13·2 ins., being more than twice the average fall for these three months, and more than one half of the mean annual fall of rain. The fall exceeded its average by 7·6 ins. There is no instance of so heavy a fall in these three months back to the year 1815, the nearest approach was in the year 1860, when the fall amounted to 10·7 ins., being 2½ ins. less than in this year.

The readings of the barometer in the vicinity of London were below their averages from the 1st to the 5th of April, above from the 6th to the 15th, below from the 16th to the 25th, above on the 26th, 27th, and 28th, and below on the 29th and 30th. The lowest reading in the month at sea level was 29·17 ins. on the 1st, and the highest was 30·24 ins. on the 27th. The mean reading for the month at sea level was 29·843 ins., being 0·100 in. below the average. On the 1st and 2nd of May the barometer readings were below their averages, on the 3rd, 4th, and 5th, they were above, from the 6th to the 20th (with the exception of the 17th) they were below, on the 21st and 22nd they were above, from the 23rd to the 28th they were again below, and on the 29th, 30th, and 31st they were above their averages. The highest reading in the month at sea level was 30·16 ins. on the 30th, and the lowest was 29·30 ins. on the 24th. The mean reading for the month at sea level was 29·798 ins., being 0·168 in. below the average, and back to 1841 there is no instance of so low a mean reading for May as that in the present year. The readings of the barometer on the 1st and 2nd of June were a little above their averages; a little below on the 3rd and 4th, above on the 5th, 6th, and 7th, below from the 8th to the 18th, above from the 19th to the 27th, and again below on the last three days of the month. The maximum reading in the month at sea level was 30·24 ins. on the 6th, and the minimum was 29·52 ins. on the 11th. The mean reading for the month at sea level was 29·950 ins., being 0·044 in. below the average.

The increase of mean monthly temperature from March to April South of latitude 51° was 4°·0, and North of this parallel was very uniform and of the mean value of 5°·2; from April to May

South of latitude 51° was 5°·3, between latitude 51° and 52° was 6°·4, between 52° and 53° was 6°·8, and North of 53° was 5°·3; and from May to June South of 51° was 5°·4, between 51° and 52° was 5°·6, and North of 52° was 5°·2. The mean *increase* from all stations from March to April was 5°·0, from April to May was 5°·8, and from May to June was 5°·3.

At Greenwich *the mean temperature* of April was above that of March by 6°·2; that of May above that of April was 7°·0, and that of June above that of May was 5°·1. (From the preceding 37 years' observations the *mean temperature* of April is higher than that of March by 5°·5; that of May is higher than that of April by 5°·5; and that of June is higher than that of May by 6°·4.)

The mean temperature of the air for April was 48°·2, being 2°·1 and 1°·1 above the averages of the preceding 107 years, and 37 years respectively. It was 2°·8 higher than the value in 1877.

The mean temperature of the air for May was 55°·2, being 2°·7 and 2°·6 above the averages of the preceding 107 years, and 37 years respectively. It was 6°·3 higher than the value in 1877.

The mean temperature of the air for June was 60°·3, being 2°·1 and 1°·3 above the averages of the preceding 107 years, and 37 years respectively. It was 1°·0 lower than the value in 1877.

The mean temperature of the air for the quarter was 54°·6, being 2°·3 and 1°·7 above the averages of the preceding 107 years and 37 years respectively. It was 2°·7 higher than the value in 1877.

The mean high day temperatures of the air were 0°·1, 1°·0, and 0°·1 respectively above their averages in April, May, and June.

The mean low night temperatures of the air were 1°·1, 3°·7, and 0°·9 respectively above their averages in April, May, and June. Therefore the nights were warm throughout the quarter.

The mean daily ranges of temperature were 1°·0, 2°·7, and 0°·6 respectively less than their averages in April, May, and June.

At Greenwich the atmospheric pressure in April was less than in March by 0·227 in., in May was less than in April by 0·045 in., and in June was greater than in May by 0·152 in. (From the preceding 37 years' observations the mean pressure in April is greater than in March by 0·027 in., in May greater than in April by 0·023 in., and in June greater than in May by 0·028 in.) The mean atmospheric pressure decreased from March to April South of latitude 51° by 0·326 in., between 51° and 52° by 0·242 in., between 52° and 53° by 0·200 in., between 53° and 54° by 0·211 in., and North of 54° by 0·198 in. From April to May there was a further decrease at all stations, excepting Guernsey, where there was a small increase; South of latitude 51° the decrease was 0·010 in., between 51° and 52° it was 0·035 in., between 52° and 53° it was 0·074 in., between 53° and 54° it was 0·088 in., and North of 54° it was 0·107 in. From May to June there was an increase, at stations South of latitude 51° it was 0·142 in., between 51° and 52° it was 0·154 in., between 52° and 53° it was 0·166 in., between 53° and 54° it was 0·172 in., and North of 54° it was 0·190 in. The mean decrease from all stations from March to April was 0·237 in., from April to May was 0·057 in., and the mean increase from May to June was 0·165 in.

1878. Months.	Temperature of Air. Mean.	Air. Diff. from average of 107 years.	Air. Diff. from average of 37 years.	Evaporation. Mean.	Evaporation. Diff. from average of 37 years.	Dew Point. Mean.	Dew Point. Diff. from average of 37 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 37 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 37 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 37 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.
April -	48·2	+2·1	+1·1	45·2	+1·2	42·0	+1·4	17·6	−1·0	48·3	0·266	+0·012	3·0	+0·1
May -	55·2	+2·7	+2·6	51·6	+2·7	48·1	+3·0	17·8	−2·7	59·0	0·332	+0·033	3·8	+0·3
June -	60·3	+2·1	+1·3	55·8	+1·3	51·8	+1·2	20·6	−0·6	60·9	0·387	+0·017	4·3	+0·2
Means -	54·6	+2·3	+1·7	50·9	+1·7	47·3	+1·9	18·7	−1·4	56·1	0·328	+0·021	3·7	+0·2

1878. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 37 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 37 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 37 years.	Rain. Amount.	Rain. Diff. from average of 63 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
April -	79	+1	29·663	−0·100	541	− 2	4·3	+2·6	281	8	16	6	23·0	48·0
May -	78	+2	29·618	−0·168	532	− 9	4·3	+2·3	289	0	8	23	31·6	53·3
June -	74	0	29·770	−0·044	530	− 2	4·6	+2·7	205	0	1	29	38·0	54·5
Means -	77	+1	29·684	−0·104	534	− 4	Sum 13·2	Sum +7·6	Mean 258	Sum 8	Sum 25	Sum 58	Lowest 23·0	Highest 54·5

NOTE.—In reading this table it will be borne in mind that the plus sign (+) signifies *above* the average, and that the minus sign (−) signifies *below* the average.

The fall of rain in April was 4·3 ins., in May was also 4·3 ins., and in June was 4·6 ins., being respectively 2·6 ins., 2·3 ins., and 2·7 ins. in excess of their averages. The total fall of rain in the quarter was no less than 13·2 ins., being 7·6 ins. in excess of the average.

There is but one instance back to 1815 when the fall in April was as large as 4·3 ins., viz., in the year 1829 when it was 4·8 ins. There is likewise but one instance when the fall in May was as large as 4·3 ins., viz., in the year 1817 when it was 4·6 ins. And there are but two instances when the fall in June was larger than 4·6 ins., viz., in the year 1838 when it was 5·1 ins., and in 1860 when it was 5·8 ins.; in the year 1852 the fall in June was the same as in the present year, viz., 4·6 ins.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter were as follows:—

Direction of Wind.	April. Average.	April. 1878.	April. Departure from Average.	May. Average.	May. 1878.	May. Departure from Average.	June. Average.	June. 1878.	June. Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	2¼	2	− ¼	1¼	1	− ¼	2	1	−1
N.	4	1	−3	4¼	1	−3¼	3¼	2	−1¼
N.E.	6	4	−2	7	2	−5	3½	3	− ½
E.	3½	5	+1½	2½	1	−1½	2¼	5	+2¾
S.E.	2	4	+ 2	1¼	4	+2¼	1¾	5	+3¼
S.	2½	5	+2½	2¼	6	+3¼	2¼	3	+ ¾
S.W.	6¼	8	+1¾	7½	10	+2½	9¼	6	−3¼
W.	2½	1	−1½	2	6	+4	3¾	4	+ ¼
Calm (nearly.)	1	0	−1	2	0	−2	1½	1	− ½

The plus sign (+) denotes excesses over averages; the largest numbers affected with this sign in the month of April are opposite to the S.E. and S., in May to the S. and W., and in June to the E. and S.E.

The minus sign (−) denotes defects below averages; the largest numbers affected with this sign in the month of April are opposite to the N. and N.E., in May also to the N. and N.E., and in June to the S.W.

Thunderstorms occurred on 3 days in April, on 18 days in May (there being a general absence of such storms at southern stations until the 10th day), and on 15 days in June.

Thunder was heard but lightning was not seen on 3 days in April, 17 days in May, and 18 days in June.

Lightning was seen but thunder was not heard, on one day in April, viz., the 30th, at several stations, on 9 days in May, and on 9 days in June.

Solar halos were seen on 5 days in April, 12 days in May, and on 6 days in June, or on 23 days during the quarter.

Lunar halos were seen on 5 nights in April, 2 nights in May, and on 3 nights in June.

Aurora Borealis was seen, on the 3rd of April at Torquay.

Snow fell on the 1st of April at many places; on the 2nd at Hull and North Shields, and on the 17th at Marlborough. On the 14th of May at Leicester, and on the 21st at Halifax.

Hail fell on 6 days in April, 12 days in May, and on 2 days in June.

Fog prevailed on 33 different days during the quarter; 17 days of which occurred in April.

Field Elm in Leaf, the earliest, April 21st at Oxford and Guernsey, the latest, May 1st at Osborne.

Wych Elm	"	"	" 21st at Oxford	"	" 7th at Torquay.
Oak	"	"	" 21st at Strathfield	"	" 7th at Torquay.
Lime	"	"	" 9th at Strathfield	"	April 27th at Guernsey.
Sycamore	"	"	" 1st at Strathfield	"	" 23rd at Torquay.
Horsechestnut	"	"	" 7th at Osborne	"	" 20th at Torquay.
Common Poplar	"	"	" 10th at Strathfield	"	May 13th at Llandudno.
Hawthorn	"	"	" 1st at Osborne	"	" 5th at Silloth.
Hazel	"	"	" 20th at Oxford	"	" 7th at Torquay.
Apple in Blossom	"	"	" 19th at Llandudno	"	April 28th at Weybridge.
Pear	"	"	" 5th at Silloth	"	" 27th at Torquay.
Lilac	"	"	" 21st at Oxford	"	May 6th at Llandudno.
Laburnum	"	"	" 29th at Silloth	"	" 5th at Oxford.
Honeysuckle	"	"	June 2nd at Weybridge	"	June 10th at Torquay.
Wheat in Flower	"	"	" 15th at Llandudno	"	" 26th at Kelstern.
Wheat in Ear	"	"	" 8th at Cardington	"	" 13th at Strathfield and Weybridge.
Barley	"	"	" 20th at Cardington and Llandudno	"	" 25th at Kelstern.
Cuckoo arrived	"	April	14th at Stonyhurst	"	May 3rd at Royston.
Swallow	"	"	" 7th at Osborne	"	" 10th at Torquay.
Nightingale	"	"	" 14th at Weybridge	"	April 18th at Streatley.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING JUNE 30TH, 1878.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the sixth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1878. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.M.S.	204	April	29·576	0·890	61·5	37·5	24·0	54·2	44·6	9·6	48·5	45·6	·306	3·4	0·4	90	539	–	–	1·2	6	8	8	8	4·1	5·1	19	4·06
		May	29·595	0·744	66·0	45·0	21·0	58·9	49·6	9·3	53·5	49·2	·349	3·9	0·7	85	534	–	–	1·6	5	5	11	10	4·1	4·6	17	3·61
		June	29·726	0·703	81·0	49·0	32·0	65·2	54·1	11·1	58·7	53·9	·417	4·8	0·9	84	530	–	–	1·2	6	7	9	8	3·2	4·8	9	2·90
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	April	29·704	0·906	66·0	34·0	32·0	57·6	44·0	13·6	49·1	44·1	·290	3·3	0·7	83	510	69·2	41·3	2·1	5	12	7	6	5·4	5·0	19	3·83
		May	29·701	0·840	70·0	34·0	36·0	63·1	47·1	16·0	53·8	48·3	·337	3·8	0·8	81	535	77·0	43·7	2·3	4	5	12	10	4·5	3·8	23	4·14
		June	29·860	0·920	85·0	45·0	40·0	71·0	53·1	17·9	59·9	51·6	·384	4·3	1·5	74	531	90·9	48·8	1·8	4	4	14	8	5·8	3·3	12	2·07
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	April	29·749	0·851	64·0	28·0	36·0	56·5	43·4	13·1	48·2	43·6	·283	3·3	0·6	85	542	–	–	2·7	5	11	8	6	–	6·2	21	3·35
		May	29·723	0·937	63·0	37·0	31·0	61·6	48·0	13·6	52·2	48·2	·338	3·8	0·6	86	537	–	–	3·0	6	5	11	9	–	7·0	25	4·86
		June	29·864	0·847	84·0	43·0	41·0	67·9	52·5	15·4	57·4	52·5	·395	4·4	0·9	84	534	–	–	2·4	4	7	11	8	–	6·4	18	3·71
PLYMOUTH (Devon), John Merrifield, Esq., F.R.A.S., F.M.S., LL.D.	69	April	29·794	0·909	63·5	31·0	32·5	54·7	43·5	11·2	48·2	44·7	·295	3·5	0·5	88	543	–	41·9	1·4	6	9	7	8	–	6·9	22	3·85
		May	29·790	0·810	63·0	39·5	23·5	60·1	49·4	10·7	54·2	48·5	·340	3·9	0·9	81	536	–	49·1	1·7	5	5	12	9	–	7·2	23	4·78
		June	29·933	0·785	82·0	45·0	37·0	66·6	53·9	12·7	59·0	54·0	·419	4·7	0·9	84	533	–	53·3	1·2	5	4	10	11	–	6·5	17	2·60
BABBACOMBE, Torquay (Devon), Edwin E. Glyde, Esq., F.M.S.	305	April	29·475	1·027	59·3	31·6	27·7	53·4	42·7	10·7	47·0	43·2	·279	3·2	0·5	86	539	119·1	36·8	1·2	4	11	7	8	4·3	6·8	23	5·03
		May	29·463	0·811	63·9	38·2	25·7	59·1	47·5	11·6	52·1	47·0	·323	3·7	0·7	83	533	128·7	42·0	1·5	6	4	8	13	5·5	7·2	22	4·10
		June	29·617	0·873	72·8	46·1	26·7	65·0	52·5	12·5	57·4	51·6	·382	4·3	1·0	81	530	141·9	47·7	0·9	6	10	6	8	4·0	5·7	18	2·76
VENTNOR (Royal National Hospital for Consumption), Isle of Wight, Hartley Sagar, Esq.	100	April	29·732	0·988	66·3	31·3	35·0	57·8	43·7	14·1	48·7	45·5	·306	3·4	0·5	90	541	–	–	–	4	13	5	8	7·2	5·2	19	2·86
		May	29·712	0·784	67·2	42·2	25·0	62·4	49·9	12·5	54·2	50·8	·372	4·2	0·5	88	535	–	–	–	3	6	9	13	7·2	5·2	15	2·60
		June	29·855	0·640	81·3	47·0	34·3	68·8	54·5	14·3	59·6	54·1	·420	4·7	1·0	83	531	–	–	–	3	9	12	6	6·7	5·0	7	0·76
EASTBOURNE (Sussex). Miss Wilhelmina L. Hall.	12	Jan.	30·132	1·284	52·1	27·4	24·7	45·4	35·4	10·0	40·9	36·2	·213	2·5	0·5	84	558	62·5	29·1	0·2	14	1	2	13	1·6	–	15	1·77
		Feb.	30·250	0·788	53·5	29·5	24·0	47·1	39·0	8·1	43·0	40·8	·255	2·9	0·3	92	557	68·6	32·0	0·1	9	7	4	8	1·3	–	16	2·30
		Mar.	30·021	1·564	58·4	24·0	34·4	50·0	37·0	13·0	43·0	37·0	·219	2·5	0·7	79	553	90·4	29·8	0·2	16	5	0	10	1·5	–	11	2·25
		April	29·742	1·026	64·2	27·7	36·5	56·8	41·4	15·4	48·1	44·5	·294	3·4	0·4	88	542	107·2	33·8	0·2	5	10	7	8	1·1	–	18	3·17
		May	29·751	0·776	75·0	39·8	35·2	63·3	48·4	14·9	54·5	50·2	·362	4·1	0·7	87	535	117·5	41·0	0·5	4	4	9	14	3·2	–	23	3·27
		June	29·926	0·594	83·0	43·7	39·3	69·8	52·0	17·8	59·6	52·5	·395	4·4	1·3	78	533	122·1	44·1	0·2	4	6	10	10	1·3	–	15	1·27
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	April	29·640	1·012	66·4	28·8	37·6	58·0	41·0	17·0	48·2	45·7	·307	3·5	0·4	92	540	110·5	37·8	0·4	4	9	10	7	–	5·8	17	2·40
		May	29·613	0·780	73·3	40·0	33·3	63·1	47·9	15·2	54·8	50·9	·373	4·2	0·7	87	532	119·9	45·0	0·4	3	5	15	8	–	6·1	16	3·15
		June	29·756	0·744	86·3	43·0	43·3	71·5	52·3	19·2	60·1	56·9	·464	5·2	0·6	89	529	126·4	47·7	0·3	2	7	13	8	–	5·4	9	1·52
SOUTH BOURNE, near Bournemouth, (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	128	April	29·692	1·000	63·1	31·0	32·1	54·3	42·3	12·0	47·4	40·6	·253	2·9	0·8	78	542	–	–	–	6	11	8	5	–	3·8	16	2·52
		May	29·696	0·760	68·6	40·0	28·6	60·2	48·5	11·7	53·3	46·7	·318	3·6	1·0	78	536	–	–	–	4	5	7	15	–	4·8	21	3·13
		June	29·817	0·680	81·3	44·8	36·5	67·5	52·6	14·9	59·2	50·9	371	4·2	1·4	74	532	–	–	–	4	9	9	8	–	3·0	9	1·20
BRIGHTON (Sussex), F. E. Sawyer, Esq., F.M.S.	206	Apr.	29·603	1·026	61·3	28·2	33·1	55·8	41·2	14·6	47·8	41·1	·258	3·0	0·8	78	540	97·5	37·0	0·9	5	10	9	6	–	5·9	18	3·01
		May	29·593	0·791	68·7	40·5	28·2	62·1	48·7	13·4	54·5	48·6	·341	3·9	0·9	80	532	107·3	46·5	0·9	3	6	10	12	–	6·6	16	3·79
		June	29·738	0·709	81·0	46·2	34·8	69·1	53·3	15·8	60·1	50·6	·370	4·1	1·7	71	529	116·3	50·9	0·8	4	9	12	5	–	5·6	11	2·42
SALISBURY (Wilton House), T. Challis, Esq.	186	Apr.	29·622	1·028	67·5	26·0	41·5	59·0	37·9	21·1	47·6	42·8	·275	3·1	0·6	84	542	105·2	36·9	1·3	7	12	7	4	–	6·1	18	2·07
		May	29·585	0·810	72·5	34·0	38·5	65·3	44·8	20·5	53·8	49·7	·358	4·1	0·6	85	533	114·5	44·2	1·5	3	5	12	11	–	7·5	20	5·65
		June	29·749	0·726	90·0	41·0	49·0	73·7	48·7	25·0	59·4	54·9	·432	4·8	0·8	86	529	125·6	48·4	1·3	3	9	8	10	–	5·7	14	4·15
BARNSTAPLE (Devon), William Knile, Esq.	43	Apr.	29·745	0·930	67·0	35·0	32·0	58·5	44·3	14·2	50·3	42·9	·277	3·2	0·9	77	540	–	–	1·1	5	8	11	6	–	4·8	18	2·53
		May	29·719	0·880	70·0	39·0	31·0	64·1	50·8	13·3	55·7	48·9	·348	3·9	1·1	79	534	–	–	1·3	4	5	12	10	–	4·4	23	4·82
		June	29·867	0·990	87·0	44·0	43·0	71·6	55·6	16·0	61·4	53·8	·411	4·6	1·5	76	530	–	–	1·2	2	4	14	10	–	2·9	13	3·07

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1878. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
BATH (St. Gregory's College, Downside, Somerset). Rev. F. A. Gasquet, O.S.B.	596	April	29·167	1·026	62·9	29·1	33·8	54·9	39·5	15·4	44·2	40·7	·254	2·9	0·4	88	535	112·6	–	1·1	4	11	7	8	–	5·4	20	3·58
		May	29·133	0·838	68·1	37·1	31·0	59·4	45·3	14·1	51·3	48·1	·336	3·8	0·4	89	528	124·5	44·2	1·5	4	4	11	12	–	7·3	23	8·14
		June	29·293	0·736	84·9	42·0	42·9	67·5	54·1	13·4	58·4	52·1	·389	4·3	1·1	80	523	129·5	46·9	1·2	5	7	11	7	–	6·7	12	2·91
CATERHAM (Surrey), James Adam, Esq., M.D.	608	April	29·169	1·050	62·0	26·0	36·0	55·2	39·9	15·3	47·8	41·9	·265	3·0	0·7	81	532	–	37·8	4·4	6	6	9	9	1·9	3·5	19	3·99
		May	29·152	0·850	69·0	36·0	33·0	61·8	46·7	15·1	53·3	47·5	·328	3·7	0·9	81	526	–	45·2	4·5	3	4	12	12	2·4	4·1	21	3·87
		June	29·296	0·800	86·0	45·0	43·0	68·0	52·6	15·4	58·4	51·0	·375	4·2	1·3	77	523	–	49·8	3·5	4	5	12	10	1·3	2·7	10	1·45
RAMSGATE (Kent), Rev. E. Douglas O'Gara, O.S.B.	108	April	29·720	1·139	65·2	29·7	35·5	52·8	41·6	11·2	46·0	41·7	·265	3·1	0·5	86	544	102·8	33·1	1·2	9	8	8	5	–	4·7	15	1·70
		May	29·709	0·811	66·6	42·1	24·5	60·6	48·8	11·8	53·4	48·8	·344	3·9	0·7	84	536	112·0	43·3	1·5	4	6	10	11	–	6·9	23	3·95
		June	29·860	0·640	82·7	45·8	36·9	66·4	53·5	12·9	58·4	51·8	·385	4·3	1·1	79	533	117·2	48·5	1·3	6	8	9	7	–	5·4	8	1·43
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	April	29·610	1·102	64·4	27·9	36·5	57·9	40·0	17·9	47·8	42·1	·267	3·1	0·7	81	540	105·7	33·8	0·7	5	8	8	9	1·4	5·8	16	2·34
		May	29·583	0·841	71·4	36·5	34·9	63·3	45·8	17·5	53·4	48·0	·335	3·8	0·8	82	533	113·9	43·0	0·8	2	4	13	12	1·9	6·5	16	2·63
		June	29·740	0·747	88·5	40·5	48·2	70·3	49·0	21·3	58·6	51·6	·382	4·3	1·1	78	531	125·3	45·9	0·8	2	5	13	10	2·3	6·6	14	1·26
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	April	29·690	1·044	69·0	25·8	43·2	59·2	38·7	20·5	48·1	41·9	·265	3·0	0·8	80	542	94·4	34·9	0·8	7	10	10	3	0·5	5·7	16	3·77
		May	29·659	0·815	75·5	34·8	40·7	66·0	46·0	20·0	54·7	49·4	·352	4·0	0·9	82	538	102·6	42·2	0·8	4	5	14	8	0·9	6·4	20	4·05
		June	29·809	0·683	90·0	40·3	49·7	73·1	48·7	24·4	59·6	53·0	·403	4·5	1·0	80	531	109·4	45·4	0·7	6	8	12	4	0·4	5·1	14	2·72
MARLBOROUGH, The Green (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	474	April	29·313	1·036	65·0	25·8	39·2	56·4	39·4	17·0	46·8	41·3	·259	3·1	0·7	82	536	102·0	34·6	0·6	3	11	7	9	–	5·6	15	2·66
		May	29·277	0·841	69·8	35·3	34·5	62·0	46·3	15·7	52·8	48·0	·335	3·8	0·7	84	529	113·6	42·0	0·6	3	8	11	9	–	7·7	24	4·34
		June	29·436	0·706	84·8	41·6	43·2	69·1	51·2	17·9	58·6	51·7	·383	4·3	1·2	78	525	122·6	47·4	0·4	5	7	10	8	–	6·6	14	3·80
BLACKHEATH (London), James Glaisher, Esq., F.R.S.	160	April	29·655	1·065	68·3	27·7	40·6	58·2	39·6	18·6	47·6	42·3	·272	3·1	0·7	83	541	108·1	35·5	1·0	4	9	11	6	–	6·0	15	3·57
		May	29·616	0·860	75·5	37·5	38·0	64·8	47·5	17·3	54·5	47·8	·331	3·8	1·0	78	533	123·2	43·0	1·3	3	4	13	11	–	6·6	21	3·95
		June	29·769	0·724	90·2	44·0	46·2	71·1	51·4	19·7	59·4	51·8	·386	4·3	1·3	76	530	126·5	47·9	0·7	4	9	9	8	–	5·7	13	4·00
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.S., F.M.S.	150	April	29·660	1·026	67·3	27·2	40·1	57·8	40·8	17·0	48·4	42·6	·273	3·2	0·8	81	542	–	–	1·4	6	11	6	7	–	5·9	17	2·07
		May	29·618	0·844	73·4	37·0	36·4	64·5	46·7	17·8	54·6	49·1	·348	4·0	0·8	81	533	–	–	1·8	5	5	11	10	–	6·9	25	3·25
		June	29·770	0·754	89·5	39·2	50·3	71·6	56·9	14·7	61·2	55·2	·436	4·9	1·2	81	528	–	–	1·4	4	7	10	9	–	6·0	15	1·66
CHISWICK (Middlesex), Thomas R. Sim, Esq.	25	April	29·785	1·028	68·0	27·0	41·0	58·2	40·0	18·2	47·6	43·8	·286	3·2	0·5	88	544	104·5	35·1	1·0	2	14	5	9	–	7·6	8	4·04
		May																										
		June																										
CAMDEN SQUARE (London), G. J. Symons, Esq., F.M.S.	123	April	29·707	1·108	69·4	27·2	42·2	58·7	40·9	17·8	48·5	42·7	·274	3·2	0·7	81	541	97·0	35·9	–	7	8	8	7	–	5·8	16	4·97
		May	29·658	0·903	74·9	36·3	38·2	65·8	48·4	17·4	55·4	48·7	·345	3·9	1·1	79	533	107·6	46·2	–	6	5	10	10	–	6·8	19	3·89
		June	29·824	0·705	86·5	41·6	44·9	71·7	51·6	20·1	60·2	52·2	·392	4·4	1·5	75	530	113·3	48·8	–	8	4	7	11	–	5·9	15	6·71
OXFORD OBSERVATORY, John Lucas, Esq., Assistant in charge.	210	April	29·609	1·009	68·0	28·4	39·6	57·4	41·9	15·5	49·4	43·6	·284	3·2	0·8	79	539	105·1	38·3	0·6	4	10	10	6	3·0	6·6	12	2·30
		May	29·556	0·779	71·1	37·2	33·9	63·9	47·5	16·4	55·0	49·3	·352	3·9	1·0	82	531	110·8	44·2	0·8	3	6	11	11	4·6	7·9	24	4·97
		June	29·704	0·781	87·1	40·3	46·8	70·0	52·3	17·7	60·9	52·6	·395	4·5	1·6	73	528	119·1	49·3	0·7	5	7	11	7	2·3	6·9	13	1·92
GLOUCESTER ASYLUM, E. Toller, Esq., M.D.	100	April	–	–	71·0	27·5	43·5	62·3	40·3	22·0	49·7	45·8	·309	3·6	0·7	87	–	112·0	–	0·5	–	–	–	–	2·8	5·9	15	3·63
		May	29·666	0·850	73·0	36·0	37·0	66·1	45·6	20·5	54·5	51·2	·377	4·2	0·6	89	534	114·8	44·9	0·6	5	4	8	14	3·3	7·5	22	5·77
		June	29·818	0·855	90·5	40·0	50·5	73·0	50·8	22·2	60·1	55·8	·446	5·0	0·9	85	530	126·0	48·0	0·6	7	6	6	11	2·6	7·6	16	3·41
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	April	29·571	1·126	68·0	22·2	45·8	57·3	38·2	19·1	46·9	42·0	·267	3·0	0·6	84	541	–	–	–	6	9	9	6	–	6·0	11	1·73
		May	29·517	0·849	75·1	34·4	40·7	66·0	45·0	21·0	53·8	48·8	·344	3·9	0·7	83	532	–	–	–	4	4	10	13	–	7·0	20	3·89
		June	29·688	0·805	89·7	35·9	53·8	71·8	48·5	23·3	58·3	52·8	·400	4·5	1·0	82	530	–	–	–	8	5	9	8	–	5·9	12	1·47
CARDINGTON (near Bedford), Mr. J. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	105	April	29·723	1·120	68·0	26·2	41·8	58·1	39·5	18·6	47·6	40·0	·247	2·8	0·9	75	543	86·4	33·9	1·1	4	9	9	8	–	6·1	13	2·05
		May	29·658	0·862	75·0	35·0	40·0	65·6	46·7	18·9	55·1	48·1	·336	3·8	1·1	78	533	103·5	41·9	1·5	3	7	10	11	–	6·3	24	4·44
		June	29·823	0·789	89·0	38·0	51·0	71·5	50·3	21·2	60·1	53·6	·411	4·6	1·3	79	531	110·4	44·9	1·0	5	6	8	11	–	6·7	12	2·00
CAMBRIDGE (Trinity College), J. W. L. Glaisher, Esq., M.A., F.R.S.	40	April	29·776	1·128	69·8	23·6	46·2	59·7	39·2	20·5	47·9	42·4	·271	3·1	0·7	83	543	115·8	34·7	1·0	4	10	10	6	–	6·2	13	1·43
		May	29·707	0·888	74·6	37·0	37·6	66·3	46·7	19·6	54·8	48·7	·344	3·9	0·9	79	534	133·1	42·8	1·5	4	6	10	11	–	6·8	24	3·56
		June	29·873	0·748	89·9	37·8	52·1	73·1	49·8	23·3	59·7	51·9	·387	4·4	1·4	77	532	137·8	47·3	0·9	4	8	10	8	–	6·6	13	3·60

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1878. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	50	April	29·781	1·214	63·8	17·0	46·8	56·4	39·0	17·4	46·4	43·7	·287	3·2	0·4	91	545	—	—	1·1	3	13	9	5	8·2	5·2	12	1·01
		May	29·716	0·800	73·0	38·5	34·5	63·3	46·7	16·6	53·3	51·1	·376	4·2	0·3	92	536	—	—	1·1	3	8	11	9	8·2	6·4	20	3·52
		June	29·890	0·738	84·5	35·8	38·7	68·7	48·8	19·9	57·1	53·9	·414	4·6	0·7	88	535	—	—	1·0	5	10	10	5	6·3	5·7	12	1·06
NORWICH (Norfolk), John Quinton, Esq., Jun.	42	April	29·807	1·208	65·0	25·0	40·0	56·4	41·4	15·0	47·4	42·2	·270	3·1	0·6	84	544	—	—	—	2	15	9	4	—	—	8	1·03
		May	29·727	0·876	74·5	40·0	34·5	63·3	48·5	14·8	54·3	49·8	·344	3·9	0·9	82	535	—	—	—	2	8	14	7	—	—	19	3·40
		June	29·891	0·784	87·0	42·0	45·0	69·6	52·7	16·9	59·4	51·1	·376	4·2	1·4	74	532	—	—	—	4	8	12	6	—	—	11	1·26
WROTTESLEY, WOLVERHAMPTON (Stafford), E. Simpson, Esq.	500	April	29·260	1·092	64·6	24·5	40·1	56·2	38·3	17·9	45·9	40·0	·247	2·8	0·8	80	536	—	—	—	6	10	8	6	—	6·8	14	2·30
		May	29·175	0·888	68·4	33·5	34·9	61·6	44·6	17·0	51·8	45·7	·309	3·5	0·9	80	526	—	—	—	6	5	13	7	—	7·9	22	6·43
		June	29·338	0·716	87·0	41·5	45·5	67·8	50·2	17·6	57·6	49·2	·350	3·9	1·4	73	525	—	—	—	3	7	16	4	—	7·6	13	3·71
LEICESTER (Town Museum), W. J. Harrison, Esq., F.G.S.	245	April	29·568	1·115	64·0	27·2	36·8	56·1	40·3	15·8	47·3	40·5	·252	2·9	0·8	78	540	105·1	31·8	0·8	4	12	7	7	—	5·8	14	1·50
		May	29·498	0·905	69·5	36·9	32·6	61·9	46·5	15·4	53·6	46·7	·317	3·6	1·1	77	532	115·8	40·8	1·1	3	6	13	9	—	8·1	26	4·82
		June	29·662	0·852	85·0	41·5	43·5	67·7	51·4	16·3	59·1	49·4	·353	4·0	1·6	70	529	124·7	45·3	0·8	4	6	14	6	—	6·6	14	1·69
NOTTINGHAM (Notts), M.O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	183	April	29·625	1·174	69·7	23·9	45·9	58·1	38·3	19·8	46·8	41·3	·260	3·0	0·7	82	542	98·9	35·8	0·4	7	12	7	4	2·5	6·0	15	1·59
		May	29·537	0·902	73·7	34·5	39·2	65·1	45·5	19·6	53·6	48·9	·345	3·9	0·7	84	532	107·3	44·4	0·4	3	9	11	8	4·1	7·5	25	3·96
		June	29·713	0·790	88·5	38·2	50·3	71·3	49·9	21·4	58·9	52·6	·398	4·4	1·2	80	531	116·0	49·6	0·4	5	9	12	4	3·0	6·6	15	2·40
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	39	April	29·788	1·204	63·7	23·8	39·9	55·4	37·5	17·9	45·9	41·2	·260	3·0	0·6	84	546	116·8	31·5	1·5	6	9	11	4	—	6·0	8	0·76
		May	29·700	0·866	72·8	32·9	39·9	63·2	44·5	18·7	52·5	47·9	·334	3·8	0·7	84	537	116·3	40·4	1·8	5	5	15	6	—	6·8	21	3·38
		June	29·859	0·696	86·6	33·7	52·9	68·3	47·5	20·8	57·1	50·4	·366	4·1	1·2	78	535	124·7	44·2	1·3	7	5	13	5	—	6·1	14	2·65
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	100	April	29·702	1·106	70·7	34·0	36·7	57·5	42·6	14·9	49·0	41·1	·259	2·9	1·1	74	541	—	—	0·8	3	11	10	6	—	5·7	12	1·39
		May	29·615	1·010	71·0	39·6	31·4	61·8	48·1	13·7	53·4	46·6	·317	3·6	1·0	78	534	—	—	0·8	6	6	6	13	—	5·2	22	2·45
		June	29·790	0·898	93·0	45·8	47·2	66·8	52·6	14·2	58·3	50·1	·363	4·1	1·4	75	532	—	—	0·7	7	7	6	10	—	6·3	12	1·68
KELSTERN GRANGE, near Louth (Lincolnshire), D. Grant Briggs, Esq., F.M.S.	393	April	29·426	1·217	62·7	20·0	42·7	54·0	38·4	15·6	45·1	42·5	·272	3·1	0·4	91	540	108·8	34·8	0·9	3	12	9	6	8·4	5·4	12	1·13
		May	29·342	0·913	69·4	34·6	34·8	59·4	44·4	15·0	50·6	47·1	·324	3·7	0·5	88	532	112·7	41·5	1·0	4	7	12	8	7·8	6·8	26	3·44
		June	29·514	0·839	82·8	36·7	46·1	65·1	48·8	16·3	55·7	50·5	·367	4·1	0·8	83	530	122·9	46·0	0·8	7	7	10	6	7·6	6·6	13	2·37
LIVERPOOL OBSERVATORY, John Hartnup, Esq., F.R.A.S.	197	April	29·585	1·166	65·2	32·5	32·7	55·5	42·0	13·5	47·4	41·1	·258	3·0	0·8	79	544	—	—	1·1	5	14	7	4	—	5·6	13	1·18
		May	29·501	0·942	66·7	41·0	25·7	59·3	47·9	11·4	52·2	47·8	·333	3·8	0·7	85	533	—	—	1·2	6	7	7	11	—	6·0	24	4·05
		June	29·684	0·937	85·0	45·7	39·3	65·0	52·6	12·4	57·3	51·0	·374	4·2	1·1	79	531	—	—	0·7	5	10	6	9	—	6·2	14	2·96
ECCLES (near Manchester), T. Mackereth, Esq., F.M.S., F.R.A.S.	145	April	29·663	1·168	68·2	26·9	41·3	57·5	38·5	19·0	47·5	40·5	·252	2·9	0·8	77	542	70·7	31·2	0·2	5	10	10	5	1·5	5·4	12	1·72
		May	29·589	1·010	71·5	33·0	38·5	62·1	43·9	18·2	52·0	45·7	·307	3·5	0·9	79	535	79·1	37·4	0·3	3	7	12	9	2·3	7·2	26	4·17
		June	29·764	0·900	89·1	36·9	52·2	68·6	48·3	20·3	57·4	49·7	·357	4·0	1·3	75	532	86·9	42·0	0·5	6	5	10	9	1·4	7·2	15	3·66
BERMERSIDE OBSERVATORY, HALIFAX (Yorkshire), E. J. Crossley, Esq., F.R.A.S.	520	April																										
		May	29·177	0·880	70·2	33·0	37·2	58·4	43·4	15·0	49·0	44·8	·298	3·4	0·6	86	531	95·4	41·2	0·7	3	9	8	11	—	7·4	19	5·33
		June	29·326	0·932	89·0	40·0	49·0	66·5	47·9	18·6	55·5	48·1	·338	3·8	1·2	77	527	104·2	45·9	0·5	3	11	10	6	—	7·7	11	3·27
HULL (Yorkshire), Mr. E. Peake.	12	April	29·841	1·266	66·0	25·0	41·0	56·3	39·2	17·1	46·2	41·5	·263	3·1	0·5	85	546	89·3	38·0	—	—	—	—	—	2·3	—	10	1·38
		May	29·728	0·906	71·0	34·0	37·0	61·6	45·4	16·2	52·7	47·7	·332	3·7	0·8	83	537	88·7	43·7	—	—	—	—	—	2·0	—	19	2·74
		June	29·910	0·926	85·0	41·0	44·0	68·0	49·5	18·5	57·2	51·4	·380	4·2	1·0	81	535	99·9	47·2	—	—	—	—	—	1·5	—	12	2·32
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.S., F.M.S., F.R.A.S.	363	April	29·429	1·192	64·9	28·0	36·9	56·7	37·6	19·1	46·1	40·1	·249	2·9	0·7	81	539	110·2	35·9	1·6	5	12	3	10	—	6·1	13	1·57
		May	29·332	0·932	69·8	34·2	35·6	61·8	43·4	18·4	50·9	45·4	·304	3·5	0·7	82	532	119·3	42·6	1·7	4	7	8	12	—	7·7	21	4·64
		June	29·510	0·922	87·2	40·0	47·2	67·9	48·5	19·4	56·5	50·9	·374	4·2	0·9	82	529	122·0	48·3	0·8	6	17	5	2	—	7·1	15	3·36
LEEDS (Philosophical Hall) (Yorkshire), H. Crowther, Esq.	137	April	29·683	1·244	64·0	30·0	34·0	55·8	39·5	16·3	46·0	40·9	·257	3·0	0·6	83	544	68·0	—	1·4	5	13	5	7	—	3·5	11	2·13
		May	29·587	0·920	68·0	37·0	31·0	61·2	45·8	15·4	51·8	43·3	·281	3·2	1·2	74	536	71·7	—	1·4	2	10	7	12	—	4·8	21	4·11
		June	29·759	0·894	90·0	42·0	48·0	68·2	50·5	17·7	58·0	47·9	·334	3·7	1·7	70	532	76·7	—	1·2	4	9	7	10	—	4·1	12	4·13
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	366	April	29·426	1·307	63·5	30·2	33·3	53·9	40·1	13·8	45·3	39·9	·247	2·8	0·6	82	540	70·2	—	0·7	9	9	5	7	—	5·9	15	1·73
		May	29·349	0·868	68·0	37·0	31·0	59·4	46·0	13·4	51·1	45·2	·303	3·4	0·8	81	532	75·1	—	0·9	7	4	7	13	—	7·4	22	5·16
		June	29·522	0·847	87·8	42·0	45·8	66·0	50·9	15·1	56·8	47·8	·332	3·7	1·4	72	529	82·5	—	0·8	6	3	13	8	—	6·0	10	3·25

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1878. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.R.A.S., F.M.S.	146	April	29·655	1·233	67·4	28·2	39·2	56·2	40·9	15·3	47·8	39·4	·242	2·8	1·0	74	541	95·9	32·7	0·4	4	13	8	5	1·3	5·1	15	1·86
		May	29·547	0·942	69·5	36·8	32·7	60·2	47·0	13·2	52·1	45·2	·302	3·4	1·0	77	535	101·9	39·4	0·5	4	8	9	10	2·9	7·2	21	2·31
		June	29·733	0·962	88·8	39·8	49·0	67·2	50·0	17·2	57·4	48·2	·338	3·8	1·5	71	532	110·3	41·7	0·2	5	8	8	9	0·9	5·5	16	2·39
ALLENHEADS (Northumberland), Mr. T. Kidd, Assistant to W. B. Beaumont, Esq., M.P.	1360	April	28·383	1·330	—	23·0	—	—	35·5	—	—	—	—	—	—	—	—	100·5	—	0·5	—	—	—	—	—	6·2	13	3·05
		May	28·304	0·877	—	31·3	—	—	40·7	—	—	—	—	—	—	—	—	103·8	—	0·7	—	—	—	—	—	6·7	20	4·68
		June	28·528	0·860	—	33·0	—	—	45·6	—	—	—	—	—	—	—	—	112·2	—	0·4	—	—	—	—	—	6·2	12	2·72
SILLOTH RECTORY (Cumberland), Rev. Francis Redford, M.A., F.R.A.S., F.M.S.	28	April	29·800	1·368	68·6	29·5	39·1	58·2	39·2	19·0	47·3	41·0	·257	3·0	0·8	79	544	86·8	35·3	1·5	3	13	5	9	7·9	4·6	12	2·24
		May	29·680	0·964	75·7	36·7	39·0	63·5	45·6	17·9	52·7	46·5	·317	3·6	0·9	80	536	95·4	42·4	1·7	2	10	8	11	7·6	4·6	19	2·15
		June	29·883	0·944	94·6	38·0	56·6	70·4	48·4	22·0	57·7	49·7	·357	4·0	1·4	74	534	105·3	45·5	1·4	5	8	9	8	7·1	4·0	12	1·90
CARLISLE (Cumberland), Isaac Cartmell, Esq., F.M.S.	114	April	29·706	1·316	68·3	27·3	41·0	57·4	39·0	18·4	46·9	39·7	·246	2·9	0·8	77	543	90·8	33·1	1·8	3	10	10	7	5·0	5·7	14	2·87
		May	29·593	0·966	71·8	33·6	38·2	62·2	44·3	17·9	51·6	44·8	·297	3·4	0·9	78	536	95·9	37·7	2·0	6	9	5	11	5·0	6·9	20	2·40
		June	29·753	0·922	90·0	35·2	54·8	68·5	47·5	21·0	56·8	47·6	·330	3·7	1·4	71	533	104·1	43·0	1·3	5	8	5	12	4·3	5·9	14	3·02
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	April	29·711	1·368	68·0	30·0	38·0	56·6	41·2	15·4	46·6	41·0	·258	3·0	0·7	82	543	72·0	35·8	1·2	4	14	4	8	—	5·5	13	2·87
		May	29·580	0·908	74·0	38·0	36·0	61·1	47·2	13·9	51·9	46·7	·320	3·6	0·8	83	535	76·0	41·9	1·3	5	11	7	8	—	5·7	23	3·73
		June	29·757	0·856	86·0	40·0	46·0	66·4	50·6	15·8	56·5	49·4	·354	4·0	1·1	77	533	86·6	45·1	1·1	5	11	6	8	—	5·0	16	3·15
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	April	29·776	1·430	61·2	28·2	33·0	51·2	39·9	11·3	43·7	41·1	·258	3·0	0·3	90	548	—	38·3	1·2	7	9	3	11	—	6·6	13	1·88
WARINGSTOWN, CO. DOWN, (Ireland), Thomas Waring, Esq.	191	April	29·520	1·100	66·0	28·0	38·0	59·5	39·8	19·7	47·4	44·7	·295	3·3	0·4	91	539	96·4	36·7	2·8	4	9	11	6	—	4·4	17	1·68
		May	29·399	1·088	70·0	36·0	34·0	63·0	44·6	18·4	51·2	47·1	·326	3·6	0·6	86	533	103·8	42·5	3·0	5	5	11	10	—	5·0	22	3·91

Second Rain-gauges are placed—

			April.	May.	June.	Total in Quarter.
At Strathfield Turgiss, at the height of 38 feet *above the ground*, the amount collected was			1·55 inches.	1·78 inches.	0·91 inches.	4·24 inches.
" Oxford,	"	22 feet	" " 2·13 "	4·35 "	1·99 "	8·47 "
" Cardington,	"	36 feet	" " 1·75 "	3·80 "	1·75 "	7·30 "
" Nottingham,	"	39 feet	" " 1·52 "	3·84 "	2·23 "	7·58 "
" Eccles,	"	34 feet	" " 1·57 "	3·84 "	3·19 "	8·60 "

Rainfall on Beachy Head—

	Above sea level - 515 feet.	495 feet.		Above sea level - 515 feet.	495 feet.
1878, January - -	1·03 inches.	1·30 inches.	1878, April - - -	2·16 inches.	2·63 inches.
February - -	1·45 "	1·71 "	May - - -	2·97 "	3·24 "
March - - -	0·95 "	1·31 "	June - - -	2·84 "	1·65 "

Note.—*Barometer Reading*, Royston, 14th May, 10 h. a.m., 30·291 in., has been altered to 29·291 in.

Chiswick.—The maximum and minimum thermometer readings on 5th April are given as 33° and 55° respectively; they have been transposed to 55° and 33°.

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·493	81·0	37·5	43·5	59·4	49·4	25·7	10·0	53·6	49·6	·357	4·0	0·7	86	534	—	—	1·3	6	7	9	9	3·8	4·8	45	10·37
Helston	29·531	85·0	34·0	51·0	63·9	48·1	36·0	15·8	54·3	48·0	·337	3·8	1·0	79	535	79·0	44·6	2·1	4	7	11	8	5·2	4·0	54	10·04
Truro	29·486	84·0	28·0	56·0	62·0	48·0	36·0	14·0	52·6	48·1	·339	3·8	0·7	85	538	—	—	2·7	5	8	10	8	—	6·5	64	11·26
Easthourne	29·469	83·0	27·7	55·3	63·3	47·3	37·0	16·0	54·1	49·1	·350	4·0	0·8	84	537	115·6	39·6	0·3	4	7	9	11	1·9	—	56	7·71
Plymouth	29·562	82·0	31·0	51·0	60·5	48·9	31·0	11·6	55·8	49·1	·351	4·0	0·8	84	537	—	48·1	1·4	5	6	10	9	—	6·9	62	11·25
Torquay	29·516	72·8	31·6	41·2	59·2	47·6	26·7	11·6	52·2	47·3	·328	3·7	0·7	83	534	129·9	42·2	1·2	5	8	7	10	4·6	6·6	63	11·89
Ventnor	29·507	81·3	31·3	50·0	63·0	49·4	31·4	13·6	54·2	50·1	·366	4·1	0·7	87	539	—	—	—	3	9	9	9	7·0	5·1	41	6·22
Osborne	29·473	86·3	28·8	57·5	64·2	47·1	38·1	17·1	54·4	51·2	·381	4·3	0·6	89	534	118·9	43·5	0·4	3	7	13	8	—	5·8	42	7·06
Bournemouth	29·558	81·3	31·0	50·3	60·7	47·8	32·4	12·9	53·3	46·1	·314	3·6	1·1	77	537	—	—	—	5	8	8	9	—	3·9	46	6·83
Brighton	29·542	81·0	28·2	52·8	62·3	47·7	32·0	14·6	54·1	46·8	·323	3·7	1·1	80	534	107·0	44·8	0·9	4	8	10	8	—	6·0	45	9·22
Salisbury	29·494	90·0	26·0	64·0	66·0	43·8	43·0	22·2	53·6	49·1	·355	4·0	0·7	85	535	115·1	43·2	1·4	4	9	9	8	—	6·4	52	11·87
Barnstaple	29·478	87·0	35·0	52·0	64·7	50·2	35·3	14·5	55·8	48·5	·345	3·9	1·2	77	535	—	—	1·2	4	6	12	9	—	4·0	54	10·43
Bath	29·512	84·9	29·1	55·8	60·6	46·3	35·9	14·3	51·3	47·0	·326	3·7	0·6	86	529	122·2	—	1·3	4	7	10	9	—	6·5	55	14·63
Ramsgate	29·548	82·7	29·7	53·0	59·9	48·0	32·3	11·9	52·6	47·4	·331	3·8	0·8	83	538	110·7	42·6	1·3	6	7	9	8	—	5·7	46	7·08
Strathfield Turgiss	29·527	88·5	27·9	60·6	63·8	44·9	39·9	18·9	53·3	47·2	·328	3·7	0·9	80	535	115·0	40·9	0·8	3	6	11	10	1·9	6·3	46	6·23
Weybridge Heath	29·530	90·0	25·8	64·2	66·1	44·3	44·5	21·6	54·1	48·1	·340	3·8	0·9	81	535	102·1	40·8	0·8	6	8	12	5	0·6	5·7	50	10·24
Marlborough Green	29·526	84·8	25·8	59·0	62·5	45·6	39·0	16·9	52·7	47·0	·326	3·7	0·9	81	530	112·7	41·3	0·5	4	9	9	9	—	6·6	53	10·20
Blackheath	29·522	90·2	27·7	62·5	64·7	46·2	41·6	18·5	53·8	47·3	·330	3·7	1·0	79	535	119·3	42·1	1·0	4	7	11	8	—	6·1	49	11·32
Streatley Vicarage	29·508	89·5	27·2	62·3	64·6	48·1	42·3	16·5	54·7	49·0	·352	4·0	0·9	81	534	—	—	1·5	5	8	9	9	—	6·3	57	5·98
Camden Square	29·525	86·5	27·2	59·3	65·4	47·0	41·8	18·4	54·7	47·9	·337	3·8	1·1	78	535	106·0	43·6	—	7	6	8	9	—	6·2	50	15·57
Oxford	29·506	87·1	28·4	58·7	63·8	47·2	40·1	16·6	55·1	48·5	·344	3·9	1·1	78	533	111·7	43·9	0·7	4	8	11	8	3·3	7·1	49	9·19
Royston	29·546	89·7	22·2	67·5	65·0	43·9	46·8	21·1	53·0	47·9	·337	3·8	0·8	83	534	—	—	—	6	6	9	9	—	6·3	43	7·09
Cardington	29·512	89·0	26·2	62·8	65·1	45·5	44·3	19·6	54·3	47·2	·331	3·7	1·1	77	536	100·1	40·2	1·2	4	7	9	6	—	6·4	49	8·49
Cambridge	29·496	89·9	23·6	66·3	66·4	45·2	45·3	21·2	54·1	47·7	·334	3·8	1·0	80	536	128·9	41·6	1·1	4	8	10	8	—	6·5	50	8·70
Somerleyton	29·491	84·5	17·0	67·5	62·8	44·8	40·0	18·0	52·3	49·6	·359	4·0	0·5	90	539	—	—	1·1	4	10	10	6	7·6	5·8	44	5·59
Norwich	29·523	87·0	25·0	62·0	63·1	47·5	39·8	15·6	53·7	47·4	·330	3·7	1·0	80	537	—	—	—	3	10	12	6	—	—	38	5·69
Wolverhampton	29·491	87·0	24·5	62·5	61·9	44·4	40·2	17·5	51·8	45·0	·302	3·4	1·0	78	529	—	—	—	5	7	12	6	—	7·4	49	12·44
Leicester	29·531	85·0	27·2	57·8	61·9	46·1	37·6	15·8	53·8	45·5	·307	3·2	1·2	75	534	115·2	39·3	0·9	4	8	11	7	—	6·8	54	8·03
Nottingham	29·491	88·5	23·9	64·6	64·8	44·6	45·1	20·2	53·1	47·6	·334	3·8	0·9	82	535	107·4	43·3	0·4	5	10	10	5	3·2	6·7	55	7·26
Holkham	29·506	86·6	23·8	62·8	62·3	43·2	44·2	19·1	51·8	46·5	·320	3·6	0·8	82	539	119·3	38·7	1·5	6	6	13	5	—	6·3	43	6·79
Llandudno	29·496	93·0	34·0	59·0	62·0	47·8	38·4	14·2	53·6	48·9	·313	3·5	1·2	76	536	—	—	0·8	5	8	7	10	—	5·7	46	5·32
Kelstern Grange	29·525	82·8	20·0	62·8	59·5	43·5	41·2	15·6	50·5	46·7	·321	3·6	0·6	87	534	114·8	40·8	0·9	5	9	10	7	7·9	6·3	51	6·91
Liverpool	29·479	85·0	32·5	52·5	59·9	47·5	32·6	12·4	52·3	46·6	·322	3·7	0·9	81	536	—	—	1·0	5	10	7	8	—	5·9	51	8·19
Eccles	29·522	89·1	26·9	62·2	62·7	43·6	44·0	19·1	52·3	45·3	·305	3·5	1·0	77	536	78·9	36·9	0·3	5	7	11	8	1·7	6·6	53	9·53
Hull	29·514	85·0	25·0	60·0	62·0	44·7	40·7	17·3	52·0	46·9	·325	3·7	0·8	83	539	92·6	43·0	—	—	—	—	—	1·9	—	41	6·14
Stonyhurst	29·500	87·2	28·0	59·2	62·1	43·2	39·9	18·9	51·2	45·5	·309	3·5	0·7	82	533	117·2	42·3	1·4	5	12	5	8	—	7·0	49	9·37
Leeds	29·533	90·0	30·0	60·0	61·7	45·3	37·7	16·5	51·9	44·0	·291	3·3	1·2	76	537	72·2	—	1·3	4	11	6	10	—	4·1	44	10·37
Bradford	29·525	87·8	30·2	57·6	59·8	45·7	36·7	14·1	51·1	44·3	·294	3·3	0·9	78	534	75·9	—	0·8	7	5	8	9	—	6·4	47	10·14
Cockermouth	29·511	88·8	28·2	60·6	61·2	46·0	40·3	15·2	52·4	44·3	·294	3·3	1·2	74	536	102·7	37·9	0·4	4	10	8	8	1·7	5·9	52	6·56
Allenheads	—	—	23·0	—	—	40·6	—	—	—	—	—	—	—	—	535	105·5	—	0·5	—	—	—	—	—	6·4	45	10·43
Silloth	29·508	94·6	29·5	65·1	64·0	44·4	44·9	19·6	52·6	45·7	·310	3·5	1·0	78	538	95·8	41·1	1·5	3	10	7	9	7·5	4·4	43	6·29
Bywell	29·465	86·0	30·0	56·0	61·4	46·3	40·0	15·1	51·7	45·7	·311	3·5	0·9	81	537	78·2	40·9	1·2	5	12	6	8	—	5·4	52	9·73

The highest temperatures of the air were at Silloth, 94°·6; Llandudno, 93°·0; Blackheath, 90°·2; and Salisbury, Weybridge, and Leeds, all 90°·0.

The lowest temperatures of the air were at Somerleyton, 17°·0; Kelstern Grange, 20°·0; Royston, 22°·2; and Allenheads, 23°·0.

The greatest daily ranges of the temperatures of the air were at Salisbury, 22°·2; Weybridge, 21°·6; and Cambridge, 21°·2.

The least daily ranges of the temperatures of the air were at Guernsey, 10°·0; Plymouth and Torquay, both 11°·6; and Ramsgate, 11°·9.

The greatest number of rainy days were at Truro, 64; Torquay, 63; Plymouth, 62; Streatley, 57; and Bath and Nottingham, both 55.

The least number of rainy days were at Norwich, 38; Ventnor and Hull, both 41; and Osborne, 42.

The heaviest falls of rain were at Camden Square, 15·57 inches; Bath, 14·63 inches; and Wolverhamton, 12·44 inches.

The least falls of rain were at Llandudno, 5·52 inches; Somerleyton, 5·59 inches; and Norwich, 5·69 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·493	81·0	37·5	43·5	59·4	49·4	25·7	10·0	53·6	49·6	·357	4·0	0·7	86	534	—	—	1·3	6	7	9	9	3·8	4·8	45	10·37
Between the latitudes 50° and 51°	29·519	81·8	30·8	51·0	61·9	48·1	33·1	13·8	53·5	48·6	·345	3·9	0·8	83	536	109·3	44·6	1·6	4	8	10	9	5·6	5·5	53	9·52
Between the latitudes 51° and 52°	29·516	87·4	28·2	59·2	63·8	46·5	39·6	17·3	53·8	47·9	·338	3·8	0·9	81	534	112·8	42·3	1·0	5	7	10	8	1·9	6·1	51	10·44
Between the latitudes 52° and 53°	29·510	87·5	23·6	63·9	63·7	45·0	42·6	18·7	53·0	47·2	·327	3·7	0·9	81	535	114·2	40·6	1·1	5	8	11	7	5·4	6·5	46	7·89
Between the latitudes 53° and 54°	29·512	87·5	28·3	59·2	61·2	45·2	38·9	16·0	51·9	45·7	·310	3·5	0·9	80	536	91·9	40·7	0·9	5	9	8	8	3·8	6·0	48	5·70
Between the latitudes 54° and 55°	29·495	89·8	29·2	60·6	62·2	45·6	41·7	16·6	52·2	45·2	·305	3·4	1·0	78	537	93·6	40·0	0·9	4	11	7	8	4·6	5·5	48	5·89
Mean for the Quarter, 50° to 55°, Year 1875	29·663	78·7	29·3	49·4	62·4	44·2	39·3	18·2	52·0	45·1	·305	3·5	1·0	77	539	100·7	39·5	1·2	6	6	8	11	4·3	5·9	38	5·78
Mean for the Quarter, 50° to 55°, " 1876	29·703	82·6	28·3	54·3	61·1	43·1	40·3	18·0	50·9	43·8	·289	3·3	0·9	75	541	101·4	37·8	1·0	7	8	6	8	4·1	5·5	34	6·25
Mean for the Quarter, 50° to 55°, " 1877	29·586	81·1	29·0	52·1	59·8	43·9	35·1	15·9	50·5	43·6	·289	3·3	1·0	78	539	98·7	38·8	1·3	7	9	8	7	4·8	6·3	41	8·89
Mean for the Quarter, 50° to 55°, " 1878	29·510	86·8	28·0	58·8	62·6	46·1	39·2	16·5	52·9	46·9	·325	3·7	0·9	81	536	104·8	41·6	1·1	5	9	9	8	4·3	5·9	49	

Remarks on the Weather during the Quarter ending September 30th, 1878.

By James Glaisher, Esq., F.R.S., *&c.*

The weather at the beginning of July was cold, it somewhat moderated from the 5th to the 8th, but cool and cloudy weather was experienced till the 15th, and the average daily deficiency of temperature for the first 15 days of the quarter was 1°. On the 16th the weather underwent a favourable change to higher temperature, bright sunshine, and no rain. The hottest day in the month was the 19th, on which day the temperature in the shade exceeded 80° at all the stations excepting Guernsey and Torquay; it was nearly 90° at many stations and 90°·2 at Halifax, and 92° at Leeds; this warm period continued till the 24th, the average excess of mean temperature was $7\frac{1}{4}$° daily; on the 25th the weather was cool and was changeable to August 3rd but chiefly cold, the average daily deficiency of mean temperature for these ten days was 1°. On August 3rd and 4th at stations South of 53° thunderstorms were general, and at some stations more than one inch of rain fell; from the 4th to the 11th the daily excess of mean temperature was 3°·6; from the 12th to the 21st the temperature was nearly that of its average, the sky was mostly cloudy and rain fell on nearly every day; on the 22nd a warm period began, but the weather continued unsettled till the end of August with nearly constant rain and frequent thunderstorms over the country; at the beginning of September the weather was clear and bright, without rain; the mean excess of daily temperature for the 21 days ending September 11th was 1°·9 daily; from the 12th to the end of the month, the changes in temperature were frequent and the weather was mostly cold; the average deficiency of temperature for the last 15 days of the quarter was 2°·1 daily.

The readings of the barometer in the neighbourhood of London were a little below their averages during the first three days of July; they were 0·082 in. above till the 9th; the next four days were a little below; from July 14th to the 23rd they were on the daily average 0·191 in. in excess; on the 24th the lowest reading in the month took place, viz., 29·67 ins. at sea level, the next four days were on the average 0·15 in. too low; from July 28th to August 2nd the atmospheric pressure was in excess averaging 0·20 in. daily. On July 31st the highest reading in the month, 30·38 ins. at sea level, took place. From August 3rd to the end of the month the readings of the barometer (with the exception of the 8th, 9th, 18th, and 21st, which were slightly in excess of their averages) were low, and particularly so on the 14th, 16th, 23rd, 24th, 25th, 26th, 29th, and 30th, on which days the daily values were nearly half an inch below these averages; the average daily deficiency of atmospheric pressure from August 3rd to the end of the month was 0·24 in.; the highest and lowest readings in the month at sea level were 30·32 ins. on the 1st and 29·46 ins. on the 14th. From September 1st to the 14th the readings of the barometer were generally above their averages, the mean daily excess was 0·07 in.; from the 14th to the 24th the readings were low with the exception of the 20th, and the average deficiency of daily pressure for these 12 days was 0·15 in., and from the 25th to the end of the quarter the average daily excess was 0·15 in. The highest and lowest readings in September at sea level were 30·50 ins. and 29·46 ins. The mean reading of the barometer at sea level for July was 30·03 ins., for August was 29·75 ins., and for September was 29·99 ins., being respectively 0·06 in. above, 0·21 in. below, and 0·015 in. above the average of 37 years.

The atmospheric pressure in July was greater than in June by 0·093 in., that in August was less than that in July by 0·277 in., and that in September was greater than that in August by 0·233 in. (From the preceding 37 years' observations the *mean pressure* in July is 0·011 in. less than in June, that in August is 0·011 in. less than in July, and that in September is 0·012 in. greater than in August). The mean increase of pressure from June to July from all stations was 0·113 in., the mean decrease from July to August was nearly the same everywhere and the mean from all stations was 0·295 in., and the mean increase from August to September South of latitude 51° was 0·264 in., between 51° and 52° was 0·241 in., between 52° and 53° was 0·223 in., between 53° and 54° was 0·192 in., and North of 54° was 0·147 in.

At Greenwich *the mean temperature* of July was higher than in June by 2°·8; that of August was below that of July by 0°·4, and that of September was below that of August by 6°·0. (From the preceding 37 years' observations the *mean temperature* of July is higher than that of June by 3°·2, that of August is lower than that of July by 0°·7, and that of September is lower than that of August by 4°·4.) The increase of mean temperature from June to July was nearly the same at all stations, its general mean was 3°·1; the decrease from July to August was nearly uniform, the mean from all stations was 0°·7; the further decrease to September was different, at stations South of latitude 51° it was 3°·7, at those between 51° and 52° it was 5°·2, between 52° and 53° it was 5°·0, between 53° and 54° it was 4°·5, and at those stations North of latitude 54° it was 4°·1.

The mean temperature of the air for July was 63°·1, being 1°·5 and 0°·9 above the averages of the preceding 107 years, and 37 years respectively. It was 2°·3 higher than the value recorded in 1877.

The mean temperature of the air for August was 62°·7, being 0°·9 and 1°·2 above the averages of the preceding 107 years, and 37 years respectively. It was 1°·0 higher than the value in 1877.

The mean temperature of the air for September was 56°·7, being 0°·2 above the average of the preceding 107 years, and 0°·4 *below* the average of the preceding 37 years. It was 3°·8 higher than the value in 1877.

The mean temperature of the air for the quarter was 60°·8, being 0°·9 and 0°·6 above the averages of the preceding 107 years and 37 years respectively.

The mean high day temperatures of the air were 0°·5, 0°·2, and 0°·7 respectively below their averages in July, August, and September.

The mean low night temperatures of the air were 1°·0 and 2°·2 above their averages in July and August, but 0·5 below in September. Therefore the days were somewhat cool throughout the quarter, and the nights were warm.

The mean daily ranges of temperature were 1°·6, 2°·4, and 0°·2 respectively less than their averages in July, August, and September.

The fall of rain during the month of July was very small; at many stations the amount for the whole month was less than one inch, and it is the smallest rain-fall recorded for many years in July.

At Greenwich the fall of rain in July was 0·3 in. only, and we have to travel back for 53 years for a fall of rain in this month of a smaller amount, viz., 1825, when the fall was 0·1 in. only. The fall in the month of August was on the other hand excessive; rain fell on two days out of three during the month; on the 3rd at Bywell to the depth of 1·92 ins., and at several places to more than an inch; on the 4th at Leicester 1·78 ins. fell; on the 13th the fall exceeded one inch at many places; and falls exceeding an inch took place at different stations on the 23rd and 30th. The fall at Greenwich for the month was 5·4 ins. being a fall greater in amount than in any August back to the year 1815, and was greater than in any month at Greenwich since July 1867, when the fall was 5·8 ins. The fall of rain in September was generally small, but in some few places it was a little above the average.

The fall of rain in July at Greenwich was 0·3 in., being 2·3 ins. below the average. Back to 1815 there are but three instances of so small a fall in July as that in the present year, viz.:—In the year 1825 when the fall was 0·1 in., in 1835 when it was 0·3 in., and in 1864 when it was 0·3 in. The fall in August was 5·4 ins., being 3·0 in., above the average for August, and in the preceding 63 years there is *no* instance of so large a fall in the month of August as that in the present year; the nearest approach is 4·6 ins. in the year 1837. The fall in September was 0·8 in., being 1·6 ins. below the average; and there are but five instances of so small a fall in September in the preceding 63 years, viz.—In the year 1832 it was 0·4 in.; in 1843 it was 0·5 in., in 1851 it was 0·4 in., in 1854 it was 0·7 in., and in 1865 it was 0·2 in.

Thunderstorms occurred on the 1st of July at Guernsey; on the 19th at Salisbury and Bath; on the 20th at Guernsey and Torquay; on the 21st at Guernsey, Torquay, and Plymouth; on the 22nd at Truro, Ventnor, Plymouth, Salisbury, London, Bath, and Strathfield, &c.; on the 23rd at Cardington, London, Norwich, Kelstern, and Bywell; on the 24th at London, Streatley, Oxford, Royston, and Liverpool; on the 25th at Eccles and Bywell; on the 26th at London; and on the 27th at Cardington and Halifax. On the 3rd of August at Torquay, Osborne, Bournemouth, London, Salisbury, Bath, Strathfield, Marlborough, Streatley, Oxford, Royston, Cardington, Bywell, North Shields, &c.; on the 4th at Streatley, London, Oxford, Royston, Somerleyton, and Stockton; on the 5th at Oxford, Silloth, and Carlisle; on the 6th at Oxford, Kelstern, Liverpool, Llandudno, Halifax, Hull, Stonyhurst, Bradford, Carlisle; on the 7th at Cardington, Kelstern, Eccles, Halifax, Hull, and Stonyhurst; on the 10th at Royston, Cardington, Cambridge, and Stockton; on the 15th at Guernsey and Eccles; on the 16th at Bournemouth, Strathfield, Royston, Cardington, Somerleyton, Halifax, Bradford, Leeds, Silloth, and North Shields; on the 17th at Bywell; on the 23rd at Guernsey, Bath, Streatley, Oxford, and Cardington; on the 24th at Torquay, Plymouth, Osborne, Bournemouth, Royston, Cardington, Cambridge, Stockton, and Leeds; on the 25th at Carlisle; on the 27th at Eccles, Halifax, Stonyhurst, Bywell, and North Shields; on the 28th at Guernsey, Osborne, and Bournemouth; on the 29th at Torquay, London, Salisbury, Marlborough, Streatley, Oxford, Cardington, Somerleyton, Cambridge, Eccles, and Stonyhurst; on the 30th at Salisbury, London, Cardington, Stockton, Kelstern, and Stonyhurst; on the 31st at Somerleyton, and Halifax. On the 8th of September at Plymouth, Osborne, Stockton, and Cardington; on the 18th at Eccles, Halifax, and Carlisle; on the 19th at Osborne and Stonyhurst; on the 22nd at Salisbury; on the 23rd at Hull; on the 30th at Royston, Cardington, Somerleyton, Cambridge, Stockton, Leicester, Wolverhampton, Kelstern, and Hull.

Thunder was heard but lightning was not seen on the 1st of July at Caterham; on the 21st at Torquay, Plymouth, Cockermouth, Silloth, Carlisle, and Bywell; on the 22nd at Guernsey, Streatley, Wolverhampton, and Liverpool; on the 23rd at Bournemouth, Bath, Streatley, and Oxford; on the 24th at Oxford, Royston, Cardington, Cambridge, Wolverhampton, Eccles, Llandudno, Hull, and Stonyhurst; on the 25th at Streatley, Kelstern, and Hull; on the 26th at Oxford and Hull. On the 3rd of August at Oxford; on the 4th at Hull; on the 6th at Royston; on the 7th at Streatley, Royston, Carlisle, and North Shields; on the 10th at Bath; on the 12th at Oxford and Cambridge; on the 14th at Cardington, Cambridge, and Kelstern; on the 15th at Hull; on the 16th at Wolverhampton, Kelstern, Hull, Stonyhurst, and Cockermouth; on the 17th at Hull; on the 23rd at Marlborough; on the 24th at Torquay, Plymouth, and Royston; on the 25th at Somerleyton, Cambridge, Hull, and Cockermouth; on the 26th at Kelstern; on the 27th at Hull; on the 28th at Kelstern; on the 29th at Royston and Hull; on the 30th at Marlborough, Oxford, Royston, Wolverhampton, and Carlisle; on the 31st at Wolverhampton, Hull and Cockermouth. On the 3rd of September at Bath; on the 5th at Norwich; on the 8th at Bath, Weybridge, Marlborough, Royston, Cambridge, and Kelstern; on the 19th at Cardington and Halifax; on the 23rd at Wolverhampton and Kelstern; and on the 26th at Oxford.

1878 Months.	Temperature of Air. Mean.	Air. Diff. from average of 107 years.	Air. Diff. from average of 37 years.	Evaporation. Mean.	Evaporation. Diff. from average of 37 years.	Dew Point. Mean.	Dew Point. Diff. from average of 37 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 37 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 37 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 37 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.
July -	63·1	+1·5	+0·9	58·6	+0·9	54·7	+0·8	19·6	−1·6	67·7	0·430	+0·013	4·8	+0·2
Aug. -	62·7	+0·9	+1·2	59·1	+1·7	56·1	+2·3	17·5	−2·4	66·2	0·450	+0·033	5·0	+0·4
Sept. -	56·7	+0·2	−0·4	53·7	−0·2	50·9	−0·1	18·3	−0·2	58·4	0·373	−0·005	4·2	0·0
Means -	60·8	+0·9	+0·6	57·1	+0·8	53·9	+1·0	18·5	−1·4	64·1	0·418	+0·014	4·7	+0·2

1878. Months	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 37 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 37 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 37 years.	Rain. Amount.	Rain. Diff. from average of 63 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
July -	75	0	29·863	+0·060	528	0	0·3	−2·3	218	0	2	29	39·0	60·2
Aug. -	79	+3	29·586	−0·206	523	− 6	5·4	+3·0	261	0	0	31	45·0	57·9
Sept. -	81	+1	29·819	+0·015	534	+ 1	0·8	−1·6	248	0	10	20	31·6	53·1
Means -	78	+1	29·756	−0·044	528	− 2	Sum 6·5	Sum −0·9	Mean 242	Sum 0	Sum 12	Sum 80	Lowest 31·6	Highest 60·2

NOTE.—In reading this table it will be borne in mind that the plus sign (+) signifies *above* the average, and that the minus sign (−) signifies *below* the average.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter were as follows:—

Direction of Wind.	July. Average.	July. 1878.	July. Departure from Average.	August. Average.	August. 1878.	August. Departure from Average.	September. Average.	September. 1878.	September. Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	2½	7	+4½	2	1	−1	1½	7	+5½
N.	3½	7	+3½	3	1	−2	3½	3	− ½
N.E.	3¾	5	+1¼	3	1	−2	5¼	1	−4¼
E.	1¼	4	+2¾	1¼	5	+3¾	1¾	0	−1¾
S.E.	½	1	+ ½	1¼	6	+4¾	1¼	1	− ¼
S.	2½	0	−2½	3	7	+4	2	3	+1
S.W.	10½	2	−8½	10½	8	−2½	7¼	5	−2¼
W.	4	5	+1	3¾	2	−1¾	2½	9	+6½
Calm (nearly.)	2¼	0	−2¼	3¼	0	−3¼	4¼	1	−3¼

The plus sign (+) denotes excesses over averages; the largest numbers affected with this sign in the month of July are opposite to the N., N.W., and E., in August to the E., S.E., and S., and in September to the N.W. and W.

The minus sign (−) denotes defects below averages; the largest numbers affected with this sign in the month of July are opposite to the S.W., in August to the N., N.E., and S.W., and in September to the N.E.

Lightning was seen but thunder was not heard, on 9 days in July, 12 days in August, and on 5 days in September.

Solar halos were seen on 2 days in July, 7 days in August, and 3 days in September.

Lunar halos were seen on six nights during the quarter.

Hail fell on the 24th of July at Oxford. On the 3rd of August at Royston and Cardington. On the 16th of September at Stonyhurst; on the 18th at Halifax, Cockermouth, and Carlisle; on the 19th at Cockermouth; on the 23rd at Eccles; and on the 30th at Llandudno.

Fog prevailed on 14 days in July; 14 days in August; and on 18 days in September.

Wheat Cut on the 17th of July at Helston; on the 24th at Osborne; on the 25th at Guernsey and Strathfield; and on the 29th at Cardington. On the 1st of August at Oxford and Stockton; on the 5th at Torquay; on the 13th at Kelstern; and on the 15th at Bath.

Barley Cut on the 25th of July at Guernsey and on the 31st at Cardington. On the 13th of August at Torquay. On the 3rd of September at Strathfield.

Oats Cut on the 8th of July at Helston; on the 22nd at Guernsey; and on the 30th at Osborne. On the 2nd of August at Oxford; and on the 13th at Torquay.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING SEPTEMBER 30TH, 1878.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the sixth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1878. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.M.S.	204	July	29·838	0·562	73·0	52·5	20·5	67·3	57·0	10·3	60·3	58·2	·487	5·4	0·4	93	530	—	—	0·9	11	7	5	8	3·5	3·5	11	2·94
		Aug.	29·555	0·743	71·5	54·0	17·5	63·5	58·2	8·3	61·5	56·9	·463	5·1	1·0	85	524	—	—	1·3	3	5	13	10	3·8	5·2	16	2·76
		Sept.	29·817	0·812	68·0	47·5	20·5	63·5	54·5	9·0	58·5	52·6	·398	4·4	1·1	81	532	—	—	1·3	9	4	6	11	3·0	4·4	9	3·14
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	July	29·997	0·558	89·0	49·0	40·0	75·4	56·9	18·5	64·1	57·2	·469	5·2	1·4	78	529	98·2	52·0	1·5	13	8	5	5	4·7	2·2	11	2·00
		Aug.	29·708	0·762	80·0	47·0	33·0	72·8	55·8	17·0	62·6	56·5	·458	5·1	1·3	81	526	93·3	49·0	1·5	3	7	12	9	5·3	2·8	18	3·57
		Sept.	29·994	0·756	85·0	39·0	46·0	68·9	52·5	16·4	59·4	54·3	·423	4·7	0·9	84	534	87·5	45·4	1·2	7	5	8	10	2·7	2·4	10	2·28
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	July	30·008	0·560	85·0	46·0	39·0	73·2	56·0	17·2	62·4	55·0	·433	4·8	1·5	77	531	—	—	2·1	11	7	5	8	—	5·3	9	1·51
		Aug.	29·690	0·818	74·0	46·0	28·0	69·8	56·3	13·5	60·8	55·6	·442	4·9	1·0	83	527	—	—	2·6	3	5	10	13	—	6·5	24	4·49
		Sept.	29·970	0·743	75·0	43·0	32·0	64·3	52·2	14·1	58·4	51·4	·380	4·3	1·2	78	535	—	—	2·7	7	3	5	15	—	6·0	11	3·58
EASTBOURNE (Sussex), Miss W. L. Hall.	12	July	29·971	0·604	83·3	45·7	37·6	72·8	54·9	17·9	62·8	56·3	·455	5·0	1·4	82	530	123·2	46·9	0·2	8	10	5	8	1·3	—	8	0·97
		Aug	29·705	0·858	74·0	50·7	23·3	70·9	56·8	14·1	62·9	58·8	·498	5·5	0·9	87	525	124·1	48·0	0·7	4	7	8	12	4·6	—	21	4·75
		Sept	29·954	0·830	74·0	38·0	35·0	67·3	50·3	17·0	58·4	52·1	·391	4·4	1·1	80	535	116·8	41·2	0·3	8	3	6	13	0·8	—	12	2·35
PLYMOUTH (Devon), John Merrifield, Esq., F.R.A.S., F.M.S., LL.D.	69	July	30·063	0·596	81·0	49·5	31·5	71·3	57·3	14·0	63·0	56·6	·459	5·1	1·3	79	531	—	56·6	1·6	9	7	5	10	—	6·3	10	1·66
		Aug.	29·748	0·833	73·0	50·0	23·0	68·4	57·3	11·1	61·6	57·5	·475	5·2	0·9	89	527	—	56·7	1·6	4	7	11	9	—	7·7	21	5·35
		Sept.	30·026	0·772	72·0	40·5	31·5	65·0	51·5	13·5	57·5	52·7	·399	4·4	0·9	84	536	—	50·6	1·3	7	5	7	11	—	5·6	14	2·57
BABBACOMBE, Torquay (Devon), Edwin E. Glyde, Esq., F.M.S.	305	July	29·744	0·621	78·3	51·0	27·3	69·2	56·0	13·2	61·3	54·4	·424	4·8	1·3	78	528	138·0	49·8	0·9	8	8	3	12	2·8	5·9	9	1·51
		Aug.	29·433	—	72·8	49·0	23·8	68·0	56·3	11·7	60·8	55·7	·444	5·0	1·0	84	522	135·2	51·4	1·5	4	7	6	14	5·2	7·0	21	4·72
		Sept.	29·699	0·797	71·8	42·0	29·8	64·7	50·2	14·5	53·9	50·4	·365	4·1	1·1	79	532	129·3	43·0	1·2	4	4	4	18	3·4	5·7	11	1·73
VENTNOR (Royal National Hospital for Consumption), Isle of Wight, Hartley Sagar, Esq.	150	July	29·986	0·510	81·5	53·3	28·2	71·0	58·0	13·0	63·0	57·1	·468	5·1	1·3	81	530	—	—	—	4	10	6	11	7·6	5·5	12	4·13
		Aug.	—	0·859	70·0	55·0	15·0	63·4	59·3	7·1	61·7	58·4	·455	5·0	1·1	83	526	—	—	—	0	7	8	16	—	5·9	21	5·72
		Sept.	29·930	0·838	74·2	45·8	28·4	68·5	53·7	14·8	59·5	53·5	·410	4·6	1·1	81	533	—	—	—	3	3	5	19	7·5	4·7	11	1·91
OSBORNE (Isle of Wight), R. J. Mann, Esq.	172	July	29·849	0·673	87·8	43·1	44·7	75·5	55·7	19·8	63·6	61·8	·533	6·1	0·4	94	527	128·6	50·7	0·1	9	5	5	12	—	5·8	8	0·93
		Aug.	29·575	0·889	77·9	50·0	27·9	72·3	56·7	15·6	62·4	59·8	·515	5·7	0·5	92	523	123·2	53·5	0·2	4	7	12	8	—	7·1	15	2·94
		Sept.	29·822	0·839	75·7	39·0	36·7	67·6	50·8	16·8	57·8	53·6	·413	4·6	0·8	86	533	110·7	46·5	0·2	8	1	8	13	—	5·6	10	2·20
SOUTH BOURNE, near Bournemouth, (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	128	July	29·939	0·620	84·1	45·5	38·6	71·1	54·3	16·8	61·8	52·5	·396	4·4	1·8	72	531	—	—	—	8	9	3	11	—	2·4	9	1·02
		Aug.	29·638	0·869	74·6	50·3	24·3	68·7	56·4	12·3	61·6	54·4	·423	4·7	1·4	78	524	—	—	—	3	8	5	15	—	4·3	15	3·36
		Sept.	29·896	0·800	71·5	35·3	36·2	64·1	49·1	15·0	56·6	48·7	·345	3·9	1·2	75	536	—	—	—	9	3	2	16	—	2·4	10	2·47
BRIGHTON (Sussex), F. E. Sawyer, Esq., F.M.S.	206	July	29·814	0·640	80·2	48·2	32·0	72·2	56·2	16·0	62·8	54·0	·417	4·6	1·7	73	527	118·6	53·9	0·7	7	6	9	9	—	4·3	9	1·05
		Aug.	29·564	0·873	74·5	50·5	24·0	70·4	54·8	13·6	62·6	53·2	·406	4·4	1·8	72	523	109·6	54·5	0·8	2	9	9	11	—	6·3	23	4·52
		Sept.	29·797	0·845	71·0	41·7	29·3	65·5	50·0	15·5	57·6	48·3	·338	3·8	1·5	70	533	101·7	47·6	0·8	6	3	8	13	—	4·9	10	1·12
SALISBURY (Wilton House), T. Challis, Esq.	186	July	29·848	0·628	89·0	42·0	47·0	77·1	50·9	26·2	63·1	58·3	·489	5·4	1·0	85	527	127·8	—	1·2	14	3	3	11	—	5·9	9	1·11
		Aug.	29·553	0·878	77·0	45·0	32·0	73·7	51·9	21·8	61·6	58·1	·485	5·4	0·8	89	524	123·5	—	1·5	6	5	10	10	—	6·9	17	4·83
		Sept.	29·800	0·810	79·0	31·0	48·0	67·0	43·9	23·1	55·8	50·4	·367	4·1	0·9	83	535	109·3	—	1·2	9	0	5	16	—	5·7	12	1·60
BARNSTAPLE (Devon), William Knile, Esq.	43	July	30·013	0·640	87·0	51·0	36·0	74·6	59·4	15·2	65·3	56·6	·459	5·1	1·8	74	528	—	—	1·2	5	9	3	14	—	2·5	11	1·70
		Aug.	29·691	0·840	77·0	51·0	26·0	72·3	59·5	12·8	62·9	56·4	·457	5·0	1·3	80	525	—	—	1·3	3	5	13	10	—	3·7	19	5·62
		Sept.	29·958	0·790	78·0	46·0	32·0	66·6	54·8	11·8	59·4	54·5	·425	4·8	0·9	85	534	—	—	1·3	4	2	9	15	—	3·5	16	4·03
BATH (St. Gregory's College, Downside, Somerset). Rev. F. A. Gasquet, O.S.B.	596	July	29·414	0·682	81·8	46·0	35·8	70·0	55·6	14·4	60·6	56·1	·451	5·0	0·9	86	522	129·9	48·7	1·1	9	6	7	9	—	4·6	11	2·03
		Aug.	29·112	0·878	74·0	48·7	25·3	67·7	54·4	13·3	59·4	54·9	·431	4·8	0·8	86	518	—	50·6	1·7	6	6	8	11	—	7·9	22	8·00
		Sept.	29·357	0·836	72·8	38·9	33·9	65·5	48·8	14·7	55·2	50·9	·373	4·2	0·7	83	526	—	44·3	1·5	5	1	5	19	—	5·4	15	3·03

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1878. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
CATERHAM (Surrey), James Adam, Esq., M.D.	660	July	29·368	0·650	84·0	43·0	41·0	70·1	52·9	17·2	60·9	54·2	·421	4·7	1·3	79	521	—	49·6	2·4	13	6	4	8	—	3·3	8	1·03
		Aug.	29·088	0·750	77·0	43·0	34·0	69·0	53·1	15·9	60·5	54·9	·432	4·9	1·0	83	517	—	48·9	3·6	6	6	8	11	—	3·7	18	4·89
		Sept.	29·203	0·800	71·0	38·0	33·0	63·1	48·7	14·4	55·8	50·4	·367	4·1	0·9	83	526	—	44·6	2·8	10	3	4	13	—	3·3	10	1·60
RAMSGATE (Kent), Rev. E. Douglas O'Gara, O.S.B.	108	July	29·936	0·654	82·0	49·4	32·6	69·3	56·0	13·3	61·5	55·0	·432	4·8	1·3	79	531	113·0	49·1	1·1	9	8	6	8	—	6·4	6	0·86
		Aug.	29·671	0·949	76·0	52·8	23·2	69·6	57·6	12·0	62·4	55·4	·439	4·9	1·4	78	520	121·0	48·9	1·4	5	7	10	9	—	6·2	17	3·41
		Sept.	29·891	0·838	73·3	41·1	32·2	65·6	51·5	12·1	57·4	51·1	·375	4·2	1·1	80	535	109·6	44·6	1·2	6	4	7	13	—	4·9	13	2·04
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	July	29·858	0·684	85·5	42·8	42·7	74·6	52·0	22·6	62·0	55·0	·433	4·8	1·4	78	529	123·5	48·2	0·7	7	6	7	11	1·8	6·2	7	0·95
		Aug.	29·529	0·982	77·2	48·8	28·4	71·3	56·8	14·5	62·3	55·8	·446	5·0	1·2	80	523	124·4	51·9	0·8	1	7	12	11	2·3	7·1	18	4·35
		Sept.	29·795	0·813	73·6	31·8	41·8	66·0	46·4	19·6	55·3	50·8	·372	4·2	0·8	85	534	112·9	41·2	0·6	3	2	8	17	1·9	5·6	8	0·75
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	Sept.	29·848	0·780	75·0	32·3	42·7	66·6	46·8	19·8	55·7	49·9	·361	4·0	1·2	82	536	100·8	42·2	0·7	3	2	15	10	4·0	4·8	12	0·79
MARLBOROUGH, The Green (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	474	July	29·555	0·666	83·9	48·7	40·2	71·8	53·3	18·5	61·0	55·2	·436	4·9	1·1	81	525	126·6	50·6	0·2	15	7	3	6	—	6·0	10	2·79
		Aug.	29·252	0·904	74·6	48·0	26·6	70·4	54·7	15·7	60·6	55·6	·443	5·0	0·9	84	520	126·1	50·4	0·3	4	6	11	10	—	6·5	19	5·52
		Sept.	29·490	0·806	73·4	32·7	40·7	65·6	47·0	18·6	55·6	49·8	·358	4·0	0·9	82	529	114·2	41·8	0·2	8	1	7	14	—	5·6	14	1·76
BLACKHEATH (London), James Glaisher, Esq., F.R.S.	160	July	29·859	0·708	87·5	44·3	43·2	73·7	55·2	18·5	62·6	55·0	·434	4·8	1·5	78	528	126·9	51·4	0·6	13	7	2	9	—	6·4	10	0·58
		Aug.	29·583	0·958	77·8	49·8	28·0	71·1	55·8	15·3	61·8	55·1	·435	4·8	1·4	79	524	127·4	52·2	1·0	2	8	14	7	—	6·4	17	5·27
		Sept.	29·820	0·851	76·6	37·8	38·8	66·3	49·3	17·0	56·6	50·4	·367	4·1	1·0	80	534	112·3	44·9	0·8	7	2	6	15	—	5·8	10	0·96
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.S., F.M.S.	150	July	29·881	0·677	89·5	44·2	45·3	75·2	54·4	20·8	62·8	55·9	·449	5·0	1·4	79	528	—	—	1·5	13	7	1	10	—	5·3	10	0·74
		Aug.	29·594	0·935	79·3	48·0	31·3	72·9	55·7	17·2	62·5	58·1	·483	5·4	0·6	86	523	—	—	1·8	7	8	7	9	—	6·9	17	4·31
		Sept.	29·836	0·789	79·4	34·0	45·4	67·2	47·9	19·3	56·9	50·5	·368	4·1	1·1	79	534	—	—	1·3	7	2	6	15	—	5·0	13	1·10
CHISWICK (Middlesex), W. P. Thomson, Esq.	25	July	29·902	—	86·0	43·0	43·0	76·8	52·2	24·6	62·8	—	—	—	—	—	—	128·7	—	2·3	8	6	5	12	—	5·8	6	2·31
		Aug.	29·654	0·892	80·0	48·0	32·0	72·8	54·7	18·1	62·0	—	—	—	—	—	—	119·7	—	2·6	3	8	9	11	—	7·6	16	5·61
		Sept.	29·905	0·816	75·5	35·0	40·5	67·8	45·5	22·3	56·3	—	—	—	—	—	—	113·2	—	1·6	4	2	7	17	—	6·3	6	0·72
CAMDEN SQUARE (London). G. J. Symons, Esq., F.R.S., F.M.S.	123	July	29·913	0·691	86·2	43·5	42·7	75·1	55·2	19·9	63·5	55·2	·437	4·8	1·7	75	528	121·6	52·5	—	12	3	3	13	—	5·5	7	0·64
		Aug.	29·629	0·972	79·4	50·1	29·3	72·6	55·8	16·8	62·6	55·9	·448	5·0	1·3	79	524	116·2	52·8	—	7	5	11	8	—	7·3	22	6·72
		Sept.	29·867	0·834	75·4	37·7	37·7	66·7	49·1	17·6	56·9	50·9	·371	4·2	1·0	80	535	103·3	45·8	—	6	2	4	18	—	4·7	12	0·83
OXFORD OBSERVATORY, Professor Pritchard.	210	July	29·822	0·646	84·3	46·7	37·6	72·0	54·7	17·3	63·0	54·5	·426	4·7	1·7	74	528	118·3	51·1	0·9	11	5	2	13	2·4	7·0	7	1·13
		Aug.	29·520	0·881	75·7	49·8	25·9	71·1	54·0	17·1	62·3	55·1	·435	4·9	1·4	78	523	120·5	53·9	1·1	5	6	8	12	3·8	5·3	19	5·12
		Sept.	29·761	0·791	73·2	33·4	39·8	64·6	49·1	15·5	55·9	51·1	·375	4·4	0·7	86	533	113·3	44·8	1·1	4	3	6	17	0·9	6·8	11	1·55
GLOUCESTER ASYLUM, E. Toller, Esq., M.D.	100	July	29·957	0·668	87·5	41·0	46·5	75·3	52·4	22·9	62·6	57·8	·480	5·3	1·0	84	530	122·6	—	0·5	12	8	3	8	1·7	6·9	9	2·07
		Aug.	29·632	0·932	79·0	47·0	32·0	73·9	53·2	20·7	62·0	57·5	·475	5·3	0·9	86	525	119·2	—	0·6	5	6	9	11	2·5	8·1	18	4·39
		Sept.	29·858	0·780	77·0	33·0	44·0	68·1	46·9	21·2	57·4	51·3	·378	4·2	1·1	80	534	108·4	—	0·6	8	2	3	17	1·0	7·0	11	2·68
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	July	29·775	0·707	86·3	41·0	45·3	74·8	51·4	23·4	61·4	53·9	·416	4·6	1·4	77	528	—	—	—	14	5	1	11	—	6·8	6	0·33
		Aug.	29·491	0·993	79·3	44·0	35·3	72·6	53·0	19·6	61·2	54·3	·421	4·7	1·3	78	523	—	—	—	5	5	10	11	—	6·2	22	4·39
		Sept.	29·718	0·838	76·0	37·2	38·8	66·0	47·1	18·9	55·8	49·6	·357	4·0	1·0	80	533	—	—	—	4	2	7	17	—	5·8	11	0·79
CARDINGTON (near Bedford), Mr. J. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	105	July	29·923	0·690	86·4	42·0	44·4	73·2	53·1	20·1	62·6	55·0	·432	4·8	1·5	76	529	112·0	45·7	0·7	11	7	2	11	—	5·5	6	0·80
		Aug.	29·685	1·020	77·6	46·4	31·2	71·9	54·1	17·8	61·6	57·7	·478	5·3	0·8	87	525	107·8	50·5	0·9	3	9	7	12	—	6·3	19	5·00
		Sept.	29·862	0·820	74·6	35·6	39·0	65·7	47·1	18·6	57·0	53·2	·405	4·5	0·7	87	534	98·3	41·2	1·2	5	3	3	19	—	5·5	12	0·90
CAMBRIDGE (Trinity College). J. W. L. Glaisher, Esq., M.A., F.R.S.	40	July	29·963	0·702	88·4	40·3	48·1	74·9	52·6	22·3	61·3	54·4	·424	4·7	1·3	79	532	139·5	47·9	1·0	11	8	4	8	—	6·5	8	0·89
		Aug.	29·676	1·074	81·0	41·1	39·9	74·4	53·7	20·7	62·2	55·3	·439	4·9	1·4	79	526	139·1	50·4	1·2	4	6	11	10	—	6·0	23	3·61
		Sept.	29·902	0·842	77·1	34·0	43·1	67·3	48·2	19·1	56·9	51·5	·381	4·2	0·9	82	535	121·0	40·7	1·2	6	2	10	12	—	5·9	15	0·80
STOCKTON RECTORY, near Rugby (Warwickshire), W. Tuckwell, Esq.		July	29·728	0·636	88·0	40·0	48·0	73·0	51·1	21·9	61·0	56·9	·464	5·1	0·9	87	528	99·6	—	0·4	9	8	4	10	—	7·2	6	0·91
		Aug.	29·431	0·974	78·5	44·0	34·5	72·1	52·2	19·9	60·0	56·6	·459	5·2	0·6	89	523	85·4	—	0·5	6	7	7	11	—	5·8	21	6·46
		Sept.	29·631	0·770	74·5	32·5	42·0	64·9	46·7	18·2	55·0	52·2	·392	4·4	0·5	90	532	75·9	—	0·4	5	1	8	16	—	6·1	11	1·61

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1878. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat^n. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	50	July	29·966	0·698	84·5	41·8	42·7	70·6	52·7	17·9	60·0	—	—	—	—	—	—	—	—	0·9	9	10	4	8	5·7	5·9	8	1·07
		Aug.	29·695	1·082	79·1	44·0	35·1	72·1	54·4	17·7	61·6	—	—	—	—	—	—	—	—	0·9	3	14	7	7	6·3	5·5	18	4·73
		Sept.	29·895	0·984	78·0	38·4	39·6	66·3	48·0	18·3	56·5	—	—	—	—	—	—	—	—	1·1	6	5	9	10	6·0	5·6	19	3·20
NORWICH (Norfolk), John Quinton, Esq., Jun.	42	July	29·962	0·728	83·5	46·0	37·5	70·6	56·1	14·5	61·8	54·0	·418	4·6	1·5	76	531	—	—	—	11	4	2	14	—	—	6	0·51
		Aug.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	12	10	6	—	—	—	5·35
		Sept.	29·895	0·876	75·2	43·0	32·2	64·7	51·3	13·4	56·9	52·9	·401	4·5	0·7	86	535	—	—	—	3	2	10	15	—	—	13	2·32
WROTTESLEY, WOLVERHAMPTON (Stafford), E. Simpson, Esq.	500	July	29·461	0·608	86·0	46·3	39·7	69·2	53·1	16·1	59·2	52·4	·394	4·4	1·2	79	525	—	—	—	12	6	1	12	—	7·4	6	0·61
		Aug.	29·172	0·988	74·5	46·6	27·9	68·1	52·9	15·2	58·8	53·5	·410	4·5	1·0	82	520	—	—	—	6	9	6	10	—	7·8	22	6·48
		Sept.	29·398	0·790	70·6	37·5	33·1	62·4	48·0	14·4	54·3	48·8	·344	3·9	1·0	81	529	—	—	—	5	4	13	8	—	7·2	14	2·75
LEICESTER (Town Museum), W. J. Harrison, Esq., F.G.S.	245	July	29·770	0·528	84·0	42·9	41·1	69·5	53·8	15·7	61·1	52·3	·393	4·4	1·6	74	528	122·8	46·3	0·7	10	8	3	10	—	6·9	9	2·05
		Aug.	29·476	1·046	74·8	46·1	28·7	69·2	54·2	15·0	60·8	53·8	·413	4·6	1·3	78	523	126·4	48·3	0·7	6	8	7	10	—	7·6	21	6·60
		Sept.	29·695	0·844	70·3	33·6	36·7	62·6	48·4	14·2	55·4	48·2	·339	3·8	1·1	77	533	107·8	40·8	0·8	5	1	8	16	—	6·5	13	1·79
NOTTINGHAM (Notts), M.O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	183	July	29·816	0·724	86·4	40·0	46·4	72·3	52·6	19·7	60·9	53·9	·414	4·7	1·3	78	529	115·0	51·1	0·3	9	9	4	9	1·3	7·1	11	1·63
		Aug.	29·526	1·098	76·4	42·2	34·2	71·0	52·5	18·5	60·1	55·2	·437	4·9	0·9	85	525	115·6	51·7	0·4	3	14	6	8	2·4	6·7	26	6·45
		Sept.	29·732	0·818	74·4	33·7	40·7	65·7	47·1	18·6	55·4	51·7	·385	4·3	0·6	88	534	99·1	46·4	0·4	5	4	9	12	1·5	5·7	19	2·14
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	39	July	29·944	0·694	79·2	39·3	39·9	69·4	50·6	18·8	59·3	51·9	·388	4·4	1·3	76	534	128·4	48·2	1·7	15	3	4	9	—	6·0	9	0·37
		Aug.	29·665	1·126	78·4	35·7	42·7	69·9	50·0	19·9	59·5	53·6	·412	4·6	1·1	81	528	125·4	49·0	1·8	6	9	9	7	—	5·4	17	3·87
		Sept.	29·869	0·846	73·2	34·2	39·0	63·8	45·2	18·6	54·9	49·7	·357	4·0	0·9	83	537	104·3	40·3	1·6	6	1	14	9	—	6·6	11	2·17
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	100	July	29·943	0·750	83·6	49·5	34·1	71·9	55·6	16·3	61·6	54·9	·431	4·8	1·3	79	531	—	—	0·7	10	6	2	13	—	6·4	4	1·19
		Aug.	29·621	1·000	78·5	51·8	26·7	70·9	55·5	15·4	61·6	54·0	·417	4·6	1·5	76	525	—	—	1·0	5	8	5	13	—	6·5	18	4·46
		Sept.	29·817	1·110	73·2	43·0	30·2	65·1	52·4	12·7	57·6	50·7	·370	4·1	1·2	78	533	—	—	1·0	5	3	1	21	—	5·6	16	3·75
KELSTERN GRANGE, near Louth (Lincolnshire), D. Grant Briggs, Esq., F.M.S.	393	July	29·601	0·724	81·6	41·0	40·6	68·5	51·8	16·7	58·5	53·4	·409	4·5	1·0	83	528	126·5	48·7	0·6	10	6	3	12	5·8	6·9	14	1·20
		Aug.	29·324	1·130	72·6	44·1	28·5	67·6	52·5	15·1	58·8	54·6	·427	4·7	0·8	86	523	125·9	49·5	1·0	5	11	8	7	7·4	6·2	26	5·92
		Sept.	29·512	0·930	73·4	36·0	37·4	62·8	47·0	15·8	54·1	48·6	·343	3·9	0·8	81	531	108·3	43·4	1·0	4	3	9	14	5·9	5·5	15	1·97
LIVERPOOL OBSERVATORY, John Hartnup, Esq., F.R.A.S.	197	July	29·856	0·734	83·5	51·1	32·4	67·3	56·1	11·2	60·3	54·2	·419	4·7	1·2	80	531	—	—	0·9	6	4	4	17	—	5·6	5	1·08
		Aug.	29·510	1·056	73·9	52·3	21·6	67·2	55·9	11·3	60·1	54·9	·431	4·8	1·0	83	525	—	—	1·0	6	8	4	13	—	6·0	18	4·10
		Sept.	29·708	0·958	69·9	46·0	23·9	62·1	52·9	9·2	56·4	49·8	·359	4·0	1·1	79	532	—	—	1·2	4	3	7	16	—	6·8	19	4·18
ECCLES (near Manchester), T. Mackereth, Esq., F.M.S., F.R.A.S.	145	July	29·880	0·740	89·5	41·1	48·4	71·8	52·0	19·8	60·7	53·5	·410	4·5	1·4	77	531	92·8	46·2	0·4	12	6	1	12	0·7	6·7	9	1·36
		Aug.	29·577	1·068	76·9	44·0	32·9	70·6	51·5	19·1	60·0	53·8	·415	4·6	1·2	80	526	91·5	45·6	0·3	3	10	9	9	2·1	7·1	22	5·53
		Sept.	29·783	1·004	76·5	35·2	41·3	64·5	46·8	17·7	54·7	49·0	·348	4·0	0·9	81	536	78·5	42·8	0·4	7	1	7	15	1·2	6·4	19	4·45
BERMERSIDE OBSERVATORY, HALIFAX (Yorkshire), E. J. Crossley, Esq., F.R.A.S.	520	July	29·476	0·608	90·2	42·6	47·6	70·8	51·3	19·5	59·2	51·2	·375	4·2	1·4	75	526	116·4	50·1	0·5	4	10	7	10	—	6·3	8	1·19
		Aug.	29·176	1·074	73·0	44·0	29·0	68·0	52·2	15·8	58·1	52·9	·401	4·5	0·9	83	521	108·0	48·7	0·6	5	10	7	9	—	7·0	18	5·70
		Sept.	29·353	0·970	78·0	38·0	40·0	62·9	48·1	14·8	54·3	49·9	·360	4·1	0·7	85	528	98·4	43·3	0·8	2	4	9	15	—	6·4	13	4·01
HULL (Yorkshire), Mr. E. Peake.	12	July	30·005	0·766	86·0	43·0	43·0	71·3	53·4	17·9	60·5	54·0	·416	4·6	1·3	79	533	103·1	50·2	—	—	—	—	—	1·5	—	7	0·88
		Aug.	29·715	1·132	73·0	45·0	28·0	69·1	53·6	15·5	60·7	54·9	·432	4·9	1·1	82	528	96·5	51·3	—	—	—	—	—	1·1	—	23	5·31
		Sept.	29·894	0·998	73·0	36·0	37·0	63·8	49·1	14·7	55·8	50·9	·375	4·2	0·8	85	536	84·1	46·0	—	—	—	—	—	1·3	—	14	2·81
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.S., F.M.S., F.R.A.S.	363	July	29·635	0·856	85·5	44·4	41·1	70·9	53·2	17·7	60·1	53·9	·416	4·6	1·2	80	527	128·5	52·6	1·2	6	7	1	17	—	7·3	13	1·13
		Aug.	29·325	1·078	78·0	46·1	31·9	69·8	52·7	17·1	59·6	54·2	·420	4·7	1·0	83	522	120·1	52·7	1·2	6	10	10	5	—	8·1	25	7·01
		Sept.	29·512	0·945	71·9	34·9	37·0	63·3	47·7	15·6	54·6	49·3	·353	4·0	0·8	82	531	108·5	45·4	1·4	6	2	9	13	—	7·2	18	6·29
LEEDS (Philosophical Hall) (Yorkshire), H. Crowther, Esq.	137	July	29·876	0·819	92·0	45·0	47·0	74·5	55·1	19·4	63·3	51·7	·384	4·3	2·2	66	528	88·0	—	1·6	7	8	3	13	—	3·4	9	0·86
		Aug.	29·590	1·072	77·0	47·0	30·0	70·5	53·7	16·8	60·9	53·1	·404	4·5	1·5	76	526	81·6	—	1·8	4	12	7	8	—	5·1	22	5·51
		Sept.	29·770	0·843	75·0	38·0	37·0	67·8	49·7	18·1	56·4	52·3	·394	4·4	0·7	87	533	74·3	—	1·8	4	2	7	17	—	5·1	15	2·92
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	366	July	29·665	0·735	80·6	45·0	44·6	70·6	55·3	15·3	60·9	51·2	·377	4·2	1·8	70	527	93·2	—	1·0	8	5	4	14	—	5·9	6	1·25
		Aug.	29·354	1·024	73·4	48·8	24·6	68·0	54·6	13·4	59·7	51·8	·386	4·3	1·4	76	523	86·9	—	0·8	6	7	6	12	—	6·1	19	6·89
		Sept.	29·512	0·913	70·6	37·2	33·4	62·2	50·3	11·9	55·4	49·3	·353	3·9	1·0	81	530	76·8	—	1·2	8	2	3	17	—	5·9	16	3·80

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1878. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat^n. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.R.A.S., F.M.S.	146	July	29·856	0·728	84·9	43·6	41·3	69·8	53·3	16·5	60·5	52·5	·395	4·4	1·5	75	531	115·7	46·0	0·3	8	3	6	14	1·1	6·4	9	0·67
		Aug.	29·538	1·026	79·8	44·3	35·5	68·7	53·8	14·9	60·0	52·8	·401	4·5	1·3	77	526	108·8	45·0	0·4	7	9	6	9	2·2	7·0	17	3·82
		Sept.	29·724	1·044	71·4	32·7	38·7	62·4	50·3	12·1	55·3	49·4	·354	4·0	1·0	81	534	95·8	42·4	0·6	6	4	12	8	2·9	7·1	21	5·86
ALLENHEADS (Northumberland), Mr. Joseph Charlton, Assistant to W. B. Beaumont, Esq., M.P.	1360	July	28·636	0·714	—	41·0	—	—	50·8	—	—	—	—	—	—	—	—	116·4	—	0·6	—	—	—	—	—	6·1	12	1·49
		Aug.	28·360	1·037	—	44·6	—	—	49·4	—	—	—	—	—	—	—	—	109·2	—	0·7	—	—	—	—	—	6·6	24	6·66
		Sept.	28·470	0·881	—	34·6	—	—	45·4	—	—	—	—	—	—	—	—	97·4	—	1·3	—	—	—	—	—	6·4	21	4·49
SILLOTH RECTORY (Cumberland), Rev. Francis Redford, M.A., F.R.A.S., F.M.S.	28	July	29·993	0·746	88·3	44·4	43·9	74·7	52·7	22·0	61·9	53·7	·414	4·6	1·6	75	531	109·5	49·4	1·4	4	10	9	8	5·2	3·8	5	0·67
		Aug.	29·689	1·023	78·6	45·4	33·2	71·4	52·5	18·9	60·0	53·3	·409	4·5	1·3	78	528	104·9	49·2	1·0	4	11	10	5	7·9	5·2	23	4·66
		Sept.	29·841	0·988	76·3	37·2	39·1	66·2	49·3	16·9	56·3	49·9	·361	4·0	1·0	79	535	99·7	46·2	1·9	6	6	6	12	7·6	4·8	21	3·97
CARLISLE (Cumberland), Isaac Cartmell, Esq., F.M.S.	114	July	29·884	0·696	82·4	40·0	42·4	71·8	51·0	20·8	60·5	51·7	·384	4·3	1·6	73	531	108·6	46·2	1·8	6	5	3	17	3·3	5·7	11	0·94
		Aug.	29·594	1·018	79·0	44·3	34·7	69·5	51·3	18·2	59·6	53·4	·409	4·6	0·8	81	527	99·8	46·5	1·9	6	7	6	12	3·6	6·7	23	4·00
		Sept.	29·748	1·052	74·5	35·0	39·5	64·0	47·4	16·6	54·7	48·6	·341	3·9	0·9	79	535	93·9	43·1	1·7	4	3	6	17	5·4	6·6	19	4·15
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	July	29·869	0·774	83·0	47·0	36·0	71·3	57·3	14·0	62·0	52·3	·394	4·3	1·9	71	530	112·1	51·7	1·3	9	10	3	9	—	3·9	10	0·50
		Aug.	29·598	1·096	75·0	49·0	26·0	68·0	55·2	12·8	59·2	54·1	·419	4·7	0·9	84	527	86·0	50·0	1·2	2	12	3	14	—	5·6	21	5·21
		Sept.	29·720	1·128	72·0	42·0	30·0	63·6	50·9	12·7	55·9	50·3	·366	4·1	0·9	82	533	82·1	45·2	1·4	7	6	5	12	—	4·8	16	1·79
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	May	29·663	0·904	64·0	35·0	29·0	56·9	45·2	11·7	49·4	44·4	·293	3·4	0·7	84	539	—	42·7	1·3	10	7	4	10	—	7·0	20	1·95
		June	29·833	0·917	77·0	40·0	37·0	61·7	51·8	19·9	55·2	48·9	·347	3·9	1·0	80	536	—	49·1	1·1	9	4	6	11	—	5·1	14	1·62
		July	29·928	0·737	80·0	47·0	33·0	65·1	55·1	10·0	59·0	49·9	·359	4·1	1·5	72	534	—	52·9	1·2	5	9	9	8	—	4·8	7	0·13
		Aug.	29·657	0·980	69·3	46·0	23·3	63·9	54·3	9·6	57·7	52·6	·397	4·4	0·9	83	530	—	53·1	1·3	7	5	5	14	—	6·9	21	4·71
		Sept.	29·773	1·066	68·5	40·0	28·5	61·2	49·7	11·5	54·4	48·5	·340	3·9	0·9	80	536	—	48·4	1·6	8	3	5	14	—	5·7	14	1·68
WARINGSTOWN, CO. DOWN (Ireland), Thomas Waring, Esq.	191	July	29·784	0·638	84·0	44·0	44·0	72·1	52·3	19·8	60·0	54·9	·432	4·8	1·0	84	530	116·5	50·6	2·5	9	3	3	16	—	4·2	5	0·57
		Aug.	29·468	0·926	79·0	45·0	34·0	70·4	52·8	17·6	59·4	54·1	·420	4·7	1·0	84	525	107·8	49·5	2·7	5	9	7	10	—	4·9	19	3·52
		Sept.	29·631	0·998	73·0	38·0	35·0	64·9	49·9	15·0	55·8	52·2	·392	4·4	0·6	88	532	99·0	47·1	2·8	4	2	7	17	—	4·5	18	3·24

Second Rain-gauges are placed—

			July.	August.	September.	Total in Quarter.
At Strathfield Turgiss,	at the height of 38 feet	*above the ground*,	the amount collected was 0·62 inches.	3·15 inches.	0·53 inches.	4·30 inches.
,, Oxford,	,, 22 feet	,,	,, 1·09 ,,	5·01 ,,	1·27 ,,	7·37 ,,
,, Cardington,	,, 36 feet	,,	,, 0·55 ,,	4·40 ,,	0·66 ,,	5·61 ,,
,, Eccles,	,, 34 feet	,,	,, 1·28 ,,	5·08 ,,	3·81 ,,	10·17 ,,
,, Nottingham,	,, 39 feet	,,	,, 1·62 ,,	6·12 ,,	2·01 ,,	9·75 ,,
,, Holkham,	,, 4 feet	,,	,, 0·59 ,,	3·48 ,,	2·42 ,,	6·49 ,,

NOTE.—*Barometer Reading*, LEICESTER, 19th July, 9 h. p.m., 30·518 in., has been altered to 30·018 in.
,, BARNSTAPLE, 16th Aug., 3h. p.m., 30·59 in., ,, 29·59 in.

Rainfall on Beachy Head. { At 515 feet above sea level. – July 1·03 inch. – August 3·30 inches. – September 1·81 inch. – Total 6·17 inches.
,, 495 ,, ,, – ,, 0·93 ,, – ,, 3·53 ,, – ,, 1·69 ,, – ,, 6·18 ,,

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·504	73·0	47·5	25·5	65·8	56·6	19·5	9·2	60·1	55·9	·449	5·0	0·8	90	529	—	—	1·2	8	5	8	10	3·4	4·4	36	8·91
Helston	29·564	89·0	39·0	50·0	72·4	55·1	39·7	17·3	62·0	56·0	·450	5·0	1·2	81	530	93·0	48·1	1·4	8	7	8	8	4·2	2·5	39	7·78
Truro	29·517	85·0	43·0	42·0	69·8	54·8	33·0	15·0	60·5	54·0	·418	4·7	1·2	79	531	—	—	2·5	7	5	7	12	—	5·9	44	9·38
Plymouth	29·576	81·0	49·5	40·5	68·2	55·4	28·7	12·8	60·7	55·6	·441	4·9	1·0	84	531	—	51·6	1·5	7	6	8	10	—	6·5	45	9·26
Torquay	29·537	78·3	42·0	36·3	67·3	54·2	27·0	13·1	59·7	53·5	·411	4·6	1·1	80	527	134·2	48·1	1·2	5	6	4	15	3·8	6·2	41	7·96
Ventnor	—	81·5	45·8	35·7	68·6	57·0	23·9	11·6	61·4	55·7	·444	4·9	1·2	82	530	—	—	—	2	7	6	15	—	5·4	44	11·79
Osborne	—	87·8	39·0	48·8	71·8	54·4	36·4	17·4	61·3	58·4	·494	5·5	0·6	91	528	120·8	50·2	0·2	7	4	8	11	—	6·2	33	6·91
Bournemouth	29·572	84·1	35·3	48·8	63·0	53·3	33·0	14·7	60·0	51·5	·388	4·3	1·5	75	531	—	—	—	7	7	3	14	—	3·0	34	6·21
Brighton	29·546	90·2	41·7	33·5	69·4	54·3	28·4	15·1	61·0	51·8	·381	4·3	1·7	72	528	110·0	52·0	0·8	5	6	9	11	—	5·1	42	6·69
Salisbury	29·481	89·0	31·0	58·0	72·6	48·9	42·3	23·7	60·2	55·6	·445	5·0	0·9	86	529	120·2	—	1·3	10	3	6	12	—	6·2	38	7·94
Barnstaple	29·436	87·0	45·0	41·0	71·2	57·2	31·3	13·3	62·5	55·8	·447	5·0	1·3	80	529	—	—	1·3	4	5	8	13	—	3·2	46	11·35
Bath	29·508	81·8	38·9	42·9	67·1	52·9	31·7	14·2	58·4	54·0	·418	4·7	0·8	86	522	—	47·9	1·4	7	4	7	13	—	6·0	48	12·69
Caterham	29·549	84·0	38·0	46·0	67·4	51·6	36·0	15·8	59·1	53·2	·407	4·6	1·1	82	521	—	47·7	3·0	10	5	5	11	—	3·4	36	7·52
Ramsgate	29·543	82·0	41·1	40·9	67·5	55·0	29·3	12·5	60·4	53·8	·415	4·6	1·3	79	529	114·5	47·5	1·2	7	6	8	10	—	5·8	35	6·31
Strathfield Turgiss	29·518	85·5	31·8	53·7	70·6	51·7	37·6	18·9	59·9	53·9	·417	4·7	1·1	81	529	121·9	47·1	0·7	4	5	9	13	2·0	6·3	33	6·66
Marlborough	29·504	83·9	32·7	51·2	69·3	51·7	35·9	17·6	59·1	53·5	·412	4·6	1·0	82	525	122·3	47·6	0·2	9	5	7	10	—	6·0	43	10·05
Blackheath	29·512	87·5	37·8	49·7	70·4	53·4	36·7	17·0	60·3	53·5	·412	4·6	1·3	79	529	122·2	49·5	0·8	7	6	7	10	—	6·2	37	6·81
Streatley	29·502	89·5	34·0	55·5	71·8	52·7	40·7	19·1	60·7	54·8	·433	4·8	1·0	81	528	—	—	1·5	9	6	5	11	—	5·7	40	6·13
Camden Square	29·514	86·2	37·7	48·5	71·5	53·4	36·6	18·1	61·0	54·0	·419	4·7	1·3	78	529	113·7	50·4	—	8	3	6	13	—	5·8	41	8·19
Oxford	29·512	84·3	33·4	50·9	69·2	52·6	34·4	16·6	60·7	53·6	·412	4·7	1·3	79	528	117·4	49·9	1·0	7	5	5	14	2·4	6·4	37	7·20
Gloucester	29·471	87·5	33·0	54·5	72·4	50·8	40·8	21·6	60·7	55·5	·444	4·9	1·0	83	530	116·7	—	0·6	8	5	5	12	1·7	7·3	38	9·14
Royston	29·549	86·3	37·2	49·1	71·1	50·5	39·8	20·6	59·5	52·6	·398	4·4	1·2	78	528	—	—	—	8	4	6	13	—	6·3	39	5·31
Cardington	29·475	83·4	35·6	50·8	70·3	51·4	38·2	18·9	60·4	55·9	·438	4·8	1·0	83	529	105·4	45·8	0·9	6	6	4	14	—	5·8	37	6·79
Cambridge	29·477	88·4	34·0	54·4	72·2	51·5	43·7	20·7	60·1	53·7	·415	4·6	1·2	80	531	133·2	45·3	1·1	7	5	8	10	—	6·1	46	5·98
Stockton	—	85·0	32·5	55·5	70·0	50·0	41·5	20·0	58·7	55·2	·448	4·9	0·7	89	528	84·0	—	0·4	7	5	6	12	—	6·4	38	5·30
Somerleyton	—	84·5	38·4	46·1	69·7	51·7	39·1	18·0	59·4	—	—	—	—	—	—	—	—	1·0	6	10	7	8	6·0	5·7	45	8·15
Norwich	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6	6	7	12	—	—	—	9·34
Wolverhampton	29·491	85·0	37·5	48·5	66·6	51·3	33·6	15·3	57·4	51·6	·383	4·3	1·1	81	525	—	—	—	8	6	7	10	—	7·5	42	10·41
Leicester	29·536	84·0	33·6	50·4	67·1	52·1	35·5	15·0	59·1	51·4	·355	4·3	1·3	76	528	119·0	45·1	0·7	7	6	6	12	—	7·0	43	10·22
Nottingham	29·473	86·4	33·7	52·7	69·7	50·7	49·4	19·0	58·8	53·6	·412	4·6	0·9	84	529	109·9	49·7	0·4	6	9	6	10	1·7	6·5	53	6·41
Holkham	29·482	79·2	34·2	45·0	67·7	48·6	40·5	19·1	57·9	51·7	·383	4·3	1·0	80	533	119·4	45·8	1·7	9	4	9	8	—	6·0	37	8·19
Llandudno	29·434	83·6	43·0	40·6	69·3	54·5	30·3	14·8	60·3	53·2	·406	4·5	1·3	78	530	—	—	0·9	7	6	3	16	—	6·2	38	9·49
Kelstern Grange	29·501	81·6	36·0	45·6	66·3	50·4	35·5	15·9	57·1	52·2	·393	4·4	0·9	83	527	120·2	47·2	0·9	6	7	7	11	6·4	6·2	55	9·59
Liverpool	29·502	83·5	46·0	37·5	65·5	55·0	24·0	10·5	58·9	53·0	·401	4·5	1·1	81	529	—	—	1·0	5	5	5	15	—	6·1	42	11·34
Eccles	29·504	89·5	35·2	54·3	69·0	50·1	40·9	18·9	58·5	52·1	·390	4·4	1·2	79	531	87·6	44·9	0·4	7	6	6	12	1·3	6·7	50	10·30
Bernerside	29·507	90·2	38·0	52·2	67·2	50·5	38·9	16·7	57·2	51·3	·379	4·3	1·1	81	525	107·6	47·4	0·6	4	8	8	11	—	6·6	39	
Hull	29·476	83·0	36·0	50·0	68·1	52·0	36·0	16·1	59·0	53·3	·403	4·6	1·1	82	532	94·6	49·2	—	—	—	—	—	1·3	—	44	9·00
Stonyhurst	29·489	85·5	34·9	50·6	68·0	51·2	36·7	16·8	58·1	52·5	·395	4·4	1·3	76	529	81·3	—	1·7	5	7	6	13	—	4·5	46	14·43
Leeds	29·497	92·0	38·0	54·0	70·9	52·8	33·0	18·1	60·2	52·4	·394	4·4	1·3	76	527	85·6	—	1·0	7	5	4	14	—	6·0	41	11·29
Bradford	29·522	89·6	37·2	52·4	66·9	53·4	34·2	13·5	58·7	50·8	·372	4·1	1·4	76	527	85·6	—	1·8	6	9	4	12	—	4·8	47	10·56
Cockermouth	29·479	84·9	32·7	52·2	67·0	52·5	38·5	14·5	58·6	51·6	·383	4·3	1·2	78	530	103·8	44·5	0·4	7	5	8	10	2·1	6·8	47	
Allenheads	—	—	34·6	—	—	48·5	—	—	—	—	—	—	—	—	527	—	—	0·9	—	—	—	—	—	6·4	57	12·64
Silloth	29·476	88·3	37·2	51·1	70·8	51·5	38·7	19·3	59·4	52·8	·395	4·4	1·3	77	531	104·7	48·3	1·4	5	9	8	8	6·9	4·6	49	9·00
Carlisle	29·485	82·4	35·0	47·4	68·4	49·9	38·9	18·5	58·3	51·2	·378	4·3	1·1	78	531	100·8	45·3	1·8	5	5	5	15	4·1	6·3	53	7·30
Bywell	29·428	83·0	42·0	41·0	67·6	54·5	30·7	13·1	59·0	52·2	·393	4·4	1·2	79	530	93·4	49·0	1·3	6	9	4	12	—	4·8	47	6·32
North Shields	—	80·0	40·0	40·0	63·4	53·0	28·3	10·4	57·0	50·3	·365	4·1	1·1	78	533	—	51·5	1·4	7	6	6	12	—	5·8	42	

The highest temperatures of the air were at Leeds, 92°·0; Bermerside, 90°·2; Bradford, 89°·6; and Streatley and Eccles, both 89°·5.

The lowest temperatures of the air were at Salisbury, 31°·0; Strathfield, 31°·8; Stockton, 32°·5; and Marlborough and Cockermouth, both 32°·7.

The greatest daily ranges of the temperatures of the air were at Salisbury, 23°·7; Gloucester, 21°·6; Cambridge, 20°·7; and Royston, 20°·6.

The least daily ranges of the temperatures of the air were at Guernsey, 9°·2; North Shields, 10°·4; and Liverpool, 10°·5.

The greatest number of rainy days were at Allenheads, 57; Nottingham and Stonyhurst, both 56; and Kelstern 55.

The least number of rainy days were at Osborne and Strathfield, both 33; Bournemouth, 34; and Guernsey, Caterham, and Ramsgate, all 35.

The heaviest falls of rain were at Stonyhurst, 14·43 inches; Bath, 13·06 inches; and Allenheads, 12·64 inches.

The least falls of rain were at Cambridge 5·30 inches; Royston, 5·51 inches; and Strathfield, 6·05 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days it fell.	Rain. Mean Amount col. Tenths.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·504	73·0	47·5	25·5	65·8	56·6	19·5	9·2	60·1	55·9	·449	5·0	0·8	90	529	—	—	1·2	8	5	8	10	3·4	4·4	36	8·91
Between the latitudes 50° and 51°	29·552	83·4	40·8	42·6	69·4	54·8	31·3	14·6	60·8	54·6	·430	4·8	1·2	81	530	114·5	50·6	1·3	6	6	7	12	4·0	5·1	40	8·78
Between the latitudes 51° and 52°	29·505	85·8	36·1	49·7	70·3	52·8	36·1	17·5	60·4	54·4	·425	4·8	1·1	81	528	118·6	48·6	1·0	7	5	7	12	2·0	5·9	40	8·19
Between the latitudes 52° and 53°	29·496	85·5	35·2	50·3	69·4	50·9	39·1	18·5	59·0	53·2	·408	4·5	1·1	81	529	112·0	46·5	0·9	7	6	7	11	3·9	6·4	43	10·25
Between the latitudes 53° and 54°	29·496	86·5	38·4	48·1	68·0	52·1	35·3	15·9	58·7	52·5	·396	4·4	1·2	80	529	101·7	47·8	0·9	6	6	6	13	3·0	6·3	46	10·21
Between the latitudes 54° and 55°	29·478	85·6	38·8	48·8	68·1	52·4	35·2	15·7	58·8	51·6	·384	4·3	1·5	78	530	99·8	46·5	1·1	6	7	6	12	4·4	5·8	49	10·11
Mean for the Quarter, Year 1875	29·595	81·5	41·6	39·9	68·9	52·3	35·9	16·6	59·3	53·1	·405	4·5	1·2	80	531	101·8	48·1	1·2	6	8	7	10	3·5	5·9	45	10·27
Mean for the Quarter, " 1876	29·520	90·0	40·1	49·9	70·0	52·2	40·1	17·8	59·8	52·4	·396	4·4	1·4	77	530	110·8	47·4	1·1	6	5	7	13	4·1	5·3	43	8·48
Mean for the Quarter, " 1877	29·552	79·4	35·7	43·7	66·2	50·3	34·9	15·9	57·1	50·9	·376	4·2	1·0	80	533	106·4	45·5	1·2	6	4	7	13	4·1	6·3	48	10·30
Mean for the Quarter, " 1878	29·505	85·4	37·5	47·9	69·0	52·6	35·6	16·4	59·9	53·3	·403	4·6	1·2	80	529	109·3	48·0	1·0	6	6	7	12	3·5	5·9	44	9·04

Remarks on the Weather during the Quarter ending December 31st, 1878.

By James Glaisher, Esq., F.R.S., *&c.*

The weather was generally fine and warm till the 21st of October, the average daily excess of temperature up to this day being 3°·4, from the 22nd day the weather became cold and the sky cloudy, with rain falling frequently; this unpleasant weather continued throughout November and during the first few days in December. On the 6th of December the cold increased in intensity, severe frosts set in, and very low temperatures without intermission continued till the evening of the 25th of December; the average deficiency of daily temperatures below their averages for the 65 days ending December 25th was 5°·6; between December 6th and December 25th, on several days the mean temperature was more than 12° below its average, and on the 24th day it was as large as 17½° below; the average daily deficiency of mean temperature for the 20 days ending December 25th was 10°·8. On December 26th, the weather suddenly changed and became much warmer; the mean temperature of both December 30th and 31st was about 14° in excess of the average, being 31° to 32° higher than that of six days before; viz., on December 24th.

The cold winterly weather in December was general over the country, and on some of the days the temperature was extremely low. The following table shows the minimum temperatures at the several stations on the coldest days, and also on the two warm days at the end of the year.

Table showing the Minimum Temperatures of the Air at the several Stations on December 9th, 10th, 11th, 12th, 13th, 14th, 15th, 17th, 23rd, 24th, 25th, 30th, and 31st.

Names of Stations.	December 9th.	10th.	11th.	12th.	13th.	14th.	15th.	17th.	23rd.	24th.	25th.	30th.	31st.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Guernsey	33·0	31·0	28·5	29·0	28·0	31·5	31·5	34·0	33·5	31·0	33·0	45·0	49·5
Helston	24·0	21·0	20·0	22·0	32·0	22·0	33·0	26·0	26·0	30·0	36·0	50·0	45·0
Truro	23·0	25·0	13·0	14·0	22·0	31·0	20·0	25·0	26·0	24·0	28·0	46·0	52·0
Plymouth	26·0	26·0	23·0	20·5	22·0	29·0	19·0	27·5	25·0	25·5	28·0	40·0	50·0
Torquay	26·8	24·1	20·6	24·3	23·1	23·9	20·6	28·0	26·2	27·8	34·1	47·0	48·3
Ventnor	29·2	26·6	23·7	27·4	28·0	29·3	23·7	26·6	31·2	23·9	27·8	43·3	48·0
Osborne	26·4	23·3	23·8	26·8	23·7	25·8	20·7	24·9	25·6	21·3	24·7	37·5	47·9
Bournemouth	26·5	23·0	24·8	27·3	27·0	27·2	22·3	26·0	28·8	22·1	26·7	41·0	47·4
Brighton	26·6	24·5	24·0	25·0	24·5	25·0	21·0	25·1	24·9	23·6	25·4	44·2	46·3
Salisbury	21·0	17·0	23·0	24·0	24·0	18·0	18·0	22·0	18·0	16·0	16·0	33·0	49·0
Barnstaple	27·0	17·0	14·0	15·0	23·0	28·0	17·0	26·0	27·0	23·0	23·0	41·0	52·0
Caterham	26·0	24·0	24·0	23·0	24·0	24·0	25·0	21·0	24·5	19·0	19·0	36·0	42·0
Bath	22·3	16·7	23·0	22·3	22·5	22·2	20·8	20·4	21·7	19·6	14·8	44·6	46·8
Ramsgate	29·4	26·5	26·1	25·8	25·6	29·0	21·1	25·7	21·6	19·4	19·1	43·4	48·7
Strathfield Turgiss	26·1	19·3	25·3	26·9	24·4	15·0	22·6	19·9	15·6	10·5	9·0	45·5	47·5
Weybridge Heath	28·5	21·0	27·5	24·5	19·0	16·3	18·5	21·5	19·0	15·3	9·0	44·3	48·0
Marlborough	23·7	20·2	25·2	23·1	22·0	21·3	21·1	23·0	19·3	14·8	14·0	44·2	45·2
Bristol	22·0	19·8	23·0	27·1	24·8	22·9	15·0	20·6	26·8	19·0	19·7	39·8	49·2
Blackheath	27·9	26·0	25·9	25·7	20·4	19·2	22·0	25·4	21·1	17·0	15·9	44·1	48·8
Royal Observatory	27·6	25·4	26·0	25·5	20·6	20·5	21·3	23·1	19·8	13·4	12·2	45·4	47·8
Streatley	28·5	21·0	25·2	26·2	26·0	29·2	20·0	22·0	27·3	15·2	6·2	39·0	50·2
Camden Square	29·0	26·2	26·0	27·0	23·5	21·2	21·7	23·2	21·6	20·7	18·7	38·2	50·0
Oxford	23·3	22·1	25·8	23·5	16·9	21·5	28·1	25·2	12·1	5·1	25·6	49·0	43·1
Royston	27·1	18·3	23·1	24·7	21·0	13·2	18·6	21·4	22·0	21·7	15·5	37·0	46·9
Cardington	25·6	21·0	23·0	23·4	23·6	17·4	21·0	21·0	19·4	17·6	12·0	37·0	47·6
Somerleyton	26·9	18·8	18·3	21·0	14·6	18·3	15·7	14·8	19·6	22·2	11·8	34·6	47·7
Lowestoft	26·7	20·5	25·8	22·2	18·8	25·7	16·8	16·7	22·1	19·2	10·8	40·5	42·5
Cambridge	28·2	20·5	23·8	24·8	21·0	16·5	19·0	22·0	22·3	22·0	12·5	38·0	48·0
Stockton	21·5	12·0	12·5	11·0	21·0	17·0	22·0	18·5	21·0	10·0	5·0	37·0	46·0
Norwich	25·0	19·5	25·5	22·0	22·0	21·0	19·0	18·5	23·0	21·0	16·0	42·0	48·0
Leicester	24·9	19·3	24·4	22·3	20·8	18·0	23·9	19·0	23·0	15·0	6·9	40·2	47·0
Wolverhampton	21·4	16·6	18·3	17·5	20·7	21·4	22·4	19·9	23·4	13·6	10·6	32·5	44·1
Nottingham	20·9	18·0	19·4	19·8	21·1	21·3	15·5	16·3	21·9	12·9	5·2	31·9	43·9
Llandudno	30·5	23·7	22·3	26·0	20·7	21·0	31·2	24·4	29·4	23·5	23·2	40·6	42·1
Sheffield	29·0	24·0	27·0	23·0	17·0	18·5	23·0	27·5	25·5	25·0	14·7	35·5	45·0
Kelstern Grange	23·2	13·8	22·2	12·9	18·8	11·9	12·8	17·0	16·2	13·9	13·1	36·0	43·5
Liverpool	30·0	25·3	25·7	23·3	22·8	22·6	22·8	23·8	30·5	22·5	12·7	35·0	46·9
Bolton	21·0	19·0	24·0	16·0	13·0	15·6	17·3	17·5	15·0	12·5	13·5	32·0	32·0
Bermerside	28·2	28·5	21·7	22·0	19·0	17·0	21·0	28·5	20·0	—	12·0	32·0	44·2
Hull	22·0	18·0	22·0	16·0	19·0	18·0	13·0	19·0	19·0	20·0	9·0	32·0	43·0
Stonyhurst	23·9	20·3	18·0	14·5	14·8	17·0	29·8	17·1	14·0	13·1	17·5	40·0	34·6
Bradford	27·6	27·4	24·6	24·0	17·2	16·2	17·4	24·0	24·0	23·4	14·0	34·6	45·8
Leeds	27·0	26·0	27·0	23·0	18·0	16·0	23·0	25·0	22·0	23·0	14·0	34·0	44·0
Cockermouth	17·7	17·9	14·9	16·8	12·8	5·7	14·9	10·2	11·4	11·5	14·5	34·0	45·3
Allenheads	23·0	24·3	24·2	11·3	13·0	8·0	—	14·0	11·0	11·0	—	31·3	37·8
Silloth	21·0	21·3	10·7	14·4	15·5	9·4	20·0	12·0	16·7	14·4	13·0	34·7	43·0
Sunderland	30·0	28·0	29·0	28·0	20·0	13·0	18·0	29·0	24·0	25·0	25·0	35·0	42·0
Carlisle	22·0	13·0	13·0	16·5	5·5	16·8	11·0	7·2	5·0	5·8	16·5	44·0	30·0
Bywell	28·0	27·0	27·0	22·0	11·0	7·0	17·0	22·0	16·0	12·0	7·0	34·0	40·0
North Shields	27·0	23·0	27·6	21·5	12·5	9·0	22·0	21·5	18·2	14·0	21·3	34·0	39·0
Waringstown	16·0	13·0	16·0	7·0	14·0	16·0	6·0	31·0	5·0	—	16·0	43·0	28·0

From this table it will be seen that on the 9th the lowest reading was 16°·0 at Waringstown, on the 10th was 12°·0 at Stockton, on the 11th was 10°·7 at Silloth, on the 12th was 7°·0 at Waringstown, on the 13th was 5°·5 at Carlisle, on the 14th was 5°·7 at Cockermouth, on the 15th was 6°·0 at Waringstown, on the 17th was 7°·2 at Carlisle, on the 23rd was 5°·0 at Carlisle and Waringstown, on the 24th was 5°·1 at Oxford, and on the 25th was 5°·0 at Stockton. And from the numbers in the last two columns it will be seen that at many places the lowest temperature on December 30th and 31st was 50°, and at a few places even exceeded 50°.

Snow fell on 20 days in November, and on every day in December at some station, excepting the 4th, 29th, 30th, and 31st. On some days the fall was general; even in Cornwall and Devonshire it fell frequently in the month of December.

Fog or mist was very prevalent throughout the quarter, particularly in December when it appeared at some place on 29 days in the month, on some days the rime on trees was very beautiful, and at times continued for two or three days together.

The readings of the barometer in the neighbourhood of London were above their averages from the 1st to the 5th of October, the mean amount for the five days being 0·30 in. in excess; they were below from the 6th to the 10th, the mean amount in defect being 0·32 in.; from the 11th to the 17th the readings were again above to the mean amount of 0·23 in.; from the 18th of October to the 17th of November the readings were *below* their averages (except on four days, viz., November 1st, 2nd, 3rd, and 9th, on which days they were a little in excess of the average); the mean amount of daily defect for the 31 days ending November 17th, was 0·32 in. From the 18th to the 23rd of November the barometer readings were above their averages to the mean amount of 0·29 in.; from the 24th to the 28th they were on the average 0·40 in. too low; from 28th of November to the 6th of December (with the exception of December 1st) the pressure was in excess averaging 0·10 in. daily; and from the 7th of December to the end of the year the readings of the barometer were all below their averages (with the exception of one day, viz., 24th, on which day the mean value was 0·31 in. in excess), on many days the amount in defect of the average was 0·5 in. and 0·6 in., and on the 18th and 19th it was 0·7 in.; the mean amount in defect of the average for the 25 days ending December 31st was 0·37 in.

The mean reading of the barometer for the month of October was 29·60 ins., being 0·10 in. below the average, and lower than any value back to 1872. The mean reading for November was 29·57 ins., being 0·17 in. below the average; it was 0·05 in. above the value in 1877. The mean reading for December was 29·55 ins., being 0·25 in. below the average, and 0·24 in. below the value in 1877, but 0·24 in. above that in 1876.

The highest reading of the barometer in the quarter was 30·30 ins. on November 19th, and the lowest reading was 28·86 ins. on October 26th, the extreme range of readings was 1·44 ins.

The atmospheric pressure in October was less than in September by 0·217 in., in November was less than in October by 0·031 in., and in December was less than in November by 0·025 in. (From the preceding 37 years' observations the *mean pressure* in October is 0·102 in. less than in September, that in November is 0·041 in. greater than in October, and that in December is 0·050 in. greater than in November.) The mean decrease of pressure from September to October *over the whole country* was nearly the same everywhere and averaged 0·223 in., the pressure from October to November at places South of latitude 52¼° was − 0·008 in., between 52¼° and 54° it was + 0·060 in., and North of 54° it was + 0·126 in. The decrease of pressure from November to December between latitude 51° and 53° was 0·045 in., and North of 53° was 0·091 in.

At Greenwich *the mean temperature* of October was lower than in September by 5°·2; that of November was lower than that in October by 11°·8, and that in December was lower than that in November by 6°·0. (From the preceding 37 years' observations the *mean temperature* of October is lower than that of September by 6°·9, that of November is lower than that of October by 6°·6, and that of December is lower than that of November by 3°·4.) The decrease of mean temperature from September to October from all stations was 5°·4; the decrease from October to November was nearly the same everywhere, and the general mean was 11°·7; the decrease from November to December South of latitude 51° was 4°·5, between 51° and 52° was 5°·6, between 52° and 53° was 7°·2, between 53° and 54° was 6°·1, and North of 54° was 9°·0.

The mean temperature of the air for October was 51°·5, being 1°·9 and 1°·3 above the averages of the preceding 107 years and 37 years respectively. It was 2°·9 *higher* than the value in 1877, and 1°·3 *below* that in 1876.

The mean temperature of the air for November was 39°·7, being 2°·6 and 3°·9 below the averages of the preceding 107 years and 37 years respectively. It was lower than any value back to 1871, when it was 37°·6, and with this exception it is 16 years (or back to 1862) since we have had so cold a November as in the present year. The value in 1862 was 39°·8.

The mean temperature of the air for December was 33°·7, being 5°·4 and 6°·5 below the averages of the preceding 107 years and 37 years respectively. The following are the only instances back to 1771 when the mean temperature of December was as low as that in 1878, viz.—33°·7.

In 1784 when it was		31°·0	In 1840 when it was		33°·3
„ 1788	„	29·0	„ 1844	„	33·0
„ 1796	„	30·4	„ 1846	„	32·9
„ 1798	„	33·7	„ 1870	„	33·6
„ 1799	„	32·8	„ 1874	„	33·2

The mean temperature of the air for the quarter was 41°·6, being 2°·0 and 3°·0 below the averages of the preceding 107 years and 37 years respectively.

The mean high day temperatures of the air were 4°·8 and 7°·7 below their averages in November and December, but 0°·6 above in October.

The mean low night temperatures of the air were 2°·4 and 6°·5 below their averages in November and December, but 1·4 *above* in October. Therefore the days and nights were cold in November and December (particularly so in the latter month), but somewhat warm in October.

The mean daily ranges of temperature were 0°·8, 2°·3, and 1°·0 respectively below their averages in October, November, and December.

The fall of rain at Greenwich in October was 1·7 in., being 1·1 in. *below* the average of 63 years. The fall in November was 3·5 ins., being 1·1 in. above the average, and the fall in December was 1·2 in., being 0·9 in. below the average. The total fall in the quarter was 6·4 ins., or 0·9 in. below the average.

1878. Months.	Temperature of Air. Mean.	Air. Diff. from average of 107 years.	Air. Diff. from average of 37 years.	Evaporation. Mean.	Evaporation. Diff. from average of 37 years.	Dew Point. Mean.	Dew Point. Diff. from average of 37 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 37 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 37 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 37 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.
Oct. -	51·5	+1·9	+1·3	49·0	+0·9	46·4	+0·4	14·0	−0·8	55·2	0·317	+0·005	3·5	−0·1
Nov. -	39·7	−2·6	−3·9	38·2	−3·2	36·2	−3·3	9·3	−2·3	42·6	0·214	−0·063	2·5	−0·3
Dec. -	33·7	−5·4	−6·5	32·8	−5·9	31·2	−5·7	8·4	−1·0	35·9	0·175	−0·046	2·1	−0·5
Means -	41·6	−2·0	−3·0	40·0	−2·7	37·9	−2·9	10·6	−1·4	44·6	0·235	−0·025	2·7	−0·3

1878. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 37 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 37 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 37 years.	Rain. Amount.	Rain. Diff. from average of 63 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
Oct. -	83	−4	29·602	−0·100	536	− 3	1·7	−1·1	259	2	16	13	27·9	52·1
Nov. -	88	0	29·571	−0·172	549	+ 1	3·5	+1·1	308	11	19	0	25·1	39·5
Dec. -	89	+1	29·546	−0·247	555	+ 3	1·2	−0·9	248	21	8	2	12·2	45·0
Means -	87	−1	29·573	−0·173	547	0	Sum 6·4	Sum −0·9	Mean 272	Sum 34	Sum 43	Sum 15	Lowest 12·2	Highest 52·1

NOTE.—In reading this table it will be borne in mind that the plus sign (+) signifies *above* the average, and that the minus sign (−) signifies *below* the average.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter were as follows:—

Direction of Wind.	October. Average.	October. 1878.	October. Departure from Average.	November. Average.	November. 1878.	November. Departure from Average.	December. Average.	December. 1878.	December. Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	2	3	+1	2¼	6	+3¾	2	5	+3
N.	3	0	−3	3¾	8	+4¼	2¾	2	− ¾
N.E.	2½	1	−1½	3½	7	+3½	2	5	+3
E.	1¼	6	+4¾	2	2	0	1¾	2	+ ¼
S.E.	1¾	3	+1¼	2	1	−1	1¼	1	− ¾
S.	3¾	5	+1¼	3½	1	−2½	3	3	0
S.W.	9	7	−2	7¼	1	−6¼	9¾	5	−4¾
W.	4¼	5	+ ¾	2	3	+1	4	7	+3
Calm (nearly.)	3¾	1	−2¾	3¼	1	−2¼	4	1	−3

The plus sign (+) denotes excesses over averages; the largest numbers affected with this sign in the month of October are opposite to the E., in November to the N., N.W., and N.E., and in December to the N.W., N.E., and W.

The minus sign (−) denotes defects below averages; the largest numbers affected with this sign in the month of October are opposite to the N. and S.W., in November to the S. and S.W., and in December to the S.W.

Thunderstorms occurred on 7 days in October, 7 in November, and on 6 in December.

Thunder was heard but lightning was not seen on 2 days in October, and on 3 in November.

Lightning was seen but thunder was not heard on 10 days in October, 7 in November, and on 10 in December.

Solar halos were seen on 18 different days during the quarter.

Lunar halos were seen on 9 nights in October, 8 in November, and on 8 in December.

Snow fell on the 29th of October at Torquay, Oxford, Kelstern, Hull, and Allenheads; on the 30th at Torquay, Ramsgate, Royston, Cardington, Norwich, Stockton, Cambridge, and Allenheads; and on the 31st at Allenheads. Snow fell on 20 days in November at different places; and on 27 days in December.

Hail fell on 12 days in October, 17 days in November, and on 21 days in December. The falls of hail in November and December occurred principally in Devon and Cornwall.

Fog prevailed on 20 days in October; 17 days in November; and on 29 days in December; or on 66 days during the quarter. The prevalence of fog was pretty general all over the country during the quarter.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING DECEMBER 31ST, 1878.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the sixth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1878. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.M.S.	204	Oct.	29·579	1·171	66·0	40·0	26·0	59·0	50·6	8·4	54·4	50·4	·334	4·1	0·7	86	532	–	–	1·7	6	7	9	9	3·0	4·5	16	3·94
		Nov.	29·550	1·117	55·0	36·0	19·0	48·4	40·7	7·7	44·6	39·4	·242	2·8	0·6	82	543	–	–	1·8	13	7	2	8	4·4	7·5	25	9·08
		Dec.	29·514	0·904	54·5	28·0	26·5	44·7	35·8	8·9	40·6	34·9	·203	2·4	0·6	81	547	–	–	1·7	9	6	6	10	4·0	7·0	28	5·11
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	Oct.	29·700	1·140	72·0	39·0	33·0	63·0	48·9	14·1	54·6	48·1	·335	3·8	1·0	78	534	73·8	41·2	1·8	8	7	8	8	4·8	3·1	17	2·41
		Nov.	29·754	1·100	58·0	30·0	28·0	50·8	37·8	13·0	43·8	36·2	·213	2·5	0·8	75	548	56·1	33·0	1·5	14	9	1	6	4·5	4·9	21	6·87
		Dec.	29·658	1·044	55·0	20·0	35·0	45·4	31·7	13·7	38·6	33·2	·190	2·3	0·5	85	552	55·1	27·3	1·3	12	7	6	6	7·2	5·5	14	4·89
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	Oct.	29·720	1·162	69·0	34·0	35·0	60·5	48·0	12·5	53·5	48·5	·340	3·8	0·8	83	536	–	–	2·9	6	5	11	9	–	6·4	19	5·32
		Nov.	29·810	1·100	54·0	26·0	28·0	48·6	37·3	11·3	42·3	37·6	·226	2·6	0·5	84	550	–	–	2·1	16	6	2	6	–	6·8	22	5·79
		Dec.	29·741	0·970	55·0	13·0	42·0	44·7	30·6	14·1	38·0	33·8	·194	2·2	0·5	85	554	–	–	1·7	14	4	4	9	–	6·5	19	6·17
PLYMOUTH (Devon), John Merrifield, Esq., F.R.A.S., F.M.S., LL.D.	69	Oct.	29·778	1·249	64·0	35·0	29·0	59·4	47·5	11·9	52·5	48·1	·337	3·8	0·7	85	538	–	46·3	1·6	6	8	8	9	–	5·5	21	3·64
		Nov.	29·818	1·104	53·5	29·5	24·0	47·1	35·2	11·9	40·7	36·9	·218	2·5	0·4	86	552	–	33·8	1·5	14	4	3	9	–	6·0	20	2·57
		Dec.	29·740	1·000	53·5	19·0	34·5	41·6	29·8	11·8	35·8	32·8	·188	2·1	0·3	89	557	–	28·8	1·2	13	5	5	8	–	5·1	17	3·57
BABBACOMBE, Torquay (Devon), Edwin E. Glyde, Esq., F.M.S.	305	Oct.	29·451	1·258	65·9	32·0	33·9	58·5	47·3	11·2	52·4	47·1	·324	3·6	0·8	82	532	109·9	40·6	1·7	4	6	8	13	4·1	6·3	17	3·46
		Nov.	29·471	1·146	52·9	31·0	21·9	46·1	37·0	9·1	41·2	36·7	·218	2·5	0·5	84	545	86·8	31·0	1·8	16	4	2	8	4·6	6·6	17	3·26
		Dec.	29·408	1·055	52·8	20·6	32·2	41·9	31·4	10·5	36·7	33·1	·188	2·2	0·8	86	549	76·1	24·4	1·4	10	5	5	11	2·7	6·6	18	3·21
VENTNOR (Royal National Hospital for Consumption), Isle of Wight, Hartley Sagar, Esq.	150	Oct.	29·695	1·320	73·8	34·2	39·6	62·6	50·6	12·0	55·1	50·2	·364	4·1	0·8	84	534	–	–	–	5	8	7	11	6·9	5·7	13	3·01
		Nov.	29·672	1·028	52·4	31·4	21·0	46·1	37·5	8·6	41·3	38·3	·232	2·7	0·4	90	549	–	–	–	12	10	2	6	5·0	6·5	19	4·09
		Dec.	29·648	1·028	50·7	24·1	26·6	42·0	32·5	9·5	37·1	34·5	·199	2·3	0·3	90	553	–	–	–	12	5	3	11	5·2	6·0	20	1·89
OSBORNE (Isle of Wight), R. J. Mann, Esq.	172	Oct.	29·589	1·300	73·4	35·2	38·2	60·3	47·4	12·9	52·5	48·7	·345	3·9	0·6	87	535	96·7	42·1	0·2	4	6	12	9	–	5·9	14	3·20
		Nov.	29·563	1·100	52·3	29·0	23·3	45·8	35·3	10·5	40·0	37·2	·222	2·6	0·3	90	548	63·5	30·4	0·3	15	5	3	7	–	7·3	18	2·32
		Dec.	29·538	1·062	52·1	21·7	30·4	40·5	30·3	10·2	35·9	33·4	·192	2·2	0·3	91	553	49·5	24·9	0·2	10	6	6	9	–	7·8	12	1·44
SOUTH BOURNE, near Bournemouth, (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	128	Oct.	29·655	1·290	64·9	32·3	32·6	57·3	46·7	10·6	51·6	46·4	·316	3·5	0·8	82	537	–	–	–	9	7	5	10	–	4·5	12	2·16
		Nov.	29·650	1·160	52·1	31·0	21·1	45·2	35·6	9·6	40·2	35·6	·209	2·4	0·5	84	550	–	–	–	9	7	3	11	–	6·2	15	2·09
		Dec.	29·603	1·060	52·0	22·1	29·9	40·2	30·5	9·7	35·4	31·6	·178	2·1	0·4	86	554	–	–	–	10	7	3	11	–	5·5	11	1·07
BRIGHTON (Sussex), F. E. Sawyer, Esq., F.M.S.	206	Oct.	29·580	1·284	68·0	32·4	35·6	58·0	47·2	10·8	52·2	47·0	·323	3·7	0·8	83	535	–	43·0	1·0	9	6	8	8	–	6·8	13	3·64
		Nov.	29·523	1·177	52·7	30·4	22·3	44·5	36·1	8·4	40·2	36·1	·213	2·4	0·5	86	547	–	33·1	1·0	15	8	2	5	–	6·4	16	3·14
		Dec.	29·519	1·075	51·0	21·0	30·0	38·7	30·5	8·2	35·0	31·4	·176	2·1	0·3	86	553	–	27·2	0·8	14	5	4	8	–	6·4	15	1·94
SALISBURY (Wilton House), T. Challis, Esq.	186	Oct.	29·574	1·318	–	28·0	–	–	41·1	–	–	–	–	–	–	–	–	98·3	39·9	1·2	6	4	9	12	–	6·4	15	3·81
		Nov.	29·785	1·118	–	25·0	–	–	31·5	–	–	–	–	–	–	–	–	63·6	30·0	1·2	13	6	4	7	–	7·2	16	3·28
		Dec.	29·525	1·086	–	16·0	–	–	25·0	–	–	–	–	–	–	–	–	55·3	23·7	1·3	16	4	3	8	–	7·1	10	1·69
BARNSTAPLE (Devon), William Knile, Esq.	43	Oct.	29·713	1·210	72·0	36·0	36·0	60·8	48·9	11·9	54·0	49·4	·352	4·0	0·7	84	535	–	–	1·3	4	4	11	12	–	3·4	20	7·21
		Nov.	29·791	1·110	53·0	31·0	22·0	47·5	37·3	10·2	42·1	37·8	·228	2·6	0·5	86	550	–	–	1·2	13	6	3	9	–	4·0	17	4·64
		Dec.	29·704	1·070	56·0	14·0	42·0	42·0	29·3	12·7	35·9	33·6	·194	2·2	0·3	91	556	–	–	1·1	12	3	6	10	–	4·8	16	3·80
BATH (St. Gregory's College, Downside, Somerset). Rev. F. A. Gasquet, O.S.B.	596	Oct.	29·115	1·296	70·9	32·2	38·7	57·0	44·4	12·6	49·7	46·2	·313	3·6	0·5	88	529	–	39·2	1·8	5	5	9	12	–	5·5	15	6·35
		Nov.	29·130	1·130	51·9	27·7	24·2	42·1	33·9	8·2	37·5	34·6	·200	2·4	0·3	90	543	–	31·5	1·6	14	6	1	9	–	7·6	17	3·99
		Dec.	29·068	1·064	51·9	14·8	37·1	37·1	28·6	8·5	32·9	30·2	·168	1·9	0·3	90	547	–	23·2	1·6	8	4	7	12	–	6·0	13	2·46
CATERHAM (Surrey), James Adam, Esq., M.D.	608	Oct.	29·077	1·300	67·0	30·0	37·0	57·5	43·8	13·7	50·2	46·7	·319	3·6	0·5	88	528	–	39·1	3·4	7	3	10	11	–	3·8	10	2·81
		Nov.	29·022	1·200	50·0	28·0	22·0	42·6	33·0	9·6	38·2	35·8	·210	2·4	0·3	91	540	–	26·1	3·5	15	6	3	6	–	4·4	14	4·80
		Dec.	28·983	1·359	52·0	19·0	33·0	36·0	22·2	8·8	32·6	30·4	·170	2·0	0·2	91	546	–	21·4	3·8	10	7	5	9	–	5·4	14	1·95

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1878. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
RAMSGATE (Kent), Rev. E. Douglas O'Gara, O.S.B.	108	Oct.	29·654	1·297	66·3	30·8	35·5	57·7	47·8	9·9	52·2	47·2	·325	3·7	0·7	83	536	91·1	–	1·4	4	5	11	11	–	6·6	15	3·87
		Nov.	29·609	1·348	50·2	28·4	21·8	45·5	37·7	7·8	41·7	37·6	·227	2·6	0·5	87	547	71·5	–	1·7	8	4	7	11	–	8·5	18	5·08
		Dec.	29·614	1·199	53·7	19·1	34·6	39·0	30·5	8·5	35·2	32·1	·182	2·1	0·3	88	555	66·2	26·5	1·3	6	5	5	15	–	7·3	19	2·59
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	Oct.	29·571	1·302	74·0	31·4	42·6	58·9	42·9	16·0	50·6	46·3	·315	3·6	0·5	86	536	99·2	37·4	0·6	3	6	10	12	1·5	3·2	13	2·80
		Nov.	29·560	1·164	52·9	25·1	27·8	44·7	33·9	10·8	39·1	35·4	·207	2·4	0·4	87	549	64·8	27·5	0·7	13	3	3	11	1·0	7·7	16	3·51
		Dec.	29·519	1·161	55·0	9·0	46·0	38·1	27·3	10·8	33·4	31·4	·176	2·1	0·1	91	555	57·1	21·3	0·5	7	4	8	12	1·2	7·5	13	1·49
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	Oct.	29·648	1·314	75·0	29·0	46·0	59·4	42·9	16·5	50·3	44·8	·297	3·4	0·7	82	538	86·7	38·2	0·8	7	6	13	5	3·8	5·7	15	2·33
		Nov.	29·632	1·269	52·0	27·5	24·5	43·6	34·0	9·6	38·8	36·6	·215	2·5	0·5	86	551	55·3	29·8	1·0	12	9	4	5	2·7	7·4	21	2·78
		Dec.	29·590	1·158	58·5	9·0	49·5	37·1	27·6	9·5	32·7	27·8	·152	1·8	0·4	82	557	41·9	23·0	0·8	10	6	9	6	1·7	7·1	14	1·41
MARLBOROUGH, The Green (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	474	Oct.	29·263	1·299	72·6	30·9	41·7	58·1	43·7	14·4	50·0	45·7	·307	3·5	0·6	85	531	97·5	37·7	0·4	3	7	12	9	–	6·7	16	3·84
		Nov.	29·259	1·160	52·0	25·0	27·0	43·6	33·3	10·3	37·9	34·8	·202	2·4	0·3	89	545	65·1	28·1	0·3	17	2	1	10	–	7·2	16	3·80
		Dec.	29·210	1·086	53·7	14·0	39·7	37·9	27·5	10·4	32·5	30·3	·170	2·0	0·2	91	550	53·7	22·7	0·4	13	2	4	12	–	6·9	11	1·89
BLACKHEATH (London), James Glaisher, Esq., F.R.S.	160	Oct.	29·607	1·323	74·0	30·9	43·1	59·2	45·2	14·0	51·5	46·1	·313	3·5	0·8	82	536	102·0	41·3	0·7	2	9	10	10	–	6·1	12	1·80
		Nov.	29·569	1·276	53·6	28·7	24·9	44·0	35·5	8·5	39·7	35·7	·209	2·4	0·5	86	549	62·7	32·3	0·9	14	7	3	6	–	7·7	15	3·53
		Dec.	29·542	1·160	56·2	15·9	40·3	37·5	28·7	8·8	33·8	31·0	·174	2·0	0·2	88	555	48·6	25·7	0·4	7	6	6	12	–	8·2	14	1·32
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.S., F.M.S.	150	Oct.	29·607	1·316	76·9	31·5	45·4	60·5	45·1	15·4	51·6	46·4	·316	3·5	0·8	82	536	–	–	1·6	7	7	7	10	–	5·7	15	3·04
		Nov.	–	–	52·0	25·8	26·2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	12	2·86
		Dec.	29·556	1·129	55·3	6·2	49·1	38·3	28·4	9·9	33·5	29·5	·163	1·9	0·4	85	556	–	–	0·9	11	7	5	8	–	8·9	15	1·54
CHISWICK (Middlesex), W. P. Thomson, Esq.	25	Oct.	29·687	1·380	75·5	29·0	46·5	60·8	42·8	18·0	–	–	–	–	–	–	–	89·0	–	0·8	2	7	12	10	–	6·7	10	1·84
CAMDEN SQUARE (London), G. J. Symons, Esq., F.R.S., F.M.S.	123	Oct.	29·646	1·132	73·3	31·6	41·7	59·4	45·3	14·1	51·4	46·5	·318	3·5	0·7	84	537	87·3	41·4	–	8	4	9	10	–	6·4	13	1·99
		Nov.	29·605	1·284	53·5	29·4	24·1	44·9	34·8	10·1	39·8	35·7	·209	2·4	0·5	86	549	61·2	31·9	–	19	1	4	6	–	7·3	17	2·95
		Dec.	29·581	1·216	55·2	18·7	36·5	38·2	29·5	8·7	34·1	31·3	·177	2·1	0·2	89	555	46·7	26·6	–	12	1	4	14	–	7·2	15	1·47
OXFORD OBSERVATORY, Professor Pritchard, M.A., F.R.S., F.R.A.S.	210	Oct.	29·540	1·296	70·0	32·1	37·9	57·4	45·2	12·2	51·0	45·3	·304	3·4	0·8	81	534	98·9	46·0	1·1	4	6	10	11	0·1	7·6	15	3·11
		Nov.	29·543	1·243	51·9	30·3	21·6	43·6	36·4	7·2	39·6	35·0	·204	2·3	0·5	84	548	66·1	31·7	1·0	14	3	4	9	0·4	8·2	16	2·28
		Dec.	29·503	1·134	53·7	5·6	48·1	37·6	28·3	9·3	32·9	30·9	·173	2·0	0·2	92	555	54·8	25·3	0·8	10	5	5	11	0·3	7·9	10	1·51
GLOUCESTER ASYLUM, E. Toller, Esq., M.D.	100	Oct.	29·653	1·272	76·0	27·0	49·0	60·2	43·7	16·5	51·5	48·5	·341	3·8	0·5	89	537	90·3	–	0·5	5	5	6	15	–	7·0	15	3·09
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	Oct.	29·498	1·284	70·0	28·3	41·7	58·1	42·9	15·2	49·9	43·5	·283	3·2	0·9	79	536	–	–	–	3	7	11	10	–	5·0	13	1·97
		Nov.	29·477	1·319	51·6	24·5	27·1	44·0	32·7	11·3	38·0	35·1	·206	2·4	0·3	90	549	–	–	–	15	3	4	9	–	8·3	16	3·84
		Dec.	29·421	1·169	53·1	13·2	39·9	36·2	26·5	9·7	31·8	29·3	·161	2·0	0·1	90	555	–	–	–	7	4	7	13	–	7·5	12	1·15
CARDINGTON (near Bedford), Mr. J. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	105	Oct.	29·650	1·324	70·6	29·6	41·0	57·6	43·1	14·5	50·1	47·4	·328	3·7	0·4	91	538	73·4	38·7	0·8	3	6	13	9	–	5·5	14	2·10
		Nov.	29·653	1·276	51·4	27·0	24·4	44·2	33·6	10·6	38·7	36·1	·214	2·5	0·3	92	552	49·3	29·4	1·2	17	4	2	7	–	7·6	17	3·50
		Dec.	29·615	1·150	53·4	12·0	41·4	36·6	26·9	9·7	32·1	30·5	·171	2·0	0·1	93	559	38·6	21·9	0·7	10	3	4	14	–	7·6	12	1·46
CAMBRIDGE (Trinity College), J. W. L. Glaisher, Esq., M.A., F.R.S.	40	Oct.	29·694	1·342	73·8	30·0	43·8	59·4	44·0	15·4	51·0	47·3	·328	3·7	0·5	87	538	101·9	36·7	1·1	5	4	12	10	–	5·7	15	1·92
		Nov.	29·677	1·350	53·5	21·8	31·7	44·1	34·4	9·7	39·0	36·0	·212	2·4	0·4	90	552	66·5	28·7	1·0	14	5	2	9	–	7·1	21	4·66
		Dec.	29·646	1·236	55·0	12·5	42·5	36·8	27·8	9·0	32·8	31·1	·175	1·9	0·2	94	558	52·3	22·3	0·8	8	4	7	12	–	6·8	17	1·09
STOCKTON RECTORY, near Rugby (Warwickshire), W. Tuckwell, Esq.	289	Oct.	29·409	1·254	72·5	27·0	45·5	57·7	42·8	14·9	49·8	46·1	·312	3·5	0·5	87	534	64·0	39·7	0·4	4	7	11	9	6·4	5·5	18	2·22
		Nov.	29·436	1·176	50·3	26·5	23·8	43·8	32·0	11·8	39·7	36·7	·218	2·6	0·3	90	546	47·3	30·2	0·3	14	3	2	11	1·3	6·5	13	2·57
		Dec.	29·384	1·034	52·0	5·0	47·0	36·3	24·3	12·0	31·7	30·0	·167	2·0	0·1	93	555	38·1	–	0·2	5	3	6	17	2·8	6·6	14	1·79
LOWESTOFT (Suffolk), S. H. Miller, Esq., F.R.A.S., F.M.S.	85	Oct.	29·617	1·354	64·8	29·0	35·8	56·9	46·8	10·1	51·5	44·6	·297	3·4	0·9	78	536	90·5	43·2	1·2	3	5	10	13	7·5	6·1	14	1·80
		Nov.	29·582	1·550	52·3	30·5	21·8	45·8	36·9	8·9	41·3	37·0	·221	2·6	0·5	85	547	68·6	33·9	0·9	11	6	2	11	7·8	8·1	20	6·34
		Dec.	29·576	1·300	54·2	15·8	38·4	37·6	27·6	10·0	32·9	29·9	·166	1·9	0·3	87	557	55·5	24·9	0·5	7	3	4	17	8·2	7·3	19	1·99

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1878. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	50	Oct.	29·714	1·350	68·9	26·0	42·9	59·0	44·9	14·1	51·1	48·7	·344	3·9	0·4	92	538	–	–	0·9	4	6	11	10	6·5	5·3	13	1·77
		Nov.	29·650	1·578	54·0	29·0	25·0	46·0	35·8	10·2	41·0	38·4	·232	2·7	0·3	91	549	–	–	1·1	12	5	5	8	6·8	7·1	23	7·77
		Dec.	29·636	1·234	55·0	11·8	43·2	38·0	25·9	12·1	32·4	30·5	·171	2·0	0·1	92	558	–	–	0·8	9	5	7	10	4·3	5·9	18	2·03
NORWICH (Norfolk), John Quinton, Esq., Jun.	42	Oct.	29·708	1·386	68·0	30·0	38·0	57·5	46·5	11·0	51·3	47·7	·332	3·7	0·5	88	538	–	–	–	0	5	14	12	–	–	15	1·68
		Nov.	29·658	1·550	51·0	31·0	20·0	44·8	37·3	7·5	40·8	39·0	·237	2·8	0·2	94	549	–	–	–	8	4	4	14	–	–	22	4·97
		Dec.	29·644	0·278	54·0	16·0	38·0	37·0	27·9	9·1	32·8	30·7	·172	1·9	0·2	92	558	–	–	–	2	4	10	15	–	–	13	1·47
WROTTESLEY, WOLVERHAMPTON (Stafford), E. Simpson, Esq.	500	Oct.	29·178	1·276	68·5	29·4	39·1	55·5	43·8	11·7	48·7	45·5	·306	3·4	0·5	89	531	–	–	–	4	7	15	5	–	7·9	15	3·10
		Nov.	29·236	1·130	49·0	26·4	22·6	41·7	31·3	10·4	36·1	33·1	·190	2·2	0·3	89	547	–	–	–	11	3	5	11	–	7·3	11	2·89
		Dec.	29·152	1·138	49·8	10·6	39·2	35·2	25·1	10·1	30·6	26·8	·145	1·7	0·4	85	552	–	–	–	10	3	6	12	–	8·1	15	1·95
LEICESTER (Town Museum), W. J. Harrison, Esq., F.G.S.	238	Oct.	29·478	1·349	71·9	31·2	40·7	56·0	44·7	11·3	49·7	45·2	·302	3·5	0·6	85	536	89·4	35·7	0·7	5	5	11	10	–	6·4	20	2·53
		Nov.	29·489	1·280	49·4	28·5	20·9	42·8	33·7	9·1	38·3	33·8	·195	2·3	0·5	84	549	60·2	26·4	0·5	13	6	3	8	–	8·8	19	3·29
		Dec.	29·459	1·244	52·5	6·9	45·6	36·3	27·3	9·0	32·3	28·2	·154	1·8	0·3	85	555	46·3	20·4	0·4	7	6	9	9	–	8·5	15	1·75
NOTTINGHAM (Notts), M.O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	183	Oct.	29·524	1·314	71·0	27·0	44·0	57·2	43·2	14·0	49·3	46·2	·314	3·6	0·4	90	537	84·4	41·7	0·3	5	5	13	8	2·2	6·8	25	2·22
		Nov.	29·549	1·240	48·4	25·2	23·2	43·2	32·2	11·0	37·6	35·0	·204	2·4	0·3	91	551	59·5	29·8	0·3	15	4	4	7	0·8	6·9	23	2·13
		Dec.	29·484	1·206	50·9	5·2	45·7	35·7	24·5	11·2	30·6	27·7	·151	1·8	0·3	90	558	45·3	23·5	0·2	11	5	5	10	1·1	7·1	18	2·06
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	100	Oct.	29·562	1·330	73·0	37·0	36·0	59·3	47·7	11·6	52·6	45·8	·308	3·5	1·0	78	534	–	–	1·1	5	2	9	15	–	6·0	17	3·62
		Nov.	29·697	1·240	52·2	30·8	21·4	45·8	37·1	8·7	41·7	35·0	·205	2·4	0·7	79	549	–	–	1·3	13	4	6	7	–	6·7	16	3·32
		Dec.	29·603	1·270	53·0	20·7	32·3	40·2	31·1	9·1	36·0	31·0	·175	2·0	0·5	82	554	–	–	1·0	10	6	5	10	–	5·6	19	1·96
KELSTERN GRANGE, near Louth (Lincolnshire), D. Grant Briggs, Esq., F.M.S.	393	Oct.	29·283	1·312	66·7	27·3	39·4	55·3	43·4	11·9	48·6	44·[illegible]	·298	3·3	0·5	87	533	95·4	39·6	1·3	4	6	12	9	6·8	5·9	17	2·37
		Nov.	29·298	1·430	49·6	26·9	22·7	41·5	32·1	9·4	36·5	34·0	·196	2·3	0·3	91	547	69·8	29·1	1·0	11	3	4	12	5·3	6·6	23	6·09
		Dec.	29·250	1·337	50·8	11·8	39·0	34·4	23·5	10·9	29·0	25·3	·136	1·6	0·3	86	555	66·3	19·9	0·8	10	3	6	12	4·0	5·5	20	2·03
LIVERPOOL OBSERVATORY, John Hartnup, Esq., F.R.A.S.	197	Oct.	29·472	1·366	65·1	38·9	26·2	55·9	46·8	9·1	50·4	46·3	·315	3·6	0·6	86	535	–	–	1·2	3	9	10	9	–	7·1	21	2·46
		Nov.	29·580	1·316	50·0	29·2	20·8	43·3	36·1	7·2	39·2	35·1	·205	2·4	0·5	86	550	–	–	1·0	13	5	5	7	–	6·3	13	1·52
		Dec.	29·478	1·300	51·4	12·7	38·7	37·8	29·8	8·0	34·0	30·7	·172	2·0	0·3	87	554	–	–	0·9	8	5	6	12	–	6·5	15	1·96
ECCLES (near Manchester), Rev. T. Mackereth, F.M.S., F.R.A.S.	145	Oct.	29·559	1·314	70·5	28·2	42·3	57·5	42·1	15·4	49·6	44·2	·290	3·3	0·7	82	537	66·7	35·7	0·5	4	7	13	7	2·1	7·5	21	3·90
SHARPLES, BOLTON (Lancashire), Rev. T. Mackereth, F.R.A.S., F.M.S.	481	Dec.	29·175	1·270	50·0	7·4	42·6	35·8	21·8	14·0	29·8	25·3	·136	1·7	0·3	82	553	49·1	19·4	0·2	11	4	3	13	3·5	7·1	15	3·11
BERMERSIDE OBSERVATORY, HALIFAX (Yorkshire), E. J. Crossley, Esq., F.R.A.S.	520	Oct.	29·146	1·290	70·8	28·0	42·8	55·9	44·0	11·9	49·0	45·2	·302	3·5	0·5	85	530	85·3	40·1	0·7	3	7	10	11	–	7·4	15	3·61
		Nov.	29·222	1·265	48·4	28·5	19·9	42·3	32·6	9·7	36·8	31·7	·179	2·1	0·5	83	546	65·0	29·3	0·4	11	3	2	14	–	6·4	9	2·91
		Dec.	29·125	1·290	49·8	12·0	37·8	35·8	26·7	9·1	31·3	25·6	·138	1·7	0·5	79	550	57·6	23·0	0·5	8	4	4	15	–	5·5	9	3·30
HULL (Yorkshire), Mr. E. Peake.	12	Oct.	29·693	1·358	67·0	29·0	38·0	56·5	44·3	12·2	50·0	46·7	·319	3·6	0·5	89	539	73·3	41·3	–	–	–	–	–	1·9	–	19	2·65
		Nov.	29·681	1·494	50·0	24·0	26·0	42·7	33·4	9·3	38·3	34·8	·202	2·3	0·4	88	553	52·7	30·3	–	–	–	–	–	1·7	–	23	4·47
		Dec.	29·665	1·348	51·0	9·0	42·0	35·3	24·2	11·1	30·7	27·0	·146	1·6	0·4	85	561	44·1	19·6	–	–	–	–	–	0·0	–	23	2·47
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.S., F.M.S., F.R.A.S.	363	Oct.	29·291	1·378	69·2	27·8	41·4	53·0	44·1	11·9	49·4	44·8	·298	3·4	0·6	85	533	96·5	41·3	1·6	3	5	14	9	–	8·8	24	5·42
		Nov.	29·368	1·354	50·0	25·8	24·2	43·4	33·0	10·4	37·5	32·5	·185	2·1	0·5	83	548	78·6	29·8	1·0	14	1	5	11	–	8·6	17	3·77
		Dec.	29·275	1·346	50·5	13·1	37·4	36·9	24·3	12·6	30·3	24·8	·134	1·6	0·4	79	554	64·0	21·1	0·9	13	3	2	13	–	7·3	16	2·03
LEEDS (Philosophical Hall) (Yorkshire), H. Crowther, Esq.	137	Oct.	29·542	1·316	68·0	31·0	37·0	60·5	43·7	16·8	51·2	44·7	·297	3·4	0·9	79	535	63·9	–	1·7	5	6	9	11	–	4·4	20	2·45
		Nov.	29·623	1·256	51·0	26·0	25·0	44·2	33·8	10·4	39·3	33·3	·191	2·2	0·6	80	550	52·9	–	1·7	12	2	3	13	–	4·9	19	5·11
		Dec.	29·545	1·310	55·0	14·0	41·0	38·2	27·8	10·4	33·9	27·7	·151	1·8	0·5	77	555	40·9	–	1·6	9	3	3	16	–	3·8	17	1·41

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1878. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	366	Oct.	29·290	1·298	67·0	32·8	34·2	55·2	45·4	9·8	49·5	45·3	·304	3·5	0·5	86	533	63·7	–	1·2	8	5	8	10	–	7·3	21	3·16
		Nov.	29·366	1·220	47·4	29·0	18·4	42·4	34·2	8·2	38·0	33·5	·192	2·2	0·5	84	547	52·1	–	1·3	14	4	3	9	–	6·7	17	2·63
		Dec.	29·362	1·310	49·4	13·9	35·5	35·8	27·3	8·5	32·4	28·0	·153	1·8	0·3	84	552	42·7	–	1·1	17	4	2	8	–	6·8	14	1·78
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.R.A.S., F.M.S.	146	Oct.	29·493	1·432	70·0	32·3	37·7	56·6	45·9	10·7	50·4	44·8	·298	3·5	0·7	82	536	85·5	36·8	0·5	5	5	12	9	2·0	7·0	20	4·92
		Nov.	29·630	1·120	47·7	23·0	24·7	42·8	32·3	10·5	37·0	33·4	·191	2·2	0·4	87	553	55·2	26·7	0·2	14	5	4	7	1·2	6·3	6	2·93
		Dec.	29·522	1·330	48·0	6·1	41·9	34·4	22·0	12·4	28·1	23·6	·126	1·5	0·3	83	561	38·8	17·6	0·3	8	8	4	11	1·0	4·6	13	2·17
ALLENHEADS (Northumberland), Mr. Joseph Charlton, Assistant to W. B. Beaumont, Esq., M.P.	1360	Oct.	28·213	1·286	–	25·3	–	–	38·9	–	–	–	–	–	–	–	–	76·6	–	1·2	–	–	–	–	–	6·2	19	4·49
		Nov.	28·307	1·073	–	19·6	–	–	28·4	–	–	–	–	–	–	–	–	61·4	–	0·5	–	–	–	–	–	7·5	18	5·91
		Dec.	28·290	1·339	–	8·0	–	–	20·0	–	–	–	–	–	–	–	–	55·1	–	0·2	–	–	–	–	–	7·3	21	5·05
SILLOTH RECTORY (Cumberland), Rev. Francis Redford, M.A., F.R.A.S., F.M.S.	28	Oct.	29·607	1·454	74·7	31·0	43·7	59·0	44·3	14·7	50·8	45·1	·300	3·4	0·8	81	537	88·2	38·1	1·4	4	5	7	15	7·9	5·5	15	2·90
		Nov.	29·757	1·287	50·6	24·4	26·2	44·8	31·7	13·1	37·7	31·0	·175	2·0	0·8	78	555	67·1	28·1	1·0	9	7	6	8	6·6	5·1	8	1·58
		Dec.	29·629	1·346	48·5	9·4	39·1	35·3	21·8	13·5	28·6	21·5	·116	1·4	0·4	74	563	53·8	17·9	1·1	10	5	4	12	7·3	4·4	12	2·56
CARLISLE (Cumberland), Isaac Cartmell, Esq., F.M.S.	114	Oct.	29·508	1·386	70·7	25·3	45·4	56·9	42·0	14·9	49·4	44·4	·293	3·4	0·7	84	537	81·2	36·6	1·6	4	5	13	9	6·2	6·7	17	3·19
		Nov.	29·668	1·394	48·3	22·9	25·4	42·9	30·6	12·3	36·8	34·5	·200	2·4	0·2	92	554	56·3	25·8	0·8	12	5	4	9	4·5	6·5	17	1·64
		Dec.	29·583	1·466	51·0	5·0	46·0	34·3	19·5	14·8	26·8	22·7	·120	1·5	0·2	84	564	42·2	14·0	0·9	9	5	3	14	2·7	6·5	8	1·52
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	Oct.	29·518	1·326	67·0	33·0	34·0	56·7	45·4	11·3	50·0	43·8	·286	3·3	0·8	80	536	72·7	39·2	1·2	5	6	8	12	–	5·3	15	1·58
		Nov.	29·627	1·334	46·0	27·0	19·0	43·3	34·8	8·5	38·4	32·8	·186	2·2	0·6	81	551	54·8	28·5	1·2	11	5	3	11	–	7·0	25	5·99
		Dec.	29·525	1·436	53·0	7·0	46·0	34·8	24·5	10·3	29·9	26·2	·142	1·7	0·3	85	559	43·2	18·7	1·1	5	5	7	14	–	7·0	24	3·62
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	Oct.	29·591	1·338	64·0	29·3	34·7	54·7	44·7	10·0	48·9	44·4	·294	3·3	0·6	85	539	–	43·1	1·6	6	3	8	14	–	5·7	17	1·50
		Nov.	29·694	1·363	48·0	26·0	22·0	43·1	34·1	9·0	38·4	35·1	·204	2·4	0·4	88	553	–	33·2	1·9	13	8	2	7	–	6·8	26	6·40
		Dec.	29·578	1·500	48·5	9·0	39·5	34·6	25·5	9·1	30·2	27·0	·147	1·8	0·3	87	560	–	24·8	1·3	13	3	3	12	–	6·7	23	4·82
WARINGSTOWN, CO. DOWN (Ireland), Thomas Waring, Esq.	191	Oct.	29·387	1·322	68·0	28·0	40·0	57·3	44·3	13·0	49·8	46·9	·322	3·7	0·4	90	534	79·4	40·9	2·9	6	2	12	11	–	5·2	21	3·47
		Nov.	29·593	1·150	51·0	21·0	30·0	43·9	30·5	13·4	36·9	33·6	·193	2·3	0·3	88	552	59·4	28·1	2·2	14	3	3	10	–	4·3	21	1·84
		Dec.	29·469	1·280	50·0	5·0	45·0	37·0	21·8	15·2	30·0	25·9	·140	1·7	0·3	83	558	45·1	–	2·2	14	5	3	9	–	4·8	21	1·86

Second Rain-gauges are placed—

				October.	November.	December.	Total in Quarter.
At Strathfield Turgiss,	at the height of	38 feet	*above the ground*, the amount collected was	1·93 inches.	2·33 inches.	1·06 inches.	5·32 inches.
,, Oxford,	,,	22 feet	,, ,,	3·04 ,,	2·38 ,,	1·44 ,,	6·86 ,,
,, Cardington,	,,	36 feet	,, ,,	1·90 ,,	2·84 ,,	1·20 ,,	5·94 ,,
,, Eccles,	,,	34 feet	,, ,,	3·27 ,,	–	–	– ,,
,, Nottingham,	,,	39 feet	,, ,,	2·71 ,,	2·20 ,,	1·98 ,,	6·89 ,,

NOTE.—*Barometer Reading*, Leeds, 14th October, 10h. a.m., 30·502 inches, has been altered to 30·002 inches.
,, Cockermouth, 21st ,, 9h. p.m., 29·840 ,, ,, 28·840 ,,
,, Stockton Rectory, 22nd ,, 2h. p.m., 29·990 ,, ,, 28·990 ,,
,, Plymouth, 12th November, 5h. 45m. p.m., 30·343 ,, ,, 29·343 ,,

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·500	46·0	28·0	38·0	50·7	42·4	23·8	8·3	46·5	41·6	·270	3·1	0·6	83	541	–	–	1·7	9	7	6	9	3·8	6·3	69	18·15
Helston	29·572	72·0	20·0	52·0	53·1	39·5	32·0	13·6	45·7	39·2	·246	2·9	0·8	79	545	61·7	33·8	1·5	11	8	5	7	5·5	4·5	52	14·17
Truro	29·551	69·0	13·0	56·0	51·3	38·6	35·0	12·7	44·6	40·0	·253	2·9	0·6	84	547	–	–	2·2	12	5	6	8	–	6·6	60	17·28
Plymouth	29·606	64·0	19·0	45·0	49·4	37·5	29·2	11·9	43·0	39·3	·248	2·8	0·5	87	549	–	36·3	1·4	11	6	5	9	–	5·3	58	9·78
Torquay	29·532	65·9	20·6	45·3	48·8	38·6	29·3	10·2	43·4	39·0	·243	2·8	0·7	84	542	90·9	32·0	1·6	10	5	5	11	3·8	6·5	52	9·98
Ventnor	29·572	73·8	24·1	49·7	50·2	40·2	29·1	10·0	44·5	41·0	·265	3·0	0·5	88	545	–	–	–	10	8	4	9	5·7	6·1	52	8·49
Osborne	29·500	73·4	21·7	51·7	48·9	37·7	30·6	11·2	42·8	39·8	·253	2·9	0·4	89	545	69·9	32·8	0·2	10	6	7	8	–	7·0	44	6·26
Bournemouth	29·548	64·9	22·1	42·8	47·6	37·6	27·9	10·0	42·4	37·9	·254	2·7	0·6	84	547	–	–	–	9	7	4	11	–	5·4	38	5·28
Salisbury	–	–	16·0	–	–	32·5	–	–	–	–	–	–	–	–	–	72·4	31·2	1·2	12	5	5	9	–	6·9	41	8·77
Barnstaple	29·525	72·0	14·0	58·0	50·1	38·5	33·3	11·6	44·0	40·3	·258	2·9	0·5	87	547	–	–	1·2	10	4	7	10	–	4·1	53	13·76
Bath	29·527	70·9	14·8	56·1	45·4	35·6	33·3	9·8	40·0	37·0	·227	2·6	0·4	89	540	–	31·3	1·7	9	5	6	11	–	6·4	45	12·85
Caterham	29·518	67·0	19·0	48·0	45·4	34·7	30·7	10·7	40·3	37·6	·233	2·7	0·3	90	538	–	28·9	3·6	11	5	6	9	–	4·5	38	9·26
Ramsgate	29·499	66·3	19·1	47·2	47·4	38·7	30·6	8·7	43·0	39·0	·245	2·8	0·5	86	546	76·3	–	1·5	6	5	8	12	–	7·5	52	11·56
Strathfield Turgiss	29·532	74·0	9·0	65·0	47·2	34·7	38·8	12·5	41·0	37·7	·233	2·7	0·3	88	547	73·7	28·7	0·6	8	4	7	12	1·2	6·1	42	7·79
Weybridge Heath	29·567	75·0	9·0	66·0	46·7	34·8	40·0	11·9	40·6	36·4	·221	2·6	0·5	83	549	61·3	30·3	0·9	10	7	9	5	2·7	6·7	50	6·95
Marlborough	29·534	72·6	14·0	58·6	46·5	34·8	36·1	11·7	40·1	33·9	·226	2·6	0·4	83	542	72·1	29·5	0·4	11	4	6	10	–	6·9	43	9·35
Blackheath	29·515	74·0	15·9	58·1	46·9	36·5	36·1	10·4	41·7	37·6	·232	2·6	0·5	85	547	71·1	33·1	0·7	8	7	6	9	–	7·3	41	6·58
Streatley	–	76·9	6·2	70·7	–	–	40·2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	42	7·46
Camden Square	29·510	73·3	18·7	54·6	47·5	36·5	34·1	11·0	41·8	37·8	·235	2·7	0·5	86	547	65·1	33·3	–	13	2	6	10	–	7·0	45	6·41
Oxford	29·531	70·0	5·6	64·4	46·2	35·6	35·9	9·6	41·2	37·1	·227	2·6	0·5	86	546	73·3	32·3	1·0	9	5	6	10	0·3	7·9	41	6·99
Royston	29·541	70·0	13·2	56·8	46·1	34·0	36·2	12·1	39·9	36·0	·217	2·5	0·4	86	547	–	–	–	8	5	7	11	–	6·9	41	6·96
Cardington	29·519	70·6	12·0	58·6	46·1	34·5	35·6	11·6	40·3	38·0	·238	2·7	0·3	92	550	53·8	30·0	0·9	10	4	6	10	–	6·9	43	7·05
Cambridge	29·478	73·8	12·5	61·3	46·8	35·4	39·3	11·4	40·9	38·1	·238	2·7	0·4	90	549	75·6	29·2	1·0	9	4	7	10	–	6·5	53	7·65
Stockton	29·495	72·5	5·0	67·5	45·9	33·0	38·8	12·9	40·4	37·6	·232	2·7	0·3	90	545	49·8	–	0·3	8	4	6	12	3·5	6·2	45	6·26
Lowestoft	29·457	64·8	15·8	49·0	46·8	37·1	32·0	9·7	41·9	37·2	·228	2·6	0·6	83	547	71·5	34·0	0·9	7	5	5	14	7·8	7·2	53	10·15
Somerleyton	29·474	63·9	11·8	57·1	47·7	35·5	37·0	12·2	41·5	39·2	·249	2·9	0·3	92	548	–	–	0·9	8	5	8	9	5·9	6·1	54	11·37
Norwich	29·469	68·0	16·0	52·0	46·4	37·2	32·0	9·2	41·6	39·1	·247	2·8	0·3	91	548	–	–	–	3	4	9	14	–	–	50	8·13
Wolverhampton	29·520	68·5	10·6	57·9	44·1	33·4	33·6	10·7	38·5	35·1	·214	2·4	0·4	88	543	–	–	–	8	4	9	9	–	7·8	41	7·99
Leicester	29·520	71·9	6·9	65·0	45·0	35·2	35·7	9·8	40·1	35·7	·217	2·5	0·5	85	547	65·3	27·5	0·5	8	6	8	9	–	7·9	54	7·57
Nottingham	29·496	71·0	5·2	65·8	45·4	33·3	37·6	12·1	39·2	33·5	·223	2·6	0·3	90	549	63·1	31·7	0·3	10	5	7	8	1·4	6·9	66	7·11
Llandudno	29·502	73·0	20·7	52·3	48·4	38·6	29·9	9·8	43·4	37·3	·229	2·6	0·7	80	546	–	–	1·1	9	4	7	11	–	6·1	52	8·99
Kelstern Grange	29·506	66·7	11·8	54·9	43·7	33·0	33·7	10·7	38·0	34·7	·210	2·4	0·4	88	545	77·2	29·5	1·0	8	4	7	11	5·4	6·0	60	10·45
Liverpool	29·494	65·1	12·7	52·4	45·7	37·6	28·6	8·1	41·2	37·4	·231	2·7	0·5	86	546	–	–	1·0	8	6	7	9	–	6·6	49	5·99
Bermerside	29·535	70·8	12·0	58·8	44·7	34·4	33·5	10·3	39·0	34·2	·206	2·4	0·5	82	542	69·3	30·8	0·5	7	5	5	13	–	6·4	33	9·32
Hull	29·472	67·0	9·0	58·0	44·8	34·0	35·3	10·9	39·7	36·2	·222	2·5	0·4	87	551	56·7	30·4	–	–	–	–	–	1·2	–	65	7·04
Stonyhurst	29·500	69·2	13·1	56·1	45·4	33·8	34·3	11·6	39·1	34·0	·208	2·4	0·5	82	545	79·7	30·7	1·2	10	3	7	11	–	8·2	57	11·25
Leeds	29·505	68·0	14·0	54·0	47·6	35·1	34·3	12·5	41·5	35·2	·213	2·5	0·7	79	547	52·6	–	1·7	9	4	5	13	–	4·4	56	8·25
Bradford	29·495	67·0	13·9	53·1	44·5	35·6	29·4	8·9	40·0	35·6	·216	2·5	0·4	85	544	52·8	–	1·2	13	4	4	9	–	6·9	52	7·75
Cockermouth	29·503	70·0	6·1	63·9	44·6	33·4	34·8	11·2	38·5	33·9	·205	2·4	0·5	84	550	59·8	27·0	0·3	9	6	7	8	1·4	6·0	39	10·05
Allenheads	–	–	8·0	–	–	29·1	–	–	–	–	–	–	–	–	–	64·4	–	0·6	–	–	–	–	–	7·0	58	13·45
Silloth	29·498	74·7	9·4	65·3	46·4	32·6	36·3	13·8	39·0	32·5	·197	2·3	0·7	78	552	69·7	28·0	1·2	8	6	6	11	7·3	5·0	35	7·04
Carlisle	29·506	70·7	5·0	65·7	44·7	30·7	38·9	14·0	37·7	33·9	·204	2·4	0·4	87	552	59·9	25·5	1·1	8	5	7	11	4·5	6·6	42	6·35
Bywell	29·445	67·0	7·0	60·0	44·9	34·9	33·0	10·0	39·4	34·3	·205	2·4	0·6	82	549	56·9	28·8	1·2	7	5	6	12	–	6·4	64	11·19
North Shields	–	64·0	9·0	55·0	44·1	34·8	32·1	9·3	39·2	35·5	·215	2·5	0·4	87	551	–	33·7	1·6	11	5	4	11	–	6·4	66	12·72
Waringstown (Irel.)	29·474	68·0	5·0	63·0	46·1	32·2	38·3	13·9	38·5	35·5	·216	2·6	0·2	87	548	61·3	–	2·4	11	3	6	10	–	4·8	68	7·17

The highest temperatures of the air were at Streatley, 76°·9; Weybridge, 75°·0; Silloth, 74°·7; and Strathfield and Blackheath, both 74°·0.

The lowest temperatures of the air were at Stockton, Carlisle, and Waringstown, all 5°·0; Nottingham, 5°·2; Oxford, 5°·6; Cockermouth, 6°·1, and Streatley 6°·2.

The greatest daily ranges of the temperatures of the air were at Carlisle, 14°·0; Waringstown, 13°·9; Silloth, 13°·8; and Helston, 13°·6.

The least daily ranges of the temperatures of the air were at Liverpool, 8°·1; Guernsey, 8°·3; Ramsgate, 8°·7; and Bradford 8°·9.

The greatest number of rainy days were at Guernsey, 69; Nottingham and North Shields, both 66; Hull, 65; and Bywell 64.

The least number of rainy days were at Bermerside, 33; Silloth, 35; Bournemouth, 38; and Cockermouth 39.

The heaviest falls of rain were at Guernsey, 18·13 inches; Truro, 17·28 inches; Allenheads, 15·45 inches; and Helston 14·17 inches.

The least falls of rain were at Bournemouth 5·32 inches; Liverpool, 5·94 inches; Carlisle, 6·35 inches, and Camden Square, 6·41 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·500	46·0	28·0	38·0	50·7	42·4	23·8	8·3	46·5	41·6	·270	3·1	0·6	83	541	–	–	1·7	9	7	6	9	3·8	6·3	69	18·15
Between the latitudes 50° and 51°	29·554	49·0	20·1	48·9	49·9	38·5	30·4	11·4	43·8	39·5	·249	2·9	0·6	85	546	74·1	33·7	1·4	10	6	5	9	5·0	5·9	51	9·15
Between the latitudes 51° and 52°	29·526	72·0	13·2	58·8	46·9	35·1	34·9	10·8	41·4	37·7	·234	2·7	0·4	87	545	70·7	31·0	1·3	10	5	6	10	1·4	6·5	44	8·07
Between the latitudes 52° and 53°	29·496	70·0	10·9	59·1	46·0	34·9	35·8	11·1	40·4	37·2	·230	2·6	0·4	89	547	62·8	30·5	0·7	8	5	7	11	4·7	6·9	50	9·06
Between the latitudes 53° and 54°	29·501	68·3	13·4	54·9	45·6	35·3	32·4	10·3	40·2	35·6	·217	2·5	0·5	84	546	64·7	30·4	1·1	9	4	6	11	3·3	6·4	53	10·03
Between the latitudes 54° and 55°	29·488	70·6	6·9	63·7	45·1	32·9	35·8	12·2	38·7	33·7	·203	2·4	0·6	83	551	62·1	27·3	0·9	8	5	7	11	4·4	6·2	48	11·30
Mean for the Quarter, 50° to 55° — Year 1875	29·637	66·4	22·6	43·8	48·5	38·5	32·3	10·0	43·2	39·5	·246	2·8	0·5	87	547	63·0	34·5	1·2	7	8	7	9	3·7	7·4	54	12·84
Mean for the Quarter, 50° to 55° — " 1876	29·455	69·5	24·9	44·6	51·9	41·8	33·1	10·1	46·5	42·8	·278	3·2	0·5	87	541	66·6	37·0	1·1	5	8	10	7	3·5	7·1	55	10·70
Mean for the Quarter, 50° to 55° — " 1877	29·604	66·7	27·2	39·5	51·6	49·5	30·5	12·1	45·4	41·0	·259	3·0	0·5	85	545	71·7	33·9	1·3	5	3	9	13	4·1	6·0	58	9·32
Mean for the Quarter, 50° to 55° — " 1878	29·513	70·0	12·9	57·1	46·7	35·5	33·9	11·2	40·9	36·7	·227	2·6	0·5	86	547	66·9	30·6	1·1	9	5	6	10	3·8	6·4	49	

Remarks on the Weather during the Quarter ending March 31st, 1879.

By James Glaisher, Esq., F.R.S., *&c.*

The period of warm weather which set in on December 26th, suddenly changed on January 2nd, to one of very cold weather; on the 13th the temperature increased a little, but snow and rain fell; on the 15th the temperature declined again, and continued low. The month of January was exceedingly cold, its mean temperature was 31°·9, being 5°·2 *below* the average of 60 years; and the coldest January since the year 1838. The month was nearly sunless, with almost constant N. and E. winds, which frequently blew very strongly; snow was on the ground the whole month, and birds were generally famished.

Till February 4th the average daily deficiency of temperature from the beginning of the year was 5°·3; on February 5th the wind changed to S.W., and the temperature rose above its average, and continued high till February 16th, the average excess for these 10 days being 5°·2 daily. On the 17th the weather was again cold, and the temperature was low till the end of the month. During the whole of February the barometer readings were very low; on two days, viz., the 10th and 17th, the pressure was more than one inch below its average, the mean reading for the month was 0·44 inch below the average, and back to 1841 there is no instance of so low a reading for the month of February. The sky was generally cloudy, and this was the wettest February back to 1815, with the exception of 1866. The month was very destructive to vegetation, and many tender plants were killed. Snow fell at one or other station on 23 days in the month. From February 17th to March 3rd, the average deficiency of mean temperature was 3°·9 daily; from March 4th to March 20th, the direction of the wind was mostly S.W. or W.S.W., and the mean temperature was in excess of the average by 2°·5 daily. On March 21st, a very severe cold period set in, with a strong N.E. or E.N.E. wind, and slight falls of snow occurred daily till the 28th, the average daily deficiency of mean temperature being 7°·6; then warmer weather prevailed for the remaining few days of the quarter.

Table showing the Minimum Temperatures of the Air at the several Stations on January 10th, 11th, 12th, 20th, 21st, 22nd, 23rd, and 24th, February 1st and 24th, and March 23rd, 24th, 25th, and 26th.

Names of Stations.	January 10th.	11th.	12th.	20th.	21st.	22nd.	23rd.	24th.	February 1st.	24th.	March 23rd.	24th.	25th.	26th.
	°	°	°	°	°	°	°	°	°	°	°	°	°	°
Guernsey	26·5	24·5	29·0	30·0	32·8	31·0	31·5	32·0	34·0	31·0	36·5	34·5	34·0	34·5
Helston	26·0	18·0	18·0	35·0	29·9	23·0	24·0	29·0	39·0	32·0	31·0	30·0	33·0	36·0
Truro	32·0	28·0	16·0	37·0	38·0	27·0	24·0	28·0	37·0	28·0	34·0	33·0	31·0	34·0
Eastbourne	25·0	25·3	22·0	29·0	28·0	27·9	27·7	29·0	28·8	26·0	35·0	30·4	30·0	31·0
Plymouth	27·5	25·0	17·5	35·0	34·5	29·0	26·0	26·0	33·0	29·0	35·0	32·0	30·0	31·5
Torquay	29·7	21·1	19·1	33·8	29·1	28·9	25·2	29·0	33·2	29·2	34·1	30·1	29·8	32·7
Yentnor	28·1	25·7	21·8	33·5	30·1	27·8	26·2	27·4	31·1	25·7	33·5	32·5	31·2	31·7
Osborne	23·9	23·0	18·1	18·3	26·7	25·7	24·4	25·7	27·7	24·3	31·7	29·5	29·4	29·7
Bournemouth	24·0	16·3	16·0	30·7	28·0	28·2	25·5	29·6	29·1	27·5	33·7	30·5	30·0	31·0
Brighton	23·0	21·0	20·8	28·0	25·5	27·0	25·8	29·1	27·6	25·5	34·4	30·6	29·6	31·5
Salisbury	13·0	20·0	11·0	25·0	25·0	24·0	21·0	24·0	26·0	23·0	33·0	29·0	27·0	29·0
Barnstaple	27·0	25·0	18·0	33·0	29·0	29·0	27·0	29·0	31·0	28·0	36·0	32·0	32·0	31·0
Caterham	21·0	16·8	18·0	25·0	20·5	21·5	23·0	25·0	24·2	21·0	30·0	27·5	20·6	27·8
Bath	17·5	16·7	18·7	28·1	24·5	24·5	27·0	26·3	32·3	—	31·0	27·8	28·2	27·8
Ramsgate	24·0	24·5	21·6	28·1	25·5	28·7	27·9	29·6	26·9	30·2	36·6	29·6	30·2	33·8
Strathfield Turgiss	18·6	16·0	15·5	25·3	24·0	25·8	22·3	27·8	26·6	16·9	33·4	32·2	29·8	29·5
Weybridge Heath	15·0	15·8	16·0	23·0	24·8	27·8	22·8	29·0	27·0	16·8	33·8	32·0	29·8	28·0
Marlborough	17·1	16·1	14·7	27·4	25·1	25·3	21·9	27·0	25·4	23·8	31·0	28·3	27·5	28·7
Bristol	18·0	17·4	11·5	26·8	27·0	28·0	22·2	24·3	28·0	25·2	34·0	30·0	29·7	29·6
Blackheath	22·1	20·9	20·0	26·9	23·4	26·3	22·8	26·1	25·3	22·7	32·5	28·1	26·8	30·1
Greenwich	21·4	21·6	19·4	25·9	25·6	25·3	24·4	27·7	27·3	24·5	32·3	29·2	29·5	31·7
Streatley	21·8	18·3	17·2	27·0	25·7	25·0	20·0	25·5	28·1	24·0	33·0	30·2	29·7	34·0
Chiswick	24·0	21·0	14·5	28·0	26·0	27·0	25·0	28·0	—	—	—	—	—	—
Camden Square	24·1	22·2	19·2	27·7	27·1	28·0	24·1	28·4	28·3	25·2	32·8	30·0	30·0	31·2
Oxford	20·4	16·5	16·2	26·3	27·0	22·2	24·0	27·9	27·2	23·2	28·8	28·0	27·8	31·2
Royston	16·6	18·4	17·5	19·6	26·3	19·3	17·0	25·9	24·1	18·3	30·1	27·0	27·1	27·5
Cardington	20·0	21·0	16·0	21·0	28·0	21·6	18·4	25·0	23·0	17·6	32·0	30·0	29·0	29·0
Somerleyton	26·8	22·8	12·2	29·6	28·2	27·5	27·4	28·3	28·8	28·4	32·2	28·0	29·0	30·4
Lowestoft	25·0	18·4	15·7	30·0	28·0	29·0	27·5	29·7	26·9	26·7	32·3	28·7	30·0	31·0
Cambridge	15·2	17·0	19·0	23·8	28·0	21·8	20·0	28·2	28·5	21·0	32·5	29·0	29·5	29·8
Stockton	18·0	12·5	12·0	20·5	26·0	23·0	15·0	26·0	23·0	23·0	31·0	27·0	28·0	27·5
Norwich	25·0	19·0	19·0	30·0	29·0	28·0	24·0	29·0	28·0	27·5	32·8	29·0	30·0	30·5
Leicester	21·0	17·0	19·8	24·3	27·9	22·0	20·0	28·2	27·2	23·6	32·4	28·5	28·5	29·5
Wolverhampton	19·5	14·3	15·3	18·7	25·3	20·5	18·6	21·3	26·0	21·9	31·6	27·9	26·7	26·4
Nottingham	23·2	18·6	15·2	24·4	27·6	25·1	22·5	27·0	27·8	20·3	32·4	29·2	29·1	29·3
Holkham	22·2	18·2	10·0	28·7	28·2	27·2	27·6	29·2	27·9	17·7	31·5	27·6	28·2	29·0
Llandudno	25·6	19·1	24·0	29·0	29·0	30·4	27·3	27·0	28·2	34·1	33·5	30·2	29·0	28·0
Sheffield	23·0	21·0	24·0	18·0	27·3	27·0	23·5	28·0	27·7	22·5	32·0	29·5	29·0	30·0
Kelstern Grange	19·5	20·6	21·2	28·1	28·3	26·1	26·1	24·8	27·1	18·2	30·9	28·9	28·2	29·9
Liverpool	25·3	11·7	20·6	26·8	27·5	26·1	22·8	25·1	28·6	32·5	33·4	30·5	29·6	29·7
Bolton	17·5	12·1	11·4	20·0	21·4	22·1	15·4	14·3	23·3	23·9	28·0	25·5	24·3	25·0
Bermerside	23·0	18·0	20·0	23·0	23·0	20·0	23·0	22·0	27·0	28·5	31·2	28·0	28·5	28·0
Hull	27·0	25·0	26·0	30·0	30·0	27·0	26·0	30·0	30·0	24·0	33·0	28·0	30·0	31·0
Stonyhurst	20·0	17·3	26·8	24·5	24·4	19·2	26·5	28·5	27·0	25·3	30·0	27·8	29·9	30·2
Leeds	24·6	22·4	23·4	22·0	26·8	25·0	23·0	25·6	28·4	29·4	31·9	29·8	28·4	29·2
Cockermouth	24·0	23·0	25·0	25·0	27·0	27·0	24·0	26·0	29·0	27·0	30·0	30·0	28·0	29·0
Allenheads	25·8	19·1	16·2	19·3	22·9	23·5	14·5	17·8	28·9	26·3	30·1	29·8	29·2	30·2
Silloth	22·8	19·0	—	21·4	25·4	20·2	12·0	15·2	23·3	15·2	—	26·3	25·4	25·5
Sunderland	21·2	16·8	17·5	21·6	24·5	20·4	16·2	17·5	26·2	28·4	31·0	31·1	29·7	29·6
Carlisle	31·0	29·0	30·0	29·0	31·0	30·0	28·0	27·0	30·0	32·0	35·0	32·0	32·0	32·0
Bywell	15·5	16·9	19·5	23·5	18·5	11·8	13·6	19·3	27·0	18·0	29·9	28·8	28·9	25·9
North Shields	28·0	24·0	23·0	28·0	32·0	25·0	19·0	18·0	26·0	30·0	33·0	32·0	30·0	30·0
	29·2	27·2	27·0	25·0	30·3	28·0	23·2	22·0	25·2	31·6	33·7	32·0	31·8	31·0

From this table it will be seen that on the 10th of January the lowest reading was 13°·0 at Salisbury, on the 11th was 11°·7 at Liverpool, on the 12th was 10°·0 at Holkham, on the 20th was

18°·0 at Sheffield, on the 21st was 18°·5 at Carlisle, and on the 22nd was 11°·8 at Carlisle, on the 23rd was 12°·0 at Allenheads, on the 24th was 14°·3 at Bolton, on the 1st of February was 23°·3 both at Allenheads and Bolton, on the 24th was 15°·2 at Allenheads, on March 23rd was 28° at Bolton, on the 24th was 25°·5 at Bolton, on the 25th was 20°·6 at Caterham, and on the 26th was 25° at Bolton. The continuance of these low readings to the end of the quarter indicates the persistence of the cold weather.

During the whole of the quarter the weather has been characterised by almost continued severity, as was also the case during the two last months of the year 1878; this long cold period set in on October 27th, 1878. The mean temperature of the 159 days ending March 31st was 36°·9, being 3°·4 below the average of 60 years; this long period of cold weather, extending over five months, is more remarkable for its persistence than for its severity at any particular time; it is also noteworthy on account of the almost continual cloudiness of the sky, which was such that the sun's place was seldom visible.

The readings of the barometer in the neighbourhood of London were alternately above and below their averages from the 1st to the 15th of January, the greatest departure in defect of the average in this period was 0·50 in. on the 3rd, and the greatest departure in excess was 0·32 in. on the 6th, the mean amount in defect for the 15 days was 0·04 in. From the 16th of January to the 1st of February the mean daily readings were all in excess of their averages, the mean amount of daily excess for the 17 days ending February 1st was 0·22 in. From February 2nd to the 28th the mean daily barometer readings were in defect of their averages (except on two days, viz., 4th and 26th, which were respectively 0·05 in. and 0·08 in. in excess of the average); on several days during this period the mean daily values were between 0·6 in. and 0·9 in. in defect, and on the 10th and 17th the mean readings were no less than 1·05 in. and 1·01 in. respectively in defect, the mean amount of daily defect for the 27 days ending 28th February was 0·47 in. The mean readings of the barometer were above their averages from the 1st to the 14th of March (with the exception of three days, viz., 3rd, 5th, and 12th, on which days the readings were a little below their average values); the mean amount in excess of the average for the 14 days was 0·16 in., and from the 15th of March (with the exception of the 17th) to the end of the quarter the mean readings were below their averages, the mean amount in defect for the 17 days ending 31st March was 0·20 in.

The mean reading of the barometer for the month of January was 29·851 ins., being 0·097 in. above the average, and 0·13 in. below that in 1878. The mean reading for February was 29·363 ins., being no less than 0·438 in. below the average, and in the preceding 38 years there is *no* instance of so low a reading for the month of February, the nearest approach was in the year 1843 when the mean reading was 29·473 ins.

The mean reading for March was 29·809 ins., being 0·069 above the average; and 0·08 in. below the value in 1878.

The mean reading of the barometer for the quarter was 29·674 ins., being 0·091 in. below the average of the preceding 38 years.

The atmospheric pressure in January was greater than in December by 0·305 in., in February was less than in January by 0·488 in., and in March was greater than in February by 0·446 in. (From the preceding 38 years' observations the *mean pressure* in January is less than in December by 0·039 in., in February is greater than in January by 0·047 in. and in March is less than in February by 0·061 in. The mean *increase* of pressure from December to January South of latitude 51° was 0·229 in., between 51° and 53° it was 0·312 in., and North of 53° was 0·357 in. The mean decrease from January to February South of latitude 51° was 0·437 in., between 51° and 52° was 0·478 in., between 53° and 54° was 0·504 in., and North of latitude 54° was 0·535 in. The mean increase of pressure from February to March was nearly the same everywhere, and the general mean was 0·441 in.

At Greenwich the *mean temperature* of January was lower than in December by 1°·8; that of February was higher than that of January by 6°·3, and that of March was higher than that of February by 3°·0. (From the preceding 38 years' observations the *mean temperature* of January is lower than that of December by 1°·5, that of February is higher than that of January by 0°·7, and that of March is higher than that of February by 2°·2.) The decrease of mean temperature from December to January from all places was 0°·6; the increase from January to February South of latitude 51° was 4°·8, between 51° and 53° was 6°·2, and North of 53° was 4°·8. The increase from February to March South of latitude 53° was 1°·9, and North of latitude 53° was 3°·0.

The mean temperature of the air for January was 31°·9, being 4°·7 and 6°·8 respectively below the averages of the preceding 108 years and 38 years. It was 8°·5 lower than the value in 1878, and we have to travel back to 1838 before we experience a January so cold as that in the present year. The following are the only instances back to 1771 when the mean temperature of January was as low as 31°·9.

In the year	1771	it was	29°·9
"	1774	"	31·5
"	1776	"	27·0
"	1780	"	28·6
"	1784	"	29·2
"	1795	"	23·9
In the year	1814	it was	26°·9
"	1815	"	31·9
"	1820	"	31·7
"	1823	"	31·8
"	1829	"	31·7
"	1830	"	30·7
"	1838	"	28·9

The mean temperature of the air for February was 38°·2, being 0°·5 and 1°·2 below the averages of the preceding 108 years and 38 years respectively. It was lower than any value since 1875.

The mean temperature of the air for March was 41°·2, being 0°·1 above the average of the preceding 108 years and 0°·4 below the average of the preceding 38 years. It was 0°·8 lower than the value in 1878.

The mean temperature of the air for the quarter was 37°·1, being 1°·7 and 2°·8 below the averages of the preceding 108 years and 38 years respectively.

The mean high day temperatures of the air were 8°·5, 2°·9, and 0°·9 respectively below their averages in January, February, and March.

The mean low night temperatures of the air were 5°·9 and 0°·5 below their respective averages in January and March; in February the mean was the same as the average. Therefore the days and nights were cold throughout the quarter.

The mean daily ranges of temperature were 2°·6, 2°·9, and 0°·4 respectively below their averages in January, February, and March.

The fall of rain at Greenwich in January was 2·6 ins., being 0·7 in. above the average; in February the fall was 3·8 ins., being 2·3 ins. above the average, and back to 1815 there is but one instance of so large a fall in the month of February; viz., in 1866, when it was 3·9 ins. In March the fall was 0·6 in., being 1·0 in. below the average. The total fall in the quarter was 7·0 ins., being 2·0 ins. above the average, and back to 1815 there are but six instances of so large a fall of rain in the three months ending March 31st; viz., in 1818, when it was 7·7 ins., in 1819 it was 7·1 ins., in 1844 it was 7·6 ins., in 1851 it was 8·0 ins., in 1866 it was 9·0 ins., and in 1876 it was 8·3 ins.

1879. Months.	Temperature of Air. Mean.	Air. Diff. from average of 108 years.	Air. Diff. from average of 38 years.	Evaporation. Mean.	Evaporation. Diff. from average of 38 years.	Dew Point. Mean.	Dew Point. Diff. from average of 38 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 38 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 38 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 38 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.
Jan. -	31·9	−4·7	−6·8	30·4	−6·8	27·0	−8·2	7·1	−2·6	34·9	0·146	−0·056	1·7	−0·7
Feb. -	38·2	−0·5	−1·2	36·7	−1·0	34·7	−0·4	8·3	−2·9	38·9	0·201	−0·006	2·3	−0·1
March -	41·2	+0·1	−0·4	38·5	−0·7	35·2	−1·1	14·2	−0·4	43·0	0·205	−0·010	2·4	−0·1
Means -	37·1	−1·7	−2·8	35·2	−2·8	32·3	−3·2	9·9	−2·0	38·9	0·184	−0·024	2·1	−0·3

1879. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 38 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 38 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 38 years.	Rain. Amount.	Rain. Diff. from average of 64 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
Jan. -	80	−7	29·851	+0·097	563	+10	2·6	+0·7	283	24	7	0	18·7	33·0
Feb. -	87	+2	29·363	−0·438	547	− 6	3·8	+2·3	303	11	14	3	23·0	44·9
March -	80	−2	29·809	+0·069	552	+ 2	0·6	−1·0	316	13	17	1	24·9	42·2
Means -	82	−2	29·674	−0·091	554	+ 2	Sum 7·0	Sum +2·0	Mean 301	Sum 48	Sum 38	Sum 4	Lowest 18·7	Highest 44·9

NOTE.—In reading this table it will be borne in mind that the plus sign (+) signifies *above* the average, and that the minus sign (−) signifies *below* the average.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter were as follows:—

Direction of Wind.	January. Average.	January. 1879.	January. Departure from Average.	February. Average.	February. 1879.	February. Departure from Average.	March. Average.	March. 1879.	March. Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	1½	1	− ½	2	2	0	2¾	2	− ¾
N.	3	2	−1	3	3	0	3¼	2	−1¼
N.E.	3½	8	+4½	3½	4	+ ½	4	6	+2
E.	¾	7	+6¼	2	3	+1	2½	4	+1½
S.E.	2¼	5	+2¾	1½	5	+3½	2	2	0
S.	4½	2	−2½	3	1	−2	2½	2	− ½
S.W.	9¾	2	−7¾	8	5	−3	7¾	7	− ¾
W.	3¾	4	+ ¼	2½	4	+1½	3¼	5	+1¾
Calm (nearly.)	2½	0	−2½	2½	1	−1½	2½	1	−1½

The plus sign (+) denotes excesses over averages; the largest numbers affected with this sign in the month of January are opposite to the N.E., E., and S.E., in February to the S.E., and in March to the N.E., E., and W.

The minus sign (−) denotes defects below averages; the largest numbers affected with this sign in the months of January and February are opposite to the S. and S.W., and in March to the N., but there was still a deficiency of S. and S.W. winds in March.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING MARCH 31ST, 1879.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the sixth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1879. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.M.S.	204	Jan.	29·714	1·028	53·0	24·5	28·5	42·0	34·8	7·2	38·3	34·4	·198	2·3	0·4	86	553	–	–	2·0	9	12	6	4	3·7	8·3	17	6·43
		Feb.	29·330	1·176	52·0	31·0	21·0	43·2	38·3	7·9	42·0	39·1	·239	2·7	0·4	90	542	–	–	1·8	6	5	8	9	4·4	7·6	25	5·11
		Mar.	29·759	1·111	54·0	30·0	24·0	48·0	39·2	8·8	43·0	39·3	·240	2·8	0·4	86	549	–	–	1·3	8	9	7	7	3·2	5·1	14	1·29
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	Jan.	29·869	1·162	57·0	23·0	34·0	44·2	32·3	11·9	37·8	33·6	·192	2·2	0·5	85	557	46·6	27·9	1·6	8	15	6	2	6·3	7·9	12	5·81
		Feb.	29·499	1·374	55·0	31·0	24·0	50·1	38·0	12·1	43·5	38·7	·235	2·7	0·5	83	543	55·9	34·6	1·5	10	4	7	7	5·2	5·4	22	5·33
		Mar.	29·955	1·035	60·0	28·0	32·0	52·1	37·3	14·8	43·7	39·2	·240	2·8	0·5	84	551	62·5	34·8	1·8	9	7	8	7	3·7	3·6	16	1·48
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	Jan.	29·920	1·065	53·0	16·0	37·0	42·7	34·0	8·7	38·1	34·8	·202	2·3	0·4	88	557	–	–	2·5	8	14	4	5	–	8·5	14	6·66
		Feb.	29·512	1·329	54·0	25·0	29·0	48·9	38·4	10·5	43·0	41·2	·259	3·0	0·2	93	544	–	–	2·5	8	3	8	9	–	7·5	28	4·82
		Mar.	29·947	0·996	61·0	24·0	37·0	51·1	35·9	15·2	42·4	40·0	·247	2·9	0·3	91	553	–	–	2·3	9	7	6	9	–	6·4	16	1·39
PLYMOUTH (Devon), John Merrifield, Esq., F.R.A.S., F.M.S., LL.D.	69	Jan.	29·957	1·082	53·0	17·5	35·5	41·7	32·2	9·5	36·9	35·5	·207	2·5	0·1	94	559	–	31·3	2·0	7	14	4	6	–	8·3	15	5·52
		Feb.	29·530	1·314	52·5	27·5	25·0	46·8	36·8	10·0	41·6	38·9	·238	2·8	0·3	91	546	–	35·4	1·6	8	4	7	9	–	7·2	23	5·18
		Mar.	29·976	1·079	58·5	26·5	32·0	50·0	35·6	14·4	42·6	37·5	·225	2·6	0·6	83	553	–	34·1	1·7	9	10	6	6	–	6·5	12	0·49
BABBACOMBE, Torquay (Devon), Edwin E. Glyde, Esq., F.M.S.	305	Jan.	29·632	1·081	52·8	19·1	33·7	39·8	32·6	7·2	36·2	32·0	·181	2·1	0·4	84	554	56·5	28·3	1·9	8	14	5	4	2·8	8·0	15	6·35
		Feb.	29·200	1·435	53·9	28·2	25·7	46·7	36·8	9·9	41·4	38·0	·229	2·6	0·4	88	540	92·4	31·5	1·5	6	5	8	9	4·2	7·4	25	5·49
		Mar.	29·641	1·072	56·6	26·2	30·4	48·9	36·5	12·4	42·2	37·7	·226	2·6	0·5	84	547	100·4	30·3	1·5	8	7	7	9	3·1	6·8	13	0·56
EASTBOURNE (Sussex), Miss W. L. Hall.	12	Oct.	29·719	1·296	69·6	31·0	38·6	59·8	46·7	13·1	52·8	47·8	·333	3·7	0·8	83	537	98·9	37·5	0·4	5	8	8	10	1·6	–	14	2·97
		Nov.	29·676	1·150	53·7	27·8	25·9	45·6	36·0	9·6	41·0	38·5	·233	2·7	0·3	91	549	67·9	28·1	0·3	13	11	2	4	0·9	–	19	3·68
		Dec.	29·669	1·096	53·6	20·8	32·8	40·9	30·8	10·1	36·5	34·6	·201	2·4	0·2	93	554	50·9	22·3	0·2	12	5	5	9	0·7	–	20	2·99
		Jan.	29·958	0·950	50·0	23·0	27·0	38·2	30·4	7·8	34·6	31·7	·179	2·1	0·3	89	562	49·4	23·4	0·3	7	16	3	5	0·5	–	11	3·94
		Feb.	29·389	1·116	51·8	26·0	25·8	44·1	34·9	9·2	39·5	37·2	·223	2·6	0·2	92	546	69·6	27·4	0·2	6	5	6	11	1·3	–	23	3·97
		Mar.	29·901	1·218	59·0	28·7	30·3	48·7	35·1	13·6	41·2	37·8	·227	2·6	0·4	88	553	88·4	26·5	0·2	8	10	4	9	1·0	–	14	1·13
VENTNOR (Royal National Hospital for Consumption), Isle of Wight, Hartley Sagar, Esq.	150	Jan.	29·891	1·032	49·2	22·2	27·0	38·8	32·4	6·4	35·4	31·8	·180	2·1	0·4	87	559	–	–	–	5	17	6	3	6·8	8·1	16	4·31
		Feb.	29·448	1·064	50·3	23·1	24·2	44·0	36·1	7·9	39·5	37·7	·227	2·7	0·2	94	547	–	–	–	8	6	6	8	8·0	7·1	24	3·86
		Mar.	29·896	1·068	57·6	31·6	26·0	47·8	38·3	9·5	42·1	38·8	·236	2·7	0·4	89	552	–	–	–	6	10	6	9	7·2	6·7	12	0·73
OSBORNE (Isle of Wight), R. J. Mann, Esq.	172	Jan.	29·800	0·950	50·1	19·1	31·0	38·3	29·1	9·2	33·6	32·2	·182	2·1	0·2	94	560	50·8	24·4	0·2	8	12	7	4	–	8·6	12	3·69
		Feb.	29·339	1·192	51·5	25·3	26·2	44·9	34·3	10·6	39·1	38·2	·231	2·7	0·2	97	545	69·8	29·4	0·1	5	6	9	8	–	8·0	22	3·77
		Mar.	29·789	1·062	62·2	29·2	33·0	48·7	35·3	13·4	41·4	40·3	·251	2·9	0·1	96	551	86·1	29·4	0·2	7	7	9	8	–	6·4	9	0·50
SOUTH BOURNE, near Bournemouth, (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	95	Jan.	29·881	0·970	50·0	15·8	34·2	37·8	30·4	7·4	34·1	29·7	·165	1·9	0·3	83	561	–	–	1·7	6	16	3	6	–	7·6	14	4·20
		Feb.	29·406	1·074	48·0	26·8	21·2	42·9	35·6	7·3	39·0	36·6	·217	2·5	0·3	91	547	–	–	1·6	6	8	6	8	–	6·6	25	3·93
		Mar.	29·848	1·064	56·5	29·8	26·7	47·0	36·2	10·8	41·1	37·0	·220	2·6	0·5	86	552	–	–	1·4	10	9	4	8	–	5·2	11	0·67
BRIGHTON (Sussex), F. E. Sawyer, Esq., F.M.S.	206	Jan.	29·790	1·015	48·1	20·8	27·3	36·8	30·0	6·8	33·5	29·8	·165	1·9	0·4	86	560	–	27·8	1·0	13	11	3	4	–	8·1	9	2·77
		Feb.	29·324	1·150	49·4	25·5	23·9	42·6	34·6	8·0	38·5	35·6	·209	2·5	0·3	90	546	–	32·1	0·8	8	7	6	7	–	8·0	20	3·19
		Mar.	29·774	1·097	55·6	29·6	26·0	46·8	36·1	10·7	41·2	36·5	·215	2·5	0·5	83	551	–	32·6	1·0	7	9	7	8	–	6·8	12	0·80
SALISBURY (Wilton House), T. Challis, Esq.	186	Jan.	29·774	1·002	–	11·0	–	–	25·6	–	–	–	–	–	–	–	–	50·9	24·3	1·5	9	14	4	4	–	8·0	12	4·25
		Feb.	29·320	1·250	–	22·0	–	–	32·3	–	–	–	–	–	–	–	–	67·9	31·5	1·4	9	5	8	6	–	8·1	23	4·19
		Mar.	29·781	1·044	65·0	25·0	40·0	50·9	31·9	19·0	41·1	37·9	·228	2·6	0·4	89	551	81·8	30·9	1·4	8	6	10	7	–	7·0	6	0·42
BARNSTAPLE (Devon), William Knill, Esq.	43	Jan.	29·938	1·000	54·0	18·0	36·0	40·6	31·6	9·0	36·0	34·0	·197	2·3	0·2	92	560	–	–	1·4	6	13	7	5	–	6·7	12	4·04
		Feb.	29·480	1·430	56·0	24·0	32·0	47·7	38·0	9·7	42·4	40·2	·249	2·9	0·3	92	544	–	–	1·1	4	7	9	8	–	5·1	25	6·37
		Mar.	29·920	0·990	62·0	28·0	34·0	51·6	37·3	14·3	43·8	39·3	·241	2·8	0·5	84	551	–	–	1·2	6	6	11	8	–	4·5	12	0·78

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1879. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
ST. GREGORY'S COLLEGE, Downside, Bath (Somerset). Rev. T. L. Almond, O.S.B., F.M.S.	596	Jan.	29·332	1·011	48·8	16·7	32·1	35·3	27·2	8·1	31·0	28·0	·153	1·8	0·3	87	554	–	26·0	1·8	8	13	5	5	–	8·0	10	4·40
		Feb.	28·868	1·272	50·4	20·7	29·7	42·5	34·0	8·5	37·8	35·9	·210	2·5	0·2	93	538	79·2	30·9	1·6	6	5	8	9	–	7·5	24	6·01
		Mar.	29·309	1·017	59·8	27·8	32·0	46·9	33·6	13·3	39·4	37·3	·224	2·6	0·2	93	544	85·0	30·0	1·7	8	6	8	9	–	8·2	17	1·58
CATERHAM (Surrey), James Adam, Esq., M.D.	608	Jan.	29·304	1·000	52·0	16·8	35·2	34·6	26·2	8·4	30·8	29·4	·164	2·0	0·2	95	554	–	22·0	2·0	8	12	6	5	–	3·5	7	3·61
		Feb.	28·860	1·250	49·8	21·0	28·8	40·6	31·0	9·6	36·3	33·1	·190	2·2	0·4	89	539	–	27·3	1·9	7	5	8	8	–	4·4	17	3·68
		Mar.	29·342	1·000	60·2	20·6	39·6	45·8	32·4	13·4	39·5	34·2	·198	2·3	0·6	82	545	–	26·6	1·9	7	6	9	9	–	–	15	0·63
RAMSGATE (Kent), Rev. E. Douglas O'Gara, O.S.B.	108	Jan.	29·925	1·048	50·3	21·6	28·7	37·2	30·2	7·0	33·6	29·6	·164	1·9	0·4	86	563	40·9	27·6	1·5	11	10	3	7	–	8·0	9	2·22
		Feb.	29·451	1·175	52·6	26·9	25·7	42·7	34·7	8·0	38·5	35·4	·207	2·4	0·3	89	548	66·7	32·8	1·4	9	7	6	6	–	9·0	23	3·22
		Mar.	29·898	1·083	61·2	29·6	31·6	48·0	35·9	12·1	41·4	35·2	·231	2·7	0·4	89	553	89·9	31·8	1·3	8	8	6	9	–	6·5	9	0·70
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	Jan.	29·803	1·028	50·4	15·5	34·9	36·1	27·1	9·0	31·9	27·9	·152	1·8	0·3	84	562	48·7	21·8	0·6	8	14	4	5	0·8	7·9	9	3·44
		Feb.	29·332	1·209	52·3	16·9	35·4	43·7	33·0	10·7	38·2	35·3	·206	2·4	0·3	90	546	71·7	27·6	0·8	6	4	10	8	1·5	9·0	24	3·21
		Mar.	29·774	1·048	63·6	25·4	38·2	49·3	33·7	15·6	41·1	35·2	·205	2·4	0·6	80	551	85·7	26·6	1·0	7	6	6	12	2·7	6·6	10	0·46
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S	150	Jan.	29·923	1·092	48·5	15·0	33·5	35·2	27·9	7·3	32·0	28·3	·155	1·8	0·3	85	564	40·2	24·8	0·9	12	13	4	2	2·7	7·7	8	2·63
		Feb.	29·407	1·271	52·5	16·8	35·7	43·3	32·9	10·4	38·1	35·8	·210	2·4	0·3	92	548	58·7	29·2	0·9	7	8	8	5	3·7	8·1	22	3·41
		Mar.	29·855	1·004	65·3	26·8	38·5	49·9	33·1	16·8	40·7	35·7	·209	2·4	0·6	84	553	81·5	28·7	0·9	7	7	11	6	4·1	6·9	10	0·51
MARLBOROUGH, The Green (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	474	Jan.	29·495	1·050	49·0	14·7	34·3	35·4	25·5	8·9	30·6	27·2	·148	1·7	0·3	86	558	51·8	23·3	0·5	9	15	2	5	–	7·9	12	4·02
		Feb.	29·020	1·264	52·7	20·9	31·8	43·4	32·8	10·6	37·5	35·2	·205	2·4	0·3	92	541	70·0	28·9	0·4	6	6	5	11	–	8·4	23	4·74
		Mar.	29·464	1·038	62·5	27·3	35·2	48·1	33·9	14·2	40·0	36·3	·214	2·5	0·4	87	546	84·2	27·9	0·4	7	7	6	11	–	6·5	15	0·94
BLACKHEATH (London), James Glaisher, Esq., F.R.S.	160	Jan.	29·852	1·109	50·2	20·0	30·2	35·1	27·5	7·6	31·7	28·4	·155	1·8	0·3	86	563	46·4	24·7	0·5	7	13	6	5	–	8·1	10	2·47
		Feb.	29·358	1·319	52·2	22·7	29·5	42·4	33·2	9·2	37·9	35·2	·207	2·5	0·2	91	547	67·0	31·1	0·8	6	8	6	8	–	8·5	21	3·95
		Mar.	29·800	1·038	64·9	26·8	38·1	48·8	34·3	14·5	41·0	36·3	·212	2·5	0·5	83	552	89·2	31·0	1·0	6	9	7	9	–	6·6	14	0·70
STREATLEY VICARAGE (Berks), Rev. J. Slatter, M.A., F.R.S., F.M.S.	150	Jan.	29·846	0·969	53·4	17·2	36·2	37·0	27·8	9·2	32·6	30·2	·169	2·0	0·2	90	562	–	–	1·0	8	12	5	6	–	8·1	10	3·36
		Feb.	29·365	1·365	53·3	24·0	29·3	43·5	34·3	9·2	38·7	36·5	·218	2·5	0·2	93	546	–	–	1·3	6	8	8	6	–	8·4	22	3·38
		Mar.	29·833	1·008	62·6	27·0	35·6	49·5	34·7	14·8	41·9	37·4	·226	2·6	0·5	85	551	–	–	1·5	8	8	7	8	–	6·3	13	1·00
CAMDEN SQUARE (London). G. J. Symons, Esq., F.R.S., F.M.S.	123	Jan.	29·887	1·167	51·0	19·2	31·8	35·8	28·7	7·1	32·2	29·1	·161	1·9	0·2	87	563	44·1	26·9	–	10	11	5	5	–	7·1	12	2·87
		Feb.	29·405	1·249	53·8	25·2	28·6	43·0	34·4	8·6	39·0	35·8	·210	2·4	0·4	89	546	56·1	32·6	–	7	5	9	7	–	8·4	24	3·77
		Mar.	29·848	1·047	63·1	29·2	33·9	49·4	34·8	14·6	41·3	37·0	·221	2·6	0·5	85	552	78·7	32·4	–	11	4	5	11	–	6·6	14	0·91
OXFORD OBSERVATORY, Professor Pritchard, M.A., F.R.S., F.R.A.S.	210	Jan.	29·840	1·010	46·8	16·5	30·2	34·9	26·9	8·0	31·0	29·9	·165	1·9	0·2	95	563	55·7	24·4	0·9	5	16	4	6	1·1	7·7	9	3·00
		Feb.	29·815	1·308	53·7	23·8	29·9	42·9	34·1	8·8	38·2	35·8	·210	2·5	0·3	91	546	71·0	36·8	1·0	5	5	9	9	1·0	9·0	22	3·31
		Mar.	29·763	0·955	61·5	28·3	33·2	47·4	34·2	13·2	40·8	36·0	·212	2·4	0·5	86	551	86·6	32·1	1·2	7	7	6	11	1·6	7·6	15	0·88
ROYSTON (Hertfordshire). Hale Wortham, Esq., F.R.A.S., F.M.S.	269	Jan.	29·773	1·100	53·0	16·6	36·4	35·2	25·3	9·9	30·3	27·2	·148	1·7	0·3	88	563	–	–	–	9	12	5	5	–	7·6	10	2·40
		Feb.	29·267	1·280	53·8	18·3	35·5	42·0	32·0	10·0	37·1	34·5	·199	2·3	0·3	90	546	–	–	–	6	5	10	7	–	8·9	21	3·11
		Mar.	29·703	1·020	64·8	26·1	38·7	49·0	33·1	15·9	40·0	36·3	·214	2·5	0·4	87	551	–	–	–	8	6	6	11	–	6·7	13	0·78
CARDINGTON (near Bedford), Mr. J. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	105	Jan.	29·924	1·090	46·0	16·0	30·0	34·6	25·5	9·1	30·2	27·7	·152	1·8	0·3	90	567	37·8	22·7	0·8	9	14	4	4	–	7·6	7	2·25
		Feb.	29·416	1·320	54·5	17·8	37·0	43·1	32·9	10·2	37·6	36·2	·218	2·5	0·1	95	548	52·7	30·1	1·0	7	5	9	7	–	8·2	18	2·90
		Mar.	29·824	0·980	61·0	27·0	34·0	48·6	33·2	15·4	40·5	37·1	·220	2·5	0·4	88	553	66·0	29·5	1·8	6	8	6	11	–	6·5	10	1·00
CAMBRIDGE (Trinity College), J. W. L. Glaisher, Esq., M.A., F.R.S.	40	Jan.	29·977	1·092	46·0	15·2	30·8	35·3	27·0	8·3	31·3	29·7	·163	1·9	0·2	92	566	51·8	22·4	1·1	7	13	5	6	–	8·0	12	1·98
		Feb.	29·467	1·282	57·0	21·0	36·0	42·9	34·0	8·9	38·1	35·7	·209	2·4	0·3	91	549	68·7	29·2	1·3	6	6	9	7	–	8·7	23	2·75
		Mar.	29·912	1·020	65·2	27·5	37·7	49·6	34·3	15·3	41·2	36·7	·217	2·5	0·5	84	553	95·4	28·8	1·6	6	8	8	9	–	6·6	17	0·88
STOCKTON RECTORY, near Rugby (Warwickshire), W. Tuckwell, Esq.	289	Jan.	29·659	0·964	47·0	12·0	35·0	36·3	23·6	12·7	30·5	28·6	·157	1·9	0·2	92	561	38·9	–	0·2	10	14	3	4	5·6	7·0	9	1·84
		Feb.	29·200	1·178	53·0	21·0	32·0	43·1	31·6	11·5	38·0	36·0	·212	2·5	0·2	93	544	47·1	–	0·3	9	7	7	5	7·1	8·8	17	2·85
		Mar.	29·635	0·972	58·2	22·0	36·2	49·4	31·2	18·2	39·9	37·8	·227	2·7	0·2	93	550	56·0	–	0·6	8	8	7	8	6·6	5·8	10	0·64
LOWESTOFT (Suffolk), S. H. Miller, Esq., F.R.A.S., F.M.S.	85	Jan.	29·925	0·959	51·0	15·7	35·3	35·7	28·7	7·0	32·9	28·0	·154	1·8	0·1	82	563	43·4	27·1	1·3	5	15	4	7	8·4	7·4	[illegible]	1·14
		Feb.	29·433	1·336	54·2	26·7	27·5	40·8	33·0	7·8	37·1	32·8	·187	2·2	0·4	85	549	59·3	30·9	0·5	4	7	7	10	8·4	8·3	19	2·60
		Mar.	29·866	1·078	61·7	28·7	33·0	45·9	34·1	11·8	39·8	34·7	·202	2·3	0·5	82	554	82·3	31·8	0·6	7	7	6	11	8·5	6·9	12	1·23

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1879. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean of all Highest.	Temperature of Air in Month. Mean of all Lowest.	Temperature of Air in Month. Mean Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
SOMERLEYTON RECTORY (Suffolk), Rev. C. J. Steward, F.M.S.	50	Jan.	29·977	0·996	46·0	12·2	33·8	35·6	28·4	7·2	32·1	29·8	·166	2·0	0·1	91	565	–	–	1·0	10	14	1	6	5·9	7·8	12	1·30
		Feb.	29·473	1·358	55·9	26·2	29·7	41·7	32·9	8·8	37·1	35·7	·209	2·4	0·2	95	550	–	–	1·0	5	8	9	6	6·9	8·9	22	2·62
		Mar.	29·922	1·038	60·5	27·3	33·2	48·4	33·6	14·8	40·2	36·8	·218	2·5	0·4	88	555	–	–	1·1	7	8	7	9	7·0	5·7	16	1·04
NORWICH (Norfolk), John Quinton, Esq., Jun.	42	Jan.	29·999	1·108	50·0	19·0	31·0	35·4	28·8	6·6	32·2	30·6	·172	2·0	0·1	93	566	–	–	–	6	15	6	4	–	–	5	0·84
		Feb.	29·483	1·326	55·6	27·5	27·5	41·1	34·3	6·8	37·5	36·4	·215	2·6	0·1	96	549	–	–	–	6	8	9	5	–	–	16	2·01
		Mar.	29·920	0·992	59·2	29·0	30·2	47·0	35·5	11·5	40·3	38·7	·235	2·8	0·2	94	555	–	–	–	4	9	8	10	–	–	11	0·53
WROTTESLEY, WOLVERHAMPTON (Stafford), E. Simpson, Esq.	500	Jan.	29·470	0·950	51·5	14·3	37·2	34·7	24·1	10·6	29·6	24·5	·132	1·6	0·4	82	559	–	–	–	7	15	6	3	–	8·5	8	1·90
		Feb.	28·967	1·152	52·6	19·8	32·8	40·4	30·5	9·9	35·5	33·8	·194	2·2	0·3	93	542	–	–	–	6	4	12	6	–	9·2	19	2·40
		Mar.	29·405	0·976	55·5	22·5	33·0	47·4	32·3	15·1	38·8	35·5	·209	2·4	0·3	89	547	–	–	–	6	9	8	8	–	8·1	11	0·58
LEICESTER (Town Museum), W. J. Harrison, Esq., F.G.S.	238	Jan.	29·776	0·998	50·6	17·0	33·6	34·9	26·6	8·3	30·8	26·7	·144	1·6	0·3	83	564	50·4	20·7	0·5	9	14	3	5	–	7·9	12	1·24
		Feb.	29·251	1·328	54·8	23·6	31·2	41·5	34·1	7·4	37·5	34·7	·201	2·3	0·3	90	545	63·3	28·0	0·8	5	7	8	8	–	9·1	21	1·84
		Mar.	29·694	1·026	61·0	26·6	34·4	47·3	34·5	12·8	40·2	35·6	·209	2·4	0·5	84	551	83·7	26·9	1·1	8	7	8	8	–	7·2	14	0·77
NOTTINGHAM (Notts), M.O.Tarbotton, Esq., C.E., F.G.S., F.M.S.	183	Jan.	29·828	0·986	54·7	12·1	42·6	35·6	25·6	10·0	30·7	28·1	·154	1·9	0·2	89	564	52·0	24·6	0·2	7	16	2	6	1·2	7·3	14	1·40
		Feb.	29·307	1·146	53·9	20·3	33·6	41·6	31·9	9·7	36·6	35·1	·204	2·4	0·1	94	547	59·7	30·8	0·3	5	9	8	6	0·7	9·2	21	2·49
		Mar.	29·760	1·038	60·4	26·0	34·4	48·4	32·9	15·5	39·6	37·3	·223	2·6	0·2	92	552	77·7	31·4	0·4	8	9	6	8	2·6	7·0	23	1·19
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	33	Oct.	29·663	1·328	67·6	21·7	45·9	57·4	40·7	16·7	49·5	45·0	·200	3·5	0·6	85	539	88·4	38·6	1·7	3	3	20	5	–	6·2	15	2·55
		Nov.	29·640	1·446	50·2	33·4	26·8	45·4	31·4	14·0	38·9	35·9	·212	2·5	0·3	90	551	55·9	28·8	1·9	14	3	6	7	–	8·0	19	7·32
		Dec.	29·633	1·294	51·8	5·7	46·1	37·1	21·9	15·2	31·3	29·3	·161	1·9	0·2	91	560	39·4	20·8	1·1	6	2	11	8	–	7·4	15	1·92
		Jan.	29·964	1·042	52·4	10·0	42·4	36·2	27·5	8·7	32·1	28·8	·158	1·9	0·2	87	565	45·8	22·3	1·8	6	13	7	5	–	8·4	3	1·50
		Feb.	29·456	1·198	54·4	17·7	36·7	40·8	31·5	9·3	36·5	33·9	·195	2·3	0·3	90	550	60·3	26·4	1·4	5	5	16	2	–	8·4	12	2·00
		Mar.	29·898	0·994	54·8	26·0	28·8	46·6	32·7	13·9	39·3	34·9	·202	2·4	0·4	85	555	89·0	27·1	2·1	6	8	12	5	–	6·6	8	0·75
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	100	Jan.	29·912	0·980	50·0	19·1	30·9	37·7	30·2	7·5	33·9	29·2	·161	1·8	0·5	83	563	–	–	1·0	5	14	7	5	–	6·0	9	0·82
		Feb.	29·387	1·380	50·8	28·2	22·6	43·3	31·7	11·6	38·0	33·3	·190	2·2	0·5	83	547	–	–	1·0	4	8	8	11	–	7·5	16	3·19
		Mar.	29·825	1·168	54·8	28·0	26·8	46·3	37·4	8·9	41·8	35·5	·208	2·4	0·4	79	551	–	–	1·4	4	10	5	12	–	6·5	12	1·46
KELSTERN GRANGE, near Louth (Lincolnshire), D. Grant Briggs, Esq., F.M.S.	393	Jan.	29·621	1·008	47·5	18·9	28·6	34·1	27·2	6·9	30·5	25·9	·140	1·6	0·4	81	560	54·0	24·5	1·0	8	14	5	4	6·8	7·2	15	1·29
		Feb.	29·099	1·392	52·4	18·1	34·3	38·4	30·1	8·3	34·2	32·3	·183	2·2	0·2	92	546	68·0	27·5	1·1	7	7	8	6	7·0	8·1	23	3·07
		Mar.	29·553	1·042	58·8	25·6	33·2	44·9	32·9	12·0	38·0	34·4	·199	2·3	0·4	87	550	84·5	30·8	1·4	7	9	7	8	8·2	7·1	17	1·09
LIVERPOOL OBSERVATORY, John Hartnup, Esq., F.R.A.S.	197	Jan.	29·808	0·978	52·1	11·7	40·4	36·0	28·0	8·0	31·8	27·5	·150	1·7	0·4	83	563	–	–	1·0	4	17	4	6	–	6·7	9	1·60
		Feb.	29·273	1·388	51·8	27·0	24·8	40·8	33·9	6·9	36·9	34·7	·201	2·4	0·2	91	546	–	–	1·0	6	7	6	9	–	8·3	18	2·64
		Mar.	29·724	1·054	54·9	29·6	25·3	45·6	35·8	9·8	40·0	35·9	·211	2·4	0·5	85	551	–	–	1·4	4	9	7	11	–	6·5	13	1·08
SHARPLES (Bolton, Lancashire), Rev. T. Mackereth, F.M.S., F.R.A.S.	481	Jan.	29·515	1·004	50·1	11·4	38·7	36·9	21·9	15·0	29·9	27·7	·151	1·8	0·3	91	559	47·0	19·0	0·4	6	15	6	4	2·5	6·7	7	2·34
		Feb.	28·989	1·310	49·7	22·0	27·7	40·1	29·0	11·1	35·1	32·0	·181	2·1	0·3	87	543	49·6	25·1	0·3	7	8	6	7	3·4	8·2	23	4·41
		Mar.	29·422	1·144	54·4	21·1	33·3	46·3	30·5	15·8	38·3	34·6	·200	2·3	0·4	87	548	64·8	26·5	0·3	6	8	8	9	6·5	8·0	20	2·69
BERMERSIDE OBSERVATORY, HALIFAX (Yorkshire), E. J. Crossley, Esq., F.R.A.S.	530	Jan.	29·499	0·956	–	18·0	–	32·6	25·0	7·6	28·5	25·7	·139	1·6	0·2	89	561	46·8	22·6	0·3	7	15	2	7	–	7·5	4	1·23
		Feb.	28·960	1·330	53·4	27·0	26·4	38·6	31·3	7·3	34·6	33·5	·193	2·2	0·2	96	543	56·7	29·8	0·5	6	11	6	5	–	8·7	18	3·78
		Mar.	29·390	0·980	57·0	28·0	29·0	44·8	33·1	11·7	38·0	33·7	·193	2·2	0·5	85	547	75·5	30·3	0·8	6	7	8	10	–	6·5	14	2·37
HULL (Yorkshire), Mr. E. Peake.	12	Jan.	30·036	1·004	43·0	16·0	27·0	35·8	28·8	7·0	33·0	30·0	·167	2·0	0·2	89	565	40·9	26·2	–	–	–	–	–	1·6	–	18	1·75
		Feb.	29·501	1·226	54·0	25·0	29·0	40·2	32·1	8·1	36·5	32·8	·187	2·1	0·4	87	551	49·8	30·0	–	–	–	–	–	1·5	–	25	3·72
		Mar.	29·938	1·072	56·0	23·0	33·0	45·9	33·5	12·4	39·3	35·4	·207	2·4	0·4	86	556	64·0	31·8	–	–	–	–	–	1·2	–	15	1·29
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.S., F.M.S., F.R.A.S.	363	Jan.	29·633	0·994	46·0	17·3	28·7	35·9	25·0	10·9	30·2	24·2	·130	1·5	0·5	77	561	59·4	21·9	1·4	8	15	3	5	–	6·9	8	1·53
		Feb.	29·095	1·394	50·3	24·8	25·5	40·7	32·4	8·3	36·0	32·8	·188	2·1	0·4	88	544	66·1	29·1	0·9	7	9	6	6	–	9·5	21	2·70
		Mar.	29·537	1·088	54·8	24·3	30·5	46·5	33·9	12·6	39·1	34·7	·202	2·3	0·5	85	549	86·2	30·6	1·8	5	7	9	10	–	8·6	16	2·51
LEEDS (Philosophical Hall) (Yorkshire), H. Crowther, Esq.	157	Jan.	29·898	1·002	48·0	23·0	25·0	37·6	28·0	9·6	33·3	27·8	·152	1·8	0·5	80	563	39·2	–	1·4	8	13	3	7	–	4·3	10	1·32
		Feb.	29·373	1·330	49·0	24·0	25·0	41·5	32·8	8·7	37·3	32·5	·185	2·1	0·5	83	548	45·7	–	1·6	7	9	4	8	–	5·7	23	2·82
		Mar.	29·803	1·065	58·0	26·0	32·0	47·5	34·3	13·2	40·2	34·0	·196	2·3	0·6	79	553	56·2	–	2·2	7	8	5	11	–	4·1	19	1·43

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1879. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean of all Highest.	Temperature of Air in Month. Mean of all Lowest.	Temperature of Air in Month. Mean Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	366	Jan.	29·641	0·988	51·0	22·0	29·0	35·4	27·0	8·4	31·6	27·5	·150	1·8	0·3	83	560	42·4	–	0·9	15	7	4	5	–	7·3	7	1·36
		Feb.	29·120	1·320	47·8	25·0	22·8	39·5	33·0	6·5	36·3	33·9	·195	2·3	0·3	91	544	47·8	–	0·8	10	8	4	6	–	8·6	20	2·46
		Mar.	29·546	1·037	55·0	26·8	28·2	45·3	34·0	11·3	38·6	34·6	·201	2·3	0·4	87	550	59·7	–	1·4	7	9	4	11	–	7·3	16	1·24
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.R.A.S., F.M.S.	146	Jan.	29·874	1·016	47·6	14·6	33·0	36·3	25·4	10·9	30·3	26·0	·140	1·6	0·4	82	565	42·0	19·9	0·3	8	14	6	3	0·7	4·8	6	1·48
		Feb.	29·325	1·388	48·0	21·6	26·4	41·3	31·9	9·4	36·4	33·0	·189	2·2	0·4	88	548	58·5	28·2	0·3	8	8	6	6	1·0	7·6	16	2·09
		Mar.	29·758	1·092	54·1	21·6	32·5	45·5	33·9	11·6	39·3	35·2	·206	2·4	0·5	86	553	75·5	29·3	0·9	2	11	5	13	3·2	6·3	18	3·42
ALLENHEADS (Northumberland), Mr. Joseph Charlton, Assistant to W. B. Beaumont, Esq., M.P.	1330	Jan.	28·522	0·963	–	8·8	–	–	21·9	–	–	–	–	–	–	–	–	56·1	–	1·0	–	–	–	–	–	7·5	17	1·28
		Feb.	28·032	1·265	–	13·9	–	–	26·1	–	–	–	–	–	–	–	–	59·2	–	0·9	–	–	–	–	–	8·3	21	5·09
		Mar.	28·408	0·999	–	14·5	–	–	28·7	–	–	–	–	–	–	–	–	73·5	–	1·3	–	–	–	–	–	7·6	23	3·34
SILLOTH RECTORY (Cumberland), Rev. Francis Redford, M.A., F.R.A.S., F.M.S.	28	Jan.	30·015	1·060	49·3	14·5	34·8	36·6	24·4	12·2	30·3	24·3	·131	1·5	0·5	77	568	59·2	21·0	1·0	5	10	11	5	7·0	3·5	7	1·53
		Feb.	29·467	1·415	49·7	24·5	25·2	41·6	30·7	10·9	35·9	31·9	·181	2·1	0·4	83	551	64·2	27·3	1·2	4	12	7	5	9·3	6·3	15	2·39
		Mar.	29·890	1·162	55·3	21·7	33·6	47·3	33·2	14·1	40·0	33·8	·194	2·3	0·6	78	555	75·4	29·7	2·3	2	11	10	8	8·9	5·7	19	2·32
CARLISLE (Cumberland), Isaac Cartmell, Esq., F.M.S.	114	Jan.	29·944	1·068	47·1	11·8	35·3	35·5	22·4	13·1	29·6	25·4	·137	1·7	0·3	84	568	50·8	16·8	1·0	8	10	8	5	3·2	6·9	4	1·18
		Feb.	29·394	1·358	47·8	18·0	29·8	40·5	29·1	11·4	34·8	32·3	·182	2·0	0·3	89	551	56·8	24·8	1·0	7	8	8	5	4·1	7·3	13	1·20
		Mar.	29·804	1·434	56·8	17·9	38·9	47·1	33·1	14·0	39·3	35·9	·211	2·4	0·4	88	554	73·8	29·1	2·1	6	8	5	12	5·3	6·6	13	1·36
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	Jan.	29·913	0·966	48·0	14·0	34·0	36·5	27·1	9·4	31·4	28·7	·157	1·8	0·3	88	565	41·9	21·3	1·2	5	12	6	8	–	7·7	18	1·58
		Feb.	29·370	1·370	50·0	19·0	31·0	40·9	32·1	8·8	35·9	32·6	·187	2·1	0·4	88	549	46·3	27·0	1·3	4	10	8	6	–	7·8	25	3·28
		Mar.	29·806	1·042	58·0	16·0	42·0	46·4	34·6	11·8	39·1	34·3	·198	2·3	0·5	83	554	56·6	29·8	1·5	4	10	6	11	–	6·2	20	1·99
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	Jan.	29·982	1·038	42·2	14·5	27·7	35·7	28·2	7·5	31·8	27·8	·152	1·7	0·4	83	566	–	27·7	1·4	7	7	8	9	–	7·4	14	1·29
		Feb.	29·441	1·399	45·6	24·8	20·8	38·7	32·2	6·5	35·1	32·3	·183	2·1	0·3	89	552	–	31·7	1·4	8	7	7	6	–	8·3	25	3·05
		Mar.	29·870	1·156	55·0	20·0	35·0	44·5	34·0	10·5	38·4	35·1	·204	2·4	0·4	88	556	–	33·6	2·0	7	7	5	12	–	6·7	15	0·80

Second Rain-gauges are placed—

			January.	February.	March.	Total in Quarter.
At Strathfield Turgiss,	at the height of 38 feet	*above the ground*, the amount collected was	2·28 inches.	2·31 inches.	0·34 inches.	4·93 inches.
" Oxford,	" 22 feet	" "	2·41 "	3·52 "	0·78 "	6·71 "
" Nottingham,	" 39 feet	" "	1·43 "	2·39 "	1·17 "	4·99 "
" Cardington,	" 36 feet	" "	1·86 "	2·60 "	0·70 "	5·16 "

Note.—*Barometer Reading*, Eastbourne, 21st January, 10h. a.m., 29·114 inches, has been altered to 30·114 inches.
" Helston, 10th March, 9h. a.m., 29·486 " " 30·486 "

Thunderstorms occurred on one day in January, 2 days in February, and one day in March.
Thunder was heard but lightning was not seen on 5 days in March.
Lightning was seen but thunder was not heard on 5 days in February, and 3 days in March.
Solar halos were seen on 7 days in January, 2 days in February, and 5 days in March.
Lunar halos were seen on 5 nights in January, 5 nights in February, and 9 nights in March.
Snow fell on 26 days in January, 23 days in February, and 16 days in March; or on 65 days during the quarter. The falls of snow were pretty general all over the country.
Hail fell on 18 days in January, 14 days in February, and 11 days in March.
Fog prevailed on 18 days in January, 20 days in February, and 14 days in March; or on 54 different days during the quarter.

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°										in.
Guernsey	29·690	54·0	24·5	29·5	45·4	37·4	24·5	8·0	41·1	37·6	·226	2·6	0·4	87	548	–	–	1·7	8	9	7	7	3·8	7·0	54	12·75
Helston	29·668	60·0	23·0	37·0	48·8	35·9	30·0	12·9	41·7	37·2	·222	2·6	0·5	84	550	55·0	32·4	1·6	9	9	7	5	5·1	5·6	50	12·34
Truro	29·604	61·0	16·0	45·0	47·6	35·1	34·3	11·5	41·2	38·7	·236	2·7	0·3	91	551	–	–	2·4	8	8	6	8	–	7·5	58	11·78
Plymouth	29·675	58·5	17·5	41·0	46·2	34·9	30·8	11·3	40·4	37·3	·223	2·6	0·3	89	553	–	33·6	1·8	8	9	6	7	–	7·3	50	12·40
Torquay	29·614	56·6	19·1	37·5	45·1	35·3	29·9	9·8	39·9	35·9	·212	2·4	0·4	85	547	83·1	30·0	1·6	7	9	7	7	3·4	7·4	53	12·9
Eastbourne	–	59·0	23·0	36·0	43·7	33·5	27·7	10·2	38·4	35·6	·210	2·4	0·3	90	554	69·1	25·8	0·2	7	10	4	8	0·9	–	48	9·70
Ventnor	29·642	57·0	22·2	35·4	43·5	35·6	25·7	7·9	39·0	36·1	214	2·5	0·3	90	553	–	–	–	6	11	6	7	7·3	7·3	52	8·50
Osborne	29·632	52·2	19·1	43·1	44·0	32·9	30·1	11·1	38·0	36·9	·221	2·6	0·2	96	552	68·9	27·7	0·2	7	8	8	7	–	7·7	43	7·70
Bournemouth	29·616	56·5	15·8	40·7	42·6	34·1	27·4	8·5	38·1	34·4	·201	2·3	0·4	87	553	–	–	1·6	7	11	4	7	–	6·5	50	8·70
Brighton	29·656	55·6	20·8	34·8	42·1	33·6	25·7	8·5	37·7	34·0	·199	2·3	0·4	86	552	–	31·2	0·9	9	9	5	6	–	7·6	41	6·62
Salisbury	–	55·0	11·0	54·0	–	29·9	–	–	–	–	–	–	–	–	–	68·9	28·9	1·4	9	8	7	6	–	7·7	41	8·70
Barnstaple	29·601	52·0	18·0	44·0	46·6	35·6	31·0	11·0	40·7	37·8	·229	2·7	0·3	89	552	–	–	1·2	5	9	9	7	–	5·4	49	11·75
Bath	29·634	59·8	16·7	43·1	41·6	31·6	31·0	10·0	36·1	33·7	·196	2·3	0·2	91	545	–	29·0	1·7	7	8	7	8	–	7·9	51	7·95
Caterham	29·665	60·2	16·8	43·4	40·3	29·9	34·5	10·4	35·5	32·2	·184	2·2	0·4	89	546	–	25·3	1·9	7	8	8	7	–	–	39	6·10
Ramsgate	29·677	61·2	21·6	39·6	42·6	33·6	28·7	9·0	37·8	34·4	·201	2·3	0·4	88	555	62·8	30·7	1·4	9	8	5	7	–	7·8	41	7·15
Strathfield Turgiss	29·666	53·6	15·5	48·1	43·0	31·3	36·2	11·7	37·1	32·8	·188	2·2	0·4	85	555	68·7	25·3	0·8	7	8	7	8	1·7	7·8	43	8·05
Weybridge Heath	29·703	55·3	15·0	50·3	42·8	31·3	35·8	11·5	36·9	33·3	·191	2·2	0·4	87	555	60·1	27·6	0·9	9	9	8	4	3·5	7·6	40	9·70
Marlborough	29·659	52·5	14·7	47·8	42·3	31·1	33·8	11·2	36·0	32·9	·189	2·2	0·3	88	548	68·7	26·7	0·4	7	9	4	9	–	7·6	50	7·75
Blackheath	29·655	54·9	20·0	44·9	42·1	31·7	32·6	10·4	36·9	33·3	·191	2·3	0·3	87	554	67·5	28·9	0·8	6	10	7	7	–	7·7	45	7·75
Camden Square	29·652	53·1	19·2	43·9	42·7	32·6	31·4	10·1	37·5	34·0	·197	2·3	0·4	87	554	59·6	30·6	–	9	7	6	8	–	7·4	50	7·75
Streatley	29·647	52·6	17·2	45·4	43·3	32·3	33·7	11·0	37·7	34·7	·204	2·4	0·3	90	553	–	–	1·3	7	9	7	7	–	7·6	45	7·75
Oxford	29·665	51·5	16·6	44·9	41·7	31·7	31·1	10·0	36·7	33·9	·196	2·3	0·3	91	553	71·1	29·1	1·0	6	9	6	9	1·2	8·1	44	7·70
Royston	29·691	54·8	16·6	48·2	42·1	30·1	36·9	12·0	35·8	32·7	·187	2·2	0·3	88	553	–	–	–	8	8	7	8	–	7·7	44	6·75
Cardington	29·643	51·0	16·0	45·0	42·1	30·5	33·7	11·6	34·1	33·7	·195	2·3	0·3	91	556	52·2	27·4	1·2	7	9	6	7	–	7·4	35	5·95
Cambridge	29·631	55·2	15·2	50·0	42·6	31·8	34·8	10·8	36·9	34·0	·196	2·3	0·3	89	556	72·0	26·8	1·3	6	9	8	7	–	7·8	32	5·35
Stockton	29·616	58·2	12·0	46·2	42·9	28·8	34·4	14·1	36·1	34·1	·198	2·4	0·2	93	552	47·3	–	0·4	9	10	6	6	6·4	7·2	36	4·85
Lowestoft	29·652	51·7	15·7	46·0	40·8	31·9	31·9	8·9	36·6	31·8	·181	2·1	0·3	83	555	61·7	29·9	0·8	5	10	6	9	8·4	7·5	43	4·90
Somerleyton	29·649	61·5	12·2	48·3	41·9	31·6	32·2	10·3	36·5	34·1	·198	2·3	0·2	91	557	–	–	1·0	7	10	6	7	6·6	7·5	50	4·90
Norwich	29·634	59·2	19·0	40·2	41·2	32·9	29·6	8·3	36·7	35·2	·207	2·5	0·1	94	557	–	–	–	5	11	8	6	–	–	32	3·55
Wolverhampton	29·651	55·5	14·3	41·2	40·8	29·6	34·3	11·8	34·6	31·5	·178	2·1	0·3	88	549	–	–	–	6	9	9	6	–	8·6	38	4·55
Leicester	29·639	51·0	17·0	44·0	41·2	31·7	33·1	9·5	36·2	32·3	·185	2·1	0·4	86	553	65·8	25·2	0·8	7	9	6	7	–	8·1	47	5·70
Nottingham	29·639	50·4	12·1	48·3	41·9	30·1	33·9	11·8	35·6	33·5	·194	2·3	0·2	92	554	63·1	28·9	0·3	7	11	5	7	1·5	7·8	58	6·75
Holkham	29·628	54·8	16·0	44·8	41·2	30·6	36·0	10·6	34·0	32·5	·185	2·2	0·3	87	557	65·0	25·3	1·8	6	9	12	4	–	7·8	23	4·25
Kelstern Grange	29·672	58·8	18·1	40·7	39·1	30·1	32·0	9·0	34·2	30·9	·174	2·0	0·4	87	552	68·8	27·6	1·2	7	10	6	7	7·3	7·5	55	5·30
Liverpool	29·632	51·9	11·7	43·2	40·8	32·6	30·2	8·2	36·2	32·7	·187	2·2	0·4	86	553	–	–	1·1	5	11	6	9	–	7·2	40	9·40
Bolton	29·665	54·4	11·4	43·0	41·1	27·1	33·2	14·0	34·4	31·2	·177	2·1	0·3	88	550	53·8	23·5	0·3	6	10	7	7	4·1	7·6	50	7·20
Bermerside	29·685	57·0	18·0	39·0	38·7	29·8	–	8·9	33·7	31·0	·175	2·0	0·3	90	554	59·7	27·6	0·5	6	11	5	7	–	7·6	36	6·75
Hull	29·652	58·0	16·0	40·0	40·6	31·5	29·7	9·1	36·3	32·7	·187	2·2	0·3	87	557	51·6	29·3	–	–	–	–	–	1·4	–	58	6·75
Stonyhurst	29·649	54·8	17·3	37·5	41·0	30·4	28·2	10·6	35·1	30·6	·173	2·0	0·5	83	551	70·6	27·2	1·4	7	10	6	7	–	8·3	45	6·75
Leeds	29·665	58·0	21·0	35·0	42·2	31·7	27·3	10·5	33·9	31·4	·178	2·1	0·5	81	555	47·0	–	1·7	7	10	4	9	–	4·7	32	5·90
Bradford	29·654	55·0	22·0	33·0	40·1	31·3	26·7	8·8	35·5	32·0	·182	2·1	0·3	87	551	50·0	–	1·0	11	8	4	7	–	7·7	43	6·30
Cockermouth	29·635	54·1	14·6	39·5	41·0	30·4	30·6	10·6	35·3	31·4	·178	2·1	0·4	85	555	58·7	25·8	0·5	6	11	6	7	1·6	6·2	40	9·75
Allenheads	–	–	8·8	–	–	21·6	–	–	–	–	–	–	–	–	–	62·9	–	1·1	–	–	–	–	–	7·8	61	6·25
Silloth	29·653	55·3	14·5	40·8	41·8	29·4	31·2	12·4	35·4	30·0	·169	2·0	0·5	80	558	66·3	26·0	1·5	4	11	9	6	8·4	5·2	41	5·75
Carlisle	29·653	54·8	11·8	45·0	41·0	28·2	34·7	12·8	34·6	31·2	·177	2·0	0·3	87	558	60·5	23·6	1·4	7	9	7	7	4·2	6·6	30	6·85
Bywell	29·611	58·0	14·0	44·0	41·3	31·3	35·7	10·0	35·5	31·9	·181	2·1	0·4	86	556	48·3	26·0	1·3	4	11	7	8	–	7·2	63	6·70
North Shields	–	55·0	14·5	40·5	39·6	31·5	27·8	8·1	35·1	31·7	·180	2·1	0·4	87	558	–	31·0	1·6	7	7	7	9	–	7·5	54	5·19

The highest temperatures of the air were at Weybridge, 65°·3; Cambridge, 65°·2; Salisbury, 65°·0; Blackheath, 64°·9; and Royston, 64°·8.

The lowest temperatures of the air were at Allenheads, 8°·8; Holkham, 10°·0; Salisbury, 11°·0; Bolton, 11°·4; and Liverpool 11°·7.

The greatest daily ranges of the temperatures of the air were at Stockton, 14°·1; Bolton, 14°·0; Helston, 12°·9; and Carlisle, 12°·8.

The least daily ranges of the temperatures of the air were at Ventnor, 7°·9; Guernsey, 8°·0; and North Shields, 8°·1.

The greatest number of rainy days were at Bywell, 63; Allenheads 61; and Truro, Nottingham, and Hull, 58.

The least number of rainy days were at Holkham, 23; Norwich, 32; Cardington, 35; and Stockton and Bermerside, 36.

The heaviest falls of rain were at Truro, 12·87 inches; Guernsey, 12·83 inches; Helston, 12·62 inches; and Torquay, 12·40 inches.

The least falls of rain were at Norwich, 3·38 inches; Carlisle, 3·74 inches; and Leicester, 3·85 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the sea.	Mean of all Highest readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°										in.
Guernsey	29·600	54·0	24·5	29·5	45·4	37·4	24·5	8·0	41·1	37·6	·226	2·6	0·4	87	548	–	–	1·7	8	9	7	7	3·8	7·0	56	12·85
Between the latitudes 50° and 51°	29·636	58·9	19·5	39·4	45·2	34·8	29·5	10·4	39·6	36·5	·217	2·3	0·3	89	552	69·0	29·9	1·3	7	9	6	7	4·2	7·0	51	10·45
Between the latitudes 51° and 52°	29·657	62·6	14·8	45·8	42·6	32·1	33·0	10·5	37·2	33·9	·197	2·3	0·3	88	552	65·9	28·2	1·2	7	9	7	7	2·1	7·5	45	8·30
Between the latitudes 52° and 53°	29·648	60·8	15·0	45·8	41·8	30·8	33·8	11·0	36·1	33·3	·192	2·3	0·3	89	554	60·4	27·6	0·8	7	9	7	7	5·7	7·7	44	6·45
Between the latitudes 53° and 54°	29·649	56·1	17·2	38·9	40·5	30·6	29·6	9·9	35·3	31·6	·179	2·1	0·4	86	553	57·4	27·0	1·0	7	10	6	6	4·3	7·2	47	6·75
Between the latitudes 54° and 55°	29·641	53·1	13·7	42·4	41·3	29·8	33·1	11·5	35·2	31·1	·176	2·1	0·4	85	557	59·4	25·4	1·1	5	11	7	7	4·7	6·6	47	8·20
Mean for the Quarter, 50° to 55° — Year 1876	29·631	58·1	19·2	38·9	45·5	34·3	33·6	11·2	39·6	36·0	·2·2	2·5	0·4	87	551	66·3	30·7	1·4	6	6	8	10	4·2	6·7	53	10·35
Mean for the Quarter, 50° to 55° — " 1877	29·556	58·0	21·7	34·3	48·3	36·7	31·3	11·6	42·4	38·3	·233	2·7	0·5	86	547	70·0	31·6	1·3	6	3	8	13	4·9	6·7	63	5·45
Mean for the Quarter, 50° to 55° — " 1878	29·917	59·5	24·0	35·5	47·5	36·5	31·7	11·0	41·7	37·6	·223	2·6	0·5	86	554	70·0	31·8	1·1	8	4	6	12	4·1	6·9	41	7·20
Mean for the Quarter, 50° to 55° — " 1879	29·648	58·9	16·4	42·5	42·3	31·6	31·8	10·7	36·6	33·3	·192	2·3	0·3	87	554	62·4	27·6	1·1	7	10	6	7	4·2	7·2	47	

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING JUNE 30, 1879.

Remarks on the Weather during the Quarter ending June 30th, 1879.

By James Glaisher, Esq., F.R.S., *&c.*

The weather during the whole quarter has been cold, wet, and sunless, thus being a continuation without intermission of the weather which previously was prevalent.

During the quarter the temperatures of 17 days only were of their average or a little above their average values, all the rest were below, and at times very much below; on some days both in April and May the deficiency of temperature was as large as 10°, 11°, or 12°, and towards the end of June several days together were of lower temperature than their averages by 5° or 6°.

The mean deficiency for the 91 days in the quarter was 3°·36 on the average of the preceding 60 years.

The mean temperature of the quarter was 49°·5, the lowest since the very severe corresponding period in 1837, when it was 48°·3, and there have been nine instances only back to 1771 of such low temperatures, viz., in the years 1771, 1773, 1782, 1793, 1799, 1812, 1816, 1824, and 1837.

This unusually protracted bad weather set in on 27th October 1878; the weather in November and December was exceptionally severe, the mean temperature of these two months being 36°·7, a lower value than any experienced in this century, and back to 1771 the instances of somewhat lower temperatures were 1782, when it was 35°·4; 1784, 35°·8; 1786, 36°·3; 1788, 34°·8; and 1796, 35°·4.

The mean value for January was only 31°·9, being $5\frac{1}{4}$ nearly below the average of 60 years, and it is very remarkable that these three months should be of such low temperatures, as they have recently been from 2° to 3° of higher temperatures than they were a hundred years ago. The months of February and March were together but slightly below their averages, so that the mean temperature of the quarter ending March 31st, though low, viz., 37°·1, had been of lower value in twenty instances in the preceding 108 years.

With respect to the mean temperature of the eight months ending June 1879, viz. 41°·65, it is the lowest since the celebrated year of great frost, 1814, when it was still lower, viz., 40°·4; the instances back to 1771 are:

In 1783–1784 the mean temperatures of eight months ending June was 41°·3
1784–1785 " " " 41°·3
1788–1789 " " " 41°·2
1794–1795 " " " 40°·9
1796–1797 " " " 41°·3
1813–1814 " " " 40°·4
1815–1816 " " " 41°·71
1854–1855 " " " 41°·9
1878–1879 " " " 41°·65

Thus the temperature of these eight months in 1854–1855, and 1815–1816, was closely aproximate to that of the period we have just passed through; these are the only instances of so low a temperature in this century, excepting the lowest of all in 1814.

The weather following June in the years 1784 and 1785 was cold; in the year 1789 it was cold, excepting in December; in 1795 it was cold in July and November; in 1797 it was cold, excepting in July and December; in 1815 it was cold excepting for a very warm September; in 1855 it was moderately warm to October, and cold in November and December. Therefore, as a rule, the same cold weather has continued throughout the year.

The following table shows the mean temperature of the eight months ending June in every year from 1772–1879; by comparison of the results in the last column with those in the first, it will be at once seen how much higher the temperature has been in recent years than at the end of last century, and its progressive increase will be seen by comparing the numbers in the last column with those in the successive intermediate columns.

On comparing the last number 41°·65 with the numbers above it, the abnormal character of the weather this year with respect to temperature is at once evident.

Table showing the Mean Temperature of the Eight Months November to June from 1771—1772 to 1878—1879.

November to June.	Mean Temp. of the 8 months Nov. to June.	November to June.	Mean Temp. of the 8 months Nov. to June.	November to June.	Mean Temp. of the 8 months Nov. to June.	November to June.	Mean Temp. of the 8 months Nov. to June.	November to June.	Mean Temp. of the 8 months Nov. to June.	November to June.	Mean Temp. of the 8 months Nov. to June.
Years.	°	Years.	°	Years.	°	Years.	°	Years.	°	Years.	°
1771—1772	42·2	1789—1790	44·2	1807—1808	42·9	1825—1826	45·1	1843—1844	46·1	1861—1862	45·6
1772—1773	42·9	1790—1791	44·7	1808—1809	44·5	1826—1827	43·4	1844—1845	42·5	1862—1863	46·3
1773—1774	43·5	1791—1792	42·9	1809—1810	43·8	1827—1828	46·2	1845—1846	48·2	1863—1864	45·3
1774—1775	45·8	1792—1793	43·2	1810—1811	45·0	1828—1829	44·4	1846—1847	43·8	1864—1865	45·3
1775—1776	43·3	1793—1794	45·5	1811—1812	43·3	1829—1830	42·9	1847—1848	47·2	1865—1866	46·3
1776—1777	43·7	1794—1795	40·9	1812—1813	43·3	1830—1831	44·9	1848—1849	46·1	1866—1867	45·5
1777—1778	44·1	1795—1796	45·5	1813—1814	40·4	1831—1832	44·9	1849—1850	45·3	1867—1868	46·3
1778—1779	47·3	1796—1797	41·3	1814—1815	44·9	1832—1833	45·6	1850—1851	45·9	1868—1869	45·9
1779—1780	44·3	1797—1798	45·4	1815—1816	41·71	1833—1834	47·5	1851—1852	44·5	1869—1870	44·8
1780—1781	44·6	1798—1799	42·2	1816—1817	43·9	1834—1835	45·6	1852—1853	45·8	1870—1871	43·8
1781—1782	42·7	1799—1800	42·7	1817—1818	45·1	1835—1836	43·9	1853—1854	44·2	1871—1872	45·6
1782—1783	42·4	1800—1801	45·0	1818—1819	46·4	1836—1837	42·4	1854—1855	41·9	1872—1873	45·2
1783—1784	41·2	1801—1802	43·2	1819—1820	43·1	1837—1838	45·1	1855—1856	44·0	1873—1874	45·9
1784—1785	41·3	1802—1803	45·1	1820—1821	43·9	1838—1839	45·0	1856—1857	45·0	1874—1875	44·3
1785—1786	42·3	1803—1804	46·0	1821—1822	48·4	1839—1840	45·0	1857—1858	45·9	1875—1876	44·4
1786—1787	43·1	1804—1805	45·0	1822—1823	43·4	1840—1841	44·0	1858—1859	46·5	1876—1877	46·3
1787—1788	44·8	1805—1806	45·0	1823—1824	43·0	1841—1842	45·4	1859—1860	45·4	1877—1878	46·8
1788—1789	41·2	1806—1807	45·8	1824—1825	45·5	1842—1843	45·3	1860—1861	44·0	1878—1879	41·65

The fall of rain in the quarter has been excessive, rain has fallen on 51 days, and the amount collected was 10·3 ins., the previous instances of such a large fall in the quarter are—in the year 1878, 13·2 ins., in the year 1860, 10·7 ins., and in 1821, 10·1 ins.; all other falls back to 1815 have been less than 10·0 ins.; this is remarkable by itself but becomes much more so when to the fall in the three preceding months, viz., 7·0 ins., is added, the total fall this year from January to June being 17·3 ins. greater in amount than in the same six months in any year back to 1815; in 1878 the fall in the same period was 16·3 ins., in 1866, 16·9 ins., in 1860, 15·5 ins., in 1824, 15·5 ins., and in 1819, 16·0 ins.

A great contrast to these heavy falls is that of 1870, when up to June the fall was 5·2 ins., of which only 1·1 in. fell in the months of April, May, and June. The average fall for the six months ending June is 10·8 ins.

Snow fell frequently, extending even to the south of England, in April, and occasionally during the first half of May.

The atmospheric pressure was a little above its average in May, but was a good deal below both in April and June; upon the whole quarter it was 0·12 in. daily too low; it was also a little above its average in January and March, but a good deal below in February, as well as in November and December; the average daily deficiency of atmospheric pressure from November to June is 0·13 in. daily.

Vegetation generally at the end of the quarter is fully a month or six weeks later than usual.

The readings of the barometer in the neighbourhood of London were below their averages from the 1st to the 27th of April, with the exception of two days, viz., 11th and 25th, which were 0·19 in. and 0·03 in., respectively, in excess; the mean amount of defect for the 27 days was 0·29 in. From the 28th of April till the 25th of May the mean daily readings were in excess of their averages, excepting on five days, viz., May 9th, 14th, 18th, 19th, and 25th, when they were slightly in defect, the mean amount of excess for the 28 days ending May 25th was 0·16 in. From the 26th of May till the end of the quarter (with the exception of five days) the barometer readings were all below their averages, the mean amount of defect for the 36 days ending June 30th was 0·18 in.

The mean reading of the barometer for the month of April was 29·520 ins., being 0·241 in. *below* the average, and back to 1841 there is but one instance of so low a reading for April, viz., in 1849, when it was 29·517 ins.

The mean reading for the month of May was 29·833 ins., being 0·052 in. above the average, and 0·215 in. above the value in 1878. The mean reading for the month of June was 29·641 ins., being 0·171 in. below the average, and lower than any value since 1852, when it was 29·560 ins.

The mean reading of the barometer for the quarter was 29·665 ins., being 0·120 in. below the average.

The atmospheric pressure in April was less than in March by 0·289 ins., in May was greater than in April by 0·313 in., and in June less than in May by 0·192 in. (From the preceding 38 years' observations the *mean pressure* in April is greater than in March by 0·021 in., that in May greater than in April by 0·020 in., and that in June is greater than in May by 0·031 in.) The mean *decrease* of pressure from March to April from all stations was 0·268 in., the mean *increase* from April to May was nearly the same everywhere, the general mean being 0·311 in., and the mean *decrease* from May to June from all places was 0·236 in.

At Greenwich the *mean temperature* of April was higher than that of March by 2°·0; that of May was higher than that of April by 5°·2, and that of June was higher than that of May by 8°·5. (From the preceding 38 years' observations the *mean temperature* of April is higher than that of March by 5°·6, that of May is higher than that of April by 5°·5, and that of June is higher than that of May by 6°·3.) The *increase* of mean temperature from March to April from all places was 1°·9; the *increase* from April to May was 5°·1, and the *increase* from May to June was 7°·5.

The mean temperature of the air for April was 43°·2, being 2°·9 and 4°·0, respectively, below the averages of the preceding 108 years, and 38 years. It was lower than any value back to 1860, when it was 42°·9.

The mean temperature of the air for May was 48°·4, being 4°·1 and 4°·3, respectively, below the averages of the preceding 108 years, and 38 years. In the preceding 108 years, there are but five instances of so low a mean temperature for the month of May; viz.—in the year 1773 it was 47°·5, in 1782 it was 48°·1, in 1783 it was 48°·3, in 1817 it was 47°·9, and in 1837 it was 47°·8.

The mean temperature of the air for June was 56°·9, being 1°·3 and 2°·1, respectively, below the averages of the preceding 108 years, and 38 years. It was lower than any value since 1871.

The mean temperature of the air for the quarter was 49°·5, being 2°·8 and 3°·5, respectively, below the averages of the preceding 108 years, and 38 years. The following are the only instances back to 1771 when the mean temperature of the three months ending June was as low as in the present year; viz.—49°·5. In 1771 it was 49°·1, in 1773 it was 49°·1, in 1782 it was 48°·9, in 1793 it was 49°·5, in 1799 it was 48°·9, in 1812 it was 48°·9, in 1816 it was 48°·4, in 1824 it was 49°·4, and in 1837 it was 48°·3.

The mean high day temperatures of the air were 5°·2, 5°·9, and 4°·2, respectively, below their averages in April, May, and June.

The mean low night temperatures of the air were 3°·0, 3°·8, and 0°·4, respectively, below their averages in April, May, and June. Therefore the days and nights were extremely cold throughout the quarter.

The mean daily ranges of temperature were 2°·2, 2°·1, and 3°·8, respectively, below their averages in April, May, and June.

The fall of rain at Greenwich in April was 2·6 ins., being 0·9 in. above the average; in May the fall was 3·4 ins., being 1·3 in. above the average; in June the fall was 4·3 ins., being 2·3 ins. above the average, and back to 1815 there are but four instances of so large a fall in June; viz., in 1838 it was 5·1 ins., in 1852 it was 4·6 ins., in 1860 it was 5·8 ins., and in 1878 it was 4·6 ins. The total fall in the quarter was 10·3 ins., being 4·5 ins. above the average, and back to 1815 there are but two instances of so large a fall; viz., in 1860 it was 10·7 ins., and in 1878 it was 13·2 ins.

1879. Months.	Temperature of Air. Mean.	Air. Diff. from average of 108 years.	Air. Diff. from average of 38 years.	Evaporation. Mean.	Evaporation. Diff. from average of 38 years.	Dew Point. Mean.	Dew Point. Diff. from average of 38 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 38 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 38 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 38 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.
April -	43·2	−2·9	−4·0	40·7	−3·4	37·6	−3·0	16·3	−2·2	46·4	0·225	−0·029	2·6	−0·3
May -	48·4	−4·1	−4·3	44·7	−4·2	40·7	−4·5	18·3	−2·1	52·0	0·254	−0·046	2·9	−0·6
June -	56·9	−1·3	−2·1	53·8	−0·6	51·0	+0·4	17·4	−3·8	59·6	0·374	+0·004	4·2	+0·1
Means -	49·5	−2·8	−3·5	46·4	−2·7	43·1	−2·4	17·3	−2·7	52·7	0·284	−0·024	3·2	−0·3

1879. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 38 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 38 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 38 years.	Rain. Amount.	Rain. Diff. from average of 64 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
April -	81	+3	29·520	−0·241	544	+ 1	2·6	+0·9	229	8	20	2	24·0	40·5
May -	75	−1	29·833	+0·052	544	+ 3	3·4	+1·3	260	8	14	9	24·6	45·5
June -	80	+6	29·641	−0·171	531	− 1	4·3	+2·3	277	0	3	27	35·8	56·6
Means -	79	+3	29·665	−0·120	540	+ 1	Sum 10·3	Sum +4·5	Mean 255	Sum 16	Sum 37	Sum 38	Lowest 24·0	Highest 56·6

NOTE.—In reading this table it will be borne in mind that the plus sign (+) signifies *above* the average, and that the minus sign (−) signifies *below* the average.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter were as follows:—

Direction of Wind.	April. Average.	April. 1879.	April. Departure from Average.	May. Average.	May. 1879.	May. Departure from Average.	June. Average.	June. 1879.	June. Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	2¼	3	+ ¾	1½	4	+2½	2	10	+8
N.	4	5	+1	4¼	5	+ ¾	3¼	1	−2¼
N.E.	6	4	−2	7	5	−2	3½	0	−3½
E.	3½	5	+1½	2½	3	+ ½	2¼	1	−1¼
S.E.	2	4	+2	1½	2	+ ½	1¾	2	+ ¼
S.	2½	4	+1½	2¼	2	− ¼	2¼	3	+ ¾
S.W.	6¼	3	−3¼	7½	4	−3½	10	5	−5
W.	2¼	2	− ¼	2	6	+4	3½	8	+4½
Calm (nearly.)	1	0	−1	2	0	−2	1½	0	−1½

The sign plus (+) denotes excesses over averages; the largest numbers affected with this sign in the month of April are opposite to the E., S.E., and S., in May and June to N.W. and W.

The sign minus (−) denotes defects below averages; the largest numbers affected with this sign in every month are opposite to N.E. and S.W.

Thunderstorms occurred on 5 days in April, 7 days in May, and on 13 days in June.

Thunder was heard but lightning was not seen on 10 days in both April and May, and on 15 days in June.

Lightning was seen but thunder was not heard on 3 days in April, one day in May, and on 9 days in June.

Solar halos were seen on 9 days in April, 5 days in May, and on 12 days in June.

Lunar halos were seen on 3 nights in April only.

Snow fell on 14 days in April (the falls being pretty general), and on 8 days in May.

Hail fell on 11 days in both April and May, and on 9 days in June.

Fog prevailed on 14 days in April, 21 days in May, and on 10 days in June.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING JUNE 30TH, 1879.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the sixth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1879. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.M.S.	204	April	29·462	1·410	55·5	34·5	21·0	51·1	41·1	10·0	45·2	40·5	·251	2·9	0·6	84	541	—	—	1·4	7	6	8	9	4·1	5·1	15	2·71
		May	29·805	1·048	62·5	37·0	25·5	54·2	43·3	10·9	47·7	43·7	·285	3·2	0·6	87	544	—	—	1·4	10	6	6	9	3·7	5·0	13	3·26
		June	29·612	0·668	67·5	45·0	22·5	60·7	49·2	11·5	54·0	50·4	·366	4·2	0·5	87	533	—	—	1·3	2	4	13	11	4·1	5·7	23	4·80
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	April	29·742	1·607	60·0	30·0	30·0	55·6	38·5	17·1	45·8	39·9	·246	2·8	0·7	80	545	70·9	35·1	1·6	10	5	6	9	3·9	3·4	15	2·76
		May	30·024	1·085	66·0	34·0	32·0	59·4	41·8	17·6	49·2	42·2	·270	3·0	1·0	77	546	72·6	41·4	1·8	12	4	5	10	4·1	4·6	12	1·80
		June	29·798	0·744	67·0	40·0	27·0	64·3	51·3	13·0	55·9	49·6	·359	4·0	1·0	81	535	79·3	49·3	2·3	2	3	14	11	5·7	5·6	25	5·38
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	April	29·647	1·555	60·0	24·0	36·0	54·0	38·3	15·7	44·0	42·4	·270	3·1	0·2	93	545	—	—	2·7	10	5	5	10	—	6·4	17	2·56
		May	29·994	1·050	64·0	31·0	33·0	57·2	43·8	13·4	48·2	45·3	·302	3·4	0·4	89	547	—	—	2·9	10	5	6	10	—	6·4	19	1·75
		June	29·724	0·712	68·0	38·0	30·0	62·9	51·7	11·2	54·0	51·6	·383	4·3	0·4	90	535	—	—	2·9	2	2	13	13	—	7·5	26	6·72
PLYMOUTH (Devon), John Merrifield, Esq., F.R.A.S., F.M.S., LL.D.	69	April	29·674	1·595	59·0	30·0	29·0	53·0	38·6	14·4	44·9	40·2	·249	2·9	0·5	84	545	—	38·0	1·4	7	8	8	8	—	6·5	16	2·66
		May	30·027	1·074	63·0	34·5	28·5	56·4	44·0	12·4	49·0	42·8	·276	3·1	0·9	79	547	—	42·6	1·5	9	6	6	10	—	6·6	20	2·19
		June	29·756	0·756	67·0	41·0	26·0	61·6	52·2	9·4	55·2	51·5	·381	4·3	0·7	88	534	—	—	1·8	2	2	16	10	—	8·6	25	5·90
TORQUAY, Babbacombe (Devon), Edwin E. Glyde, Esq., F.M.S.	305	April	29·350	1·570	57·9	30·8	27·1	51·1	38·3	12·8	43·7	38·3	·231	2·7	0·6	81	540	120·1	30·6	1·2	9	7	6	8	3·9	6·2	21	4·16
		May	29·690	1·071	63·0	35·0	28·0	55·3	43·1	12·2	47·9	41·8	·265	3·0	0·8	79	542	129·0	36·7	1·3	9	6	7	9	3·6	6·8	23	2·19
		June	29·474	0·721	69·2	41·9	27·3	61·2	50·2	11·0	54·6	50·8	·371	4·2	0·6	87	530	127·1	46·1	1·5	1	2	14	13	4·1	7·6	26	7·34
VENTNOR, Isle of Wight (Royal National Hospital for Consumption), Hartley Sagar, Esq.	150	April	29·624	1·424	57·8	28·7	29·1	50·4	40·0	10·4	43·7	40·0	·247	2·8	0·4	86	545	—	—	—	4	10	7	9	7·4	7·4	14	3·63
		May	29·971	0·940	65·5	32·0	33·5	56·9	42·8	14·1	48·2	43·6	·283	3·3	0·6	85	546	—	—	—	5	8	9	9	6·4	6·5	20	2·06
		June	29·772	0·628	64·2	45·0	19·2	60·6	51·1	9·5	54·3	51·9	·387	4·4	0·4	91	536	—	—	—	0	3	13	14	5·8	7·5	22	4·34
OSBORNE (Isle of Wight), R. J. Mann, Esq.	172	Apr.	29·496	1·406	60·8	28·8	32·0	53·1	38·3	14·8	43·6	41·0	·257	3·0	0·3	90	543	101·8	36·7	0·1	8	7	7	8	—	7·7	14	2·62
		May	29·825	0·974	70·0	33·5	36·5	60·2	43·1	17·1	49·0	44·0	·289	3·3	0·7	83	543	114·7	38·9	0·1	7	6	9	9	—	6·7	17	2·12
		June	29·630	0·658	70·7	43·7	27·0	64·2	52·2	12·0	55·7	52·4	·395	4·4	0·5	89	531	116·1	48·7	0·2	1	3	16	10	—	8·0	19	4·00
BOURNEMOUTH, South Bourne, (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	95	April	29·535	1·420	55·9	27·0	28·9	49·1	37·4	11·7	42·6	37·8	·227	2·6	0·5	84	545	—	—	1·4	9	9	6	6	—	5·7	15	2·16
		May	29·887	0·940	62·9	29·7	33·2	54·8	41·5	13·3	47·3	41·0	·257	3·0	0·8	79	546	—	—	1·5	10	7	7	7	—	5·0	17	1·46
		June	29·705	0·632	67·6	43·7	23·9	59·3	51·6	7·7	54·4	50·0	·361	4·1	0·7	85	534	—	—	2·1	2	4	16	8	—	6·9	19	3·35
BRIGHTON (Sussex), F. E. Sawyer, Esq., F.M.S.	206	April	29·469	1·354	57·1	26·5	30·6	51·3	38·7	12·6	44·3	37·6	·225	2·6	0·7	77	542	91·0	35·9	0·7	7	6	11	6	—	7·3	18	3·36
		May	29·788	0·988	67·0	31·0	36·0	57·8	41·6	16·2	48·6	41·3	·260	3·0	0·9	76	544	103·6	39·1	0·8	10	6	9	6	—	7·2	22	2·75
		June	29·612	0·666	73·0	42·4	30·6	66·9	51·5	15·4	57·4	52·1	·390	4·4	1·0	83	530	109·9	49·6	0·6	3	3	13	11	—	8·6	21	4·29
SALISBURY (Wilton House), Wilts, T. Challis, Esq.	186	April	29·485	1·450	61·0	25·0	36·0	53·7	33·3	20·4	42·8	38·5	·233	2·7	0·5	85	544	89·9	31·3	1·3	13	7	4	6	—	7·3	18	3·40
		May	29·808	0·988	70·0	26·0	44·0	57·6	38·3	19·3	49·2	43·6	·285	3·2	0·8	81	542	108·5	36·8	1·0	10	6	9	6	—	7·4	21	2·63
		June	29·598	0·673	73·0	37·0	36·0	66·0	47·3	18·7	55·2	49·8	·360	4·0	0·9	83	532	110·2	45·6	1·4	4	2	11	13	—	7·3	23	5·66
BARNSTAPLE (Devon), William Knill, Esq.	43	Apr.	29·646	1·620	62·0	27·0	35·0	54·5	39·5	15·0	45·5	41·6	·264	3·0	0·5	87	544	—	—	1·2	7	4	11	8	—	3·3	15	2·37
		May	29·982	0·980	68·0	33·0	35·0	59·7	44·3	15·4	50·4	44·9	·298	3·4	0·7	82	544	—	—	1·2	10	5	8	8	—	4·2	19	2·49
		June	29·748	0·760	71·0	41·0	30·0	66·4	53·1	13·3	57·5	53·9	·416	4·6	0·7	88	532	—	—	1·2	1	5	16	8	—	4·8	23	5·74

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1879. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
CATERHAM (Surrey), The Metropolitan Asylum, James Adam, Esq., M.D.	608	April	29·009	1·350	59·0	25·0	34·0	49·5	35·5	14·0	41·4	37·8	·228	2·6	0·4	88	537	—	29·4	1·8	10	6	7	7	—	3·6	18	3·24
		May	29·351	0·890	65·0	28·0	37·0	54·6	38·5	16·1	45·9	40·6	·254	2·9	0·7	82	538	—	32·9	2·0	10	5	7	9	—	4·6	19	3·75
		June	29·177	0·810	65·8	39·3	26·5	61·2	47·8	13·4	53·7	50·0	·360	4·1	0·6	87	526	—	41·5	3·6	2	2	11	15	—	4·1	20	4·58
RAMSGATE (Kent), Rev. E. Douglas O'Gara, O.S.B. F.M.S.	108	April	29·588	1·309	59·5	31·7	27·8	50·8	38·9	11·9	43·7	38·7	·235	2·7	0·6	82	545	94·9	34·0	1·0	9	8	5	8	—	7·1	14	3·00
		May	29·905	0·937	68·4	34·6	33·8	56·9	42·0	14·9	48·0	43·4	·281	3·2	0·6	85	546	107·2	37·9	1·2	9	8	7	7	—	6·6	12	3·29
		June	29·737	0·793	75·2	42·8	32·4	65·9	50·5	15·4	56·3	51·1	·376	4·2	0·8	83	533	104·9	46·5	1·1	1	5	14	10	—	7·1	15	2·71
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	April	29·480	1·404	60·0	25·0	35·0	51·7	35·2	16·5	42·6	38·2	·231	2·7	0·4	85	544	100·5	28·6	1·0	8	4	8	10	1·5	7·5	18	3·29
		May	29·805	0·930	68·3	24·5	43·8	58·5	39·4	19·1	47·8	41·3	·260	3·0	0·7	79	544	111·1	33·9	1·2	12	5	6	8	1·6	7·9	15	3·61
		June	29·597	0·644	68·6	39·0	29·6	64·7	49·5	15·2	55·6	50·6	·369	4·1	0·8	84	531	117·3	45·4	1·2	1	3	14	12	2·5	8·2	24	5·06
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	April	29·554	1·371	62·3	24·0	38·3	53·3	34·5	18·8	43·3	38·2	·231	2·7	0·6	82	544	88·6	30·7	0·8	9	9	7	5	5·4	7·5	20	3·16
		May	29·875	0·986	70·5	25·5	45·0	59·0	38·6	20·4	48·5	41·8	·266	3·0	0·9	78	545	100·1	34·6	0·8	10	6	8	7	5·8	6·3	18	3·74
		June	29·684	0·705	74·8	38·8	36·0	68·0	48·1	19·9	56·6	50·5	·368	4·1	1·0	80	532	109·8	44·0	0·7	2	2	17	9	4·7	6·2	24	4·28
BATH (Somerset), St. Gregory's College, Downside, Rev. T. L. Almond, O.S.B., F.M.S.	596	April	29·012	1·532	58·3	27·8	30·5	48·8	37·0	11·8	41·8	38·2	·231	2·7	0·4	88	536	90·1	31·1	1·5	9	5	7	9	—	7·3	18	3·69
		May	29·374	0·960	63·3	29·0	34·3	54·8	40·3	14·5	46·0	41·1	·259	3·0	0·6	84	538	103·4	36·2	1·5	9	6	7	9	—	7·1	21	3·33
		June	29·148	0·668	66·8	40·8	26·0	60·3	49·0	11·3	53·0	47·8	·332	3·7	0·8	82	526	111·0	45·5	1·9	2	3	12	13	—	7·5	25	6·05
MARLBOROUGH, (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	474	April	29·182	1·447	58·5	27·3	31·2	50·5	35·5	15·0	42·5	37·5	·225	2·6	0·5	85	536	65·3	28·4	0·7	8	9	6	7	—	6·6	16	3·39
		May	29·500	0·951	66·3	27·6	38·7	57·0	40·1	16·9	48·1	41·2	·258	3·0	0·9	77	538	109·4	35·0	0·6	10	7	6	8	—	6·8	19	3·44
		June	29·295	0·658	69·7	38·7	31·0	63·7	49·4	14·3	54·7	49·6	·354	4·0	0·8	83	527	111·5	45·1	—	3	3	13	11	—	7·9	25	4·97
BLACKHEATH (London), James Glaisher, Esq., F.R.S.	160	April	29·517	1·349	60·6	28·1	32·5	51·5	35·9	15·6	42·5	37·6	·224	2·6	0·6	83	545	94·3	32·4	0·6	9	9	7	5	—	7·7	18	2·64
		May	29·825	0·936	69·3	29·6	39·7	57·5	39·6	17·9	47·5	40·3	·250	2·9	0·9	77	545	110·3	35·7	0·8	9	7	5	10	—	6·0	17	3·37
		June	29·637	0·875	75·8	39·8	36·0	66·0	49·2	16·8	55·9	50·1	·363	4·1	0·9	82	532	123·5	45·4	1·1	6	2	7	15	—	6·7	18	4·16
STREATLEY (Berks), "The Vicarage," Rev. J. Slatter, M.A., F.R.S., F.M.S.	150	April	29·521	1·423	60·3	26·0	34·3	52·9	36·3	16·6	43·7	37·1	·221	2·6	0·6	77	544	—	—	1·3	10	11	5	4	—	6·6	18	2·43
		May	29·856	0·951	67·8	26·4	41·4	58·4	40·4	18·0	48·2	41·1	·257	2·9	0·9	78	545	—	—	1·2	10	7	6	8	—	7·1	22	3·44
		June	29·599	0·582	70·0	40·6	29·4	64·8	49·1	15·7	55·8	50·4	·367	4·1	0·9	83	531	—	—	2·1	2	3	13	12	—	7·8	22	3·23
CAMDEN SQUARE (London), G. J. Symons, Esq., F.R.S., F.M.S.	123	April	29·566	1·351	61·7	26·8	34·9	53·1	37·2	15·9	43·9	37·9	·227	2·6	0·7	79	544	92·5	34·3	—	9	7	7	7	—	7·0	16	2·72
		May	29·873	0·932	69·0	30·6	38·4	59·3	41·4	17·9	49·0	40·7	·255	2·9	1·1	73	544	105·6	37·6	—	14	4	5	8	—	6·4	19	3·46
		June	29·696	0·715	74·0	40·6	33·4	67·1	50·6	16·5	57·1	50·4	·366	4·1	1·5	78	532	112·8	47·1	—	3	2	14	11	—	6·8	22	4·76
OXFORD (The Observatory), E. J. Stone, Esq., M.A., F.R.S.	210	April	29·478	1·442	58·1	27·1	31·0	49·5	36·3	13·2	42·8	38·4	·233	2·7	0·4	85	544	92·1	33·2	0·9	11	5	8	6	1·3	8·4	16	2·45
		May	29·780	0·932	64·7	29·5	35·2	55·2	41·4	13·8	48·2	43·0	·276	3·2	0·6	82	543	105·9	37·5	1·2	9	5	7	10	1·6	7·7	16	2·71
		June	29·562	0·684	68·1	40·4	27·7	62·7	50·4	12·3	56·0	52·3	·394	4·4	0·6	88	530	109·0	44·6	1·3	1	3	14	12	1·0	8·5	27	4·54
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	April	29·429	1·369	62·1	24·1	38·0	51·6	33·8	17·8	41·4	38·4	·233	2·7	0·4	90	544	—	—	—	11	6	7	6	—	7·5	16	2·59
		May	29·749	0·891	70·1	26·0	44·1	57·9	38·1	19·8	46·9	41·2	·258	3·0	0·7	81	544	—	—	—	11	5	8	7	—	6·5	15	3·00
		June	29·550	0·673	73·0	38·7	34·3	66·6	47·8	18·8	55·2	52·0	·390	4·4	0·5	89	531	—	—	—	3	3	14	10	—	7·7	23	5·10
BEDFORD, Cardington, Mr. J. MacLaren, Assistant to S. C. Whitbread, Esq., F.R.S.	105	April	29·554	1·384	61·4	28·0	33·4	51·3	35·1	16·2	42·0	39·3	·241	2·8	0·3	90	546	82·1	31·1	1·1	8	9	6	7	—	7·5	14	1·80
		May	29·878	0·910	68·6	26·6	42·0	58·1	39·5	18·6	47·6	40·9	·256	3·0	0·8	78	546	96·4	34·4	1·7	13	5	7	6	—	7·0	16	3·25
		June	29·648	0·690	73·0	39·0	34·0	67·5	49·6	17·9	56·8	53·6	·411	4·6	0·6	89	531	106·7	46·8	1·6	2	4	10	14	—	7·8	24	4·35
CAMBRIDGE (Trinity College), J. W. L. Glaisher, Esq., M.A., F.R.S.	40	April	29·615	1·374	62·8	28·0	34·8	52·2	35·8	16·4	42·6	38·5	·233	2·7	0·5	86	546	111·1	31·2	1·3	9	8	8	5	—	7·7	21	2·18
		May	29·936	0·919	72·1	25·8	46·3	59·3	39·7	19·6	47·8	42·1	·268	3·1	0·7	82	546	124·7	33·8	1·3	9	9	6	7	—	6·8	19	3·32
		June	29·722	0·672	75·8	38·0	37·8	67·7	49·7	18·0	56·8	52·3	·391	4·4	0·8	85	532	132·1	45·0	1·4	3	3	15	9	—	7·2	26	5·22
RUGBY (Warwickshire), Stockton, "The Rectory," W. Tuckwell, Esq.	289	April	29·365	1·549	59·5	24·0	35·5	51·2	33·6	17·6	41·0	38·5	·233	2·7	0·3	91	544	60·7	31·7	0·4	10	10	6	4	6·0	7·0	18	2·56
		May	29·667	1·186	67·0	21·0	46·0	57·4	37·9	19·5	46·6	43·2	·280	3·2	0·5	89	543	70·1	35·4	0·4	12	6	7	6	6·2	6·7	15	2·55
		June	29·458	0·635	71·2	35·0	36·2	65·2	47·1	18·1	55·2	52·1	·388	4·4	0·8	89	529	80·1	45·8	0·5	2	5	15	8	7·8	7·4	—	—
LOWESTOFT (Suffolk), S. H. Miller, Esq., F.R.A.S., F.M.S.	85	April	29·572	1·348	57·3	29·3	28·0	47·6	36·3	11·3	41·1	36·4	·214	2·5	0·5	83	547	89·2	34·1	0·3	9	11	5	5	—	7·1	19	2·19
		May	29·881	0·904	61·2	31·3	29·9	53·0	40·5	12·5	46·5	38·7	·235	2·7	0·9	75	547	104·3	37·8	0·3	8	8	8	7	—	6·9	13	1·89
		June	29·694	0·758	69·9	41·0	28·9	61·9	49·4	12·5	54·9	48·6	·342	3·9	1·0	79	534	112·1	47·0	0·5	2	4	8	17	—	6·7	20	2·10

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1879. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.d = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
SOMERLEYTON (Suffolk), The Rectory, Rev. C. J. Steward, F.M.S.	50	April	29·652	1·258	63·3	29·0	34·3	50·7	36·2	14·5	41·9	39·9	·246	2·9	0·2	93	548	—	—	1·0	8	12	8	2	7·6	6·2	19	2·33
		May	29·989	0·908	70·5	29·8	40·7	57·5	39·5	18·0	46·3	44·0	·288	3·3	0·3	92	549	—	—	1·1	9	12	6	4	7·6	6·0	14	2·04
		June	29·751	0·776	72·0	37·2	34·8	65·3	48·8	16·5	55·2	—	—	—	—	—	—	—	—	1·0	2	4	13	12	6·6	7·0	21	3·04
WOLVERHAMPTON (Staffordshire), Wrottesley, E. Simpson, Esq.	500	April	29·123	1·476	55·0	24·1	30·9	47·9	33·8	14·1	40·0	35·2	·205	2·4	0·5	83	540	—	—	—	8	9	8	5	—	8·3	18	3·37
		May	29·440	0·908	65·5	29·8	35·7	54·9	39·4	15·5	45·8	38·7	·237	2·7	0·8	77	540	—	—	—	9	8	7	7	—	7·5	18	2·61
		June	29·178	0·602	70·5	39·0	31·5	63·4	47·7	15·7	53·7	48·4	·338	3·8	0·8	82	526	—	—	—	2	9	13	6	—	8·2	24	4·30
NORWICH (Norfolk), The Literary Institution, John Quinton, Esq., Jun.	42	April	29·650	1·306	60·8	31·0	29·8	49·4	37·7	11·7	42·1	39·9	·246	2·8	0·3	92	547	—	—	—	10	8	8	4	—	—	16	1·80
		May	29·937	0·962	66·2	32·5	33·7	57·1	41·7	15·4	47·8	44·0	·288	3·3	0·5	88	546	—	—	—	11	6	8	6	—	—	12	1·07
		June	29·738	0·728	71·5	43·0	28·5	64·8	51·3	13·5	56·2	52·7	·399	4·5	0·6	88	553	—	—	—	2	7	16	5	—	—	18	2·28
LEICESTER (Town Museum), W. J. Harrison, Esq., F.G.S.	238	April	29·422	1·444	57·9	28·5	29·4	49·0	36·1	12·9	42·0	35·5	·209	2·4	0·7	79	543	95·4	28·1	0·7	9	9	7	5	—	7·4	19	2·14
		May	29·735	0·931	67·3	26·8	40·5	55·7	40·2	15·5	47·3	39·9	·246	2·8	0·9	76	543	105·3	31·2	0·6	9	7	7	8	—	7·4	21	3·05
		June	29·508	0·673	68·3	39·5	28·8	61·6	52·4	9·2	55·7	48·9	·348	3·9	1·1	79	530	117·2	43·2	0·7	3	4	12	11	—	7·8	24	3·72
NOTTINGHAM (Notts), M.O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	183	April	29·481	1·424	61·0	26·2	34·8	50·8	35·0	15·8	41·6	37·5	·226	2·6	0·5	87	545	91·5	33·1	0·3	9	13	5	3	2·2	7·6	16	2·66
		May	29·792	0·927	71·8	25·0	46·8	57·2	38·9	18·3	46·6	41·9	·267	3·1	0·6	85	545	100·7	37·4	0·3	11	8	7	5	3·0	6·5	23	3·24
		June	29·552	0·644	74·3	36·2	38·1	67·9	47·7	20·2	55·6	51·9	·389	4·3	0·6	88	530	110·9	47·0	0·3	2	6	12	10	4·3	6·6	25	4·09
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	39	April	29·644	1·322	60·4	26·8	33·6	49·5	34·3	15·2	40·5	38·1	·232	2·7	0·3	92	549	96·4	29·1	1·6	13	7	7	3	—	7·5	16	2·15
		May	29·934	0·948	66·3	24·7	41·6	56·1	38·6	17·5	46·3	41·4	·261	3·0	0·6	84	548	120·2	34·0	1·6	13	5	10	3	—	6·6	15	2·50
		June	29·717	0·688	71·3	33·4	37·9	64·8	46·4	18·4	54·0	51·0	·374	4·2	0·5	89	535	120·6	43·2	1·6	3	4	20	3	—	7·6	16	2·67
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	100	April	29·580	1·460	55·7	30·0	25·7	47·6	37·8	9·8	42·5	36·7	·216	2·5	0·6	80	546	—	—	0·8	6	12	4	8	—	6·7	14	1·49
		May	29·915	0·950	59·8	32·6	27·2	53·8	43·1	10·7	47·7	41·2	·259	3·0	0·8	79	546	—	—	0·7	11	8	2	10	—	6·0	12	1·88
		June	29·618	0·710	67·8	45·6	22·2	60·9	50·7	10·2	54·7	49·4	·352	4·0	0·9	82	533	—	—	0·7	3	5	8	14	—	7·8	18	3·26
KELSTERN GRANGE, near Louth (Lincolnshire), D. Grant Briggs, Esq., F.M.S.	393	April	29·287	1·358	58·1	28·5	29·6	47·0	34·8	12·2	39·7	35·6	·208	2·4	0·5	86	544	98·1	32·7	0·9	10	11	6	3	8·7	7·7	21	2·73
		May	29·575	0·986	66·4	28·7	37·7	54·0	38·2	15·8	44·9	40·2	·249	2·8	0·5	84	543	110·6	36·3	0·8	9	8	9	5	8·6	6·8	18	4·26
		June	29·350	0·740	68·6	36·9	31·7	61·7	46·7	15·0	52·9	47·5	·329	3·7	0·8	82	530	117·7	44·5	1·0	2	4	12	12	8·6	6·7	21	4·01
LIVERPOOL, The Observatory, John Hartnup, Esq., F.R.A.S.	197	April	29·465	1·496	55·3	29·8	25·5	48·3	37·8	10·5	41·7	37·4	·225	2·6	0·5	86	545	—	—	1·0	7	11	5	7	—	7·2	18	2·19
		May	29·793	0·954	60·4	34·0	26·4	53·7	43·2	10·5	47·2	42·2	·269	3·1	0·7	83	544	—	—	1·1	8	4	4	15	—	6·2	21	2·11
		June	29·507	0·708	68·2	43·4	24·8	61·7	50·5	11·2	54·7	50·0	·360	4·0	0·8	84	531	—	—	1·3	2	7	10	11	—	7·1	19	3·60
BOLTON, Sharples (Lancashire), Rev. T. Mackereth, F.R.A.S., F.M.S.	481	April	29·177	1·426	55·5	23·3	32·2	48·5	31·4	17·1	39·3	33·8	·194	2·3	0·6	81	541	61·4	27·3	1·1	10	14	3	3	5·8	7·0	14	2·37
		May	29·471	0·950	62·8	26·4	36·4	54·6	36·9	17·7	45·4	37·8	·227	2·6	0·8	75	541	71·7	32·2	1·8	9	6	6	10	7·5	6·9	19	2·63
		June	29·219	0·724	67·5	34·0	33·5	61·2	44·8	16·4	52·0	46·3	·315	3·6	0·8	81	529	76·1	40·3	1·4	4	6	11	9	4·4	7·2	24	8·51
HALIFAX, Bermerside Observatory (Yorkshire), E. J. Crossley, Esq., F.R.A.S.	530	April	29·141	1·410	62·2	29·0	33·2	48·4	34·4	14·0	40·0	34·9	·203	2·4	0·5	82	541	81·4	32·1	0·4	10	11	4	5	—	7·9	14	2·46
		May	29·433	0·900	68·8	28·3	40·5	56·0	38·1	17·9	45·7	39·5	·243	2·8	0·8	79	540	95·2	35·3	0·5	7	9	7	8	—	6·7	15	1·63
		June	29·170	0·680	75·0	37·3	37·7	62·9	46·9	16·0	52·9	47·6	·332	3·7	0·8	83	527	102·7	45·5	0·7	3	9	11	7	—	7·7	22	5·08
HULL (Yorkshire), The People's Park, Mr. E. Peake.	12	April	29·708	1·430	61·0	27·0	34·0	49·0	35·3	13·7	40·9	36·6	·216	2·5	0·5	85	550	73·4	32·4	—	—	—	—	—	2·5	—	17	1·40
		May	29·986	0·958	69·0	26·0	43·0	55·7	39·2	16·5	46·6	41·0	·258	3·0	0·7	82	549	80·5	36·0	—	—	—	—	—	3·4	—	22	3·91
		June	29·739	0·620	73·0	39·0	34·0	64·5	48·5	16·0	55·0	49·7	·357	4·0	0·9	83	535	85·6	45·6	—	—	—	—	—	1·6	—	24	3·91
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.S., F.M.S., F.R.A.S.	363	April	29·298	1·412	59·9	27·5	32·4	50·2	34·6	15·6	40·7	34·8	·202	2·4	0·6	80	543	97·7	31·0	1·1	10	8	5	7	—	7·3	16	1·56
		May	29·597	0·952	64·8	30·0	34·8	57·1	39·7	17·4	46·7	39·7	·245	2·9	0·8	78	541	110·4	36·9	1·2	6	7	5	13	—	7·6	21	2·38
		June	29·344	0·743	70·0	38·0	32·0	63·7	47·9	15·8	53·6	47·7	·330	3·7	0·9	80	529	114·2	46·1	1·4	2	5	13	10	—	8·7	24	4·79
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	366	April	29·311	1·397	55·2	28·0	27·2	48·3	36·3	12·0	41·0	35·1	·204	2·4	0·6	80	542	68·8	—	1·0	9	12	6	3	—	7·5	19	2·54
		May	29·599	0·905	65·2	30·3	34·9	55·3	40·5	14·8	46·3	39·9	·247	2·9	0·8	79	542	75·4	—	1·2	15	4	4	8	—	6·8	23	1·65
		June	29·346	0·684	70·3	42·0	28·3	62·3	49·5	12·8	54·1	47·4	·326	3·7	1·0	78	529	81·1	—	1·2	6	6	7	11	—	6·9	28	4·60
LEEDS (Yorkshire), The Philosophical Hall, H. Crowther, Esq.	137	April	29·555	1·521	59·0	28·0	31·0	50·2	36·2	14·0	41·8	36·0	·213	2·5	0·6	81	546	61·4	—	1·8	8	13	3	6	—	4·6	18	2·75
		May	29·847	0·916	65·0	31·0	34·0	59·1	39·9	19·2	47·8	37·7	·226	2·6	1·2	70	545	70·6	—	1·8	9	7	3	12	—	3·7	18	1·48
		June	29·594	0·680	72·0	42·0	30·0	64·8	48·4	16·4	54·8	46·8	·320	3·6	1·2	74	532	77·5	—	2·0	4	7	6	13	—	4·3	21	4·43

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1879. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.d = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.M.S., F.R.A.S.	146	April	29·536	1·316	56·7	25·2	31·5	50·1	35·8	14·3	42·0	35·1	·205	2·4	0·7	77	546	93·1	29·7	0·3	5	14	6	5	2·3	6·4	11	1·15
		May	29·814	0·972	65·4	25·1	40·3	55·8	40·0	15·8	47·1	40·1	·248	2·9	0·9	77	545	103·3	34·2	0·3	6	9	5	11	1·8	6·6	15	2·43
		June	29·539	0·736	71·8	38·7	33·1	62·5	49·3	13·2	54·6	50·5	·367	4·1	0·7	86	531	108·6	44·3	0·4	7	6	5	12	2·8	8·0	18	3·14
ALLENHEADS (Northumberland), Mr. Thos. Wm. Ridley, Assistant to W. B. Beaumont, Esq., M.P.	1360	April	28·241	1·278	—	23·3	—	—	31·7	—	—	—	—	—	—	—	—	95·4	—	0·8	—	—	—	—	—	7·3	21	2·24
		May	28·546	0·851	—	26·0	—	—	36·3	—	—	—	—	—	—	—	—	109·1	—	0·8	—	—	—	—	—	7·3	18	2·33
		June	28·338	0·672	—	36·3	—	—	45·2	—	—	—	—	—	—	—	—	—	—	1·2	—	—	—	—	—	7·8	23	5·36
SILLOTH (Cumberland), "The Rectory," Rev. F. Redford, M.A., F.R.A.S., F.M.S.	28	April	29·683	1·391	59·0	27·4	31·6	52·4	35·3	17·1	42·9	34·7	·202	2·3	0·8	73	547	83·4	31·5	1·3	2	15	7	6	8·4	5·7	11	1·14
		May	29·964	1·017	64·5	28·0	36·5	55·8	40·5	15·3	47·4	38·5	·233	2·7	1·0	72	547	91·5	35·6	1·2	5	9	2	15	8·5	5·5	17	2·07
		June	29·666	0·794	71·2	39·9	31·3	62·7	48·5	14·1	53·9	48·2	·335	3·8	0·9	81	534	100·0	44·6	1·2	3	7	5	15	8·6	6·1	20	6·33
CARLISLE (Cumberland), Isaac Cartmell, Esq., F.M.S.	114	April	29·585	1·482	59·8	25·0	34·8	50·6	38·3	12·3	42·1	36·5	·217	2·5	0·6	81	546	81·9	28·8	1·1	5	15	5	5	3·3	7·1	8	1·42
		May	29·854	0·976	65·2	31·0	34·2	57·3	45·7	11·6	49·2	40·5	·253	2·9	1·1	72	543	95·0	32·8	0·7	8	9	3	11	4·2	7·3	11	2·10
		June	29·544	0·982	74·6	41·0	33·6	65·2	48·4	16·8	55·0	47·4	·327	3·7	1·2	76	531	95·8	42·4	0·7	4	10	5	11	3·4	7·5	20	3·20
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	April	29·594	1·364	60·0	28·0	32·0	49·4	36·5	12·9	40·8	36·7	·217	2·5	0·5	86	548	63·8	31·3	1·1	3	18	4	6	—	6·3	18	2·43
		May	29·861	0·980	64·0	33·0	31·0	56·7	41·7	15·0	47·3	41·8	·265	3·1	0·6	82	545	74·0	36·3	1·2	9	10	4	8	—	5·3	23	2·04
		June	29·581	0·722	70·0	42·0	28·0	63·5	50·6	12·9	54·9	48·2	·337	3·9	0·8	78	532	81·4	45·3	1·2	4	7	9	10	—	5·7	21	4·48
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	April	29·667	1·379	54·7	29·0	25·7	45·8	35·7	10·1	39·4	36·6	·218	2·5	0·3	90	551	—	35·4	1·2	7	11	5	7	—	6·7	18	2·35
		May	29·928	0·965	62·4	31·0	31·4	51·7	39·4	12·3	44·3	40·8	·255	2·9	0·4	87	550	—	39·0	1·7	12	9	4	6	—	6·5	21	2·28
		June	29·637	0·771	66·0	39·8	26·2	59·0	48·1	10·9	52·3	47·7	·331	3·7	0·7	84	536	—	47·7	1·4	9	5	5	11	—	6·6	18	3·64

Second Rain-gauges are placed—

				April.	May.	June.	Total in Quarter.
At Strathfield Turgiss, at the height of	38 feet	*above the ground*,	the amount collected was	2·22 inches.	2·46 inches.	3·49 inches.	8·17 inches.
" Oxford, "	22 feet	"	"	2·54 "	2·75 "	4·61 "	9·90 "
" Nottingham, "	39 feet	"	"	2·52 "	3·04 "	3·87 "	9·43 "
" Cardington, "	36 feet	"	"	1·50 "	2·88 "	3·70 "	8·08 "

NOTE.—*Barometer Reading*, WILTON (Salisbury) 4th May, 9h. a.m., 29·398 inches, has been altered to 30·398 inches.
" " " " " 9h. p.m., 29·400 " " 30·400 "
" " " 5th " 9h. a.m., 29·394 " " 30·394 "
" CARLISLE 29th " 9h. p.m., 28·694 " " 29·694 "

SALISBURY.—The Maximum Temperature of the Air, April 25th, 71°·0, has been altered to 61°·0.

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·547	67·5	34·5	33·0	55·3	44·5	23·0	10·8	49·0	44·9	·301	3·4	0·6	86	539	—	—	1·4	6	5	9	10	4·0	5·3	51	10·77
Helston	—	67·0	30·0	37·0	59·8	43·9	29·7	15·9	50·3	43·9	·292	3·3	0·9	79	542	74·3	41·9	1·9	8	4	8	10	4·6	4·5	52	9·94
Truro	29·517	68·0	24·0	44·0	58·9	44·6	33·0	13·4	48·7	46·4	·318	3·6	0·3	91	542	—	—	2·8	7	4	8	11	—	6·8	62	11·76
Plymouth	29·593	67·0	30·0	37·0	57·0	44·9	27·8	12·1	49·7	44·8	·302	3·4	0·7	84	542	—	—	1·6	6	5	10	9	—	7·2	61	10·73
Torquay	29·549	69·2	30·8	38·4	55·9	43·9	27·5	12·0	48·7	43·6	·289	3·3	0·7	82	537	125·4	37·8	1·3	6	5	9	10	3·9	6·9	70	13·66
Ventnor	29·592	65·5	28·7	36·8	56·0	44·6	27·3	11·4	48·7	45·2	·306	3·5	0·5	87	542	—	—	—	3	7	10	11	6·5	7·1	55	10·49
Osborne	29·523	70·7	28·8	41·9	59·2	44·5	31·8	14·7	49·4	45·8	·314	3·6	0·5	87	539	110·9	41·4	0·1	5	5	11	9	—	7·5	50	8·7
Bournemouth	29·520	67·6	27·0	40·6	54·4	43·5	28·7	10·9	48·1	42·9	·282	3·2	0·7	83	542	—	—	1·7	7	7	10	7	—	5·9	51	6·8
Brighton	29·549	73·0	25·5	46·5	58·7	43·9	32·4	14·8	50·1	43·7	·292	3·3	0·9	79	539	101·5	41·5	0·7	7	5	11	8	—	7·7	61	10·49
Salisbury	29·543	73·0	25·0	48·0	59·1	39·6	38·7	19·5	49·1	44·0	·293	3·3	0·7	83	539	102·9	37·9	1·2	9	5	8	8	—	7·3	62	11·46
Barnstaple	29·513	71·0	27·0	44·0	60·2	45·6	33·3	14·6	51·1	46·8	·326	3·7	0·6	86	540	—	—	1·2	6	5	12	8	—	4·1	57	10·89
Bath	29·554	68·8	27·8	39·0	54·6	42·1	30·3	12·5	46·9	42·4	·274	3·1	0·6	85	533	101·5	37·6	1·6	7	5	9	10	—	7·3	64	13·05
Caterham	29·618	65·8	25·0	40·8	55·1	40·6	32·5	14·5	47·0	42·8	·281	3·2	0·6	86	534	—	34·6	2·5	7	4	8	10	—	4·1	57	11·25
Ramsgate	29·566	75·2	31·7	43·5	57·9	43·8	31·3	14·1	49·3	44·4	·297	3·4	0·7	83	541	102·3	39·5	1·1	6	7	9	8	—	6·9	41	9·00
Strathfield Turgiss	29·555	68·6	24·5	44·1	58·3	41·4	36·1	16·9	48·7	43·4	·287	3·3	0·6	83	540	109·6	36·0	1·1	7	4	9	10	1·9	7·9	57	11·96
Weybridge Heath	29·581	74·8	24·0	50·8	60·1	40·4	39·8	19·7	49·5	43·5	·288	3·3	0·8	80	540	99·5	36·4	0·8	7	6	11	7	5·3	6·7	62	11·15
Marlborough	29·547	69·7	27·3	42·4	57·1	41·7	33·6	15·4	48·4	42·8	·279	3·2	0·7	82	534	95·4	36·2	—	7	6	8	9	—	7·1	60	11·18
Blackheath	29·555	75·8	28·1	47·7	58·3	41·6	36·1	16·7	48·6	42·7	·279	3·2	0·8	81	541	109·4	37·8	0·8	8	6	6	10	—	6·8	53	10·17
Streatley	29·547	70·0	26·0	44·0	58·7	41·9	35·0	16·8	49·2	42·9	·282	3·2	0·8	79	540	—	—	1·5	7	7	8	8	—	7·2	62	9·24
Camden Square	29·559	74·0	26·8	47·2	59·8	43·1	35·6	16·7	50·0	43·0	·283	3·2	1·1	77	540	103·4	39·7	—	9	4	9	9	—	6·7	57	10·9
Oxford	29·536	68·1	27·1	41·0	55·8	42·7	31·3	13·1	49·0	44·6	·301	3·4	0·5	85	539	102·3	38·3	1·1	7	4	10	9	1·3	8·2	59	9·7
Royston	29·575	73·0	24·1	48·9	58·7	39·9	38·8	18·8	47·8	43·9	·294	3·4	0·5	87	540	—	—	—	8	5	10	8	—	7·2	54	10·65
Cardington	29·500	73·0	26·6	46·4	59·0	41·4	36·1	17·6	48·8	44·6	·303	3·5	0·6	86	541	95·1	37·4	1·5	8	6	8	9	—	7·4	54	9·4
Cambridge	29·505	75·8	25·8	50·0	59·7	41·7	39·6	18·0	49·1	44·3	·297	3·4	0·7	84	541	122·6	36·7	1·3	7	7	10	7	—	7·2	66	10·72
Stockton	29·514	71·2	21·0	50·2	57·9	39·5	39·2	18·4	47·6	44·6	·300	3·4	0·5	90	539	70·3	37·6	0·4	8	7	9	6	6·5	7·0	—	—
Lowestoft	29·545	69·9	29·3	40·6	54·2	42·1	28·9	12·1	47·5	41·2	·264	3·0	0·8	79	543	101·9	39·6	0·4	6	8	7	10	—	6·9	52	6·18
Somerleyton	—	72·0	29·0	43·0	57·8	41·5	36·6	16·3	47·8	—	—	—	—	—	—	—	—	1·0	6	9	9	6	7·3	6·4	54	7·41
Norwich	29·510	71·5	31·0	40·5	57·1	43·6	30·7	13·5	48·7	45·5	·311	3·5	0·5	89	542	—	—	—	8	7	11	5	—	—	46	5·7
Wolverhampton	29·532	70·5	24·1	46·4	55·4	40·3	32·7	15·1	46·5	40·8	·260	3·0	0·7	81	535	—	—	—	6	9	9	6	—	8·0	60	10·28
Leicester	29·555	68·3	26·8	41·5	55·4	42·9	32·9	12·5	48·3	41·4	·268	3·6	0·9	78	539	106·6	36·2	0·6	7	7	9	8	—	7·5	64	8·9
Nottingham	29·514	74·3	25·0	49·3	58·6	40·5	39·9	18·1	48·0	43·8	·294	3·3	0·6	87	540	101·0	39·2	0·3	7	9	8	6	3·2	6·9	67	9·96
Holkham	29·520	71·3	24·7	46·6	56·8	39·8	37·7	17·0	46·9	43·5	·289	3·3	0·5	88	544	112·4	35·4	1·6	10	5	12	3	—	7·2	47	7·75
Llandudno	29·538	67·8	30·0	37·8	54·1	43·9	25·0	10·2	48·3	42·4	·276	3·2	0·8	80	542	—	—	0·7	7	8	5	11	—	6·8	44	6·85
Kelstern Grange	29·569	68·6	28·5	40·1	54·2	39·9	33·0	14·3	45·8	41·1	·262	3·0	0·6	84	539	108·8	37·8	0·9	7	3	9	7	8·6	7·1	60	11·96
Liverpool	29·518	68·2	29·8	38·4	54·6	43·8	25·6	10·8	47·9	43·2	·285	3·2	0·7	84	540	—	—	1·1	6	7	6	11	—	6·8	58	7·99
Bolton	29·565	67·5	23·3	44·2	54·8	37·7	34·0	17·1	45·6	39·3	·245	2·8	0·7	79	537	69·7	33·3	1·4	8	9	7	7	5·9	7·0	57	13·54
Bermerside	29·576	75·0	28·3	46·7	55·8	39·8	37·1	16·0	46·2	40·7	·259	3·0	0·7	81	536	93·1	37·6	0·5	7	10	7	7	—	7·4	51	9·21
Hull	29·547	73·0	26·0	47·0	56·4	41·0	37·0	15·4	47·5	42·4	·277	3·2	0·7	83	545	79·8	38·0	—	—	—	—	—	2·5	—	63	9·25
Stonyhurst	29·549	70·0	27·5	42·5	57·0	40·7	33·1	16·3	47·0	40·7	·259	3·0	0·8	79	538	107·4	38·0	1·2	6	7	8	10	—	7·9	61	8·71
Leeds	29·562	72·0	28·0	44·0	58·0	41·5	31·7	16·5	48·1	42·2	·253	2·9	1·0	75	541	69·8	—	1·9	7	9	4	10	—	4·2	57	8·86
Bradford	29·555	70·3	28·0	42·3	55·3	42·1	30·1	13·2	47·1	40·8	·259	3·0	0·8	79	531	75·1	—	1·1	10	7	6	7	—	7·1	70	8·76
Cockermouth	29·517	71·8	25·1	46·7	56·1	41·7	35·0	14·4	47·9	41·9	·273	3·1	0·8	80	541	101·7	36·1	0·3	6	10	5	9	2·3	7·0	44	6·72
Allenheads	—	—	23·3	—	—	37·7	—	—	—	—	—	—	—	—	—	—	—	0·9	—	—	—	—	—	7·5	62	9·95
Silloth	29·545	71·2	27·4	43·8	57·0	41·4	33·1	15·6	48·1	40·5	·257	2·9	0·9	75	543	91·6	37·2	1·2	3	10	5	12	8·5	5·8	48	9·24
Carlisle	29·517	74·6	25·0	49·6	57·7	44·1	34·2	13·6	48·8	41·5	·266	3·0	1·0	76	540	90·9	34·7	0·8	6	11	4	9	3·6	7·3	39	6·73
Bywell	29·500	70·0	28·0	42·0	56·5	42·9	30·3	13·6	47·7	42·2	·273	3·2	0·6	82	542	73·1	37·6	1·2	5	12	6	8	—	5·8	62	8·85
North Shields	—	66·0	29·0	37·0	52·2	41·1	27·8	11·1	45·3	41·7	·268	3·0	0·5	87	546	—	40·7	1·4	9	8	5	8	—	6·6	57	8·25

The highest temperatures of the air were at Blackheath and Cambridge, both 75°·8; Ramsgate, 75°·2; Bermerside, 75°·0; and Weybridge, 74°·8.

The lowest temperatures of the air were at Stockton, 21°·0; Bolton and Allenheads, both 23°·3; Weybridge, 24°·0; and Royston and Wolverhampton, both 24°·1.

The greatest daily ranges of the temperatures of the air were at Weybridge, 19°·7; Salisbury, 19°·5; Royston, 18°·8; Stockton, 18°·4; Nottingham 18°·1; and Cambridge, 18°·0.

The least daily ranges of the temperatures of the air were at Llandudno, 10°·2; Guernsey and Liverpool, 10°·8; and Bournemouth, 10°·9.

The greatest number of rainy days were at Torquay and Bradford, both 70; Nottingham 67; Cambridge 66; Bath and Leicester, both 64; and Hull, 63.

The least number of rainy days were at Carlisle, 39; Ramsgate, 41; Llandudno and Cockermouth, both 44; and Norwich, 46.

The heaviest falls of rain were at Torquay, 13·69 inches; Bolton, 13·51 inches; Bath, 13·07 inches; and Strathfield, 11·96 inches.

The least falls of rain were at Norwich, 5·15 inches; Lowestoft, 6·18 inches; Llandudno, 6·63 inches; and Cockermouth, 6·72 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·547	67·5	34·5	33·0	55·3	44·5	23·0	10·8	49·0	44·9	·301	3·4	0·6	86	539	—	—	1·4	6	5	9	10	4·0	5·3	51	10·77
Between the latitudes 50° and 51°	29·548	68·5	28·2	40·3	57·4	44·2	29·8	13·2	49·2	44·5	·300	3·4	0·7	84	541	103·0	40·7	1·4	6	5	10	9	5·0	6·7	58	10·19
Between the latitudes 51° and 52°	29·556	71·1	26·7	44·4	57·9	42·0	34·5	15·9	48·9	43·6	·289	3·3	0·7	83	538	102·7	37·4	1·3	7	5	9	9	2·8	6·7	58	10·00
Between the latitudes 52° and 53°	29·525	72·0	26·2	45·8	57·4	41·1	35·7	16·3	47·9	43·6	·290	3·3	0·6	85	541	100·5	37·3	1·0	7	7	9	7	6·9	7·2	54	8·39
Between the latitudes 53° and 54°	29·553	70·3	27·7	42·6	55·6	41·0	32·1	14·6	47·1	41·3	·265	3·0	0·8	81	540	88·1	36·9	1·1	7	8	7	9	5·7	6·7	56	9·33
Between the latitudes 54° and 55°	29·527	71·6	26·7	44·9	56·5	42·4	32·6	14·1	47·9	41·4	·266	3·0	0·8	78	539	86·5	36·4	0·9	6	10	5	9	4·8	6·8	54	8·44
Mean for the Quarter, 50° to 55°, Year 1876	29·703	82·6	28·3	54·3	61·1	43·1	40·3	18·0	50·9	43·8	·289	3·3	0·9	75	541	101·4	37·8	1·0	7	8	6	8	4·1	5·5	34	5·57
Mean for the Quarter, 50° to 55°, Year 1877	29·586	81·1	29·0	52·1	59·8	43·9	35·1	15·9	50·5	43·6	·289	3·3	1·0	78	539	98·7	38·8	1·3	7	9	8	7	4·8	6·3	41	6·89
Mean for the Quarter, 50° to 55°, Year 1878	29·510	86·8	28·0	58·8	62·6	46·1	39·2	16·5	52·9	46·9	·325	3·7	0·9	81	536	104·8	41·6	1·1	5	9	9	8	4·3	5·9	49	8·84
Mean for the Quarter, 50° to 55°, Year 1879	29·542	70·7	27·1	43·6	57·0	42·1	32·9	14·9	48·2	42·9	·282	3·2	0·7	82	540	93·2	37·7	1·1	7	7	8	9	5·0	6·8	56	9·45

METEOROLOGY OF ENGLAND,

DURING THE QUARTER ENDING SEPTEMBER 30, 1879.

Remarks on the Weather during the Quarter ending September 30th, 1879.

By James Glaisher, Esq., F.R.S., *&c.*

The month of July was dull, very cold and sunless, with many days of temperature from 7° to 9° below their averages. Rain fell on every day during the first half of the month, and frequently afterwards, and snow fell at Bolton on both the 4th and 8th, and at Cockermouth on the 9th.

August was a month of very unsettled weather, with very little sunshine, about the middle of the month there were a few days whose mean temperature was equal to or slightly in excess of their averages, and during which period no rain fell, but rain was nearly continuous at all other parts of the month, it was a cold and very wet month, and thunderstorms were frequent.

September; during the first few days no rain fell, and it was fine and dry, but from the 6th, rain fell nearly daily, and the remainder of the month was cloudy and gloomy.

Till July 27th the average deficiency of mean temperature was 5° daily, and from July 28th to the end of the quarter, notwithstanding the few days of slightly excess of temperature, the deficiency of temperature was $\frac{3}{4}$° daily.

Thus the weather during the whole quarter has been cold, wet, and sunless, being a continuation of the bad weather which had been prevalent for the eight preceding months.

The month of September was the eleventh month in succession of low temperature, the mean temperature of the eleven months ending September 1879, are 46°·14. The instances of a mean temperature of about this value back to 1771 are:

In 1783–1784	the mean temperatures of eleven months ending September was			45°·71
1784–1785	"	"	"	46°·06
1785–1786	"	"	"	46°·14
1788–1789	"	"	"	45°·73
1794–1795	"	"	"	46°·18
1796–1797	"	"	"	46°·11
1813–1814	"	"	"	45°·23
1815–1816	"	"	"	45°·91
1878–1879	"	"	"	46°·14

Thus these are the only two instances in this century, viz,: in 1813–1814, and 1815–1816, when the temperatures of these eleven months were closely approximate to that of the present period.

The weather in the three months following September in the year 1784, 1785, and 1786, was cold; in 1789, 1797, and 1814 was cold, excepting December; in 1795 was warm in October and December, and cold in November; and in 1816 was cold in November and December. Therefore, as a rule, the same cold weather continued throughout the year.

The following table shows the mean temperature of the eleven months ending September in every year from 1772–1879.

Table showing the Mean Temperature of the Eleven Months November to September, from 1771—1772 to 1878—1879.

November to September.	Mean Temp. of the 11 months Nov. to Sept.	November to September.	Mean Temp. of the 11 months Nov. to Sept.	November to September.	Mean Temp. of the 11 months Nov. to Sept.	November to September.	Mean Temp. of the 11 months Nov. to Sept.	November to September.	Mean Temp. of the 11 months Nov. to Sept.	November to September.	Mean Temp. of the 11 months Nov. to Sept.
Years.	°	Years.	°	Years.	°	Years.	°	Years.	°	Years.	°
1771—1772	46·6	1789—1790	47·9	1807—1808	47·9	1825—1826	49·7	1843—1844	49·5	1861—1862	49·2
1772—1773	46·9	1790—1791	48·7	1808—1809	48·3	1826—1827	47·8	1844—1845	46·4	1862—1863	49·7
1773—1774	47·9	1791—1792	47·2	1809—1810	48·3	1827—1828	49·8	1845—1846	52·1	1863—1864	49·1
1774—1775	49·9	1792—1793	47·5	1810—1811	48·9	1828—1829	47·8	1846—1847	48·4	1864—1865	50·0
1775—1776	47·7	1793—1794	49·3	1811—1812	47·0	1829—1830	47·1	1847—1848	50·3	1865—1866	49·7
1776—1777	48·2	1794—1795	46·18	1812—1813	47·1	1830—1831	49·4	1848—1849	50·2	1866—1867	49·4
1777—1778	48·8	1795—1796	49·2	1813—1814	45·23	1831—1832	48·9	1849—1850	49·2	1867—1868	51·1
1778—1779	51·6	1796—1797	46·11	1814—1815	49·3	1832—1833	48·8	1850—1851	49·7	1868—1869	50·1
1779—1780	49·3	1797—1798	49·3	1815—1816	45·91	1833—1834	51·3	1851—1852	49·2	1869—1870	49·1
1780—1781	49·3	1798—1799	46·3	1816—1817	47·3	1834—1835	49·9	1852—1853	49·2	1870—1871	48·5
1781—1782	46·6	1799—1800	47·9	1817—1818	50·1	1835—1836	47·8	1853—1854	48·4	1871—1872	49·8
1782—1783	47·3	1800—1801	49·2	1818—1819	50·4	1836—1837	46·9	1854—1855	47·0	1872—1873	49·3
1783—1784	45·71	1801—1802	47·6	1819—1820	47·0	1837—1838	47·2	1855—1856	48·3	1873—1874	50·0
1784—1785	46·06	1802—1803	47·5	1820—1821	48·2	1838—1839	47·2	1856—1857	50·0	1874—1875	48·7
1785—1786	46·14	1803—1804	49·8	1821—1822	51·6	1839—1840	48·5	1857—1858	50·0	1875—1876	49·1
1786—1787	47·5	1804—1805	47·7	1822—1823	47·4	1840—1841	48·0	1858—1859	50·9	1876—1877	49·6
1787—1788	48·6	1805—1806	49·0	1823—1824	47·7	1841—1842	49·6	1859—1860	46·9	1877—1878	50·6
1788—1789	45·73	1806—1807	49·7	1824—1825	50·1	1842—1843	49·5	1860—1861	48·5	1878—1879	46·14
Mean -	47·8	Mean -	48·1	Mean -	48·2	Mean -	48·6	Mean -	49·1	Mean -	49·4

By comparing the last number 46°·14 with the numbers above it, the continued abnormal character of the weather for this long period is evident. The progressive increase of mean temperature is shown by the successive means of the 18 years in each column.

The fall of rain in the quarter has been remarkable, it fell on 53 days, and the amount collected was 11·75 ins., of which 5·2 ins. fell in August, the previous instances of such a large fall in this quarter are—in the year 1828, 13·8 ins., in the year 1829, 12·3 ins., in the year 1839 and 1867, 11·4 ins., and in 1875, 10·3 ins., in all other years the fall has been less than 10 ins.; this by itself would have been remarkable, but is much more so when added to the heavy falls of the preceding six months, viz., 17·3 ins., making the total fall this year to the end of September, the unprecedented amount of 29 ins.

The following table shows the fall of rain in the nine months ending September 30th, from 1815 to 1879 :—

Year.	Amount in Inches.	Year.	Amount in Inches.	Year.	Amount in Inches.	Year.	Amount in Inches.	Year.	Amount in Inches.
1815	16·1	1828	26·5	1841	21·2	1854	13·3	1867	24·0
1816	21·2	1829	21·8	1842	16·3	1855	13·7	1868	16·1
1817	20·6	1830	21·8	1843	17·6	1856	18·3	1869	17·0
1818	19·5	1831	21·1	1844	16·2	1857	15·4	1870	10·9
1819	22·0	1832	14·0	1845	16·6	1858	14·2	1871	19·1
1820	21·0	1833	14·6	1846	17·6	1859	17·2	1872	18·7
1821	22·0	1834	16·8	1847	11·8	1860	25·1	1873	17·9
1822	17·1	1835	18·1	1848	22·9	1861	13·7	1874	12·8
1823	18·1	1836	18·7	1849	17·1	1862	19·7	1875	20·1
1824	25·4	1837	15·4	1850	14·5	1863	15·2	1876	13·7
1825	15·2	1838	16·8	1851	19·7	1864	12·4	1877	20·0
1826	16·9	1839	20·9	1852	22·2	1865	19·3	1878	22·8
1827	15·6	1840	13·3	1853	22·5	1866	24·8	1879	29·0

From this table it will seen that the nearest approach to the heavy fall of rain this year was in the year 1828, when 26·5 ins. were measured, but this is 2½ ins. short of the amount this year; the next in order of amount was in 1860, when 25·1 ins. was measured, in 1866, 24·8 ins., and in 1867, 24·0 in. It will be seen the smallest falls in the same time were 10·9 ins. in 1870, and 11·8 ins. in 1847.

The readings of the barometer in the neighbourhood of London were below their averages from the 1st to the 22nd of July, except on the 18th and 19th, which were 0·8 in. and 0·02 in. in excess of the average; the mean amount of defect of the 22 days was 0·28 in. From the 26th of May till the 22nd of July the readings were all below their average values, except on June 10th, 11th, 12th, 13th, 14th, and 30th, and July 18th and 19th, when the readings were respectively 0·08 in., 0·02 in., 0·02 in., 0·16 in., 0·21 in., 0·04 in., 0·08 in., and 0·02 in., above their averages. The mean amount of defect for these 58 days was 0·21 in. From the 23rd to the 30th of July the mean daily readings were all above their averages, the mean amount of excess for the 8 days was 0·11 in. From the 31st of July to 14th of August the readings were alternately above and below their averages, the mean of the 15 days being the same as the average. From the 15th to the 30th of August the barometer readings were all below their averages, the mean amount of defect for the 16 days was 0·25 in. Five days of readings above their averages followed, viz.:—August 31st to September 4th, the mean amount of excess was 0·18 in. From the 5th to the 24th of September, with the exception of the 19th and 20th, the readings were below their averages, the mean amount of defect for the 20 days was 0·19 in., and during the last 6 days of the quarter the readings were above their averages, the mean amount of excess was 0·28 in.

The mean reading of the barometer for July was 29·628 ins., being 0·177 in. below the average. It was lower than any value back to 1861 when the mean reading was 29·606 ins. The mean reading for August was 29·672 ins., being 0·114 in. below the average, and with the exception of that in 1878, it was lower than any value back to 1866. The mean reading for September was 29·802 ins. being 0.003 in. below the average.

The mean reading of the barometer for the quarter was 29·701 ins., being 0·098 in. below the average.

The atmospheric pressure in July was less than in June by 0·013 in., that of August was greater than in July by 0·044 in., and that in September was greater than in August by 0·130 in. (From the preceding 38 years' observations the *mean pressure* in July is less than in June by 0·007 in., that in August is less than in July by 0·019 in., and that in September is greater than in August by 0·019 in.) The mean increase of pressure from June to July south of latitude 52° was 0·023 in., and the mean decrease north of 52° was 0·012 in. The mean increase from August to September south of latitude 52° was 0·022 in., and north of 52° was 0·032 in. The mean increase from August to September south of latitude 52° was 0·126 in., and north of 52° was 0·144 in.

At Greenwich the *mean temperature* of July was higher than that of June by 1°·2; that of August was higher than that of July by 1°·8, and that of September was lower than that of August by 3°·6. (From the preceding 38 years' observations the *mean temperature* of July is higher than that of June by 3°·2, that of August is lower than that of July by 0°·7, and that of September is lower than that of August by 4°·4.) The *increase* of mean temperature from June to July from all places was 1°·5; the *increase* from July to August was 1°·9, and the *decrease* from August to September was 3°·4.

The mean temperature of the air for July was 58°·1, being 3°·5 and 4°·1, respectively, below the averages of the preceding 108 years, and 38 years. It was lower than any value back to 1860, when it was 57°·6.

The mean temperature of the air for August was 59°·9, being 1°·0 and 1°·6, respectively, below the averages of the preceding 108 years, and 38 years. It was lower than any value back to 1866, when it was 59°·4.

The mean temperature of the air for September was 56°·3, being 0°·2 and 0°·8, respectively below the averages of the preceding 108 years, and 38 years. It was lower than any value back to 1873, when it was 54°·7.

The mean temperature of the air for the quarter was 58°·1, being 1°·6 and 2°·2, respectively, below the averages of the preceding 108 years, and 38 years.

The mean high day temperatures of the air were 7°·2, 3°·7, and 2°·1, respectively, below their averages in July, August, and September.

The mean low night temperatures of the air were 1°·5, and 0°·2, respectively, below their averages in July and August, but 0°·2 above in September. Therefore the days and nights were cold throughout the quarter.

The mean daily ranges of temperature were 5°·7, 3°·4, and 2°·2, respectively, below their averages in July, August, and September.

The fall of rain at Greenwich in July was 3·7 ins., being 1·2 in. above the average; the fall in August was 5·2 ins., being 2·8 ins. above the average; and back to 1815 there is but *one* instance of so large a fall in the month of August, viz.:—In the preceding year 1878 when the fall was 5·4 ins. The fall of rain in September was 2·8 ins., being 0·4 in. above the average.

The total fall of rain in the quarter was 11·7 ins., being 4·4 ins. above the average of the preceding 64 years, and during this period of 64 years there have been but two instances (viz., 13·8 ins. in 1828, and 12·3 ins. in 1829) of so large a fall in the three months ending September 30th, as that in the present year.

At Bolton the fall of rain in these three months was 23·03 ins., and at Bath 19·92 ins.

1879. Months.	Temperature of Air. Mean.	Temperature of Air. Diff. from average of 108 years.	Temperature of Air. Diff. from average of 38 years.	Temperature of Evaporation. Mean.	Temperature of Evaporation. Diff. from average of 38 years.	Temperature of Dew Point. Mean.	Temperature of Dew Point. Diff. from average of 38 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 38 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 38 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 38 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.
July -	58·1	−3·5	−4·1	55·6	−2·1	53·4	−0·5	15·5	−5·7	60·5	0·409	−0·008	4·6	−0·1
August	59·9	−1·0	−1·6	57·4	0·0	55·2	+1·4	16·4	−3·4	62·9	0·436	+0·018	4·9	+0·3
Sept. -	56·3	−0·2	−0·8	53·8	−0·1	51·4	+0·4	16·3	−2·2	58·8	0·379	+0·001	4·3	−0·1
Means -	58·1	−1·6	−2·2	55·6	−0·7	53·3	+0·4	16·1	−3·8	60·7	0·408	+0·004	4·6	0·0

1879. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 38 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 38 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 38 years.	Rain. Amount.	Rain. Diff. from average of 64 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
July -	84	+9	29·628	−0·177	529	+ 1	3·7	+1·2	314	0	0	31	40·0	58·5
August	85	+9	29·672	−0·114	528	0	5·2	+2·8	285	0	0	31	41·0	56·2
Sept. -	84	+4	29·802	−0·003	534	+ 1	2·8	+0·4	221	0	3	27	36·0	57·0
Means -	84	+7	29·701	−0·098	530	+ 1	Sum 11·7	Sum +4·4	Mean 273	Sum 0	Sum 3	Sum 89	Lowest 36·0	Highest 58·5

NOTE.—In reading this table it will be borne in mind that the plus sign (+) signifies *above* the average, and that the minus sign (−) signifies *below* the average.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter were as follows:—

Direction of Wind.	July. Average.	July. 1879.	July. Departure from Average.	August. Average.	August. 1879.	August. Departure from Average.	September. Average.	September. 1879.	September. Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	2½	5	+2½	2	1	−1	1½	4	+2½
N.	3½	1	−2½	3	0	−3	3½	2	−1½
N.E.	3¼	0	−3¼	3	1	−2	5½	4	−1½
E.	1½	3	+1½	1½	1	− ½	1½	3	+1½
S.E.	½	2	+1½	1½	3	+1½	1¼	3	+1¾
S.	2½	4	+1½	3	5	+2	2	2	0
S.W.	10½	6	−4½	10½	11	+ ½	7½	8	+ ½
W.	4	10	+6	3½	9	+5½	2½	3	+ ½
Calm (nearly.)	2½	0	−2½	3½	0	−3½	4½	1	−3½

The sign plus (+) denotes excesses over averages; the largest numbers affected with this sign in the month of July are opposite to the N.W., and W., in August to the S., and W., and in September to the N.W.

The sign minus (−) denotes defects below averages; the largest numbers affected with this sign in the month of July are opposite to the N., N.E., and S.W., and in the months of August and September to the N. and N.E.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING SEPTEMBER 30TH, 1879.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the sixth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1879. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean of all Highest.	Temperature of Air in Month. Mean of all Lowest.	Temperature of Air in Month. Mean Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.=100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.M.S.	204	July	29·668	0·906	72·0	50·5	21·5	62·1	51·5	10·6	56·0	52·1	·391	4·4	0·6	87	532	–	–	1·8	6	2	10	13	3·7	6·3	20	3·18
		Aug.	29·657	0·595	72·5	49·0	23·5	65·8	53·6	12·2	59·0	55·8	·445	5·0	0·6	90	528	–	–	1·6	3	3	13	12	–	6·0	23	5·23
		Sept.	29·753	0·977	67·5	40·0	27·5	62·0	50·1	11·9	55·8	54·3	·422	4·8	0·2	94	533	–	–	1·3	8	7	7	8	–	5·4	19	5·06
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	July	29·843	0·798	75·0	49·0	26·0	65·9	53·3	12·6	57·5	52·7	·399	4·4	0·9	84	533	75·8	49·7	2·1	7	2	8	14	6·0	5·0	23	5·50
		Aug.	29·876	0·755	73·0	38·0	35·0	67·3	53·7	13·6	59·4	53·0	·402	4·5	1·2	80	532	88·4	43·3	1·9	6	5	12	8	6·4	5·0	24	7·33
		Sept.	29·990	1·362	–	37·0	–	66·3	49·5	16·8	57·0	51·2	·377	4·2	1·0	81	537	81·9	49·9	1·7	8	5	9	8	4·3	4·1	11	4·22
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	July	29·807	0·798	74·0	47·0	27·0	64·1	53·5	10·6	56·0	53·3	·408	4·6	0·4	91	534	–	–	2·8	7	2	6	16	–	7·3	20	3·58
		Aug.	29·786	0·604	73·0	41·0	32·0	66·1	54·3	11·8	57·7	53·9	·417	4·6	0·7	87	532	–	–	2·7	5	4	10	12	–	6·8	24	5·33
		Sept.	29·926	1·060	70·0	35·0	35·0	63·8	48·3	15·5	54·5	51·4	·379	4·3	0·5	89	538	–	–	2·1	8	5	7	10	–	6·4	16	3·32
PLYMOUTH (Devon), John Merrifield, Esq., F.R.A.S., F.M.S., LL.D.	69	July	29·853	0·779	74·0	50·5	23·5	63·9	53·8	10·1	57·1	53·1	·404	4·5	0·7	86	534	–	–	1·6	4	2	9	16	–	8·5	20	5·43
		Aug.	29·846	0·708	71·0	46·0	25·0	64·8	55·5	9·3	59·0	55·2	·436	4·9	0·7	88	532	–	–	1·9	4	6	7	14	–	8·2	26	5·94
		Sept.	29·977	1·015	67·0	39·5	27·5	62·2	50·0	12·2	55·4	51·1	·377	4·2	0·7	86	538	–	–	1·2	4	7	8	11	–	6·8	16	4·48
TORQUAY, Babbacombe (Devon), Edwin E. Glyde, Esq., F.M.S.	305	July	29·528	0·849	70·6	47·6	23·0	63·6	51·9	11·7	56·1	51·8	·385	4·3	0·7	86	530	130·0	46·4	1·4	3	2	9	17	3·4	7·7	20	3·55
		Aug.	29·530	0·861	71·1	45·8	25·3	64·5	53·9	10·6	57·9	53·1	·404	4·5	0·9	84	527	128·8	49·1	1·5	4	5	8	14	4·0	7·6	23	5·49
		Sept.	29·649	1·096	68·4	39·2	29·2	62·1	49·6	12·5	55·3	49·8	·358	4·0	0·9	82	533	121·5	42·2	1·2	7	4	7	12	3·5	6·5	16	3·48
VENTNOR, Isle of Wight (Royal National Hospital for Consumption), Hartley Sagar, Esq.	150	July	29·774	0·764	68·9	49·9	19·0	62·6	53·5	9·1	56·9	55·0	·433	4·8	0·4	93	533	–	–	–	3	2	8	18	5·0	6·8	22	3·73
		Aug.	29·792	0·524	69·2	52·1	17·1	65·1	56·1	9·0	58·9	57·9	·480	5·4	0·2	96	531	–	–	–	1	4	10	16	4·9	6·7	18	5·58
		Sept.	29·913	0·954	68·6	43·2	25·4	63·5	53·2	10·3	57·1	55·6	·442	4·9	0·3	95	535	–	–	–	4	8	7	11	4·7	6·9	16	3·46
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	July	29·640	0·830	72·6	49·4	23·2	65·8	54·6	11·2	57·5	55·2	·437	4·8	0·5	92	530	113·4	50·6	0·4	2	3	12	14	–	7·6	17	3·52
		Aug.	29·669	0·638	75·3	50·4	24·9	68·2	56·7	11·5	60·2	57·6	·476	5·3	0·5	92	527	112·8	52·8	0·2	2	3	14	12	–	7·0	17	5·01
		Sept.	29·775	0·965	74·2	43·6	30·6	66·2	52·8	13·4	57·6	55·3	·439	4·9	0·5	92	532	109·6	47·8	0·1	6	6	10	8	–	6·2	12	3·47
EASTBOURNE (Sussex), Miss W. L. Hall.	12	April	29·631	1·270	58·5	27·2	31·3	53·2	37·8	15·4	44·8	40·0	·248	2·8	0·5	84	544	108·6	29·1	0·2	7	8	9	6	1·7	–	18	3·43
		May	29·952	0·890	68·8	30·1	38·7	59·7	41·1	18·6	49·1	42·2	·269	3·0	1·0	77	545	115·0	32·7	0·4	9	6	7	9	2·1	–	20	2·23
		June	29·785	0·670	72·4	43·2	29·2	65·2	50·8	14·4	56·8	53·1	·402	4·5	0·7	87	533	121·3	42·5	0·7	6	2	5	17	5·3	–	21	4·30
		July	29·760	0·750	77·2	47·5	29·7	66·7	52·8	13·9	58·3	55·5	·441	4·9	0·6	89	531	119·2	44·2	0·7	10	2	3	16	4·2	–	17	3·66
		Aug.	29·802	0·600	78·6	47·3	31·3	68·6	55·6	13·0	61·0	56·9	·464	5·1	0·9	87	529	119·4	46·4	0·5	0	4	7	20	2·0	–	19	4·05
		Sept.	29·928	0·880	70·5	40·7	29·8	65·4	50·4	15·0	57·6	52·7	·398	4·4	0·9	83	535	107·6	41·3	0·3	7	7	5	11	1·2	–	12	3·13
BOURNEMOUTH, South Bourne, (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	95	July	29·717	0·826	72·2	49·0	23·2	62·6	53·5	9·1	56·9	51·9	·387	4·3	0·9	83	532	–	–	3·3	5	3	6	17	–	7·4	20	3·40
		Aug.	29·745	0·618	72·7	49·7	23·0	64·1	55·5	8·6	58·7	53·9	·417	4·6	0·9	84	531	–	–	1·6	2	6	9	14	–	6·1	20	4·95
		Sept.	29·874	0·982	65·8	39·1	26·7	62·0	50·4	11·6	55·9	50·9	·374	4·2	0·8	84	536	–	–	2·8	10	6	4	10	–	5·4	17	3·31
BRIGHTON (Sussex), F. E. Sawyer, Esq., F.M.S.	206	July	29·608	0·954	74·5	47·7	26·8	67·5	52·8	14·7	58·5	53·1	·402	4·4	1·1	82	528	105·8	50·4	1·0	4	2	7	18	–	8·1	20	2·64
		Aug.	29·647	0·729	77·0	49·3	27·7	68·3	55·4	12·9	60·4	55·0	·428	4·8	1·1	83	525	109·0	53·5	1·3	2	3	12	14	–	6·2	17	5·35
		Sept.	29·771	1·044	70·0	40·6	29·4	64·5	50·5	14·0	56·7	51·3	·379	4·2	0·8	82	533	98·4	47·8	0·9	6	5	9	10	–	6·6	13	3·20
SALISBURY (Wilton House), Wilts, T. Challis, Esq.	186	July	29·616	0·804	77·0	43·0	34·0	68·0	50·1	17·9	57·5	52·7	·399	4·4	0·9	84	529	111·0	48·4	1·7	4	3	8	16	–	7·8	21	3·75
		Aug.	29·639	0·776	79·0	40·0	39·0	69·6	51·1	18·5	59·1	54·7	·429	4·8	0·8	86	528	111·1	48·3	1·5	4	3	8	16	–	6·7	21	4·95
		Sept.	29·753	1·024	74·0	34·0	40·0	65·9	45·7	20·2	55·1	50·4	·366	4·1	0·8	85	535	104·7	42·6	1·2	8	6	7	9	–	6·0	16	3·54
BARNSTAPLE (Devon), William Knill, Esq.	43	July	29·781	0·820	80·0	51·0	29·0	66·5	54·8	11·7	58·5	53·7	·414	4·6	0·9	84	531	–	–	1·6	2	3	8	18	–	5·0	24	3·57
		Aug.	29·779	0·770	79·0	45·0	34·0	68·7	56·7	12·0	60·8	54·5	·425	4·8	1·2	80	529	–	–	1·5	1	4	14	12	–	4·3	21	5·52
		Sept.	29·920	1·040	75·0	40·0	35·0	65·0	52·8	12·2	57·7	52·6	·397	4·4	0·9	83	535	–	–	1·2	5	5	10	10	–	2·8	18	3·66

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1879. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean of all Highest.	Temperature of Air in Month. Mean of all Lowest.	Temperature of Air in Month. Mean Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.=100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
CATERHAM (Surrey), The Metropolitan Asylum, James Adam, Esq., M.D.	608	July	29·163	0·900	75·0	43·2	31·8	63·0	49·6	13·4	55·4	52·6	·398	4·5	0·5	91	533	–	42·1	3·2	6	3	5	17	–	5·0	19	3·95
		Aug.	29·212	0·800	75·2	45·4	29·8	65·4	51·9	13·6	57·7	54·1	·420	4·7	0·7	88	522	–	43·3	3·3	2	3	13	13	–	6·2	19	5·47
		Sept.	29·315	0·950	66·0	38·5	27·5	61·5	48·3	13·2	54·4	49·6	·355	4·0	0·8	83	527	–	–	1·6	6	6	8	10	–	6·0	8	3·53
RAMSGATE (Kent), Rev. E. Douglas O'Gara, O.S.B., F.M.S.	108	July	29·799	0·893	79·2	47·1	32·1	64·1	52·5	11·6	57·1	52·5	·396	4·4	0·8	85	533	112·6	49·4	1·3	3	5	11	12	–	7·6	17	3·20
		Aug.	29·777	0·764	78·2	51·0	27·2	66·9	55·8	11·1	59·9	54·9	·430	4·8	1·0	84	530	111·9	51·4	1·4	4	5	13	9	–	6·1	20	3·19
		Sept.	29·932	1·071	69·8	42·0	27·8	63·2	51·7	11·5	56·9	52·3	·392	4·4	0·8	85	535	105·2	47·1	1·2	7	4	8	11	–	5·5	13	3·69
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	July	29·602	0·845	79·6	43·9	35·7	68·5	51·5	15·0	57·5	52·2	·391	4·4	0·9	83	529	118·5	48·5	1·0	4	1	12	14	2·8	8·0	19	2·81
		Aug.	29·615	0·785	77·1	44·2	32·9	67·9	52·4	15·5	59·0	53·9	·416	4·7	0·9	83	528	113·8	49·0	1·1	3	2	13	13	3·1	5·2	17	7·05
		Sept.	29·772	0·972	71·5	36·6	34·7	64·6	47·5	17·1	55·6	51·3	·378	4·3	0·7	86	534	104·9	43·9	0·8	4	6	10	10	1·7	5·9	11	2·43
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	Sept.	29·836	0·994	75·0	36·0	37·0	65·5	47·3	18·2	55·3	48·8	·346	3·9	1·1	80	536	100·1	42·8	0·6	11	6	9	4	3·5	6·5	14	2·93
BATH (Somerset), St. Gregory's College, Downside, Rev. T. L. Almond, O.S.B., F.M.S.	596	July	29·170	0·858	76·4	46·3	30·1	62·0	50·7	11·3	54·9	50·7	·369	4·1	0·7	85	524	111·5	47·8	1·8	3	2	9	17	–	7·8	–	5·46
		Aug.	29·190	0·771	76·6	45·0	31·6	64·5	52·2	12·3	57·0	52·6	·397	4·4	0·8	85	521	111·0	50·6	1·6	4	3	11	13	–	6·7	23	9·10
		Sept.	29·322	1·018	69·4	40·2	29·2	61·2	47·8	13·4	53·5	49·2	·349	3·9	0·7	85	529	102·3	44·7	1·4	7	5	9	9	–	6·2	20	5·36
MARLBOROUGH, (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	474	July	29·507	0·864	77·5	44·0	33·5	65·2	51·5	13·7	56·3	51·8	·387	4·3	0·7	85	525	113·5	48·3	–	2	2	8	19	–	8·9	20	4·16
		Aug.	29·333	0·764	77·5	44·3	33·2	66·7	52·4	14·3	59·0	53·3	·407	4·6	1·0	82	523	108·5	48·0	1·1	5	8	4	14	–	6·9	19	6·62
		Sept.	29·461	0·994	70·7	35·2	35·5	63·5	47·0	16·5	55·1	49·4	·353	3·9	1·0	82	529	106·5	40·5	0·6	9	6	7	8	–	6·6	18	3·97
BLACKHEATH (London), James Glaisher, Esq., F.R.S.	160	July	29·624	0·890	80·4	45·0	35·4	66·0	51·1	14·9	57·2	52·0	·389	4·3	0·9	83	530	112·9	47·6	1·0	3	4	8	16	–	7·3	18	3·62
		Aug.	29·668	0·851	77·8	46·8	31·0	68·2	53·6	14·6	59·8	52·7	·397	4·4	1·3	78	528	115·3	49·8	1·3	1	3	12	15	–	6·1	19	5·12
		Sept.	29·801	1·032	75·1	38·8	36·3	65·4	49·2	16·2	56·0	50·6	·370	4·2	0·8	82	534	113·6	45·1	0·7	6	7	8	9	–	6·1	14	2·88
STREATLEY (Berks), "The Vicarage," Rev. J. Slatter, M.A., F.R.S., F.M.S.	150	July	29·633	0·889	80·0	47·0	33·0	66·2	51·4	14·8	57·8	53·0	·404	4·5	0·9	84	529	–	–	2·1	7	3	7	14	–	8·3	18	3·83
		Aug.	29·671	0·627	79·2	44·8	34·4	68·6	52·6	16·0	59·5	53·7	·413	4·6	0·9	82	528	–	–	2·0	4	7	9	11	–	6·5	19	5·66
		Sept.	29·834	0·979	71·3	37·4	33·9	64·5	47·4	17·1	55·5	50·1	·363	4·1	0·9	83	536	–	–	1·5	10	5	6	9	–	5·4	15	2·58
CAMDEN SQUARE (London), G. J. Symons, Esq., F.R.S., F.M.S.	123	July	29·670	0·892	80·2	45·6	34·6	67·7	52·1	15·6	58·1	52·4	·395	4·4	1·0	81	530	107·7	49·7	–	4	4	6	17	–	8·0	20	4·17
		Aug.	29·713	0·782	78·3	44·8	33·5	69·9	53·8	16·1	60·3	53·4	·408	4·6	1·3	78	528	108·7	50·9	–	6	3	10	12	–	6·9	16	5·11
		Sept.	29·842	1·000	72·6	39·6	33·0	65·6	49·5	16·1	56·5	49·7	·358	4·0	1·1	78	535	101·2	46·2	–	9	4	7	10	–	6·0	12	3·67
OXFORD (The Observatory), E. J. Stone, Esq., M.A., F.R.S.	210	July	29·577	0·824	75·2	47·3	27·9	63·6	50·6	13·0	56·9	53·2	·406	4·5	0·7	88	529	109·8	48·8	1·0	3	2	9	17	1·0	8·5	19	3·38
		Aug.	29·656	0·994	75·7	40·8	34·9	66·0	53·0	13·0	58·7	55·1	·432	4·8	0·7	88	529	113·3	49·3	1·2	3	5	10	13	2·3	7·8	17	5·05
		Sept.	29·717	0·951	68·0	40·3	27·7	61·9	49·1	12·8	55·5	52·6	·397	4·4	0·5	90	533	109·5	44·2	1·0	7	4	9	10	1·5	7·1	15	2·89
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	July	29·527	0·883	80·3	44·2	36·1	66·8	49·5	17·3	56·2	53·7	·413	4·6	0·4	91	529	–	–	–	4	3	10	14	–	7·9	18	3·46
		Aug.	29·571	0·774	77·4	44·2	33·2	70·1	50·9	19·2	58·8	54·2	·422	4·7	0·9	85	527	–	–	–	3	4	12	12	–	6·4	15	5·44
		Sept.	29·702	0·971	72·3	37·7	34·6	64·1	45·9	18·2	54·0	49·0	·347	3·9	0·8	83	535	–	–	–	6	4	11	9	–	6·1	10	2·28
BEDFORD, Cardington, Mr. J. MacLaren, Assistant to S. C. Whitbread, Esq., M.P.	105	July	29·634	0·870	79·6	43·6	36·0	67·9	51·4	16·5	58·1	55·6	·443	4·9	0·5	91	529	103·0	49·5	2·3	4	3	8	16	–	8·4	22	4·20
		Aug.	29·674	0·740	77·0	45·4	31·6	69·3	52·3	17·0	59·8	55·5	·441	4·9	0·9	86	528	103·6	47·5	1·9	2	4	8	17	–	6·0	15	4·50
		Sept.	29·822	0·976	70·0	37·0	33·0	63·5	47·1	16·4	54·9	51·5	·382	4·3	0·6	89	536	96·9	42·1	1·3	5	7	7	11	–	6·2	14	2·60
CAMBRIDGE (Trinity College), J. W. L. Glaisher, Esq., M.A., F.R.S.	40	July	29·705	0·882	81·5	46·0	35·5	68·8	51·4	17·4	58·0	53·6	·413	4·6	0·8	85	531	127·9	47·5	1·4	6	3	13	9	–	7·6	22	3·49
		Aug.	29·750	0·754	78·0	44·0	34·0	71·3	52·4	18·9	60·1	55·0	·434	4·8	1·0	84	529	135·1	48·8	1·4	5	2	13	11	–	6·4	17	5·92
		Sept.	29·898	0·986	73·8	37·8	36·0	66·6	47·2	19·4	55·8	51·3	·381	4·3	0·7	86	536	120·7	41·0	1·0	6	6	7	11	–	5·6	13	2·76
RUGBY (Warwickshire), Stockton, "The Rectory," W. Tuckwell, Esq.	289	July	29·451	0·830	78·5	43·5	35·0	66·4	50·0	16·4	57·0	52·2	·391	4·4	0·8	84	527	79·0	–	0·4	4	4	11	12	5·2	7·3	19	3·61
		Aug.	29·511	0·752	79·0	40·0	39·0	68·7	50·0	18·7	58·4	52·7	·399	4·4	1·0	81	527	78·3	–	0·4	3	7	12	9	6·6	6·5	16	3·76
		Sept.	29·615	0·946	70·0	34·5	35·5	63·5	44·1	19·4	53·5	49·2	·351	3·9	0·7	87	534	72·4	–	0·4	7	6	8	9	5·1	5·9	15	3·32
LOWESTOFT (Suffolk), S. H. Miller, Esq., F.R.A.S., F.M.S.	85	July	29·656	0·904	73·8	46·1	27·7	63·2	51·7	11·5	56·4	51·4	·380	4·3	0·8	83	532	107·7	49·3	1·2	5	2	7	17	8·0	7·8	20	4·75
		Aug.	29·722	0·800	71·2	47·0	24·2	65·9	53·5	12·4	58·6	53·3	·407	4·5	1·0	83	530	112·8	50·6	1·1	3	4	9	15	8·0	6·1	18	3·95
		Sept.	29·845	1·232	72·8	40·0	32·8	62·5	49·5	13·0	55·8	49·2	·352	3·9	1·0	79	536	106·8	46·3	1·0	5	7	7	11	8·0	5·5	14	3·38

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1879. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.=100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
SOMERLEYTON (Suffolk), The Rectory, Rev. C. J. Steward, F.M.S.	50	July	29·713	0·912	80·0	45·0	35·0	65·8	51·2	14·6	57·0	54·2	·420	4·6	0·6	90	532	–	–	1·1	5	4	10	12	6·2	7·5	17	5·23
		Aug.	29·776	0·722	76·0	46·1	29·9	69·2	53·0	16·2	59·2	56·2	·452	5·0	0·6	90	530	–	–	1·0	4	6	11	10	6·4	5·0	19	4·65
		Sept.	29·905	1·112	74·0	37·8	36·2	64·4	48·4	16·0	55·6	52·4	·394	4·4	0·7	88	537	–	–	0·9	5	8	9	8	6·3	4·7	14	3·48
WOLVERHAMPTON (Staffordshire), Wrottesley, E. Simpson, Esq.	500	July	29·187	0·832	76·2	45·9	30·3	61·2	50·1	11·1	54·4	49·6	·355	4·0	0·8	84	525	–	–	–	6	5	9	11	–	8·4	18	5·28
		Aug.	29·292	0·744	76·8	43·0	33·8	65·0	50·4	14·6	55·9	50·9	·375	4·2	0·8	84	525	–	–	–	6	7	8	10	–	7·1	17	5·36
		Sept.	29·385	1·018	68·2	37·4	30·8	60·4	46·1	14·3	52·2	47·2	·325	3·7	0·7	83	531	–	–	–	5	7	12	6	–	6·6	16	2·81
LEICESTER (Town Museum), W. J. Harrison, Esq., F.G.S.	238	July	29·500	0·879	75·6	46·5	29·1	64·2	51·7	12·5	56·9	51·3	·378	4·2	1·0	82	528	117·1	45·8	1·0	5	3	11	12	–	8·7	23	3·97
		Aug.	29·528	0·884	75·2	43·5	31·7	65·1	51·9	14·2	58·4	52·5	·397	4·4	1·1	81	527	117·8	45·3	1·0	5	4	10	12	–	7·3	19	4·54
		Sept.	29·679	1·030	69·1	35·2	33·9	61·4	46·9	14·5	54·0	48·1	·334	3·8	0·9	80	535	104·3	41·3	0·9	5	6	10	9	–	7·8	15	3·04
NOTTINGHAM (Notts), M.O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	183	July	29·528	0·768	80·1	45·6	34·5	68·4	51·0	17·4	57·7	55·0	·434	4·8	0·6	91	527	108·8	50·3	0·4	3	5	10	13	3·0	7·5	18	2·99
		Aug.	29·566	0·764	78·0	41·8	36·2	70·0	51·0	19·0	59·0	54·8	·430	4·8	0·8	87	527	100·0	50·7	0·4	2	7	13	9	3·0	6·3	18	3·34
		Sept.	29·721	1·078	71·5	32·9	38·6	64·2	46·2	18·0	54·2	49·6	·355	4·0	0·7	84	535	92·7	45·9	0·3	4	9	9	8	1·8	5·3	14	2·65
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	100	July	29·645	0·940	74·4	50·0	24·4	61·2	53·1	8·1	55·7	53·0	·404	4·6	0·4	90	532	–	–	0·9	4	4	6	14	–	8·2	19	3·33
		Aug.	29·647	1·040	75·2	48·0	27·2	63·6	52·9	10·7	57·5	50·8	·371	4·1	1·2	78	530	–	–	0·9	5	3	7	16	–	6·0	15	6·85
		Sept.	29·793	1·160	67·0	42·0	25·0	60·0	50·4	9·6	54·6	49·9	·358	4·0	0·8	87	536	–	–	0·8	6	2	8	14	–	6·6	17	3·00
KELSTERN GRANGE, near Louth (Lincolnshire), D. Grant Briggs, Esq., F.M.S.	393	July	29·325	0·908	75·9	42·9	33·0	63·6	49·4	14·2	54·8	50·5	·367	4·1	0·8	86	527	117·8	47·8	1·3	5	5	8	13	7·3	7·5	19	3·26
		Aug.	29·368	0·917	71·5	41·7	29·8	65·0	49·7	15·3	56·3	51·4	·379	4·3	0·9	84	527	115·7	48·2	1·2	2	6	11	11	8·2	6·3	17	3·01
		Sept.	29·509	1·085	69·4	37·4	32·0	60·3	46·2	14·1	52·6	47·4	·328	3·7	0·8	82	533	106·1	44·2	1·0	5	5	10	10	7·5	5·5	16	3·47
LIVERPOOL, The Observatory, John Hartnup, Esq., F.R.A.S.	197	July	29·523	0·888	73·1	49·0	24·1	61·6	52·7	8·9	55·5	52·9	·403	4·5	0·4	91	530	–	–	1·5	5	5	4	17	–	7·9	22	2·89
		Aug.	29·544	0·950	75·9	47·8	28·1	63·6	53·3	10·3	58·8	53·9	·416	4·6	1·0	83	527	–	–	1·4	4	6	7	14	–	6·4	21	6·42
		Sept.	29·693	1·148	68·0	40·6	27·4	60·0	50·0	10·0	53·8	49·3	·350	4·0	0·7	85	535	–	–	1·1	3	6	8	14	–	7·1	16	2·87
BOLTON, Sharples (Lancashire), Rev. T. Mackereth, F.R.A.S., F.M.S.	481	July	29·212	0·948	72·1	41·9	30·2	61·4	47·5	13·9	53·6	49·1	·349	3·9	0·7	83	527	74·9	44·0	2·0	6	5	7	13	8·4	9·3	25	8·45
		Aug.	29·231	1·028	75·7	40·9	34·8	63·9	48·0	15·9	55·2	49·8	·358	4·0	0·9	82	525	77·4	44·6	1·5	5	5	10	11	6·2	7·8	21	10·63
		Sept.	29·371	1·144	68·0	34·9	33·1	59·7	43·7	16·0	51·7	45·5	·305	3·5	0·9	79	532	70·4	38·8	1·4	6	3	10	11	4·2	8·2	19	3·95
HALIFAX, Bermerside Observatory (Yorkshire), E. J. Crossley, Esq., F.R.A.S.	530	July	29·172	0·890	75·5	45·0	30·5	67·7	50·6	17·1	55·3	51·4	·381	4·3	0·7	87	524	102·2	48·4	0·8	4	7	10	10	–	8·2	23	5·39
		Aug.	—	—	74·0	46·0	28·0	64·6	50·1	14·5	55·4	50·3	·366	4·1	0·8	84	—	100·6	–	1·2	1	7	14	9	–	7·2	23	5·89
		Sept.	29·341	1·150	68·2	33·0	35·2	61·1	45·0	16·1	52·4	48·4	·341	3·8	0·6	86	530	95·8	–	0·5	0	7	11	12	–	6·9	12	1·89
HULL (Yorkshire), The People's Park, Mr. E. Peake.	12	July	29·722	0·888	79·0	45·0	34·0	65·3	50·7	14·6	56·8	50·8	·372	4·0	1·0	80	532	88·1	47·5	1·3	9	4	7	11	0·2	7·6	19	3·53
		Aug.	29·760	0·920	73·0	44·0	29·0	66·9	51·4	15·5	58·6	51·8	·385	4·3	1·2	78	531	89·7	47·2	1·2	4	3	12	12	0·6	6·7	19	3·54
		Sept.	29·902	1·142	72·0	32·0	40·0	62·2	46·8	15·4	54·7	47·5	·328	3·7	1·1	76	538	85·4	41·9	1·1	5	5	4	16	1·1	7·5	14	2·57
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.S., F.M.S., F.R.A.S.	363	July	29·345	0·937	74·2	42·8	31·4	63·2	50·4	12·8	54·7	50·6	·368	4·1	0·7	86	528	110·7	50·2	1·5	4	4	10	13	–	9·5	26	6·79
		Aug.	29·366	0·945	77·0	41·0	36·0	65·2	49·7	15·5	55·9	50·7	·372	4·2	0·8	84	527	109·7	49·2	1·3	1	4	14	12	–	8·5	22	7·71
		Sept.	29·516	1·176	71·0	34·0	37·0	61·4	46·3	15·1	52·9	47·3	·327	3·7	0·8	81	533	106·9	45·1	1·3	3	5	8	14	–	7·3	20	3·40
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	366	July	29·330	0·872	74·4	46·6	27·8	62·7	51·8	10·9	55·7	49·5	·356	4·0	1·0	80	526	79·5	–	1·4	8	4	5	14	–	7·3	29	4·40
		Aug.	29·334	0·838	72·5	45·4	27·1	65·4	52·6	12·8	57·4	50·1	·363	4·0	1·2	77	525	82·6	–	1·5	5	2	10	14	–	6·9	27	4·41
		Sept.	29·516	1·158	67·0	36·3	30·7	60·4	48·4	12·0	53·2	46·4	·315	3·5	1·0	78	533	74·1	–	1·1	5	7	7	11	–	6·4	24	1·44
LEEDS (Yorkshire), The Philosophical Hall, H. Crowther, Esq.	137	July	29·592	0·866	77·0	45·0	32·0	64·2	50·0	14·2	55·7	48·5	·343	3·8	1·1	78	531	75·6	–	2·0	6	5	5	15	–	5·2	22	5·03
		Aug.	29·602	0·910	78·0	42·0	36·0	68·0	51·7	16·3	58·6	49·9	·358	4·0	1·5	73	528	81·4	–	1·8	3	7	5	16	–	4·2	16	4·10
		Sept.	29·773	1·114	71·0	35·0	36·0	64·6	48·0	16·6	55·0	47·6	·330	3·7	1·2	76	535	77·2	–	1·8	3	7	8	12	–	4·3	15	2·06
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.M.S., F.R.A.S.	146	July	29·534	1·038	73·9	46·7	27·2	62·2	52·2	10·0	55·5	50·3	·365	4·1	0·9	83	530	101·9	50·0	0·6	5	7	8	11	2·6	9·0	26	5·63
		Aug.	29·540	1·114	80·3	39·0	41·3	64·9	51·8	13·1	57·1	50·4	·366	4·1	1·1	78	529	110·9	47·7	0·6	5	4	7	15	2·8	7·9	19	4·26
		Sept.	29·703	1·098	70·0	34·1	35·9	61·0	47·5	13·5	53·4	47·4	·327	3·7	0·9	80	536	100·9	41·6	0·5	6	6	8	10	2·1	6·8	19	4·92
ALLENHEADS (Northumberland), Mr. Thos. Wm. Ridley, Assistant to W. B. Beaumont, Esq., M.P.	1360	July	28·298	0·892	–	43·0	–	–	47·2	–	–	–	–	–	–	–	–	–	–	1·3	–	–	–	–	–	8·5	27	7·05
		Aug.	28·391	0·937	–	38·0	–	–	47·8	–	–	–	–	–	–	–	–	–	–	1·8	–	–	–	–	–	7·2	22	4·70
		Sept.	28·471	1·062	–	31·0	–	–	42·7	–	–	–	–	–	–	–	–	–	–	1·4	–	–	–	–	–	5·7	15	1·36

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1879. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.=100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
SILLOTH (Cumberland), "The Rectory," Rev. F. Redford, M.A., F.R.A.S., F.M.S.	28	July	29·672	1·039	72·3	45·2	27·1	62·4	51·4	11·0	55·7	50·5	·368	4·1	0·8	83	532	101·2	52·5	1·2	2	7	3	19	6·8	8·4	24	4·62
		Aug.	29·679	1·247	77·5	39·5	38·0	65·3	51·2	14·1	57·2	52·8	·400	4·5	0·8	85	531	113·6	45·7	1·3	2	4	5	20	7·2	5·6	18	3·89
		Sept.	29·816	1·067	70·3	33·9	36·4	60·7	46·5	14·2	53·0	48·4	·339	3·8	0·7	84	538	101·9	41·3	1·2	3	4	4	19	8·3	6·0	17	4·23
CARLISLE, Spital (Cumberland), Isaac Cartmell, Esq., F.M.S.	114	July	29·561	1·050	79·2	43·0	36·2	65·2	50·6	14·6	56·0	50·2	·365	4·1	0·9	81	539	93·2	45·7	0·8	4	7	3	17	3·1	9·1	27	4·86
		Aug.	29·569	1·165	80·8	39·5	41·3	68·0	49·4	18·6	57·3	50·5	·364	4·1	1·2	78	529	100·5	44·7	0·9	2	8	5	16	3·1	6·7	20	4·13
		Sept.	29·727	1·079	72·2	31·6	40·6	61·9	45·2	16·7	52·3	45·8	·309	3·5	1·0	79	538	90·6	40·4	1·2	4	9	5	12	–	5·3	16	2·40
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	July	29·559	0·934	74·0	48·0	26·0	63·4	53·0	10·4	56·4	50·6	·370	4·1	0·9	81	530	77·7	47·8	1·3	5	11	3	12	–	6·1	27	3·84
		Aug.	29·586	0·958	75·0	47·0	28·0	66·1	53·7	12·4	58·0	51·7	·385	4·3	1·0	80	529	79·9	48·7	1·3	3	9	6	13	–	5·3	21	4·01
		Sept.	29·736	1·090	70·0	35·0	35·0	62·1	48·5	13·6	53·6	48·5	·341	3·8	0·8	82	536	75·4	42·7	1·2	6	3	7	14	–	5·3	15	1·07
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	July	29·610	0·940	70·7	46·5	24·2	59·4	50·5	8·9	53·8	49·5	·353	4·0	0·7	85	534	–	50·2	1·8	9	7	6	9	–	7·5	23	4·35
		Aug.	29·645	1·107	66·0	45·0	21·0	61·5	51·4	10·1	55·1	50·4	·368	4·1	0·8	85	533	–	51·0	1·4	8	5	4	14	–	6·4	21	3·42
		Sept.	29·812	1·087	65·0	37·0	28·0	58·1	46·8	11·3	51·5	46·7	·319	3·6	0·7	88	540	–	46·4	1·5	8	2	3	7	–	5·5	14	0·73
WARINGSTOWN, Co. Down (Ireland), Thomas Waring, Esq.	191	Jan.	29·725	0·928	50·0	14·0	36·0	37·5	26·4	11·1	32·2	28·2	·155	1·9	0·3	85	560	48·0	24·9	2·3	5	8	10	8	–	5·1	13	2·52
		Feb.	29·238	1·286	52·0	21·0	31·0	44·0	31·6	12·4	37·5	35·6	·209	2·5	0·2	93	545	66·0	29·2	2·4	5	9	4	10	–	6·0	23	1·68
		Mar.	29·638	1·166	57·0	23·0	34·0	49·5	33·5	16·0	40·6	37·0	·220	2·5	0·4	90	550	79·4	30·9	2·9	5	9	4	13	–	5·4	24	2·15
		Apr.	29·459	1·300	61·0	25·0	36·0	54·1	35·6	18·5	43·1	39·8	·246	2·8	0·4	88	543	97·4	32·3	2·5	9	7	6	8	–	4·6	14	1·65
		May	29·753	0·850	69·0	27·0	42·0	59·9	39·1	20·8	47·7	42·9	·276	3·2	0·6	85	543	101·6	35·4	2·7	9	6	4	12	–	4·5	20	3·96
		June	29·420	0·706	75·0	35·0	40·0	66·4	48·6	17·8	54·5	50·5	·368	4·2	0·6	87	529	107·1	46·6	2·6	5	6	11	8	–	5·6	22	4·54
		July	29·470	1·016	75·0	45·0	40·0	64·8	50·7	14·1	55·1	51·4	·380	4·3	0·7	88	529	104·3	49·3	2·8	8	3	7	13	–	5·7	27	6·30
		Aug.	29·468	1·112	78·0	39·0	39·0	67·0	49·3	17·7	56·0	51·5	·383	4·3	0·7	85	529	105·5	47·2	2·6	6	3	6	16	–	5·2	21	3·59
		Sept.	29·588	1·128	68·0	33·0	35·0	60·5	46·9	13·6	52·6	48·6	·343	3·9	0·6	87	535	94·1	44·6	2·6	3	2	7	18	–	5·2	19	4·48

Second Rain-gauges are placed—

			July.		August.		September.		Total in Quarter.
At Beachy Head,	at the height of	515 feet *above the sea*,	the amount collected was	3·14 inches.	–	3·09 inches.	–	2·47 inches.	– 8·70 inches.
" "	"	495 feet	"	3·44 "	–	3·29 "	–	2·65 "	– 9·38 "
" Strathfield Turgiss,	"	38 feet	*ground* "	1·95 "	–	5·19 "	–	1·72 "	– 8·86 "
" Oxford,	"	22 feet	" "	3·42 "	–	5·31 "	–	3·01 "	– 11·74 "
" Nottingham,	"	39 feet	" "	2·65 "	–	3·21 "	–	2·58 "	– 8·44 "
" Cardington,	"	36 feet	" "	3·74 "	–	3·75 "	–	2·40 "	– 9·89 "

NOTE.—*Barometer Reading*, Helston, 22nd July, 9h. a.m., 29·052 inches, has been altered to 30·052 inches.

Thunderstorms occurred on 10 days in July, 15 days in August, and on 6 days in September.

Thunder was heard but lightning was not seen on 14 days in July, 14 days in August, and on 5 days in September.

Lightning was seen but thunder was not heard on 6 days in July, 12 days in August, and on one day in September.

Solar halos were seen on 8 days in July, 5 days in August, and on 9 days in September.

Lunar halos were seen on 2 nights in August, and 5 nights in September.

Snow fell on the 4th and 8th of July at Bolton, and on the 9th at Cockermouth.

Hail fell on 5 days in July, 8 days in August, and on 3 days in September.

Fog prevailed on 54 days during the quarter.

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Mean Amount of Rain.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									
Guernsey	29·492	72·5	40·0	32·5	63·3	51·7	24·2	11·6	56·9	54·1	·419	4·7	0·5	90	531	—	—	1·6	6	4	10	11	—	5·9	62	[illegible]
Helston	—	—	37·0	—	66·5	52·2	—	14·3	58·0	52·3	·393	4·4	1·0	82	534	82·0	47·6	1·9	7	4	10	10	5·6	4·7	58	[illegible]
Truro	29·485	74·0	35·0	39·0	64·7	52·0	31·3	12·7	56·1	52·9	·401	4·5	0·5	89	535	—	—	2·5	7	4	8	12	—	6·8	63	[illegible]
Plymouth	29·560	74·0	39·5	34·5	63·6	53·1	25·3	10·5	57·2	53·1	·406	4·5	0·7	87	535	—	—	1·6	4	5	8	14	—	7·8	62	[illegible]
Torquay	29·514	71·1	39·2	31·9	63·4	51·8	25·8	11·6	56·4	51·6	·332	4·3	0·8	84	530	126·8	45·9	1·4	5	4	8	14	3·6	7·3	52	[illegible]
Ventnor	29·534	69·2	43·2	26·0	63·7	54·3	20·5	9·4	57·6	56·2	·452	5·0	0·3	95	533	—	—	—	3	5	8	15	4·9	6·8	56	[illegible]
Osborne	29·429	75·3	43·6	31·7	63·7	54·7	26·2	12·0	58·4	56·0	·451	5·0	0·5	92	530	111·9	50·4	0·2	3	4	12	11	—	6·9	45	[illegible]
Eastbourne	29·409	78·6	40·7	37·9	66·9	52·9	30·3	14·0	59·0	55·0	·434	4·8	0·8	86	532	113·4	44·0	0·5	6	4	5	16	2·5	—	48	[illegible]
Bournemouth	29·490	72·7	39·1	33·6	62·9	53·1	24·3	9·8	57·2	52·2	·393	4·4	0·9	84	533	—	—	2·6	6	6	6	14	—	6·3	57	[illegible]
Brighton	29·493	77·0	40·6	36·4	66·8	52·9	28·0	13·9	58·5	53·1	·403	4·5	1·0	82	529	104·4	50·6	1·1	4	3	9	14	—	7·0	50	[illegible]
Salisbury	29·470	79·0	34·0	45·0	67·8	49·0	37·7	18·8	57·2	52·6	·398	4·4	0·8	85	531	108·9	46·4	1·5	5	4	8	14	—	6·8	58	[illegible]
Barnstaple	29·461	80·0	40·0	40·0	66·7	54·8	32·7	11·9	59·6	53·6	·412	4·6	1·0	82	532	—	—	1·4	3	4	11	13	—	4·0	63	[illegible]
Ramsgate	29·548	79·2	42·0	37·2	64·7	53·3	29·0	11·4	58·0	53·2	·406	4·5	0·9	85	533	109·9	49·3	1·3	5	5	11	10	—	6·4	50	[illegible]
Strathfield Turgiss	29·479	79·6	36·6	43·0	66·3	50·4	34·4	15·9	57·4	52·5	·395	4·5	0·8	84	530	112·4	47·1	1·6	4	3	12	12	2·5	6·4	47	[illegible]
Bath	29·495	76·6	40·2	36·4	62·6	50·2	30·3	12·3	55·1	50·8	·372	4·1	0·7	85	525	108·3	47·7	1·6	5	3	10	13	—	6·9	—	[illegible]
Marlborough	29·493	77·5	35·2	42·3	65·1	50·3	34·1	14·8	56·8	51·5	·382	4·3	0·9	83	529	109·5	45·6	—	5	5	6	14	—	7·3	57	[illegible]
Blackheath	29·484	80·4	38·8	41·6	66·5	51·3	34·2	15·2	57·7	51·8	·385	4·3	1·0	81	531	113·9	47·5	1·0	3	5	9	13	—	6·5	51	[illegible]
Streatley	29·482	80·0	37·4	42·6	66·4	50·5	33·8	16·0	57·6	52·3	·393	4·4	0·9	83	531	—	—	1·9	7	5	7	11	—	6·7	52	[illegible]
Camden Square	29·486	80·2	39·6	40·6	67·7	51·8	33·7	15·9	58·3	51·8	·387	4·3	1·1	79	531	105·9	48·9	—	6	4	8	12	—	7·0	48	[illegible]
Oxford	29·463	75·7	40·3	35·4	63·8	50·9	30·2	12·9	57·0	53·6	·412	4·6	0·6	89	530	110·9	47·4	1·1	4	4	9	13	1·6	7·8	51	[illegible]
Royston	29·493	80·3	37·7	42·6	67·0	48·8	34·6	18·2	56·3	52·3	·394	4·4	0·7	86	530	—	—	—	4	4	11	12	—	6·8	45	[illegible]
Cardington	29·400	79·6	37·0	42·6	66·9	50·3	33·5	16·6	57·6	54·2	·422	4·7	0·7	89	531	99·2	46·4	1·8	4	5	8	15	—	6·9	51	[illegible]
Cambridge	29·419	81·5	37·8	43·7	68·9	50·3	35·2	18·6	58·0	53·3	·409	4·6	0·8	85	532	127·9	45·8	1·3	6	4	11	10	—	6·5	52	[illegible]
Rugby	29·456	79·0	34·5	44·5	66·2	48·0	36·5	18·2	56·3	51·4	·380	4·2	0·8	84	529	76·6	—	0·4	5	6	10	10	5·6	6·6	50	[illegible]
Lowestoft	29·452	73·8	40·0	33·8	63·9	51·6	28·2	12·3	56·9	51·3	·382	4·2	0·9	82	533	109·1	48·7	1·1	4	4	8	14	8·0	6·5	53	[illegible]
Somerleyton	29·430	80·0	37·8	42·2	66·5	50·9	33·7	15·6	57·3	54·3	·422	4·7	0·6	89	533	—	—	1·0	5	6	10	10	6·3	5·7	50	[illegible]
Wolverhampton	29·471	76·8	37·4	39·4	62·2	48·9	31·6	13·3	54·2	49·2	·352	4·0	0·8	84	527	—	—	—	6	6	10	9	—	7·4	53	[illegible]
Leicester	29·466	75·6	35·2	40·4	63·9	50·2	31·6	13·7	56·4	50·6	·370	4·1	1·0	81	530	113·1	44·1	1·0	5	4	10	11	—	7·9	57	[illegible]
Llandudno	29·424	75·2	42·0	33·2	61·6	52·1	25·5	9·5	55·9	51·2	·378	4·2	0·8	85	533	—	—	0·9	5	3	7	15	—	6·9	51	[illegible]
Kelstern Grange	29·463	75·9	37·4	38·5	63·0	48·4	31·6	14·6	54·6	49·8	·358	4·0	0·8	84	529	113·2	46·7	1·2	4	5	10	11	7·7	6·4	52	[illegible]
Liverpool	29·408	75·9	40·6	35·3	61·7	52·0	26·5	9·7	56·0	52·0	·390	4·4	0·7	86	531	—	—	1·3	4	6	6	15	—	7·1	59	[illegible]
Bolton	29·449	75·7	34·9	40·8	61·7	46·4	32·7	15·3	53·5	48·1	·337	3·8	0·8	81	528	74·2	42·5	1·6	6	4	9	12	6·3	8·4	65	[illegible]
Halifax	—	75·5	33·0	42·5	64·5	48·6	31·2	15·9	54·4	50·0	·363	4·1	0·7	86	—	99·5	—	0·8	2	7	12	10	—	7·4	58	[illegible]
Hull	29·446	79·0	32·0	47·0	64·8	49·6	34·3	15·2	56·7	50·0	·362	4·0	1·1	78	534	87·7	45·5	1·2	6	4	8	13	0·6	7·3	52	[illegible]
Stonyhurst	29·450	77·0	34·0	43·0	63·3	48·8	34·8	14·5	54·5	49·5	·356	4·0	0·8	84	529	109·1	48·2	1·4	3	4	11	13	—	8·4	68	[illegible]
Bradford	29·446	74·4	36·3	38·1	62·8	50·9	28·5	11·9	55·4	48·7	·345	3·8	1·1	78	528	78·7	—	1·3	6	4	7	13	—	6·9	80	[illegible]
Leeds	29·459	78·0	35·0	43·0	65·6	49·9	34·7	15·7	56·4	48·7	·344	3·8	1·3	76	531	78·1	—	1·9	4	6	6	14	—	4·6	55	[illegible]
Cockermouth	29·400	80·3	34·1	46·2	62·7	50·5	34·8	12·2	55·3	49·4	·353	4·0	1·0	80	532	104·6	46·4	0·6	5	6	8	12	2·5	7·9	64	[illegible]
Allenheads	—	—	31·0	—	—	45·9	—	—	—	—	—	—	—	—	—	—	—	1·5	—	—	—	—	—	7·1	64	[illegible]
Silloth	29·384	77·5	33·9	43·6	62·8	49·7	33·8	13·1	55·3	50·6	·369	4·1	0·8	84	534	105·6	46·5	1·2	2	5	4	19	7·4	6·7	59	[illegible]
Carlisle	29·397	80·8	31·6	49·2	65·0	48·4	39·4	16·6	55·2	48·8	·346	3·9	1·0	79	532	94·8	43·6	1·0	3	8	4	15	—	7·0	65	[illegible]
Bywell	29·358	75·0	35·0	40·6	63·9	51·7	29·7	12·2	56·0	50·8	·365	4·1	0·9	81	532	77·7	46·4	1·3	5	8	5	13	—	5·6	63	[illegible]
North Shields	—	70·7	37·0	33·7	59·7	49·6	24·4	10·1	55·5	48·9	·347	3·9	0·7	86	536	—	49·2	1·6	8	5	4	13	—	6·5	58	[illegible]
Waringstown (Irel.)	29·346	78·0	33·0	45·0	64·1	49·0	34·7	15·1	54·6	50·5	·369	4·2	0·7	87	531	101·3	47·0	2·7	6	3	7	16	—	5·4	62	[illegible]

The highest temperatures of the air were at Cambridge, 81°·5; Carlisle, 80°·8; Blackheath, 80°·4; Cockermouth, 80°·3; and Camden Square, 80°·2.

The lowest temperatures of the air were at Allenheads, 31°·0; Carlisle, 31°·6; Hull, 32°·0; and Halifax, and Waringstown, both 33°·0.

The greatest daily ranges of the temperatures of the air were at Salisbury, 18°·8; Cambridge, 18°·6; Royston and Rugby, both 18°·2; and Cardington and Carlisle, both 16°·6.

The least daily ranges of the temperatures of the air were at Ventnor, 9°·4; Llandudno, 9°·5; Liverpool, 9°·7; and Bournemouth, 9°·8.

The greatest number of rainy days were at Bradford, 80; Stonyhurst, 68; Bolton, 65; and Cockermouth and Allenheads, both 64.

The least number of rainy days were at Royston, 43; Osborne, 46; Strathfield, 47; and Eastbourne and Camden Square, both 48.

The heaviest falls of rain were at Bolton, 23·03 inches; Bath, 19·92 inches; Stonyhurst, 17·90 inches; and Helston, 17·05 inches.

The least falls of rain were at North Shields, 8·50 inches; Bywell, 8·92 inches; Ramsgate, 9·48 inches; and Hull, 9·64 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days it fell.	Rain. Mean Amount of Rain.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·492	72·5	40·0	32·5	63·3	51·7	24·2	11·6	56·9	54·1	·419	4·7	0·5	90	531	—	—	1·6	6	4	10	11	—	5·9	62	13·[illegible]
Between the latitudes 50° and 51°	29·489	74·0	40·1	33·9	65·0	53·0	26·5	12·0	57·6	53·6	·413	4·6	0·7	87	532	107·7	47·7	1·5	5	8	13	13	4·2	6·7	55	12·[illegible]
Between the latitudes 51° and 52°	29·486	78·8	38·4	40·4	65·8	51·3	33·0	14·5	57·4	52·4	·394	4·4	0·9	84	530	110·0	47·5	1·4	5	4	9	13	2·0	6·6	53	11·[illegible]
Between the latitudes 52° and 53°	29·448	78·3	37·2	41·1	65·7	49·9	33·1	15·8	56·6	52·1	·391	4·4	0·8	85	531	105·2	46·2	1·1	5	5	10	11	6·6	6·8	51	12·[illegible]
Between the latitudes 53° and 54°	29·443	76·3	36·1	40·2	63·2	49·6	31·1	13·6	55·5	49·8	·358	4·0	0·9	82	530	91·5	45·7	1·3	4	5	8	13	4·9	7·0	60	12·[illegible]
Between the latitudes 54° and 55°	29·385	78·4	33·7	44·7	63·6	50·1	34·4	13·5	55·5	49·8	·358	4·0	0·9	81	533	95·7	45·7	1·1	4	7	5	15	5·0	6·9	63	12·[illegible]
Mean for the Quarter, 50° to 55° — Year 1876	29·520	90·0	40·1	49·9	70·0	52·2	40·1	17·8	59·8	52·4	·396	4·4	1·4	77	530	110·8	47·4	1·1	6	5	7	13	4·1	5·3	43	8·[illegible]
Mean for the Quarter, 50° to 55° — " 1877	29·552	79·4	35·7	43·7	63·2	50·3	34·9	15·9	57·1	50·9	·376	4·2	1·0	80	533	106·4	45·5	1·2	6	4	7	13	4·1	6·3	48	10·[illegible]
Mean for the Quarter, 50° to 55° — " 1878	29·505	85·4	37·5	47·9	69·0	52·6	35·6	16·4	59·9	53·3	·408	4·6	1·2	80	529	109·3	48·0	1·0	6	6	7	12	3·5	5·9	44	9·[illegible]
Mean for the Quarter, 50° to 55° — " 1879	29·463	77·2	37·1	40·1	64·7	50·8	31·6	13·9	56·5	51·4	·383	4·3	0·8	84	531	102·0	46·6	1·3	5	5	8	13	4·5	6·8	56	12·[illegible]

Remarks on the Weather during the Quarter ending December 31st, 1879.

By James Glaisher, Esq., F.R.S., *&c.*

The month of October was perhaps the finest month in the year, yet it was cold, dull, and sunless, with a smaller rain-fall than in any October since 1834. November was an exceedingly cold month, with scarcely any rain till after the 18th day; it was not, however, a dry month owing to mists. December was a remarkably cold month, of lower temperature than any December in this century; it was also remarkable for dense and very continuous fogs and high readings of the barometer.

In October the temperature was variable, there were a few days of warm weather, then a few days of cold weather, the latter preponderating, and so on throughout the month. From November 1st to December 27th the weather was most winterly and very severe. The day of lowest temperature was December 7th, its mean temperature was 23°·6, being 17°·9 below its average. The coldest group of days was from December 1st to 7th, their mean temperature was 25°·9, or 15°·8 below the average; the mean temperature of the 12 days between November 30th and December 11th was 27°·85, or 13°·67 below the average for these days. The mean temperature of the 38 days ending December 27th was 31°·1, or 9°·7 below the average.

There were a few days in November and several in December distinguished by their low temperature; the table on page 66 shows the minimum readings on those days at several stations.

The temperature of every month of the year was below its average, and there is no other instance back to the year 1771 of such being the case. The mean temperature of the year 1879 was 46°·2, being lower than that of any other year in this century, with the exception of the year 1814, when it was 45°·8; but in this year both May and December were more than 2° above their averages.

The fall of rain in the months of October, November, and December was 2·3 ins., being 4·9 ins. less than the average for this quarter, but, in consequence of the excess of rain in the previous months, the year 1879 will rank as a wet one; the fall in the year was 31·3 ins., being greater in amount than in any year since 1860.

The month of December was the fourteenth month in succession of low temperature. The mean temperature of the 14 months ending December in every year from 1772 to 1879 is shown in the annexed table.

Table showing the Mean Temperature of the Fourteen Months ending December, from 1771—1772 to 1878—1879.

Years.	Mean Temp. of the 14 months ending Dec.	Years.	Mean Temp. of the 14 months ending Dec.	Years.	Mean Temp. of the 14 months ending Dec.	Years.	Mean Temp. of the 14 months ending Dec.	Years.	Mean Temp. of the 14 months ending Dec.	Years.	Mean Temp. of the 14 months ending Dec.
	°		°		°		°		°		°
1771—1772	46·2	1789—1790	46·9	1807—1808	46·6	1825—1826	48·6	1843—1844	47·9	1861—1862	48·3
1772—1773	45·8	1790—1791	47·0	1808—1809	47·2	1826—1827	47·4	1844—1845	46·3	1862—1863	49·1
1773—1774	46·5	1791—1792	46·5	1809—1810	47·4	1827—1828	49·1	1845—1846	50·2	1863—1864	48·2
1774—1775	48·3	1792—1793	47·0	1810—1811	48·3	1828—1829	46·3	1846—1847	48·2	1864—1865	49·2
1775—1776	47·1	1793—1794	47·9	1811—1812	45·8	1829—1830	46·3	1847—1848	49·5	1865—1866	49·7
1776—1777	47·2	1794—1795	46·2	1812—1813	45·9	1830—1831	48·9	1848—1849	49·1	1866—1867	47·9
1777—1778	47·9	1795—1796	47·1	1813—1814	44·8	1831—1832	48·2	1849—1850	48·2	1867—1868	49·8
1778—1779	50·1	1796—1797	45·5	1814—1815	47·8	1832—1833	48·1	1850—1851	48·4	1868—1869	48·7
1779—1780	47·7	1797—1798	47·5	1815—1816	45·2	1833—1834	50·0	1851—1852	49·0	1869—1870	47·5
1780—1781	48·1	1798—1799	45·1	1816—1817	46·4	1834—1835	48·2	1852—1853	47·8	1870—1871	47·1
1781—1782	44·9	1799—1800	46·8	1817—1818	49·5	1835—1836	46·8	1853—1854	47·4	1871—1872	48·9
1782—1783	46·2	1800—1801	47·8	1818—1819	48·6	1836—1837	46·3	1854—1855	46·1	1872—1873	48·2
1783—1784	44·2	1801—1802	46·5	1819—1820	46·1	1837—1838	46·4	1855—1856	47·5	1873—1874	48·3
1784—1785	44·9	1802—1803	46·9	1820—1821	48·1	1838—1839	46·6	1856—1857	49·6	1874—1875	47·5
1785—1786	44·6	1803—1804	48·5	1821—1822	50·3	1839—1840	47·0	1857—1858	48·7	1875—1876	48·7
1786—1787	46·4	1804—1805	46·5	1822—1823	46·6	1840—1841	47·2	1858—1859	49·3	1876—1877	48·6
1787—1788	46·7	1805—1806	48·9	1823—1824	47·3	1841—1842	48·5	1859—1860	45·9	1877—1878	48·7
1788—1789	45·0	1806—1807	48·2	1824—1825	48·8	1842—1843	48·6	1860—1861	47·9	1878—1879	44·8
Mean -	46·5	Mean -	47·0	Mean -	47·3	Mean -	47·7	Mean -	48·2	Mean -	48·3

From this table it will be seen that the temperature of the fourteen months ending December 1879 was 44°·8, and we have to travel back to the years 1813–14 for a corresponding period of a similar low temperature, so that there is no instance in this century of a period of lower temperature than the one we are passing through. In 1815 the cold period of fourteen months was followed by a cold January, but both February and March were warm.

The readings of the barometer in the neighbourhood of London were above their averages throughout the month of October, with the exception of the 1st, 17th, 19th, 20th, 24th, and 25th, on which days the readings were slightly in defect of their averages. The mean reading for the month was 29·952 ins., being 0·253 in. above the average, and higher than any value back to 1856 when it was 29·991 ins. From the 1st to the 29th of November the barometer readings were all above their averages excepting on the 11th, 12th, and 21st, when the values were respectively 0·02 in., 0·02 in., and 0·04 in., below their averages; the mean amount of excess for the 29 days was 0·30 in. The mean reading for the month of November was 30·029 ins., being 0·285 in. above the average, and higher than any value since 1867 when the mean reading was 30·119 ins. From the 30th of November till the 5th of December the readings were below their averages, the mean amount of defect being 0·17 in.; from the 6th to the 27th, the readings

were considerably above their averages, and on the 13th, the mean amount of excess was 0·75 in. (in this period the highest reading in the year took place, viz., 30·62 ins. on the 23rd), the mean amount of excess for the 22 days ending the 27th was 0·53 in. During the last four days of the year the readings were below their averages, the mean amount of defect was 0·19 in. The mean reading for the month was 30·139 ins. being 0·353 in., above the average, and higher than any value since 1857 when it was 30·155 ins.

TABLE showing the MINIMUM TEMPERATURES of the AIR at the several STATIONS on the 22nd, 23rd, and 30th, of November, and 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 11th, 16th, 17th, and 21st of December.

Names of Stations.	NOVEMBER.			DECEMBER.										
	22nd.	23rd.	30th.	1st.	2nd.	3rd.	4th.	5th.	6th.	7th.	11th.	16th.	17th.	21st.
	°	°	°	°	°	°	°	°	°	°	°	°	°	°
Guernsey - -	33·5	34·5	35·0	32·0	30·0	27·0	25·0	28·0	31·5	29·0	33·5	33·5	29·0	32·0
Helston - -	33·0	38·0	28·0	25·0	28·0	31·0	25·0	28·0	32·0	33·0	26·0	28·0	28·0	35·0
Truro - - -	30·0	28·0	25·0	26·0	17·0	33·0	28·0	18·0	26·0	32·0	30·0	40·0	23·0	39·0
Plymouth - -	30·8	30·2	28·9	25·9	26·8	29·5	27·0	20·8	22·8	21·2	31·2	38·5	27·0	32·7
Torquay - -	29·0	34·1	28·0	27·5	29·9	31·3	25·5	23·3	33·1	27·8	29·1	34·6	25·2	38·1
Ventnor - -	31·9	31·8	26·3	25·7	29·9	31·0	27·2	20·9	26·5	27·5	33·1	36·5	24·0	31·9
Osborne - -	29·0	27·9	24·3	23·0	24·6	21·0	22·7	19·3	22·0	18·2	24·0	29·5	21·7	25·1
Bournemouth -	29·1	26·1	25·0	22·2	23·9	26·0	23·6	20·3	23·8	16·8	24·0	27·1	19·3	26·2
Brighton - -	28·0	27·8	24·6	22·0	21·5	24·1	23·0	21·0	25·0	22·0	27·6	22·5	20·2	23·6
Salisbury - -	24·0	22·5	20·0	18·0	15·0	12·0	19·0	16·0	19·0	10·0	24·0	31·5	17·5	26·5
Barnstaple - -	30·0	30·0	27·0	27·0	25·0	23·0	27·0	21·0	24·0	27·0	28·0	36·0	24·0	34·0
Caterham - -	27·5	25·2	22·5	—	—	—	—	—	—	—	—	—	—	—
Bath - - -	26·0	31·3	26·4	25·6	12·6	13·1	19·5	20·0	21·9	18·1	22·0	23·3	20·8	22·5
Ramsgate - -	30·1	29·5	28·9	25·9	22·5	21·8	27·0	25·6	29·2	20·9	24·5	22·1	24·3	24·3
Strathfield Turgiss	27·4	17·7	23·3	21·0	13·8	12·6	20·8	18·8	21·9	10·9	13·4	24·5	20·3	25·3
Marlborough -	29·2	24·8	22·3	22·1	16·2	15·7	21·2	18·2	22·2	13·4	18·8	27·8	23·2	28·3
Blackheath -	27·5	24·5	27·0	21·7	14·7	18·2	20·9	21·3	22·0	16·0	18·7	23·0	21·4	25·0
Greenwich - -	28·0	22·0	26·9	23·6	14·1	18·0	23·1	23·1	18·4	13·7	20·0	22·5	23·5	24·3
Streatley - -	-	21·0	25·5	25·1	13·4	16·5	18·2	20·8	22·2	13·0	18·9	34·0	22·8	28·0
Camden Square -	31·2	25·5	26·3	24·6	17·7	19·6	21·9	22·7	23·8	16·1	21·6	31·4	22·1	26·2
Oxford - -	23·5	23·5	23·5	15·7	15·5	20·6	20·5	21·1	11·2	11·0	18·5	22·8	22·2	27·3
Royston - -	25·1	24·0	22·4	21·2	14·0	15·0	16·4	18·9	16·1	11·6	16·6	27·9	21·2	24·2
Cardington -	26·6	23·0	23·6	22·0	13·6	16·0	18·0	18·0	18·6	2·0	13·4	31·0	24·0	28·0
Somerleyton -	24·2	26·2	30·1	28·8	14·3	16·2	22·0	22·9	21·8	10·0	21·3	28·3	21·2	25·7
Lowestoft - -	27·0	27·8	30·0	28·7	18·8	22·8	24·0	24·0	24·0	13·8	22·7	25·8	21·8	26·1
Cambridge - -	27·0	25·8	26·0	25·0	13·0	20·0	14·5	20·0	13·0	−1·0	14·0	31·0	23·0	27·0
Stockton - -	23·0	21·0	21·5	22·0	6·0	15·0	12·5	12·0	19·0	−1·0	12·5	35·0	27·7	26·0
Norwich - -	—	—	32·0	28·0	14·0	21·0	17·0	24·0	23·0	—	—	30·0	23·0	28·0
Leicester - -	23·8	23·6	26·6	24·3	3·0	21·4	15·4	13·8	10·8	4·3	16·5	29·4	26·0	27·0
Wolverhampton -	20·0	25·0	22·1	20·7	12·5	18·0	16·0	13·2	19·8	13·5	20·2	36·5	27·1	26·3
Nottingham -	20·9	23·0	26·3	25·3	4·5	8·0	16·2	13·6	20·1	−1·3	16·5	36·9	29·2	28·1
Llandudno - -	34·8	38·7	34·0	30·0	25·5	28·8	23·0	23·0	29·0	28·0	33·8	39·0	35·5	26·6
Sheffield - -	22·0	28·0	28·0	26·8	13·0	16·0	10·0	15·4	17·0	12·7	23·5	39·0	28·0	28·5
Kelstern Grange -	24·6	26·2	26·1	22·1	13·1	18·1	16·0	14·0	16·9	8·3	16·1	25·0	24·1	26·1
Liverpool - -	29·4	29·5	31·4	29·5	21·6	22·7	21·5	23·5	27·5	22·7	28·9	37·4	30·9	28·0
Bolton - -	27·5	21·0	21·0	17·7	15·5	16·3	14·9	15·3	14·5	13·5	18·5	32·9	27·5	22·6
Bermerside - -	24·8	28·0	25·0	25·0	16·0	14·0	10·0	21·0	18·0	14·0	25·0	37·0	31·5	28·0
Hull - - -	23·0	26·0	27·0	18·0	11·0	12·0	10·0	17·0	12·0	7·0	29·0	27·0	29·0	27·0
Stonyhurst -	25·8	30·0	22·3	21·3	17·8	15·2	12·0	19·3	13·2	20·4	27·5	31·0	32·2	28·9
Bradford - -	29·3	28·0	27·0	26·0	19·8	20·0	15·6	16·0	21·8	13·2	25·3	38·3	32·9	28·6
Leeds - - -	27·0	28·0	26·0	25·0	17·0	18·0	17·0	17·0	21·0	12·0	24·0	38·0	32·0	29·0
Cockermouth -	32·2	25·9	17·5	17·6	17·2	15·2	9·8	12·3	16·4	17·2	22·2	29·9	41·9	24·1
Silloth - - -	33·0	29·0	24·6	25·2	15·5	15·4	8·0	9·2	12·0	11·7	20·2	31·0	33·3	25·9
Sunderland - -	31·0	32·0	29·0	28·0	22·0	29·0	9·0	13·0	25·0	21·0	27·0	38·0	36·0	30·0
Carlisle - -	32·2	26·3	21·7	24·6	12·6	4·4	1·5	3·0	16·2	15·0	17·0	31·3	32·7	25·0
Bywell - -	33·0	32·0	27·0	26·0	17·0	15·0	1·0	4·0	22·0	9·0	15·0	—	—	—
North Shields -	31·5	28·0	26·5	25·8	16·8	25·0	8·5	11·7	23·7	17·0	24·3	32·5	32·3	28·5

From this table it will be seen that on November 22nd the lowest reading was 20° at Wolverhampton, on the 23rd was 17°·7 at Strathfield, on the 30th was 17°·5 at Cockermouth. On December 1st the lowest reading was 15°·7 at Oxford, on the 2nd was 3° at Leicester, on the 4th was 1° at Bywell, on the 5th was 3° at Carlisle, on the 6th was 10°·8 at Leicester, on the 7th was −1°·3 at Nottingham, −1° at Cambridge, and −1° at Stockton, on the 11th was 12°·5 at Stockton, on the 16th was 22°·1 at Ramsgate, on the 17th was 17°·5 at Salisbury, and on the 21st was 22°·5 at Bath.

These extreme low readings have thus been experienced at different places on different days, and by looking at the readings at adjacent places on these days, it will be seen how small have been for the most part the areas over which these extreme low readings have extended.

The atmospheric pressure in October was greater than in September by 0·150 in., that in November was greater than in October by 0·082 in., and that in December was greater than in November by 0·105 in. (From the preceding 38 years' observations the *mean pressure* in October is less than in September by 0·106 in., that in November is greater than in October by 0·040 in., and that in December is greater than in November by 0·047 in.) The mean increase of pressure from September to October south of latitude 52° was 0·154 in., and north of this latitude was 0·195 in., the increase from October to November from all places was 0·106 in., and the increase from November to December south of latitude 52° was 0·084 in., and north of 52° was 0·008 in. only.

At Greenwich the *mean temperature* of October was lower than in September by 7°·2; that of November was lower than that in October by 10°·8, and that in December was lower than that in November by 5°·9. (From the preceding 38 years' observations the *mean temperature* of October is lower than that of September by 6°·9, that of November is lower than that of October by 6°·7, and that of December is lower than that of November by 3°·5.) The decrease of *mean temperature* from September to October from all places was 5°·9; the decrease from October to November was 8°·3, and the further decrease from November to December was 5°·9.

The mean temperature of the air for October was 49°·1, being 0°·5 and 1°·1, respectively, below the averages of the preceding 108 years, and 38 years. It was 2°·4 lower than the value in 1878.

The mean temperature of the air for November was 38°·3, being 4°·0 and 5°·2, respectively, below the averages of the preceding 108 years, and 38 years. In the preceding 108 years there are but four instances of so cold a November, viz., in the year 1782, 34°·7, in 1786, 36°·7, in 1851, 37°·9, and in 1871, 37°·6.

The mean temperature of the air for December was 32°·4, being 6°·7 and 7°·6, respectively, below the averages of the 108 years, and 38 years. It was the coldest December in this century, and there are but three instances of so cold a December back to 1771, viz., in the year 1784, 31°.0, in 1788, 29°·0, and in 1796, 30°·4.

The mean temperature of the air for the quarter was 39°·9, being 3°·7 and 4°·6, respectively, below the averages of the preceding 108 years, and 38 years.

The mean high day temperatures of the air were 2°·8, 5°·4, and 7°·5, respectively, below their averages in October, November, and December.

The mean low night temperatures of the air were 0°·6, 4°·0, and 8°·5, respectively, below their averages in October, November, and December. Therefore the days and nights were cold throughout the quarter, and particularly so in November and December.

1879. MONTHS.	Temperature of Air. Mean.	Air. Diff. from average of 108 years.	Air. Diff. from average of 38 years.	Evaporation. Mean.	Evaporation. Diff. from average of 38 years.	Dew Point. Mean.	Dew Point. Diff. from average of 38 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 38 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 38 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 38 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.
Oct. -	49·1	−0·5	−1·1	47·5	−0·7	45·8	−0·2	12·6	−2·2	..	0·308	−0·005	3·5	−0·1
Nov. -	38·3	−4·0	−5·2	36·5	−4·8	34·2	−5·2	10·2	−1·4	..	0·197	−0·049	2·3	−0·5
Dec. -	32·4	−6·7	−7·6	31·5	−7·2	28·8	−7·9	10·6	+1·2	..	0·158	−0·062	1·9	−0·6
Means -	39·9	−3·7	−4·6	38·4	−4·2	36·3	−4·4	11·1	−0·8	..	0·221	−0·039	2·6	−0·4

1879. MONTHS.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 38 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 38 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 38 years.	Rain. Amount.	Rain. Diff. from average of 64 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
Oct. -	89	+3	29·952	+0·253	545	+ 6	0·8	−2·0	253	3	12	16	29·2	50·0
Nov. -	85	−3	30·034	+0·295	559	+11	0·9	−1·5	239	18	11	1	16·0	42·2
Dec. -	87	−1	30·139	+0·353	568	+16	0·6	−1·4	230	24	7	0	13·7	37·5
Means -	87	0	30·042	+0·300	557	+11	Sum 2·3	Sum −4·9	Mean 241	Sum 45	Sum 30	Sum 17	Lowest 13·7	Highest 50·0

NOTE.—In reading this table it will be borne in mind that the plus sign (+) signifies *above* the average, and that the minus sign (−) signifies *below* the average.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter was as follows:—

Direction of Wind.	OCTOBER. Average.	OCTOBER. 1879.	OCTOBER. Departure from Average.	NOVEMBER. Average.	NOVEMBER. 1879.	NOVEMBER. Departure from Average.	DECEMBER. Average.	DECEMBER. 1879.	DECEMBER. Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	2	2	0	2½	6	+3½	2	3	+1
N.	3	2	−1	3¼	6	+2¾	2¾	2	−¾
N.E.	2½	4	+1½	3¼	6	+2¾	2	3	−1
E.	1½	6	+4½	2	3	+1	1¾	5	+3¼
S.E.	1½	3	+1½	2	1	−1	1¼	3	+1¾
S.	3½	1	−2½	3½	1	−2½	3	1	−2
S.W.	9	4	−5	7½	3	−4½	10	8	−2
W.	4¾	9	+4¼	2	4	+2	3¾	4	+¼
Calm (nearly.)	3¾	0	−3¾	3¼	0	−3¼	4	2	−2

The sign plus (+) denotes excesses over averages; the largest numbers affected with this sign in the month of October are opposite to the E., and W., in November to the N.W., N., N.E. and W., and in December to the E.

The sign minus (−) denotes defects below averages; the largest numbers affected with this sign in the months of October, November, and December are opposite to the S., and S.W.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING DECEMBER 31ST, 1879.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the sixth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1879. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean of all Highest.	Temperature of Air in Month. Mean of all Lowest.	Temperature of Air in Month. Mean Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									
GUERNSEY, Samuel Elliott Hoskins, Esq., M.D., F.R.S., F.M.S.	204	Oct.	29·875	0·888	64·0	39·0	25·0	57·2	48·3	8·9	52·9	49·1	·349	3·9	0·5	88	539	–	–	1·5	12	8	4	7	–	5·4	14	1·99
		Nov.	29·984	0·840	55·5	29·5	26·0	48·0	39·6	8·4	43·8	38·2	·230	2·7	0·6	81	552	–	–	1·3	12	8	4	6	–	5·9	9	1·65
		Dec.	30·083	1·515	52·0	25·0	27·0	44·0	33·0	11·0	38·8	34·1	·197	2·3	0·5	85	559	–	–	1·4	6	9	10	6	–	4·9	10	0·95
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	Oct.	30·229	0·807	70·0	36·0	34·0	60·6	48·0	12·6	53·2	48·2	·337	3·8	0·7	83	545	71·4	44·2	1·8	7	12	4	8	5·9	4·4	12	3·18
		Nov.	30·381	0·809	57·0	28·0	29·0	51·0	38·5	12·5	44·0	37·7	·226	2·6	0·7	78	559	62·9	35·8	1·3	14	10	3	3	4·6	5·3	7	3·43
		Dec.	30·456	1·264	59·0	25·0	34·0	48·0	34·4	13·6	41·0	35·8	·210	2·4	0·6	82	564	53·3	32·4	1·4	7	12	8	4	4·4	5·3	7	1·49
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	Oct.	30·075	0·831	66·0	31·0	35·0	59·4	46·6	12·8	52·3	47·7	·331	3·7	0·7	84	514	–	–	2·2	4	13	4	10	–	6·7	13	2·44
		Nov.	30·227	0·819	56·0	25·0	31·0	50·0	35·6	14·4	42·4	37·1	·221	2·6	0·6	82	558	–	–	1·8	13	9	3	5	–	6·3	9	1·52
		Dec.	30·296	1·242	54·0	17·0	37·0	45·9	31·8	14·1	39·0	35·3	·206	2·4	0·4	87	563	–	–	1·7	7	8	8	8	–	6·9	13	1·55
PLYMOUTH (Devon), John Merrifield, Esq., F.R.A.S., F.M.S., LL.D.	69	Oct.	30·116	0·944	64·2	34·0	30·2	57·8	46·6	11·2	51·7	48·0	·335	3·8	0·6	87	545	–	–	1·2	7	12	5	7	–	7·1	12	2·58
		Nov.	30·241	0·853	57·0	28·9	28·1	48·2	36·9	11·3	42·0	37·5	·225	2·6	0·5	85	558	–	–	1·8	11	9	3	7	–	6·9	6	0·55
		Dec.	30·301	1·332	53·0	20·8	32·2	42·7	31·0	11·7	37·4	33·6	·193	2·2	0·4	87	565	–	–	1·4	8	10	6	7	–	6·7	12	0·93
TORQUAY, Babbacombe (Devon), Edwin E. Glyde, Esq., F.M.S.	305	Oct.	29·802	0·988	64·8	32·0	32·8	56·6	46·2	10·4	50·9	46·4	·316	3·6	0·6	85	540	100·7	41·0	1·6	6	12	3	10	3·8	7·5	11	0·80
		Nov.	29·904	0·872	59·8	25·4	34·4	47·6	37·0	10·6	42·0	36·6	·217	2·5	0·6	82	552	89·0	29·2	1·5	11	8	3	8	1·7	6·2	6	0·22
		Dec.	29·969	1·381	52·3	22·8	29·5	42·8	32·1	10·7	37·6	33·6	·193	2·2	0·5	85	559	75·6	23·8	1·4	7	8	7	9	2·0	6·3	13	1·44
VENTNOR, (Isle of Wight) (Royal National Hospital for Consumption) Hartley Sagar, Esq.	150	Oct.	30·054	1·084	63·0	35·0	28·0	56·7	47·9	8·8	52·0	49·4	·353	4·0	0·4	90	543	–	–	–	6	12	3	10	4·8	6·8	10	1·13
		Nov.	30·152	0·820	59·4	26·7	32·7	46·8	37·8	9·0	42·2	39·6	·243	2·8	0·3	90	556	–	–	–	12	8	2	8	2·6	6·0	8	0·66
		Dec.	30·250	1·312	50·3	21·3	29·0	42·2	33·2	9·0	38·0	36·1	·212	2·5	0·2	93	563	–	–	–	9	12	3	7	3·0	6·1	11	0·89
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	Oct.	29·930	1·088	67·3	34·9	32·4	57·1	45·7	11·4	50·5	48·5	·342	3·9	0·3	93	548	87·5	42·6	0·2	7	9	5	10	–	6·6	9	0·82
		Nov.	30·029	0·896	55·5	25·8	29·7	45·4	35·1	10·3	39·8	36·6	·217	2·5	0·3	89	557	67·1	32·7	0·9	13	7	3	7	–	6·6	5	0·30
		Dec.	30·121	1·348	50·0	19·7	30·3	39·9	28·4	11·5	34·5	33·2	·190	2·2	0·2	95	565	48·5	25·2	0·2	7	10	8	6	–	6·7	2	0·94
EASTBOURNE (Sussex), Miss W. L. Hall.	12	Oct.	30·055	1·142	65·4	31·6	33·8	57·2	44·3	12·9	50·3	46·2	·313	3·6	0·6	86	545	87·0	35·3	0·4	8	12	2	9	1·0	–	11	1·37
		Nov.	30·109	0·796	55·1	21·3	33·8	45·5	33·7	11·8	39·8	35·5	·208	2·4	0·5	85	559	67·8	24·8	0·2	16	5	3	6	0·3	–	5	1·13
		Dec.	30·274	1·278	50·5	18·7	31·8	39·8	28·2	11·6	34·6	31·7	·179	2·1	0·3	89	568	46·9	19·1	0·8	12	8	5	6	0·9	–	9	0·86
BOURNEMOUTH, South Bourne, (Hants), T. A. Compton, Esq., M.D., B.A., F.M.S.	95	Oct.	30·026	1·074	63·8	30·7	33·1	55·9	44·7	11·2	50·0	45·7	·306	3·5	0·6	85	545	–	–	1·2	11	9	2	9	–	5·9	11	1·16
		Nov.	30·130	0·818	59·8	23·0	36·8	45·5	34·4	11·1	39·6	35·0	·204	2·4	0·5	84	559	–	–	1·1	18	5	1	6	–	5·7	7	0·23
		Dec.	30·209	1·284	50·0	16·6	33·4	39·9	27·0	12·9	34·0	29·6	·164	1·9	0·4	83	567	–	–	1·3	13	9	3	6	–	6·5	11	1·04
BRIGHTON (Sussex), F. E. Sawyer, Esq., F.M.S.	206	Oct.	29·912	1·132	64·8	32·0	32·8	56·2	44·9	11·3	50·0	45·9	·309	3·5	0·6	86	543	–	42·6	0·8	12	8	4	7	–	6·6	10	0·77
		Nov.	30·001	0·875	55·8	24·6	31·2	43·8	34·0	9·8	39·0	33·9	·195	2·3	0·5	83	558	–	30·9	0·7	18	5	2	5	–	7·4	3	1·06
		Dec.	30·108	1·423	48·2	20·2	28·0	38·7	28·7	10·0	34·2	30·4	·170	2·0	0·3	85	565	–	25·2	0·6	10	8	6	6	–	5·9	9	0·80
SALISBURY (Wilton House), Wilts, T. Challis, Esq.	186	Oct.	29·936	1·182	67·0	26·0	41·0	57·2	40·2	17·0	48·0	44·0	·287	3·3	0·5	87	546	81·8	37·2	1·1	8	11	4	8	–	6·9	14	0·85
		Nov.	30·020	0·846	62·0	18·0	44·0	46·9	30·5	16·4	38·5	35·4	·207	2·4	0·3	89	559	68·6	28·0	1·2	20	3	2	5	–	6·1	8	0·44
		Dec.	30·105	1·256	53·0	10·0	43·0	38·7	23·4	15·3	32·1	28·8	·158	1·9	0·2	89	568	53·0	22·7	1·3	16	8	5	2	–	7·0	9	1·16
BARNSTAPLE (Devon), William Knill, Esq.	43	Oct.	30·077	1·010	70·0	32·0	38·0	59·3	47·2	12·1	52·6	48·4	·341	3·8	0·6	86	543	–	–	1·2	4	13	6	8	–	4·5	13	2·47
		Nov.	30·210	0·880	57·0	27·0	30·0	48·4	37·6	10·8	43·0	37·1	·221	2·6	0·6	80	557	–	–	1·1	15	5	1	9	–	3·8	5	0·80
		Dec.	30·257	1·230	46·0	21·0	35·0	42·0	30·1	11·9	36·8	33·2	·190	2·2	0·4	89	565	–	–	1·1	9	6	9	7	–	4·4	10	1·54
CATERHAM (Surrey), The Metropolitan Asylum, James Adam, Esq., M.D.	608	Oct.	29·455	1·000	63·9	30·2	33·7	54·3	41·6	12·7	48·0	43·4	·281	3·2	0·6	85	537	–	32·1	2·3	7	11	6	6	–	5·8	12	1·78
		Nov.	29·517	0·890	51·0	22·2	28·8	41·3	31·7	9·6	36·8	33·5	·192	2·2	0·3	88	551	–	23·0	1·8	13	5	4	8	–	6·5	9	1·83

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1879. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean of all Highest.	Temperature of Air in Month. Mean of all Lowest.	Temperature of Air in Month. Mean Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
RAMSGATE (Kent), Rev. E. Douglas O'Gara, O.S.B., F.M.S.	108	Oct.	30·006	1·209	65·4	34·3	31·1	56·0	44·3	11·7	–	–	–	–	–	–	–	93·2	38·3	0·8	8	7	6	10	–	7·3	12	1·04
		Nov.	30·072	0·918	52·3	25·6	26·7	44·7	36·1	8·6	40·3	36·0	·211	2·5	0·5	85	557	68·3	32·6	0·9	8	5	4	13	–	7·8	15	0·83
		Dec.	30·200	1·380	50·5	20·9	29·6	38·2	28·3	9·9	33·5	31·0	·174	2·0	0·3	90	568	58·9	–	0·9	5	8	7	11	–	7·5	11	1·36
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	Oct.	29·926	1·139	66·0	30·1	35·9	56·5	42·1	14·4	48·6	45·9	·309	3·5	0·3	91	545	93·5	37·7	0·7	8	8	5	10	1·2	7·6	10	0·78
		Nov.	30·018	0·799	58·3	16·9	41·4	44·7	32·5	12·2	38·3	34·7	·201	2·3	0·4	88	559	67·8	28·5	0·7	13	8	3	6	0·9	6·7	11	0·86
		Dec.	30·101	1·279	52·4	10·7	41·7	37·7	25·0	12·7	32·2	29·6	·165	2·0	0·2	90	567	53·6	22·4	1·0	8	11	7	5	1·1	7·6	9	1·11
WEYBRIDGE HEATH (Surrey), William F. Harrison, Esq., F.M.S.	150	Oct.	29·994	1·156	68·5	28·0	40·5	55·9	42·1	13·8	48·5	43·7	·285	3·2	0·6	84	546	80·5	37·2	0·7	9	7	8	7	3·0	6·9	12	0·77
BATH (Somerset), St. Gregory's College, Downside, Rev. T. L. Almond, O.S.B., F.M.S.	596	Oct.	29·477	1·067	65·0	31·3	33·7	54·8	43·3	11·5	47·8	45·1	·300	3·4	0·4	91	538	85·3	39·1	1·5	8	8	5	10	–	7·5	13	1·91
		Nov.	29·576	0·829	56·8	26·0	30·8	44·6	33·7	10·9	38·7	36·4	·216	2·6	0·2	92	550	71·5	30·3	1·2	12	5	5	8	–	6·9	9	0·61
		Dec.	29·626	1·234	52·3	12·6	39·7	39·6	26·5	13·1	33·6	30·0	·167	2·0	0·3	87	557	58·1	22·7	1·4	7	6	7	11	–	7·2	9	3·01
MARLBOROUGH, (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	474	Oct.	29·620	1·124	66·9	28·2	38·7	55·8	41·9	13·9	48·3	44·3	·292	3·3	0·5	87	540	89·0	36·1	0·8	7	10	3	11	–	6·7	15	1·09
		Nov.	29·710	0·846	54·9	19·8	35·1	44·8	33·4	11·4	38·5	35·2	·205	2·4	0·4	88	553	–	27·2	0·5	9	8	1	12	–	7·6	11	0·39
		Dec.	29·775	1·324	53·3	13·4	39·9	38·6	26·4	12·2	32·5	29·8	·166	1·9	0·3	89	561	50·3	21·7	0·9	8	8	5	10	–	6·7	10	1·09
BLACKHEATH (London), James Glaisher, Esq., F.R.S.	160	Oct.	29·949	1·194	68·1	33·1	35·0	55·6	43·4	12·2	49·2	44·6	·296	3·4	0·6	85	545	85·8	39·6	0·9	5	10	4	12	–	7·1	11	0·84
		Nov.	30·029	0·845	54·2	23·0	31·2	43·3	33·6	9·7	38·5	33·8	·195	2·3	0·5	84	559	65·7	30·2	0·9	12	7	3	8	–	7·2	11	1·00
		Dec.	30·135	1·281	52·0	14·7	37·3	37·1	26·3	10·8	32·5	29·1	·161	1·9	0·3	87	568	49·2	23·3	0·7	6	8	7	10	–	7·8	8	0·64
STREATLEY (Berks), "The Vicarage," Rev. J. Slatter, M.A., F.R.S., F.M.S.	150	Oct.	29·974	1·134	66·7	31·0	35·7	56·7	44·2	12·5	50·4	44·8	·298	3·4	0·7	82	544	–	–	1·4	8	10	5	8	–	8·1	13	1·11
		Nov.	30·062	–	55·8	19·8	36·0	–	–	–	–	–	–	–	–	–	–	–	–	0·9	–	–	–	–	–	7·3	–	0·60
		Dec.	30·155	1·163	53·5	13·0	40·5	39·2	26·0	13·2	32·8	30·7	·172	1·9	0·2	93	568	–	–	0·8	10	5	7	9	–	7·2	5	0·62
CAMDEN SQUARE (London), G. J. Symons, Esq., F.R.S., F.M.S.	123	Oct.	29·995	1·187	67·4	33·4	34·0	57·1	43·9	13·2	49·6	45·4	·305	3·5	0·5	87	545	80·1	40·1	–	9	4	4	14	–	6·9	9	0·80
		Nov.	30·067	0·862	55·2	23·0	32·2	44·1	34·4	9·7	39·0	34·6	·201	2·3	0·5	85	559	63·7	30·1	–	15	2	2	11	–	6·2	8	0·73
		Dec.	30·175	1·289	53·4	16·1	37·3	37·7	26·9	10·8	32·0	28·0	·153	1·8	0·3	84	569	45·0	23·4	–	11	4	6	10	–	7·3	9	0·86
OXFORD (The Observatory), E. J. Stone, Esq., M.A., F.R.S.	210	Oct.	29·919	1·158	65·1	32·8	32·3	54·0	42·8	11·2	48·3	45·2	·301	3·4	0·4	90	545	83·7	38·8	1·0	7	8	5	11	0·9	8·0	10	0·73
		Nov.	29·996	0·855	53·4	22·1	31·3	44·1	33·6	10·5	38·7	35·6	·209	2·4	0·3	89	558	69·6	33·2	1·1	11	4	4	11	0·0	7·1	10	0·67
		Dec.	30·085	1·214	53·3	11·4	41·9	38·6	26·3	12·3	32·8	30·7	·172	1·9	0·2	82	566	51·1	24·2	1·0	7	6	8	10	0·5	7·8	11	0·72
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	Oct.	29·864	1·230	63·7	30·3	33·4	55·2	41·4	13·8	47·5	44·4	·292	3·3	0·5	90	545	–	–	–	9	7	4	11	–	7·0	8	0·59
		Nov.	29·968	0·862	52·7	21·4	31·3	43·8	32·0	11·8	38·0	34·4	·199	2·3	0·4	87	558	–	–	–	13	4	4	9	–	6·8	8	0·73
		Dec.	30·028	1·219	51·0	11·6	39·4	36·6	24·1	12·5	31·2	29·1	·160	1·9	0·2	91	567	–	–	–	3	4	12	12	–	7·2	10	0·58
BEDFORD, Cardington, Mr. J. MacLaren, Assistant to S. C. Whitbread, Esq., M.P.	105	Oct.	29·976	1·224	64·0	30·6	33·4	55·3	41·7	13·6	48·5	46·2	·314	3·5	0·3	92	546	67·8	37·7	1·1	7	9	3	12	–	7·0	9	0·80
		Nov.	30·677	0·790	54·6	20·4	34·2	44·0	32·4	11·6	38·1	35·2	·204	2·4	0·3	90	560	49·3	27·5	0·8	15	4	2	9	–	6·7	9	0·90
		Dec.	30·169	1·260	52·6	2·0	50·6	37·1	23·2	13·9	30·7	28·4	·157	1·9	0·2	91	571	39·1	19·4	1·0	7	4	9	11	–	7·5	9	0·56
CAMBRIDGE (Trinity College), J. W. L. Glaisher, Esq., M.A., F.R.S.	40	Oct.	30·051	1·236	65·0	28·0	37·0	56·7	42·4	14·3	49·0	45·9	·310	3·6	0·4	89	547	90·8	37·5	1·0	8	10	5	8	–	6·5	13	0·64
		Nov.	30·145	0·836	54·3	22·5	31·8	44·5	33·6	10·9	38·8	35·3	·207	2·4	0·4	88	561	70·3	28·3	1·0	16	2	6	6	–	7·1	15	0·93
		Dec.	30·242	1·276	53·0	−1·0	54·0	36·3	25·3	11·0	31·9	28·9	·161	1·9	0·2	88	571	55·0	22·1	1·0	5	4	15	7	–	5·8	15	0·74
RUGBY (Warwickshire), Stockton, "The Rectory," W. Tuckwell, Esq.	289	Oct.	29·810	1·121	65·5	26·0	39·5	56·4	42·3	14·1	49·0	44·2	·291	3·3	0·7	83	543	62·6	38·4	0·3	7	7	7	10	5·3	6·6	9	0·83
		Nov.	29·898	0·730	55·0	15·0	40·0	44·7	31·8	12·9	38·1	35·0	·204	2·4	0·4	89	557	47·6	–	0·4	13	5	3	9	2·8	7·1	10	0·74
		Dec.	29·955	1·180	59·0	−1·0	60·0	38·1	23·2	14·9	31·4	27·6	·150	1·9	0·2	85	566	40·1	–	0·3	8	5	8	10	2·8	6·9	6	0·71
LOWESTOFT (Suffolk), S. H. Miller, Esq., F.R.A.S., F.M.S.	85	Oct.	29·989	1·298	64·0	33·5	30·5	55·1	43·5	11·6	49·3	43·7	·286	3·3	0·8	81	546	80·6	40·7	1·1	8	8	2	13	–	6·4	14	1·41
		Nov.	30·053	0·950	53·9	25·6	28·3	44·6	35·0	9·6	39·9	35·5	·208	2·4	0·5	85	557	64·9	32·0	0·9	11	6	2	11	–	7·0	22	2·13
		Dec.	30·185	1·236	52·6	13·8	38·8	37·5	27·7	9·8	32·9	29·8	·166	1·9	0·3	87	568	54·0	25·7	0·8	6	5	6	14	–	6·4	14	0·64

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1879. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
SOMERLEYTON (Suffolk), The Rectory, Rev. C. J. Steward, F.M.S.	50	Oct.	30·048	1·318	68·2	33·2	35·0	57·2	43·7	13·5	49·6	47·6	·329	3·8	0·3	92	546	—	—	0·9	9	8	5	9	6·0	6·0	16	1·32
		Nov.	30·113	0·878	55·0	24·2	30·8	44·9	34·9	10·0	39·7	38·1	·230	2·7	0·1	94	558	—	—	1·0	11	7	6	6	6·1	7·3	21	2·84
		Dec.	30·249	1·302	51·0	10·0	41·0	37·2	25·7	11·5	31·9	28·6	·158	1·9	0·2	86	571	—	—	1·0	5	6	12	8	4·7	6·5	12	0·75
WOLVERHAMPTON (Staffordshire), Wrottesley, E. Simpson, Esq.	500	Oct.	29·555	1·172	61·7	30·2	31·5	53·9	41·8	12·1	46·9	44·0	·288	3·3	0·4	90	540	—	—	—	5	9	7	10	—	8·4	12	0·99
		Nov.	29·672	0·738	53·5	20·0	33·5	43·5	33·1	10·4	38·0	34·9	·203	2·3	0·4	89	553	—	—	—	12	3	5	10	—	7·3	10	0·87
		Dec.	29·722	1·118	53·6	12·5	41·1	36·9	25·4	11·5	31·6	28·3	·155	1·8	0·3	86	561	—	—	—	4	5	18	4	—	8·7	7	0·79
LEICESTER (Town Museum), W. J. Harrison, Esq., F.G.S.	238	Oct.	29·837	1·246	64·0	33·0	31·0	54·5	43·2	11·3	48·5	44·1	·290	3·3	0·5	85	544	85·2	35·7	0·7	8	8	7	8	—	7·9	16	1·21
		Nov.	29·935	0·892	55·2	23·5	31·7	44·5	34·4	10·1	39·3	35·9	·211	2·4	0·5	85	556	58·8	27·0	0·9	12	5	6	7	—	8·2	15	1·08
		Dec.	29·996	1·138	54·9	3·0	51·9	37·2	25·8	11·4	31·9	27·3	·148	1·7	0·4	82	566	45·4	20·0	0·7	5	7	10	9	—	9·1	11	0·62
NOTTINGHAM (Notts), M.O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	183	Oct.	29·888	1·258	67·0	31·5	35·5	56·0	41·8	14·2	48·1	44·2	·289	3·3	0·5	87	545	76·7	41·1	0·3	8	9	6	8	0·8	7·6	17	1·11
		Nov.	29·997	0·740	55·4	18·0	37·4	45·1	33·4	11·7	38·9	35·1	·214	2·5	0·3	91	558	62·6	31·4	0·3	12	8	4	6	0·7	7·1	16	1·33
		Dec.	30·063	1·178	55·3	−1·3	56·6	37·6	24·3	13·3	31·2	28·4	·155	1·9	0·2	88	568	51·5	24·2	0·3	6	9	8	8	1·5	7·9	11	0·82
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	39	July	29·678	0·856	78·3	41·2	37·1	65·5	48·5	17·0	56·0	52·3	·394	4·4	0·6	87	532	111·9	43·9	1·7	5	1	17	8	—	7·0	16	3·67
		Aug.	29·738	0·814	75·1	40·9	34·2	67·8	47·3	20·5	57·4	51·8	·385	4·3	1·0	82	532	123·5	44·7	1·5	4	4	16	7	—	6·3	16	2·87
		Sept.	29·884	1·050	72·0	31·4	40·6	62·0	42·4	19·6	53·0	48·2	·337	3·8	0·7	84	539	111·2	39·9	1·6	9	4	12	5	—	5·6	12	2·80
		Oct.	30·028	1·316	62·4	24·6	37·8	55·3	38·1	17·2	47·5	44·6	·294	3·3	0·4	90	548	76·0	33·9	1·6	8	4	8	11	—	6·7	10	1·38
		Nov.	30·115	0·874	52·7	18·8	33·9	45·2	30·8	14·4	38·7	34·2	·198	2·3	0·5	85	560	55·0	25·5	1·4	12	5	6	7	—	7·5	17	1·95
		Dec.	30·215	1·298	53·5	5·4	48·1	38·3	22·2	16·1	31·8	29·2	·160	1·9	0·2	90	570	42·0	18·7	1·2	3	5	8	15	—	6·9	5	0·57
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D., and Thomas Dalton, Esq., M.D.	100	Oct.	30·011	1·230	60·5	39·8	20·7	54·1	46·4	7·7	49·8	45·1	·300	3·5	0·6	85	545	—	—	1·0	4	8	6	13	—	7·0	11	1·63
		Nov.	30·150	0·860	54·2	32·0	22·2	47·3	40·1	7·2	43·9	37·8	·227	2·8	0·7	78	555	—	—	1·3	10	9	2	9	—	7·2	11	0·98
		Dec.	30·140	1·380	56·0	23·0	33·0	44·2	33·8	10·4	39·2	34·1	·197	2·3	0·5	83	560	—	—	0·9	3	4	8	16	—	6·0	11	1·48
KELSTERN GRANGE, near Louth (Lincolnshire), D. Grant Briggs, Esq., F.M.S.	393	Oct.	29·676	1·369	61·7	31·9	29·8	53·6	40·5	13·1	46·4	43·4	·282	3·2	0·4	90	543	88·7	38·1	1·0	10	5	5	11	6·6	6·1	13	1·23
		Nov.	29·762	0·983	55·5	24·5	31·0	43·3	32·8	10·5	37·7	35·1	·204	2·4	0·3	91	555	72·5	30·1	1·2	14	4	2	10	6·6	6·6	17	2·02
		Dec.	29·830	1·258	52·9	8·2	44·7	36·4	25·3	11·1	31·1	27·4	·149	1·7	0·4	85	564	59·5	—	1·1	6	5	9	11	5·2	6·3	11	1·06
LIVERPOOL, The Observatory, John Hartnup, Esq., F.R.A.S.	197	Oct.	29·887	1·284	60·5	36·6	23·9	53·8	45·0	8·8	48·4	45·5	·305	3·4	0·4	90	545	—	—	1·2	5	8	6	12	—	7·2	16	1·37
		Nov.	30·020	0·868	53·3	28·0	25·3	45·7	38·4	7·3	41·5	37·2	·223	2·6	0·5	86	555	—	—	1·1	11	5	4	10	—	6·0	8	1·41
		Dec.	30·026	1·382	56·0	21·5	34·5	40·6	30·4	10·2	35·6	32·5	·186	2·1	0·4	89	562	—	—	1·1	3	10	11	7	—	6·0	8	1·28
BOLTON, Sharples (Lancashire), Rev. T. Mackersth, F.R.A.S., F.M.S.	481	Oct.	29·559	1·290	63·0	28·5	34·5	53·1	39·0	14·1	46·2	42·1	·268	3·1	0·5	87	541	59·3	34·1	1·3	7	6	4	14	6·1	8·0	14	4·95
		Nov.	29·669	0·966	53·5	20·9	32·6	44·1	30·8	13·3	38·6	33·7	·193	2·2	0·5	83	552	52·7	26·0	1·8	13	6	3	8	5·8	6·4	13	1·60
		Dec.	29·695	1·242	53·2	13·5	39·7	39·1	23·4	15·7	32·6	28·3	·155	1·8	0·4	84	559	40·8	20·4	0·8	11	5	7	8	2·5	7·6	9	4·24
HALIFAX, Bermerside Observatory (Yorkshire), E. J. Crossley, Esq., F.R.A.S.	530	Oct.	29·521	1·316	67·0	30·0	37·0	53·3	42·0	11·3	46·4	44·3	·292	3·3	0·3	93	540	80·0	38·4	0·6	4	7	7	13	—	6·5	15	2·08
		Nov.	29·641	0·810	55·0	24·0	31·0	42·9	35·2	7·7	38·5	33·6	·193	2·2	0·5	83	552	62·3	31·1	0·7	10	6	4	10	—	6·9	9	1·64
		Dec.	29·652	1·360	51·0	10·0	41·0	37·6	28·0	9·6	32·9	29·6	·165	1·9	0·3	87	558	49·8	24·5	0·6	3	6	8	14	—	7·0	9	1·91
HULL (Yorkshire), The People's Park, Mr. E. Peake.	12	Oct.	30·080	1·420	63·0	30·0	33·0	55·4	40·9	14·5	48·0	42·3	·270	3·1	0·7	81	549	65·8	35·8	1·9	8	6	6	11	0·5	—	10	0·94
		Nov.	30·158	0·952	54·0	23·0	31·0	45·2	33·7	11·5	40·0	34·9	·203	2·4	0·5	72	560	54·6	28·9	1·7	14	5	3	8	1·2	—	19	1·97
		Dec.	30·237	1·254	54·0	7·0	47·0	37·5	25·9	11·6	32·6	27·7	·151	1·8	0·4	82	570	—	—	1·1	7	5	8	11	1·0	—	10	1·16
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.S., F.M.S., F.R.A.S.	363	Oct.	29·707	1·306	62·9	28·0	34·9	54·1	41·4	12·7	47·2	42·8	·274	3·2	0·5	86	543	84·2	39·4	1·2	4	5	5	17	—	8·1	20	4·15
		Nov.	29·825	0·978	56·2	22·3	33·9	45·4	34·7	10·7	39·7	35·3	·207	2·4	0·5	85	554	78·6	30·8	1·4	10	5	5	10	—	6·7	15	1·32
		Dec.	29·842	1·284	54·2	12·0	42·2	39·3	26·8	12·5	33·2	29·1	·161	1·9	0·3	84	561	55·2	24·6	—	11	6	7	7	—	6·2	14	3·56
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	366	Oct.	29·682	1·381	63·2	32·8	30·4	53·8	42·0	11·8	47·2	43·0	·277	3·2	0·5	86	542	61·9	—	1·2	8	5	4	14	—	6·5	23	1·23
		Nov.	29·823	0·846	56·5	26·1	30·4	44·9	36·2	8·7	40·6	34·7	·201	2·3	0·6	80	553	53·6	—	1·2	13	8	1	8	—	5·9	15	1·43
		Dec.	29·829	1·369	54·0	13·2	40·8	38·9	28·7	10·2	34·6	30·6	·171	2·0	0·3	85	559	42·4	—	1·2	11	4	4	12	—	7·0	9	1·25
LEEDS (Yorkshire), The Philosophical Hall, H. Crowther, Esq.	137	Oct.	29·945	1·378	64·0	33·0	31·0	55·6	42·1	13·5	48·6	43·8	·287	3·2	0·6	84	545	67·8	—	1·9	6	6	5	14	—	3·2	10	0·71
		Nov.	30·076	0·884	58·0	26·0	32·0	47·2	34·8	12·4	41·2	34·0	·196	2·3	0·7	76	557	55·2	—	1·9	13	4	2	11	—	3·9	14	1·23
		Dec.	30·099	1·425	56·0	12·0	44·0	40·8	28·5	12·3	35·6	31·1	·175	2·0	0·4	83	564	41·5	—	1·8	5	6	5	15	—	4·1	10	1·24

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1879. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.M.S., F.R.A.S.	146	Oct.	29·924	1·350	66·6	26·5	40·1	54·9	41·0	13·9	46·8	43·0	·277	3·1	0·5	87	547	81·9	35·3	0·3	4	9	7	11	0·9	6·4	15	2·62
		Nov.	30·075	1·020	57·1	17·9	39·2	45·3	35·0	10·3	39·6	35·9	·211	2·4	0·4	87	558	63·1	29·2	0·4	9	10	5	6	1·2	6·5	11	2·17
		Dec.	30·039	1·396	51·0	10·2	40·8	39·6	29·0	10·6	34·4	31·0	·173	2·1	0·3	86	564	43·7	23·8	0·6	7	9	5	10	2·0	6·2	12	3·50
SILLOTH (Cumberland), "The Rectory," Rev. F. Redford, M.A., F.R.A.S., F.M.S.	28	Oct.	30·060	1·363	65·0	28·7	36·3	54·0	39·7	14·3	45·9	43·1	·280	3·2	0·4	90	550	87·0	34·8	1·1	5	9	5	12	7·8	5·8	13	2·19
		Nov.	30·201	1·073	56·2	23·8	32·4	45·8	35·4	10·4	40·2	36·5	·216	2·5	0·4	87	560	79·2	29·2	1·1	9	10	4	7	8·1	5·3	7	1·54
		Dec.	30·174	1·439	50·5	8·0	42·5	39·2	27·6	11·6	33·6	30·2	·168	2·0	0·3	87	567	58·7	22·5	1·2	6	7	9	9	6·8	6·3	9	3·24
CARLISLE, Spital (Cumberland), Isaac Cartmell, Esq., F.M.S.	114	Oct.	29·951	1·338	66·8	26·6	40·2	54·7	38·7	16·0	46·0	41·9	·267	3·1	0·5	87	548	77·3	33·2	0·8	6	9	4	12	3·5	7·1	11	1·77
		Nov.	30·097	1·078	55·0	19·6	35·4	48·3	33·5	12·0	39·2	35·5	·208	2·4	0·4	87	559	62·3	27·3	0·9	10	8	2	10	3·4	6·0	8	1·10
		Dec.	30·073	1·380	54·6	1·5	53·1	39·1	25·3	13·8	32·4	29·0	·161	1·9	0·3	87	567	47·7	19·6	1·0	5	8	9	9	3·5	5·7	6	1·47
BYWELL (Northumberland), Mr. John Dawson, Assistant to W. B. Beaumont, Esq., M.P.	87	Oct.	29·938	1·332	65·0	31·0	34·0	56·0	42·0	14·0	47·5	42·2	·269	3·1	0·7	83	547	67·3	35·8	1·2	7	8	4	12	—	5·9	13	1·05
		Nov.	30·072	0·952	57·0	25·0	32·0	46·2	36·2	10·0	40·3	34·6	·201	2·4	0·5	81	558	59·0	29·8	1·4	8	11	2	9	—	6·0	19	2·41
		Dec.	—	—	—	1·0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5	0·66
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	124	Oct.	30·000	1·503	59·2	31·4	27·8	52·7	41·1	11·6	45·8	42·4	·271	3·1	0·5	88	550	—	40·6	1·4	12	4	3	12	—	4·5	17	0·69
		Nov.	30·147	1·087	55·5	26·5	29·0	44·8	35·6	9·2	40·0	35·9	·211	2·4	0·5	86	559	—	35·2	1·6	15	5	1	9	—	5·9	21	3·82
		Dec.	30·147	1·571	54·3	8·5	45·8	38·7	28·9	9·8	34·1	31·6	·179	2·1	0·3	90	556	—	28·3	1·4	12	1	3	15	—	5·0	11	0·68
WARINGSTOWN, Co. Down (Ireland), Thomas Waring, Esq.	191	Oct.	29·865	1·122	64·0	32·0	32·0	54·3	41·4	12·9	47·1	44·8	·297	3·4	0·3	92	545	79·7	39·1	2·4	8	7	5	11	—	5·1	14	1·32
		Nov.	30·024	0·830	57·0	20·0	37·0	47·3	36·3	11·0	41·7	37·4	·225	2·6	0·5	86	555	69·5	32·4	2·4	12	6	3	9	—	4·4	15	1·29
		Dec.	29·906	1·318	55·0	12·0	43·0	41·2	28·5	12·7	35·0	31·9	·180	2·1	0·3	88	561	57·4	25·6	2·2	4	2	9	16	—	4·4	10	1·64

Second Rain-gauges are placed—

		October.	November.	December.	Total in Quarter.
At Beachy Head, at the height of	515 feet *above the sea*, the amount collected was	0·74 inches.	0·53 inches.	0·37 inches.	1·84 inches.
" "	495 feet " " "	1·02 "	0·95 "	0·55 "	2·52 "
" Strathfield Turgiss, "	38 feet *ground* "	0·54 "	0·56 "	0·77 "	1·87 "
" Oxford, "	22 feet " "	0·74 "	0·66 "	0·81 "	2·21 "
" Cardington, "	36 feet " "	0·60 "	0·60 "	0·40 "	1·60 "
" Nottingham, "	39 feet " "	1·07 "	1·34 "	0·78 "	3·19 "

NOTE.—The *Barometer Reading*, Barnstaple, 7th November, at 9h. a.m., 29·68 inches, has been altered to 30·68 inches.
" Barnstaple, 11th December, at 3h. p.m., 29·58 " " 30·58 "

The Maximum Thermometer Reading, Downside, Bath, 15th December, 63°·6, has been altered to 43·6.

The mean daily ranges of temperature were 2°·2 and 1°·4, respectively, below their averages in October and November, but 1°·2 above in December.

The fall of rain at Greenwich in October was 0·8 in., being 2·0 ins. below the average; and back to 1815 there are but two instances of so small a fall, viz.:—In 1830 it was 0·8 in., and in 1834 it was 0·4 in. The fall in November was 0·9 in., being 1·5 ins. below the average; and back to 1815 there are but four instances of so small a fall, viz.:—In 1851 it was 0·6 in., in 1858 it was 0·5 in., in 1867 it was 0·4 in., and in 1871 it was 0·6 in. The fall of rain in December was 0·6 in., being 1·4 ins. below the average, and since 1815 there are but nine instances of so small a fall.

Thunderstorms occurred on one day in October, and on 3 days in December.
Thunder was heard but lightning was not seen on one day in October and December.
Lightning was seen but thunder was not heard on 2 days in November.
Solar halos were seen on 3 days in October, one day in November, and on 3 days in December.
Lunar halos were seen on 2 days in October, 2 days in November, and on 6 days in December.
Snow fell on 2 days in October, 16 days in November, and 11 days in December.
Hail fell on 6 days in October, 13 days in November, and on 6 days in December.
Fog prevailed on 21 days in October, 18 days in November, and on 26 days in December.

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·948	64·0	25·0	39·0	40·7	40·3	26·6	9·4	45·2	40·5	·259	3·0	0·5	85	550	–	–	1·4	10	8	6	6	–	5·4	33	4·38
Helston	–	70·0	25·0	45·0	53·2	40·3	32·3	12·9	46·1	40·6	·258	2·9	0·7	81	556	62·5	37·7	1·5	9	11	5	5	5·0	5·0	26	3·75
Truro	30·003	63·0	17·0	49·0	51·8	38·0	34·5	13·8	44·6	40·0	·253	2·9	0·7	84	553	–	–	1·9	8	10	5	8	–	6·6	35	3·95
Plymouth	30·045	64·2	20·8	43·4	49·6	38·2	30·2	11·4	43·7	39·7	·251	2·9	0·5	86	556	–	–	1·5	9	10	5	7	–	6·9	30	4·70
Torquay	29·982	64·8	24·8	42·0	49·0	38·4	32·2	10·6	43·5	38·9	·242	2·8	0·6	84	550	83·4	31·3	1·5	8	9	4	9	2·5	6·7	30	2·90
Ventnor	30·050	63·0	21·3	41·7	48·6	39·6	29·9	9·0	44·1	41·7	·239	3·1	0·3	91	554	–	–	–	9	11	3	8	3·5	6·3	29	2·60
Osborne	29·970	67·3	19·7	47·6	47·5	36·4	30·8	11·1	41·6	39·4	·250	2·9	0·3	92	555	67·7	33·5	0·4	9	9	5	8	–	6·6	16	1·60
Bournemouth	30·004	63·8	16·6	47·2	47·1	35·4	34·4	11·7	41·2	36·8	·225	2·6	0·5	84	557	–	–	1·2	14	8	2	7	–	6·0	29	2·95
Brighton	30·012	64·8	20·2	44·6	46·2	35·9	30·7	10·4	41·1	36·7	·222	2·6	0·5	85	555	–	32·1	0·7	13	7	4	6	–	6·6	22	2·05
Salisbury	30·010	67·0	10·0	57·0	47·6	31·4	42·7	16·2	39·5	36·1	·217	2·5	0·5	83	558	67·8	29·3	1·2	15	7	4	5	–	6·7	31	2·40
Barnstaple	29·978	70·0	21·0	49·0	49·9	38·3	34·3	11·6	44·1	39·6	·251	2·9	0·5	85	555	–	–	1·1	9	8	5	8	–	4·2	28	4·35
Ramsgate	–	65·4	20·9	44·5	46·3	36·2	29·1	10·1	–	–	–	–	–	–	–	73·5	–	0·9	7	7	6	11	–	7·5	38	3·25
Strathfield Turgiss	30·012	66·0	10·7	55·2	46·3	33·2	39·7	13·1	39·7	36·7	·225	2·6	0·3	90	557	71·6	29·5	0·8	10	9	5	7	1·1	7·3	30	2·75
Bath	30·001	65·0	12·6	52·4	46·3	34·5	34·7	11·8	40·0	37·2	·228	2·7	0·3	90	548	71·6	30·7	1·4	9	6	6	10	–	7·2	31	3·35
Marlborough	30·010	66·9	13·4	53·5	46·4	33·9	37·9	12·5	39·8	36·4	·221	2·5	0·4	88	551	–	28·3	0·7	8	9	3	11	–	7·0	36	2·75
Blackheath	29·999	68·1	14·7	53·4	45·3	34·4	34·5	10·9	40·1	35·8	·217	2·5	0·5	85	557	73·6	31·6	0·8	8	8	5	10	–	7·4	30	2·85
Streatley	–	66·7	13·6	53·7	–	–	37·4	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	7·5	–	2·55
Camden Square	29·999	67·4	16·1	51·3	46·3	35·3	34·5	11·3	40·2	36·0	·220	2·5	0·4	85	558	62·9	31·2	–	12	3	4	12	–	6·8	26	2·35
Oxford	30·008	65·1	11·4	53·7	45·6	34·2	35·2	11·4	39·9	37·2	·227	2·6	0·3	90	556	68·1	32·1	1·0	8	6	6	11	0·5	7·6	31	2·12
Royston	30·011	63·7	11·6	52·1	45·2	32·5	34·7	12·7	38·9	36·0	·217	2·5	0·4	89	557	–	–	–	8	5	7	11	–	7·0	26	1·90
Cardington	29·953	64·0	2·0	62·0	45·5	32·4	39·4	13·1	39·1	35·6	·223	2·6	0·3	91	559	52·1	28·2	1·0	10	6	5	10	–	7·1	27	2·26
Cambridge	29·965	65·0	-1·0	66·0	45·8	33·8	40·9	12·0	40·0	36·7	·226	2·6	0·3	88	560	72·0	29·3	1·0	10	5	9	7	–	6·5	43	2·95
Rugby	29·996	65·5	-1·0	66·5	46·4	32·4	46·5	14·0	39·5	35·6	·215	2·5	0·4	86	555	50·1	–	0·3	9	6	6	10	3·6	6·9	25	2·25
Lowestoft	29·951	64·0	13·8	50·2	45·7	35·4	32·3	10·3	40·7	36·3	·220	2·5	0·5	84	557	66·5	32·8	0·9	8	6	3	14	–	6·6	30	4·25
Somerleyton	29·955	68·2	10·0	58·2	46·4	34·8	35·6	11·7	40·4	38·1	·239	2·8	0·2	91	558	–	–	1·0	8	7	8	8	5·6	6·6	49	4·30
Wolverhampton	29·995	61·7	12·5	49·2	44·8	33·4	35·4	11·3	38·8	35·7	·215	2·5	0·4	85	551	–	–	–	7	6	10	8	–	8·1	29	2·60
Leicester	29·979	64·0	3·0	61·0	45·4	34·5	38·2	10·9	39·9	35·8	·216	2·5	0·5	84	555	63·1	27·6	0·8	8	7	8	8	–	8·4	42	2·95
Nottingham	29·968	67·0	-1·3	68·3	46·2	33·2	43·1	13·0	39·4	36·2	·216	2·6	0·3	89	557	63·2	32·2	0·3	9	9	6	7	1·0	7·5	44	3·40
Llandudno	29·971	60·5	23·0	37·5	43·5	40·1	25·3	8·4	44·3	39·0	·241	2·9	0·6	82	553	–	–	1·1	6	7	5	13	–	6·7	33	4·05
Kelstern Grange	29·984	61·7	8·2	53·5	44·4	32·9	35·2	11·5	38·4	35·5	·212	2·4	0·4	89	554	73·6	–	1·1	10	5	5	11	6·1	6·3	41	4·25
Liverpool	29·995	60·5	21·5	39·0	46·7	37·9	27·9	8·8	41·8	38·4	·205	2·7	0·4	88	554	–	–	1·1	6	8	7	10	–	6·4	32	4·00
Bolton	29·976	63·0	13·5	49·5	45·4	31·1	35·6	14·3	39·1	34·7	·205	2·4	0·5	85	552	50·9	26·8	1·3	10	6	5	10	4·8	7·3	36	10·75
Halifax	29·969	67·0	10·0	57·0	44·6	35·1	36·3	9·5	39·3	35·8	·217	2·5	0·4	88	550	64·0	31·5	0·6	6	6	12	–	6·8	33	4·80
Hull	29·963	63·0	7·0	56·0	46·0	35·5	37·0	12·5	40·2	35·0	·208	2·4	0·5	78	560	–	–	1·6	10	5	6	10	0·9	–	39	3·90
Stonyhurst	29·984	62·9	12·0	50·9	46·3	34·3	37·0	12·0	40·0	35·7	·214	2·5	0·4	85	553	72·7	31·6	–	8	5	6	11	–	7·0	49	9·00
Bradford	29·972	63·2	13·2	50·0	45·9	35·6	33·1	10·3	40·8	36·1	·216	2·5	0·5	84	551	52·6	–	1·2	11	6	3	11	–	6·5	47	3·25
Leeds	29·975	64·0	12·0	52·0	47·9	35·1	35·7	12·7	41·8	36·3	·219	2·5	0·6	81	555	54·8	–	1·9	8	5	4	13	–	3·7	34	3·25
Cockermouth	29·957	66·6	10·2	56·4	46·6	35·0	40·6	11·6	40·8	36·6	·220	2·5	0·4	87	556	62·9	29·4	0·4	7	9	6	9	1·4	6·4	38	6·75
Silloth	29·955	65·0	8·0	57·0	48·3	34·2	37·1	12·1	39·9	36·6	·221	2·6	0·4	88	559	75·0	28·8	1·1	7	9	6	9	7·6	5·8	29	6·70
Carlisle	29·955	66·8	1·5	65·3	46·4	32·4	42·9	13·9	39·2	35·5	·212	2·5	0·4	87	558	62·4	26·7	0·9	7	8	5	10	3·5	6·3	25	4·20
Bywell	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	37	4·15
North Shields	–	59·2	8·5	50·7	45·4	35·2	34·2	10·2	40·0	36·6	·220	2·5	0·4	88	555	–	34·7	1·5	13	3	2	12	–	5·1	49	5·10

The highest temperatures of the air were at Helston and Barnstaple, both 70°·0; Somerleyton, 68°·2; and Blackheath, 68°·1.

The lowest temperatures of the air were at Nottingham, −1°·3; Cambridge and Rugby, both −1°·0; Carlisle, 1°·5; Cardington, 2°·0; Leicester, 3°·0: Hull, 7°·0; Silloth, 8°·0; Kelston Grange, 8·2; and North Shields, 8°·5.

The greatest daily ranges of the temperatures of the air were at Salisbury, 16°·2; Bolton, 14°·3; Rugby, 14°·0; and Carlisle 13°·9.

The least daily ranges of the temperatures of the air were at Llandudno, 8°·4; Liverpool, 8°·8; Ventnor, 9·0; and Guernsey, 9°·4.

The greatest number of rainy days were at Lowestoft, 50; Somerleyton, Stonyhurst, and North Shields, all 49; and Bradford 47.

The least number of rainy days were at Osborne, 16; Brighton, 22; Rugby and Carlisle, both 25; and Helston, Camden Square, and Royston, all 26.

The heaviest falls of rain were at Bolton, 10·79 inches; Stonyhurst, 9·03 inches; Cockermouth, 8·29 inches; and Helston, 8·10 inches.

The least falls of rain were at Royston 1·90 inches; Osborne, 2·06 inches; Oxford, 2·12 inches; and Cardington, 2·26 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·948	64·0	25·0	39·0	49·7	40·3	26·0	9·4	45·2	40·5	·259	3·0	0·5	85	550	–	–	1·4	10	8	6	6	–	5·4	33	4·38
Between the latitudes 50° and 51°	30·022	65·5	20·4	45·1	49·1	37·8	31·6	11·3	43·2	39·2	·247	2·8	0·5	86	555	72·9	23·8	1·2	10	10	4	7	3·7	6·3	27	3·74
Between the latitudes 51° and 52°	30·002	66·8	14·4	52·4	46·7	34·6	36·0	12·1	40·4	36·9	·226	2·6	0·4	88	555	69·9	30·3	1·0	10	7	5	9	0·8	6·9	31	3·05
Between the latitudes 52° and 53°	29·976	64·8	5·5	59·3	45·7	33·6	38·5	12·1	39·6	36·3	·221	2·6	0·4	87	557	61·2	30·0	0·8	9	6	7	9	3·4	7·2	37	2·95
Between the latitudes 53° and 54°	29·977	62·9	13·4	49·5	46·2	35·1	33·8	11·1	40·6	36·3	·215	2·5	0·5	84	554	61·4	29·9	1·2	8	6	5	11	3·9	6·3	38	5·46
Between the latitudes 54° and 55°	29·956	66·1	6·6	59·5	46·4	33·9	40·0	12·5	39·8	36·2	·218	2·5	0·4	87	558	66·8	28·3	0·8	7	9	6	9	4·2	6·2	32	5·95
Mean for the Quarter, 50° to 55°, Year 1876	29·456	69·5	24·9	44·6	51·9	41·8	33·1	10·1	46·5	42·8	·278	3·2	0·5	87	541	66·6	37·0	1·1	5	8	10	7	3·5	7·1	55	12·24
Mean for the Quarter, 50° to 55°, Year 1877	29·604	66·7	27·2	39·5	51·6	49·5	30·5	12·1	45·4	41·0	·259	3·0	0·5	85	545	71·7	33·9	1·3	5	3	9	13	4·1	6·0	58	10·75
Mean for the Quarter, 50° to 55°, Year 1878	29·513	70·0	12·9	57·1	46·7	35·5	33·9	11·2	40·9	36·7	·227	2·6	0·5	86	547	66·9	30·6	1·1	9	5	6	10	3·8	6·4	49	9·35
Mean for the Quarter, 50° to 55°, Year 1879	29·987	65·2	12·1	53·1	46·8	35·0	36·0	11·8	40·7	37·0	·223	2·6	0·4	86	556	66·4	30·5	1·0	9	8	5	9	3·2	6·6	33	4·24

Remarks on the Weather during the Quarter ending March 31st, 1880.

By James Glaisher, Esq., F.R.S., *&c.*

January was an exceedingly cold month, with the smallest rainfall since 1826, very high barometer readings throughout the month, and an absence of strong winds. Several days towards the end of the month were distinguished by very low temperatures; the table on page 66, shows the minimum readings on those days at the several stations.

February was a warm month, with a rainfall somewhat above its average, with high barometer readings during the first week, and low afterwards, and with strong winds occasionally.

March was warm during the first half of the month, with frequent strong winds; from the 11th day the wind was mostly from the east, and occasionally the weather was cold; the rainfall was small, and the readings of the barometer were high and constantly above their averages from the 5th day. The month was most favourable for agricultural work.

The few days of warm weather with which the year 1879 closed continued till the 5th day of January, the average excess of these five days was $6\frac{1}{2}°$. On the 6th a cold period set in and continued to February 5th, the average deficiency of temperature for these 31 days was $5\frac{1}{2}°$, and from February 6th to March 31st the weather was with few exceptions warm, and the mean daily excess for these 55 days was 3°·2.

With January closed the very long period of 15 months in succession of the mean temperature of each month being below its average. The mean temperature of the 15 months ending January in every year from 1773 to 1880 is shown in the following table :—

Table showing the Mean Temperature of the Fifteen Months ending January, from 1771—1773 to 1878—1880.

Years.	Mean Temp. of the 15 months ending Jan.	Years.	Mean Temp. of the 15 months ending Jan.	Years.	Mean Temp. of the 15 months ending Jan.	Years.	Mean Temp. of the 15 months ending Jan.	Years.	Mean Temp. of the 15 months ending Jan.	Years.	Mean Temp. of the 15 months ending Jan.
	°		°		°		°		°		°
1771—1773	45·6	1789—1791	46·5	1807—1809	45·9	1825—1827	47·6	1843—1845	47·3	1861—1863	47·9
1772—1774	44·9	1790—1792	46·2	1808—1810	46·4	1826—1828	46·9	1844—1846	46·1	1862—1864	48·3
1773—1775	46·1	1791—1793	45·8	1809—1811	46·5	1827—1829	47·9	1845—1847	49·2	1863—1865	47·4
1774—1776	46·9	1792—1794	46·1	1810—1812	47·5	1828—1830	45·2	1846—1848	47·3	1864—1866	48·7
1775—1777	46·2	1793—1795	46·3	1811—1813	45·0	1829—1831	45·5	1847—1849	48·8	1865—1867	48·6
1776—1778	46·4	1794—1796	46·1	1812—1814	44 6	1830—1832	48·1	1848—1850	48·0	1866—1868	47·2
1777—1779	47·0	1795—1797	46·3	1813—1815	45·9	1831—1833	47·3	1849—1851	47·9	1867—1869	49·2
1778—1780	48·7	1796—1798	45·0	1814—1816	47·1	1832—1834	47·9	1850—1852	48·0	1868—1870	48·0
1779—1781	47·0	1797—1799	46·6	1815—1817	44·8	1833—1835	49·2	1851—1853	48·5	1869—1871	46·6
1780—1782	47·5	1798—1800	44·6	1816—1818	45·9	1834—1836	47·5	1852—1854	47·2	1870—1872	46·7
1781—1783	44·4	1799—1801	46·3	1817—1819	48·9	1835—1837	46·1	1853—1855	46·6	1871—1873	48·4
1782—1784	45·1	1800—1802	46·8	1818—1820	47·4	1836—1838	45·2	1854—1856	45·6	1872—1874	47·8
1783—1785	43·6	1801—1803	45·7	1819—1821	45·6	1837—1839	45·7	1855—1857	46·7	1873—1875	48·0
1784—1786	44·3	1802—1804	46·6	1820—1822	47·5	1838—1840	46·1	1856—1858	48·8	1874—1876	46·8
1785—1787	44·1	1803—1805	47·5	1821—1823	49·0	1839—1841	46·1	1857—1859	48·1	1875—1877	48·1
1786—1788	45·8	1804—1806	46·1	1822—1824	45 9	1840—1842	46·2	1858—1860	48·6	1876—1878	48·3
1787—1789	45·8	1805—1807	48·1	1823—1825	46·7	1841—1843	47·9	1859—1861	45·1	1877—1879	47·6
1788—1790	44·6	1806—1808	47·4	1824—1826	47·7	1842—1844	48·0	1860—1862	47·3	1878—1880	44·0
Mean -	45·8	Mean -	46·4	Mean -	46·5	Mean -	46·9	Mean -	47·5	Mean -	47·7

From this table it will be seen that the mean temperature of the 15 months ending January 1880 was 44°·0, and we have to go back to the years 1813–15 for a similar cold period, and still further back to the years 1783–85, for one of somewhat lower temperature, but in the year 1814 both May and December were more than 2° above their averages, and in 1784 the month of May was 4° above its average, September was 1° above; and January 1785 was nearly $\frac{1}{2}°$ in excess of its average. Therefore there is no instance as far back as we can go of 15 months in succession, every one being below its average.

The readings of the barometer in the neighbourhood of London were above their averages from the 1st of January till the 4th of February without exception; on many days together during this period the mean daily readings were between 0·6 in. and 0·7 in. in excess of the average, the mean amount of excess for the 36 days ending February 5th was 0·44 in. From the 6th of February till the 4th March the readings were below their averages, except on four days, viz.:—February 13th, 23rd, 24th, and 25th, on which days they were slightly above their averages, the mean amount of defect for the 28 days ending March 4th was 0·31 in. From the 5th to the 30th of March the readings were all above their average values, and the mean amount of excess for the 26 days was 0·20 in. The mean reading on the last day of the quarter was 0·47 in. below the average.

The mean reading for the month of January was 30·204 ins., being 0·448 in. above the average, and higher than any value back to 1841; the nearest approach was 30·177 ins. in the year 1858.

The mean reading for the month of February was 29·634 ins., being 0·156 in. below the average.

The mean reading for the month of March was 29·937 ins., being 0·195 in. above the average.

The atmospheric pressure in January was greater than in December by 0·065 in., that in February was less than in January by 0·570 in., and that in March was greater than in February by 0·303 in. From the preceding 39 years' observations the *mean pressure* in January is less

than in December by 0·030 in., that in February is greater than in January by 0·034 in., and that in March is less than in February by 0·048 in.

The mean increase of *pressure* from December to January from all stations was 0·068 in. The mean decrease from January to February from all places was 0·592 in., and the mean increase from February to March from all stations was 0·325 in.

At *Greenwich* the *mean temperature* of January was higher than that in December by 0°·8, that in February was higher than that in January by 8°·6, and that in March was higher than that in February by 2°·5. From the preceding 39 years' observations the *mean temperature* of January is lower than that of December by 1°·4, that of February is higher than that of January by 0°·8, and that of March is higher than that of February by 2°·2. The increase of *mean temperature* from December to January from all places was 1°·2; the increase from January to February was 7°·2, and the further increase from February to March was 1°·5.

The mean temperature of the air for January was 33°·2, being 3°·3 and 5°·4, respectively, below the averages of the preceding 109 years, and 39 years. It was 1°·3 higher than the value in 1879, but with this exception it was lower than any value back to 1871.

The mean temperature of the air for February was 41°·8, being 3°·1 and 2°·4, respectively, above the averages of the preceding 109 years, and 39 years. It was 3°·6 higher than the value in 1879.

The mean temperature of the air for March was 44°·3, being 3°·2 and 2°·7, respectively, above the averages of the 109 years, and 39 years. It was 3°·1 higher than the value in 1879, and higher than any value since 1872.

The mean temperature of the air for the quarter was 39°·8, being 1°·0 above the average of the preceding 109 years, and 0°·1, below the average of the preceding 39 years.

The mean high day temperatures of the air were 2°·6, and 3°·3, respectively, above their averages in February and March, but 5°·7, below in January.

TABLE showing the MINIMUM TEMPERATURES of the AIR at the several STATIONS on the 19th, 20th, 21st, 25th, 26th, 27th, 28th, and 29th of January 1880.

Names of Stations.	JANUARY, 1880.							
	19th.	20th.	21st.	25th.	26th.	27th.	28th.	29th.
	°	°	°	°	°	°	°	°
Guernsey	34·5	27·0	27·0	30·5	30·0	27·0	30·0	31·5
Helston	35·0	34·0	33·0	35·0	30·0	28·0	28·0	33·0
Truro	32·0	31·0	34·0	34·0	26·0	27·0	25·0	28·0
Plymouth	31·8	29·5	30·5	32·5	25·5	24·8	23·2	25·0
Torquay	30·3	30·1	28·7	33·0	25·3	22·1	21·9	35·0
Ventnor	31·5	25·0	25·1	32·8	26·3	30·9	25·7	24·0
Osborne	25·8	20·3	18·2	29·3	23·7	22·8	19·3	22·6
Bournemouth	24·1	21·1	19·1	29·2	24·1	21·1	18·3	26·0
Brighton	21·6	20·4	22·3	26·8	22·5	23·0	20·8	19·3
Salisbury	19·5	13·0	12·0	29·0	14·5	13·0	9·5	16·5
Barnstaple	28·0	23·0	20·0	33·0	20·0	25·0	20·0	28·0
Caterham	22·0	16·4	19·5	27·0	17·1	16·2	13·2	15·2
Ramsgate	24·0	23·2	24·5	27·0	27·1	23·5	21·0	22·1
Strathfield Turgiss	20·5	14·0	15·5	23·9	13·3	14·7	16·9	18·9
Bath	20·9	15·9	20·5	27·3	20·4	20·2	14·5	23·4
Marlborough	21·2	14·7	15·4	25·2	18·5	16·3	8·6	23·1
Bristol	24·3	17·5	19·0	30·0	22·0	20·1	19·0	19·2
Blackheath	21·0	17·2	18·0	23·3	17·5	17·9	18·4	15·0
Greenwich	21·4	17·6	19·3	22·8	17·8	17·2	20·2	17·7
Streatley	23·7	15·0	15·2	29·5	16·9	15·8	17·3	18·0
Camden Square	26·3	19·6	20·2	29·6	20·1	19·2	21·2	22·8
Oxford	16·5	15·5	17·8	20·5	15·5	18·0	18·2	22·2
Royston	21·3	17·3	20·4	26·4	19·7	18·2	15·1	18·1
Cardington	22·0	17·6	18·0	28·4	23·0	16·4	18·6	18·0
Cambridge	19·5	16·5	22·0	28·0	19·5	16·0	17·6	21·0
Rugby	23·5	12·0	20·0	27·0	21·5	15·0	17·0	17·0
Lowestoft	24·0	25·2	28·7	29·1	26·8	24·0	21·9	16·7
Somerleyton	24·2	23·2	28·6	29·0	29·7	21·2	17·2	13·7
Wolverhampton	22·2	16·2	20·0	27·2	25·3	15·6	19·8	18·7
Norwich	24·0	26·0	29·5	30·0	28·5	24·0	19·0	22·0
Leicester	24·5	18·6	22·0	27·8	26·5	20·0	21·0	17·0
Nottingham	25·6	15·5	18·0	28·0	27·9	17·5	22·6	14·0
Llandudno	27·7	26·8	24·2	30·0	27·3	25·3	32·0	38·0
Sheffield	23·0	21·0	26·0	28·0	28·0	21·7	23·2	25·5
Kelstern Grange	23·7	23·0	27·1	26·9	23·1	22·1	18·1	17·0
Liverpool	28·0	22·8	23·6	30·0	27·3	19·7	22·5	24·9
Bolton	20·5	10·7	15·2	25·0	19·8	12·1	14·0	15·0
Bermerside	22·0	19·0	25·0	27·0	21·0	22·0	25·0	26·3
Hull	24·0	23·0	30·0	27·0	25·0	21·0	24·0	21·0
Stonyhurst	17·0	19·4	21·8	26·5	18·5	23·0	25·5	30·9
Bradford	27·1	20·8	22·8	28·0	27·1	23·7	26·0	28·1
Leeds	26·0	21·0	26·0	28·0	23·0	21·0	19·0	22·0
Cockermouth	23·9	17·1	18·2	29·1	23·8	30·6	37·0	40·2
Silloth	24·1	18·5	19·0	25·8	24·8	25·2	36·2	37·4
Carlisle	18·6	15·3	16·5	22·0	27·2	23·3	30·2	32·8
Sunderland	29·0	30·0	32·0	30·0	27·0	26·0	30·0	31·0
North Shields	26·2	22·2	30·0	27·6	25·4	23·8	28·0	27·5
Waringstown (Ireland)	23·0	16·0	16·0	34·0	32·0	38·0	41·0	44·0

From this table it will be seen that on January 19th the lowest reading was 16°·5 at Oxford; on the 20th was 10°·7 at Bolton; on the 21st was 12°·0 at Salisbury; on the 25th was 20°·5 at Oxford; on the 26th was 14°·5 at Salisbury; on the 27th was 12°·1 at Bolton and 13°·0 at Salisbury; on the 28th was 8°·6 at Marlborough and 9°·5 at Salisbury, and on the 29th was 13°·0 at Cardington and 13°·7 at Somerleyton.

The mean low night temperatures of the air were 2°·3, and 1°·7, respectively, above their averages in February and March, but 5°·6, below in January. Therefore the days and nights were very cold in January, but somewhat warm both in February and March.

The mean daily ranges of temperature were 0°·2 and 1°·6, respectively, above their averages in February and March, but the same as the average in January.

1880. MONTHS.	Temperature of Air. Mean.	Air. Diff. from average of 109 years.	Air. Diff. from average of 39 years.	Evaporation. Mean.	Evaporation. Diff. from average of 39 years.	Dew Point. Mean.	Dew Point. Diff. from average of 39 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 39 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 39 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 39 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.
Jan.	33·2	−3·3	−5·4	31·9	−5·2	29·5	−5·5	9·6	0·0	..	0·163	−0·038	1·9	−0·5
Feb.	41·8	+3·1	+2·4	40·3	+2·7	38·5	+3·4	11·4	+0·2	..	0·233	+0·026	2·7	+0·3
Mar.	44·3	+3·2	+2·7	41·8	+2·5	38·9	+2·7	16·2	+1·6	..	0·238	+0·023	2·7	+0·1
Means	39·8	+1·0	−0·1	38·0	0·0	35·6	+0·2	12·4	+0·6	..	0·211	+0·004	2·4	0·0

1880. MONTHS.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 39 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 39 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 39 years.	Rain. Amount.	Rain. Diff. from average of 65 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
Jan.	86	−1	30·204	+0·448	568	+15	0·3	−1·6	179	24	6	1	13·5	49·1
Feb.	89	+4	29·634	−0·156	548	− 5	2·3	+0·8	346	13	12	4	18·0	46·9
Mar.	81	−1	29·937	+0·195	551	+ 1	0·6	−1·0	321	14	14	3	18·0	47·1
Means	85	+1	29·925	+0·162	556	+ 4	Sum 3·2	Sum −1·8	Mean 282	Sum 51	Sum 32	Sum 8	Lowest 13·5	Highest 49·1

NOTE.—In reading this table it will be borne in mind that the plus sign (+) signifies *above* the average, and that the minus sign (−) signifies *below* the average.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter, was as follows:—

Direction of Wind.	JANUARY. Average.	JANUARY. 1880.	JANUARY. Departure from Average.	FEBRUARY. Average.	FEBRUARY. 1880.	FEBRUARY. Departure from Average.	MARCH. Average.	MARCH. 1880.	MARCH. Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	1½	2	+ ½	2	2	0	2¾	2	− ¾
N.	3	1	−2	3	1	−2	3¾	1	−2¾
N.E.	3½	5	+1½	3½	2	−1½	4	5	+1
E.	¾	6	+5¼	2	1	−1	2½	10	+7½
S.E.	2½	4	+1½	1¼	2	+ ¾	2	5	+3
S.	4½	1	−3½	3	3	0	2½	1	−1½
S.W.	9¼	7	−2¼	8	9	+1	7¼	3	−4¼
W.	3¼	4	+ ¾	2¾	8	+5¼	3¼	4	+ ¾
Calm (nearly.)	2¾	1	−1¾	2½	1	−1½	2½	0	−2½

The sign plus (+) denotes excesses over averages; the largest numbers affected with this sign in the month of January are opposite to the E., in February to the W., and in March both to the E. and S.E.

The sign minus (−) denotes defects below averages; the largest numbers affected with this sign in the month of January are opposite to the N., S., and S.W., in February to the N., and in March both to the N. and S.W.

The fall of rain at Greenwich in January was 0·3 in., being 1·6 ins. below the average; and back to 1815 there is but one instance of so small a fall, viz.:—In the year 1826 when it was 0·3 in. The fall in February was 2·3 ins., being 0·8 in. above the average; and the fall in March was 0·6 in., being 1·0 in. below the average, and there are but nine instances back to 1815 of a smaller fall of rain in the month of March, viz.:—

In 1830 it was 0·3 in. In 1843 it was 0·5 in. In 1852 it was 0·2 in.
" 1837 " 0·5 in. " 1849 " 0·6 in. " 1854 " 0·4 in.
" 1840 " 0·3 in. " 1850 " 0·3 in. " 1874 " 0·5 in.

The fall of rain in the quarter was 3·2 ins., being 1·8 in. below the average.

Thunderstorms occurred on the 8th of February at Cardington; on the 1st of March at Helston, and on the 10th at Cardington.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING MARCH 31ST, 1880.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the sixth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1880. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.=100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									
GUERNSEY, Adolphus Collenette, Esq., F.M.S.	204	Jan.	30·119	0·657	51·0	27·0	24·0	41·2	34·8	6·4	38·0	35·8	·210	2·4	0·3	92	561	59·4	32·4	1·0	6	11	9	15	1·3	5·6	6	1·02
		Feb.	29·613	1·613	54·0	37·5	16·5	49·6	41·4	8·2	45·0	42·4	·271	3·1	0·3	91	543	80·5	39·0	1·5	4	5	11	9	3·0	5·5	17	4·56
		Mar.	29·841	0·878	61·5	38·0	23·5	53·5	44·2	9·3	48·0	44·2	·290	3·3	0·5	87	544	91·1	42·0	1·4	8	12	7	4	2·2	4·8	8	1·37
HELSTON (Cornwall), Matthew P. Moyle, Esq., M.R.C.S.	106	Jan.	30·461	0·584	58·0	26·0	32·0	49·1	36·0	13·1	42·0	35·7	·211	2·4	0·7	79	563	52·1	32·8	1·8	6	16	6	3	5·4	6·1	6	1·51
		Feb.	29·924	1·866	57·0	31·0	26·0	54·1	38·8	15·3	46·2	40·0	·248	2·9	0·7	80	548	59·2	34·2	2·5	4	4	12	9	6·5	4·7	19	2·78
		Mar.	30·191	0·956	60·0	30·0	30·0	56·0	41·0	15·0	48·0	42·5	·272	3·1	0·7	82	551	67·5	36·4	2·4	2	21	4	4	5·9	4·6	10	2·18
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	Jan.	30·320	0·559	55·0	22·0	33·0	44·8	34·9	9·9	39·6	35·9	·211	2·4	0·4	87	563	—	—	1·8	6	15	7	3	—	7·3	6	0·85
		Feb.	29·748	1·925	55·0	28·0	27·0	52·0	39·1	12·9	44·9	42·6	·273	3·2	0·2	92	546	—	—	2·7	4	3	11	11	—	7·0	24	4·08
		Mar.	30·009	1·034	59·0	32·0	27·0	53·9	42·2	11·7	46·6	44·5	·294	3·4	0·3	93	549	—	—	2·8	2	16	8	5	—	6·7	17	2·82
PLYMOUTH (Devon), J. Merrifield, Esq., LL.D., F.R.A.S., F.M.S.	69	Jan.	30·348	0·654	52·5	23·2	29·3	42·4	33·8	8·6	37·9	35·3	·207	2·4	0·2	91	565	—	—	1·3	3	14	7	7	—	7·7	8	0·96
		Feb.	29·788	1·784	53·8	32·0	21·8	50·4	39·6	10·8	44·9	42·6	·273	3·2	0·2	92	547	—	—	1·6	5	5	9	10	—	7·6	19	2·93
		Mar.	30·059	1·022	57·2	28·7	28·5	52·7	41·8	10·9	46·5	42·0	·238	3·1	0·6	85	550	—	—	1·8	3	18	4	6	—	6·4	13	1·51
TORQUAY, Babbacombe (Devon), Edwin E. Glyde, Esq., F.M.S.	305	Jan.	30·023	0·739	54·0	21·9	32·1	41·7	33·0	8·7	37·3	33·4	·191	2·2	0·4	87	560	65·4	27·9	1·4	7	13	6	5	3·3	7·6	8	1·17
		Feb.	29·462	1·874	54·8	31·0	23·8	50·1	39·4	10·7	44·5	41·5	·262	3·0	0·4	89	541	96·4	32·1	1·7	4	2	12	11	6·1	7·4	23	4·63
		Mar.	29·742	1·105	58·2	30·9	27·3	50·0	40·7	9·3	45·1	41·2	·259	3·0	0·5	86	546	106·7	34·5	1·6	5	16	4	6	5·5	6·6	14	3·18
VENTNOR, (Isle of Wight) (Royal National Hospital for Consumption) Hartley Sagar, Esq.	150	Jan.	30·304	0·663	50·6	24·2	26·4	40·7	33·4	7·3	37·2	33·6	·193	2·2	0·4	87	565	—	—	—	6	15	6	4	3·5	6·9	6	0·57
		Feb.	29·757	1·512	52·8	32·4	20·4	47·8	39·3	8·5	43·2	40·8	·255	2·9	0·3	92	548	—	—	—	3	6	8	12	5·0	7·4	20	3·04
		Mar.	30·032	0·966	59·0	35·3	23·7	51·3	41·2	10·1	45·7	41·6	·264	3·0	0·4	86	550	—	—	—	3	19	3	6	4·6	5·7	6	0·96
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	Jan.	30·168	0·660	51·2	19·7	31·5	39·3	30·2	9·1	34·4	33·4	·191	2·2	0·1	96	566	56·2	28·3	0·8	8	13	6	4	—	7·0	2	0·28
		Feb.	29·618	1·528	53·4	28·6	24·8	48·2	36·7	11·5	42·2	40·4	·252	2·9	0·2	94	546	76·7	34·0	0·2	2	4	13	10	—	7·3	18	3·05
		Mar.	29·902	1·065	62·6	31·6	31·0	53·4	38·4	15·0	45·4	42·4	·271	3·0	0·4	89	548	99·7	35·6	0·5	4	14	8	5	—	4·6	5	1·03
EASTBOURNE (Sussex), Miss W. L. Hall.	12	Jan.	30·335	0·674	50·7	14·0	36·7	39·2	29·9	9·3	34·9	31·2	·175	2·0	0·4	86	569	55·0	21·2	0·2	12	10	2	7	0·7	—	6	0·52
		Feb.	29·775	1·426	52·9	25·0	27·9	47·2	36·0	11·2	41·7	39·6	·243	2·8	0·2	93	550	77·6	27·7	0·4	6	6	7	10	1·8	—	19	3·46
		Mar.	30·078	1·018	62·2	29·2	33·0	52·8	37·6	15·2	44·8	40·4	·250	2·9	0·5	85	552	97·3	28·5	0·3	3	17	4	7	1·2	—	5	0·81
BOURNEMOUTH, South Bourne, (Hants), T. A. Compton, Esq., B.A., M.D., F.M.S.	95	Jan.	30·268	0·668	50·7	18·1	32·6	38·5	30·1	8·4	34·3	30·3	·169	2·0	0·4	85	567	—	—	1·1	11	13	2	5	—	6·4	7	0·91
		Feb.	29·702	1·566	52·4	26·4	26·0	46·7	38·2	8·5	42·2	39·6	·243	2·8	0·3	90	548	—	—	1·5	5	5	9	10	—	6·3	22	3·37
		Mar.	29·988	1·088	58·2	26·6	31·6	52·0	38·1	13·9	44·7	39·3	·240	2·8	0·6	81	551	—	—	1·6	6	16	2	7	—	4·7	8	0·69
BRIGHTON (Sussex), F. E. Sawyer, Esq., F.M.S.	206	Jan.	30·164	0·673	49·2	19·3	29·9	38·1	29·5	8·6	34·0	30·7	·172	2·0	0·3	87	566	—	27·2	0·7	10	12	4	5	—	6·0	4	0·58
		Feb.	29·613	1·505	52·0	29·6	22·4	46·3	37·3	9·0	41·7	39·5	·243	2·8	0·2	93	547	—	32·8	1·0	5	4	10	10	—	8·4	18	2·61
		Mar.	29·899	1·098	60·0	31·0	29·0	51·5	38·7	12·8	44·8	38·3	·232	2·7	0·7	78	549	—	35·3	1·1	7	12	6	6	—	5·0	6	0·86
SALISBURY (Wilton House), Wilts, T. Challis, Esq.	186	Jan.	30·170	0·690	55·0	9·5	45·5	38·1	24·7	13·4	31·8	29·2	·160	1·9	0·2	90	569	51·8	23·6	1·1	9	13	3	6	—	7·2	4	0·36
		Feb.	29·600	1·546	55·0	24·0	31·0	49·2	32·8	16·4	41·3	38·6	·234	2·7	0·3	91	547	72·0	32·1	1·5	6	5	9	9	—	7·5	22	4·04
		Mar.	29·884	1·092	65·5	22·0	43·5	56·5	34·9	21·6	45·0	41·1	·257	2·9	0·5	86	549	95·1	33·7	1·3	6	14	3	8	—	5·9	7	0·74
BARNSTAPLE (Devon), William Knill, Esq.	43	Jan.	30·312	0·660	54·0	20·0	34·0	42·1	31·8	10·3	37·2	33·1	·189	2·2	0·4	87	566	—	—	1·0	5	16	6	4	—	5·2	6	0·71
		Feb.	29·713	1·920	57·0	29·0	28·0	51·9	40·2	11·7	45·8	41·9	·266	3·0	0·5	86	544	—	—	1·3	4	4	15	6	—	4·5	24	4·25
		Mar.	30·015	1·500	66·0	30·0	36·0	56·6	41·5	15·1	48·1	41·6	·262	3·0	0·8	78	547	—	—	1·4	3	13	9	6	—	4·8	15	1·73
CATERHAM (Surrey), The Metropolitan Asylum, G. Stanley Elliot, Esq., M.D.	608	Jan.	29·635	0·690	52·0	13·2	38·8	36·9	27·3	9·6	32·4	29·9	·167	1·9	0·2	90	558	—	18·3	1·5	6	10	8	7	—	5·8	7	0·57
		Feb.	29·130	1·320	52·5	28·0	24·5	46·1	34·9	11·2	40·7	37·3	·223	2·6	0·4	88	540	—	24·3	2·2	3	3	9	14	—	6·8	18	3·17
		Mar.	29·403	1·080	62·4	30·2	32·2	51·2	36·7	14·5	43·4	37·7	·226	2·6	0·6	80	542	—	24·8	1·8	4	16	5	6	—	4·9	5	0·77
RAMSGATE (Kent), Rev. E. Douglas O'Gara, O.S.B., F.M.S.	108	Jan.	30·265	0·720	54·3	22·0	32·3	39·4	29·7	9·7	34·6	32·6	·186	2·2	0·2	92	568	61·8	—	0·7	5	12	7	7	—	6·0	5	0·31
		Feb.	29·720	1·453	53·6	29·5	24·1	48·0	37·3	10·8	42·1	39·7	·244	2·8	0·3	91	549	78·2	—	1·0	3	3	12	11	—	5·9	14	1·45
		Mar.	30·002	1·124	61·5	34·8	26·7	50·7	40·0	10·7	44·7	42·1	·268	3·1	0·3	91	551	93·1	—		18	6	6	8	—	5·9	4	0·20

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1880. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.=100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	Jan.	30·168	0·693	54·0	13·1	40·9	37·9	26·1	11·8	32·2	29·0	·160	1·9	0·3	87	569	49·4	23·3	0·7	6	13	6	6	1·1	6·5	4	0·58
		Feb.	29·601	1·562	54·4	22·3	32·1	48·8	35·4	13·4	42·0	39·8	·245	2·8	0·3	92	546	76·4	31·9	1·1	4	4	8	13	2·0	7·9	20	3·61
		Mar.	29·896	0·932	64·3	22·3	42·0	55·3	35·6	19·7	45·2	38·5	·233	2·7	0·7	78	549	94·0	30·4	1·3	6	14	3	8	1·8	5·6	4	0·94
BATH (Somerset), St. Gregory's College, Downside, Rev. T. L. Almond, O.S.B., F.M.S.	506	Jan.	29·695	0·670	51·9	14·5	37·4	38·4	28·4	10·0	33·0	30·3	·169	2·0	0·2	90	559	59·7	26·3	1·1	5	10	8	8	—	6·8	10	0·69
		Feb.	29·120	1·757	54·0	30·6	23·4	47·4	37·2	10·2	41·9	39·5	·243	2·9	0·2	92	538	81·8	35·1	1·5	3	2	13	11	—	7·1	22	5·81
		Mar.	29·460	1·119	62·4	27·0	35·4	53·3	36·5	16·8	43·6	39·7	·245	2·8	0·4	86	542	92·2	33·5	1·3	5	14	6	6	—	6·3	11	3·06
MARLBOROUGH (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	474	Jan.	29·878	0·666	53·5	8·6	44·9	38·5	27·3	11·2	32·1	29·8	·166	2·0	0·1	91	563	55·1	22·6	0·3	6	10	8	7	—	6·3	8	0·51
		Feb.	29·272	1·472	54·2	27·3	26·9	48·1	36·1	12·0	41·7	39·0	·239	2·8	0·3	91	541	79·4	30·2	0·5	3	4	13	10	—	7·5	26	3·76
		Mar.	29·575	1·120	61·9	24·6	37·3	55·8	36·2	17·6	44·3	39·1	·239	2·8	0·6	82	544	99·5	29·7	0·8	4	16	4	7	—	6·5	8	1·84
BLACKHEATH (London), James Glaisher, Esq., F.R.S.	160	Jan.	30·203	0·732	54·5	15·0	39·5	37·6	27·4	10·2	32·9	29·6	·164	1·9	0·3	87	569	56·0	24·8	0·5	5	11	6	9	—	6·9	7	0·33
		Feb.	29·631	1·493	53·9	23·3	30·6	47·5	35·6	11·9	41·7	37·9	·228	2·6	0·4	87	548	81·3	32·0	1·2	3	3	9	14	—	6·8	17	2·36
		Mar.	29·928	1·202	66·0	27·0	39·0	54·2	36·3	17·9	44·3	38·6	·234	2·7	0·6	80	550	100·9	32·3	1·1	5	15	5	6	—	5·4	5	0·48
STREATLEY (Berks), "The Vicarage," Rev. J. Slatter, M.A., F.R.S., F.M.S.	150	Jan.	30·217	0·675	58·7	15·0	43·7	38·3	28·0	10·3	35·0	30·9	·173	2·0	0·2	92	569	—	—	0·6	8	12	6	5	—	6·9	5	0·44
		Feb.	29·647	1·580	55·2	25·9	29·3	48·2	35·5	12·7	42·0	39·3	·241	2·8	0·3	91	548	—	—	1·5	4	7	11	7	—	7·5	20	3·02
		Mar.	29·946	1·146	65·2	23·6	41·6	55·4	36·5	18·9	45·2	40·0	·247	2·8	0·6	82	550	—	—	1·4	6	13	6	6	—	6·7	6	1·12
CAMDEN SQUARE (London), G. J. Symons, Esq., F.R.S., F.M.S.	123	Jan.	30·243	0·731	55·4	19·2	36·2	37·7	29·5	8·2	33·5	30·9	·173	2·0	0·3	90	569	48·7	26·4	—	8	5	6	12	—	6·6	5	0·31
		Feb.	29·665	1·449	53·7	27·0	26·7	47·8	35·9	11·9	41·9	39·0	·239	2·8	0·3	90	548	68·4	31·8	—	5	1	10	13	—	7·2	19	2·33
		Mar.	29·974	1·182	62·6	28·7	33·9	54·4	37·0	17·4	44·7	39·5	·243	2·8	0·6	82	551	91·3	32·3	—	10	10	5	6	—	6·4	5	0·79
OXFORD (The Observatory), E. J. Stone, Esq., M.A., F.R.S.	210	Jan.	30·152	0·892	53·5	15·8	37·7	37·4	27·4	10·0	32·5	30·6	·172	2·0	0·2	93	568	56·3	25·7	0·8	6	9	7	9	0·4	6·8	5	0·38
		Feb.	29·545	1·640	54·9	25·0	29·9	48·2	36·4	11·8	42·4	39·2	·239	2·7	0·4	88	545	74·8	34·3	1·6	2	3	13	11	1·3	7·3	22	2·38
		Mar.	29·870	1·227	62·2	26·9	35·3	53·1	36·5	16·6	44·7	37·5	·225	2·6	0·7	76	549	96·9	33·6	1·2	5	13	6	7	3·0	6·0	5	1·40
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	Jan.	30·095	0·722	53·8	15·1	38·7	37·8	27·3	10·5	32·9	29·9	·167	1·9	0·3	88	567	—	—	—	4	6	11	10	—	6·8	5	0·22
		Feb.	29·514	1·404	53·9	27·7	26·2	47·9	34·7	13·2	41·5	37·9	·227	2·6	0·4	88	546	—	—	—	3	2	14	10	—	6·4	17	1·98
		Mar.	29·835	1·236	64·5	22·8	41·7	54·1	33·3	20·8	43·2	37·7	·226	2·6	0·6	81	550	—	—	—	8	13	5	5	—	5·9	4	1·05
BEDFORD, Cardington, Mr. J. McLaren, Assistant to S. C. Whitbread, Esq., M.P.	105	Jan.	30·237	0·900	53·4	13·0	40·4	37·7	28·0	9·7	32·8	30·4	·170	1·9	0·2	91	569	40·7	23·4	0·6	7	5	8	11	—	7·1	4	0·30
		Feb.	29·638	1·560	55·6	25·0	30·6	48·3	34·2	14·1	41·0	39·1	·239	2·8	0·2	93	548	60·8	28·5	2·0	4	1	9	15	—	6·7	15	2·00
		Mar.	29·967	1·280	62·4	25·0	37·4	53·4	35·0	18·4	43·5	38·3	·231	2·7	0·6	81	552	79·2	29·2	1·5	3	17	3	8	—	5·3	6	1·70
CAMBRIDGE (Trinity College), J. W. L. Glaisher, Esq., M.A., F.R.S.	40	Jan.	30·310	0·788	56·3	16·0	40·3	39·1	29·1	10·0	34·2	31·5	·178	2·1	0·3	89	569	60·2	25·7	0·8	7	4	11	9	—	6·0	10	0·24
		Feb.	29·718	1·508	56·0	25·0	31·0	49·3	37·0	12·3	42·8	39·5	·243	2·8	0·4	88	548	85·5	31·4	1·4	4	1	15	9	—	6·7	18	1·61
		Mar.	30·045	1·196	64·3	23·8	40·5	55·5	33·9	21·6	43·8	38·2	·230	2·7	0·6	80	553	108·2	30·7	1·1	6	12	8	5	—	4·6	7	0·87
RUGBY (Warwickshire), Stockton, "The Rectory," W. Tuckwell, Esq.	289	Jan.	30·014	0·758	54·0	12·0	42·0	37·6	26·9	10·7	32·8	31·4	·177	2·0	0·2	95	565	41·1	24·4	0·2	8	8	11	4	5·1	6·5	6	0·49
		Feb.	29·472	1·522	54·5	26·0	28·5	47·3	35·9	13·4	40·6	38·6	·234	2·8	0·2	93	546	52·0	30·1	0·5	3	4	14	8	7·3	7·5	21	2·50
		Mar.	29·755	1·234	63·0	24·0	39·0	54·0	34·7	19·3	43·1	39·6	·244	2·8	0·4	87	548	62·7	31·2	0·4	6	15	6	4	7·0	5·1	5	1·38
LOWESTOFT (Suffolk), S. H. Miller, Esq., F.R.A.S., F.M.S.	88	Jan.	30·262	0·852	55·5	16·7	38·8	39·3	30·7	8·6	35·0	31·7	·178	2·1	0·3	87	567	53·3	27·8	0·5	6	6	6	13	—	7·0	5	0·07
		Feb.	29·680	1·514	54·7	31·0	23·7	44·3	34·8	9·5	40·0	37·2	·222	2·6	0·3	90	551	72·2	32·0	1·0	3	3	9	14	—	6·3	17	1·66
		Mar.	30·007	1·370	60·0	29·0	31·0	48·7	37·2	11·5	42·6	38·7	·235	2·7	0·5	86	554	87·7	35·1	0·6	5	14	4	8	—	6·1	7	0·85
SOMERLEYTON (Suffolk), The Rectory, Rev. C. J. Steward, F.M.S.	50	Jan.	30·318	0·862	56·2	13·7	42·5	38·1	30·3	8·5	34·6	32·8	·187	2·2	0·2	93	568	—	—	0·9	5	6	10	10	4·8	6·6	7	0·21
		Feb.	29·733	1·552	56·2	28·7	27·5	45·7	35·5	10·2	40·8	39·2	·239	2·9	0·2	92	550	—	—	1·2	3	3	14	9	6·5	6·2	17	1·84
		Mar.	30·062	1·416	59·0	27·0	32·0	47·7	37·8	9·9	42·6	38·7	·235	2·7	0·5	86	555	—	—	1·2	8	13	4	6	7·1	5·5	8	0·68
WOLVERHAMPTON (Staffordshire), Wrottesley, E. Simpson, Esq.	500	Jan.	29·791	0·818	53·8	15·6	38·2	37·1	28·3	8·8	32·8	29·8	·166	1·9	0·2	88	561	—	—	—	3	8	13	7	—	8·4	4	0·54
		Feb.	29·187	1·420	52·5	28·5	24·0	45·9	34·7	11·2	40·1	37·6	·225	2·6	0·3	91	541	—	—	—	2	4	13	10	—	8·3	21	2·31
		Mar.	29·555	1·400	59·8	26·0	33·8	50·3	34·3	16·0	41·0	37·8	·227	2·6	0·4	89	547	—	—	—	1	17	6	7	—	8·3	4	0·81

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1880. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
NORWICH (Norfolk), The Literary Institution, JOHN QUINTON, ESQ., JUN.	42	Jan.	30·323	0·876	56·0	19·0	37·0	39·0	31·5	7·5	34·9	32·8	·187	2·2	0·2	92	568	—	—	—	3	5	15	8	—	—	3	0·07
		Feb.	29·728	1·498	54·0	30·0	24·0	47·3	38·0	9·3	42·4	39·3	·241	2·8	0·4	89	549	—	—	—	2	3	16	8	—	—	14	1·83
		Mar.	30·081	1·336	59·5	29·0	30·5	59·3	37·5	12·8	43·1	38·7	·235	2·7	0·5	84	554	—	—	—	7	14	5	5	—	—	4	0·78
LEICESTER (Town Museum), W. J. HARRISON, ESQ., F.G.S.	238	Jan.	30·083	0·823	54·8	17·0	37·8	39·6	30·6	9·0	34·8	31·1	·174	2·0	0·3	86	564	52·9	24·1	0·7	3	5	13	10	—	7·9	7	0·69
		Feb.	29·457	1·462	56·8	25·9	30·9	47·6	37·2	10·4	42·0	37·9	·229	2·6	0·5	86	544	71·9	29·0	1·2	4	2	11	12	—	7·6	18	2·35
		Mar.	29·813	1·390	61·2	24·8	36·4	51·8	36·1	15·7	43·4	37·9	·228	2·6	0·6	81	549	91·3	27·3	0·8	6	13	6	6	—	7·7	6	0·78
NOTTINGHAM (Notts), M.O. TARBOTTON, ESQ., C.E., F.G.S., F.M.S.	183	Jan.	30·132	0·836	55·7	14·0	41·7	38·7	29·4	9·3	34·0	30·9	·174	2·0	0·3	88	566	56·9	28·9	0·2	6	10	9	6	0·5	7·5	7	0·74
		Feb.	29·523	1·438	55·2	27·9	27·3	47·8	35·2	12·6	41·2	38·5	·233	2·7	0·3	91	546	66·1	32·8	0·4	5	3	12	9	2·1	6·3	21	1·87
		Mar.	29·890	1·456	63·7	25·9	37·8	51·9	35·6	16·3	42·4	38·2	·231	2·7	0·5	86	552	81·6	34·6	0·4	3	18	5	5	0·8	6·8	7	1·12
LLANDUDNO (Carnarvonshire), JAMES NICOL, ESQ., M.D., and THOMAS DALTON, ESQ., M.D.	100	Jan.	30·204	0·920	56·0	24·2	31·8	42·6	34·5	8·1	38·8	33·4	·192	2·2	0·5	82	562	—	—	0·5	4	4	12	11	—	5·8	4	0·70
		Feb.	29·560	1·750	55·2	32·0	23·2	49·6	40·0	9·6	44·8	39·6	·244	2·8	0·6	82	543	—	—	1·1	3	3	8	15	—	5·3	19	1·75
		Mar.	29·938	1·510	59·5	31·7	27·8	51·8	38·7	13·1	45·0	38·7	·235	2·7	0·7	79	550	—	—	0·9	2	10	12	7	—	4·7	6	2·14
KELSTERN GRANGE, near Louth (Lincolnshire), D. GRANT BRIGGS, ESQ., F.M.S.	393	Jan.	29·910	0·943	54·3	16·9	37·4	37·5	29·1	8·4	33·0	30·6	·171	2·0	0·2	91	563	60·0	—	1·0	5	4	10	12	6·4	6·5	8	0·17
		Feb.	29·298	1·521	52·4	30·0	22·4	46·1	34·8	11·3	40·0	37·5	·225	2·6	0·3	91	543	76·3	31·7	1·5	2	3	13	11	8·0	5·9	19	2·20
		Mar.	29·673	1·516	56·1	23·0	33·1	47·0	34·6	12·4	40·3	37·3	·223	2·6	0·4	90	550	87·9	31·7	1·0	5	14	7	5	8·1	6·3	6	2·01
LIVERPOOL, The Observatory, JOHN HARTNUP, ESQ., F.R.A.S.	197	Jan.	30·104	0·904	55·8	19·7	36·1	40·1	32·2	7·9	36·0	32·5	·186	2·1	0·4	87	563	—	—	1·0	4	12	9	6	—	6·6	6	1·06
		Feb.	29·467	1·884	53·4	29·4	24·0	48·2	37·9	10·3	42·6	38·5	·233	2·7	0·4	86	544	—	—	1·3	1	7	12	9	—	6·8	19	1·25
		Mar.	29·840	1·528	58·5	31·0	27·5	50·7	37·4	13·3	43·0	37·3	·223	2·6	0·6	81	550	—	—	1·3	1	17	8	5	—	5·3	6	1·57
BOLTON, Sharples (Lancashire), REV. T. MACKERETH, F.R.A.S., F.M.S.	481	Jan.	29·775	0·884	53·0	10·7	42·3	38·6	25·3	13·3	33·1	28·7	·158	1·9	0·3	83	530	43·0	22·9	0·6	4	7	12	8	2·8	7·2	7	0·76
		Feb.	29·143	1·552	52·0	24·0	28·0	46·1	32·1	14·0	40·0	36·5	·216	2·5	0·4	88	540	52·5	30·8	2·7	3	3	13	10	6·7	7·0	23	2·92
		Mar.	29·521	1·496	58·2	25·0	33·2	51·3	30·7	20·6	41·2	35·8	·210	2·4	0·6	82	546	66·5	28·4	1·5	3	13	9	6	4·0	6·7	11	3·38
HALIFAX, Bermerside Observatory (Yorkshire), E. J. CROSSLEY, ESQ., F.R.A.S.	530	Jan.	29·790	0·880	51·8	19·0	32·8	39·4	31·2	8·2	35·2	31·1	·174	2·1	0·3	84	558	51·3	27·1	0·4	3	7	7	14	—	6·8	4	0·46
		Feb.	—	—	52·5	28·0	24·5	46·8	36·1	10·7	41·2	36·7	·218	2·5	0·5	84	—	73·6	32·2	0·9	2	5	11	11	—	7·2	19	3·39
		Mar.	—	—	60·0	27·5	32·5	48·1	35·5	12·6	40·7	36·2	·213	2·5	0·5	85	—	76·9	33·6	0·6	2	17	7	5	—	7·1	10	2·66
HULL (Yorkshire), The People's Park, MR. E. PEAKE.	12	Jan.	30·337	0·988	55·0	21·0	34·0	39·1	29·9	9·2	35·2	31·1	·174	2·1	0·3	84	568	—	—	1·4	6	6	9	10	2·3	8·0	6	0·38
		Feb.	29·697	1·488	54·0	30·0	24·0	46·8	35·3	11·5	41·8	36·6	·219	2·5	0·6	83	549	62·2	33·6	2·3	4	2	14	9	—	5·4	16	1·94
		Mar.	30·089	1·538	57·0	27·0	30·0	49·1	34·9	14·2	42·5	35·8	·211	2·4	0·7	78	555	73·1	32·2	1·1	3	16	5	7	1·7	7·4	10	2·76
STONYHURST (Lancashire), REV. S. J. PERRY, F.R.S., F.M.S., F.R.A.S.	363	Jan.	29·928	0·933	55·0	17·0	38·0	39·3	29·0	10·3	34·2	29·0	·160	1·9	0·4	81	562	57·7	27·0	—	4	7	12	8	—	7·1	9	0·88
		Feb.	29·284	1·598	55·3	26·8	28·5	47·8	36·1	11·7	41·3	38·0	·229	2·6	0·4	89	542	81·3	33·1	—	1	2	14	12	—	8·2	26	3·76
		Mar.	29·627	1·540	55·9	27·8	28·1	50·8	34·7	16·1	41·1	38·1	·230	2·7	0·5	88	548	91·5	33·1	—	4	15	6	6	—	6·6	12	3·17
BRADFORD (Yorkshire), J. MCLANDSBOROUGH, ESQ., C.E., F.G.S.	366	Jan.	29·918	0·972	54·3	29·8	33·5	40·6	32·2	8·4	36·7	31·8	·181	2·1	0·5	83	559	43·9	—	1·1	6	8	9	8	—	6·8	9	0·91
		Feb.	29·290	1·424	52·8	28·0	24·8	47·4	37·9	9·5	42·5	38·1	·230	2·6	0·5	85	540	52·1	—	1·6	3	4	7	15	—	7·2	21	2·56
		Mar.	29·648	1·534	55·1	32·9	22·2	48·5	37·1	11·4	41·7	37·0	·221	2·5	0·5	85	548	60·7	—	1·3	3	11	9	8	—	6·6	15	2·76
LEEDS (Yorkshire), The Philosophical Hall, H. CROWTHER, ESQ.	137	Jan.	30·189	0·940	57·0	19·0	38·0	42·7	32·0	10·7	38·0	31·6	·178	2·1	0·6	78	562	46·9	—	1·7	4	9	4	14	—	3·7	3	0·05
		Feb.	29·542	1·668	56·0	28·0	28·0	49·7	37·3	12·4	44·0	37·9	·228	2·6	0·7	78	543	57·5	—	2·3	4	5	8	12	—	4·2	20	1·95
		Mar.	29·919	1·540	60·0	32·0	28·0	51·1	37·3	13·8	43·4	37·5	·224	2·6	0·6	80	551	61·0	—	2·2	3	15	5	8	—	3·3	8	2·75
COCKERMOUTH (Cumberland), H. DODGSON, ESQ., M.D., F.M.S., F.R.A.S.	146	Jan.	30·130	1·014	52·1	17·5	34·6	40·8	32·9	7·9	36·7	33·3	·191	2·2	0·4	88	563	49·1	28·0	0·6	4	9	10	8	1·3	7·2	10	1·32
		Feb.	29·483	1·702	51·6	27·4	24·2	47·5	38·9	8·6	42·8	38·8	·236	2·7	0·5	86	543	71·1	31·6	0·8	3	5	11	10	3·2	7·5	24	4·02
		Mar.	29·871	1·648	62·0	25·3	36·7	52·7	34·6	18·1	43·0	35·7	·210	2·4	0·8	76	551	92·6	27·6	0·4	3	13	7	8	1·5	5·4	10	1·70
SILLOTH (Cumberland), "The Rectory," REV. F. REDFORD, M.A., F.R.A.S., F.M.S.	28	Jan.	30·257	1·115	51·2	18·5	32·7	40·2	32·0	8·2	36·2	31·8	·189	2·1	0·5	84	566	60·0	27·3	1·0	3	11	8	9	6·8	6·6	11	1·01
		Feb.	29·611	1·810	50·9	23·9	22·0	46·7	37·1	9·6	41·7	38·5	·235	2·7	0·4	89	547	77·6	32·9	1·5	3	5	9	12	9·2	6·1	19	2·95
		Mar.	30·016	1·681	60·3	27·2	33·1	49·9	34·9	15·0	41·4	36·9	·229	2·5	0·5	85	555	90·3	29·9	1·4	3	16	5	7	8·3	5·1	8	1·82

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1880. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
CARLISLE, Spital (Cumberland), ISAAC CARTMEL, ESQ., F.M.S.	114	Jan	30·162	1·052	53·6	15·3	38·3	39·7	29·2	10·5	34·7	31·8	·180	2·1	0·3	89	566	47·5	23·3	1·0	5	13	6	7	2·7	7·0	8	1·33
		Feb.	29·506	1·660	55·3	28·3	27·0	48·2	36·5	11·7	42·2	39·1	·239	2·7	0·4	89	545	69·5	30·6	1·7	2	7	8	12	5·2	6·2	21	1·93
		Mar.	29·917	1·638	58·8	21·8	37·0	51·7	32·3	19·4	40·9	35·9	·211	2·5	0·5	83	554	110·1	26·4	1·1	4	15	5	7	3·4	4·3	9	1·22
NORTH SHIELDS (Northumberland), ROBERT SPENCE, ESQ.	124	Jan.	30·227	1·142	57·2	22·2	35·0	39·3	31·9	7·4	35·6	32·8	·188	2·2	0·3	90	566	—	31·5	1·3	9	4	4	14	—	5·4	4	0·38
		Feb.	29·560	1·475	52·5	29·0	23·3	46·1	36·8	9·3	41·3	37·5	·225	2·6	0·4	87	547	—	36·5	1·7	7	3	7	12	—	5·5	15	1·49
		Mar.	30·012	1·753	56·0	27·6	28·4	45·9	36·9	9·0	40·6	37·7	·226	2·6	0·3	90	556	—	36·3	1·6	7	8	8	8	—	6·8	9	1·64
WARINGSTOWN, Co. Down (Ireland), THOMAS WARING, ESQ.	191	Jan.	29·977	1·026	54·0	16·0	38·0	42·0	32·8	9·2	37·7	34·4	·199	2·3	0·4	88	559	59·4	30·0	2·3	4	4	14	9	—	5·6	11	1·22
		Feb.	29·400	1·968	56·0	27·0	29·0	48·8	35·6	13·2	42·0	39·3	·241	2·8	0·3	91	543	73·4	32·3	2·7	3	2	10	14	—	4·9	23	2·67
		Mar.	29·744	1·534	61·0	28·0	33·0	53·0	35·6	17·4	43·7	38·3	·231	2·7	0·6	81	548	86·5	33·4	2·5	2	12	11	6	—	4·1	11	2·24

Second Rain-gauges are placed—

		January.	February.	March.	Total in Quarter.
At Beachy Head, at the height of	515 feet *above the sea*, the amount collected was	0·44 inches.	2·25 inches.	0·68 inches.	3·37 inches.
" " "	495 " " "	0·42 "	3·20 "	0·66 "	4·28 "
" Strathfield Turgiss, "	38 " *ground* "	0·35 "	2·54 "	0·69 "	3·58 "
" Oxford, "	22 " " "	0·46 "	2·33 "	1·28 "	4·07 "
" Cardington, "	36 " " "	0·25 "	1·80 "	1·40 "	3·45 "
" Nottingham, "	39 " " "	0·67 "	1·66 "	1·04 "	3·37 "

NOTE.—*Barometer Reading*, BRADFORD, February 17th, at 3h. p.m., 29·723 inches, has been altered to 28·723 inches.
" WARINGSTOWN, " 19th, at 3h. p.m., 29·618 " " 28·618 "

Thunder was heard but lightning was not seen on the 8th of February at Somerleyton; on the 12th at Helston; on the 14th and 17th at Bolton, and on the 25th at Somerleyton; on the 10th of March at Streatley, and on the 15th at Guernsey.

Lightning was seen but thunder was not heard on the 2nd of January at Liverpool; on the 13th February at North Shields; on the 3rd of March at Somerleyton and Stonyhurst, and on the 4th and 13th at Cambridge.

Solar halos were seen on the 15th of January at Royston; on the 16th at Torquay; on the 6th of February at Torquay; on the 10th at Torquay, Strathfield, and Oxford; on the 12th at Halifax; on the 17th at Halifax and Stonyhurst, and on the 27th at Torquay and Halifax; on the 1st of March at Halifax; on the 13th at Strathfield; on the 26th and 27th at Torquay, and on the 29th at Oxford.

Lunar halos were seen on the 27th of January at Halifax and Stonyhurst; on the 16th of February at Oxford, Royston, Cambridge, and Kelstern; on the 17th at Oxford and Strathfield; on the 20th and 21st at Strathfield; on the 25th at Guernsey and Torquay; on the 26th at Halifax; on the 25th of March at Bath, and on the 26th at Bournemouth and Bath.

Snow fell on the 10th of January at Royston, Stockton, and Cambridge; on the 13th at Torquay, Osborne, Salisbury, Bath, Marlborough, Streatley, Oxford, Cardington, Stockton, Wolverhampton, and North Shields; on the 14th at Bournemouth, Marlborough, Royston, Cardington, Stockton, Cambridge, Leicester, and Liverpool; on the 15th at Torquay, Bath, Cardington, Somerleyton, Stockton, Norwich, Cambridge, Kelstern, Halifax, Stonyhurst, Carlisle, and North Shields; on the 16th at Marlborough and North Shields; on the 17th at Stockton, Kelstern, Bolton, and Silloth; on the 18th at Cardington, Norwich, Bolton, Halifax, and Stonyhurst; on the 19th at Leicester; on the 20th at Torquay; on the 21st at Royston; on the 22nd at Royston, Norwich, and Cambridge; on the 23rd at Bath, Marlborough, Streatley, Oxford, and Stockton; and on the 24th at Torquay; on the 9th of February at Halifax; on the 12th at Torquay and Bolton; on the 17th at Stockton and Kelstern; on the 24th at Norwich; on the 26th at Bolton and Halifax; on the 1st of March at Bath, Bolton, Halifax, Leeds, and Carlisle; on the 2nd at Liverpool, Bolton, Llandudno, Halifax, Hull, Stonyhurst, and Leeds; and on the 22nd at Royston.

Hail fell on the 14th of January at Ramsgate; on the 8th of February at Guernsey and Bath; on the 9th at Guernsey and Torquay; on the 12th at Guernsey, Helston, Truro, Salisbury, Cardington, and Stockton; on the 16th at Streatley; on the 17th at Torquay and Salisbury; on the 18th at Torquay; on the 19th at Guernsey and Torquay; on the 20th at Torquay, Bath, and Cambridge; on the 22nd at Strathfield; on the 26th at Royston, Stockton, Bolton, Llandudno, Stonyhurst, and Carlisle; on the 1st of March at Guernsey, Helston, Plymouth, Torquay, Streatley, Llandudno, Halifax, and Stonyhurst; on the 2nd at Wolverhampton, Llandudno, and Halifax; on the 3rd and 4th at Halifax; on the 14th and 21st at Hull; and on the 31st at Guernsey.

Fog prevailed on 21 different days in January, 16 days in February, and on 21 days in March, or on 58 different days during the quarter.

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Mean Amount of Rain.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·827	61·5	27·0	34·5	48·1	40·1	21·3	8·0	43·7	40·8	·257	3·3	0·4	90	549	77·0	37·8	1·3	6	9	9	6	2·2	5·3	31	6·78
Helston	—	60·0	26·0	34·0	53·1	38·6	29·3	14·5	45·4	39·4	·244	2·8	0·7	80	554	59·6	34·5	2·2	4	14	7	5	5·9	5·1	35	5·72
Truro	29·814	59·0	22·0	37·0	50·2	38·7	29·0	11·5	43·7	41·0	·259	3·0	0·3	91	553	—	—	2·4	4	11	9	6	—	7·0	47	7·38
Plymouth	29·895	57·2	23·2	34·0	48·5	38·4	26·5	10·1	43·1	40·0	·249	2·9	0·3	89	554	—	—	1·6	4	12	7	8	—	7·2	46	7·45
Torquay	29·843	58·2	21·9	36·3	47·3	37·7	27·7	9·6	42·3	38·7	·237	2·7	0·4	87	549	89·5	31·5	1·6	5	10	7	7	5·0	7·2	45	4·78
Ventnor	29·904	59·0	24·2	34·8	46·6	38·0	23·5	8·6	42·0	38·7	·237	2·7	0·4	88	554	—	—	—	4	13	6	7	4·4	6·7	32	4·78
Osborne	29·849	62·6	19·7	42·9	47·0	35·1	29·1	11·9	40·7	38·7	·238	2·7	0·2	93	553	77·5	32·6	0·5	5	10	9	6	—	6·3	23	2·93
Eastbourne	29·853	62·2	14·0	48·2	46·4	34·5	32·5	11·9	40·5	37·1	·223	2·6	0·4	88	557	76·6	25·8	0·3	7	11	4	8	1·2	—	29	2·90
Bournemouth	29·875	58·2	18·1	40·1	45·7	35·5	30·1	10·2	40·4	36·4	·217	2·5	0·4	85	555	—	—	1·4	7	11	4	7	—	5·8	22	2·70
Brighton	29·899	60·0	19·3	40·7	45·3	35·2	27·1	10·1	40·2	36·2	·216	2·5	0·4	86	554	—	31·8	0·9	7	9	7	7	—	6·5	22	2·78
Salisbury	29·875	65·5	9·5	56·0	47·9	30·8	40·0	17·1	39·4	35·3	·217	2·5	0·3	89	555	73·0	29·8	1·3	7	11	5	8	—	7·9	22	2·78
Barnstaple	29·821	66·0	20·0	46·0	50·2	37·8	32·7	12·4	43·7	38·9	·239	2·7	0·6	84	552	—	—	1·2	4	11	10	5	—	4·8	45	4·78
Caterham	29·846	62·4	13·2	49·2	44·7	33·0	31·8	11·8	38·8	35·0	·235	2·4	0·4	86	547	—	22·5	1·8	4	10	7	9	—	5·8	30	3·78
Ramsgate	29·832	61·5	22·0	39·5	46·0	35·6	27·7	10·4	40·5	38·1	·233	2·7	0·3	91	556	77·7	—	1·2	4	10	8	8	—	5·6	23	1·78
Strathfield Turgiss	29·894	64·3	13·1	51·2	47·3	32·4	38·3	14·9	39·8	35·8	·213	2·5	0·4	86	555	73·3	28·5	1·0	5	10	6	9	1·6	6·7	28	2·78
Bath	29·856	62·4	14·5	47·9	45·4	34·0	32·1	12·4	39·5	35·5	·219	2·6	0·3	86	546	77·9	31·6	1·3	4	9	9	8	—	6·7	43	3·78
Marlborough	29·874	61·9	8·6	53·3	46·8	33·2	36·4	13·6	39·4	36·0	·215	2·5	0·3	88	549	77·9	27·5	0·5	4	10	8	8	—	6·8	42	3·78
Blackheath	29·889	66·0	15·0	51·0	46·4	33·1	36·4	13·3	39·6	35·4	·209	2·4	0·4	85	556	79·4	29·7	0·9	4	10	7	10	—	6·4	29	4·78
Streatley	29·844	65·2	15·0	50·2	47·3	33·3	38·2	14·0	40·1	36·7	·220	2·5	0·4	88	556	—	—	1·2	6	11	8	6	—	7·0	31	2·78
Camden Square	29·879	62·6	19·2	43·4	45·6	34·1	32·3	12·5	40·0	36·5	·218	2·5	0·4	87	556	69·5	30·2	—	8	5	7	10	—	6·7	29	2·78
Oxford	29·877	62·2	15·8	46·4	46·2	34·4	34·3	12·8	39·9	36·4	·212	2·4	0·4	85	554	76·0	31·2	1·2	4	8	9	9	1·6	6·7	32	3·78
Royston	29·907	64·5	15·1	49·4	43·6	31·8	35·5	14·8	39·2	35·2	·207	2·4	0·4	86	554	—	—	—	5	7	10	8	—	6·4	28	3·78
Cardington	29·847	62·4	13·0	49·4	45·5	32·4	36·1	14·1	39·1	35·9	·213	2·5	0·3	88	556	60·2	27·0	1·4	5	8	7	11	—	6·4	25	3·78
Cambridge	29·851	64·3	16·0	48·3	48·0	33·3	37·3	14·7	40·3	36·4	·217	2·5	0·4	86	557	84·6	29·3	1·1	6	6	11	8	—	5·8	35	3·78
Rugby	29·846	63·0	12·0	51·0	46·3	31·8	36·5	14·5	38·8	33·5	·218	2·5	0·3	92	553	51·9	28·6	0·4	6	9	10	5	6·5	6·4	32	4·78
Lowestoft	29·864	60·0	16·7	43·3	44·1	34·2	31·2	9·9	39·2	35·9	·212	2·5	0·4	88	557	71·1	31·6	0·7	5	8	6	12	—	6·3	29	3·78
Somerleyton	29·872	59·0	13·7	45·3	44·1	34·5	34·0	9·6	39·3	36·9	·220	2·6	0·3	90	558	—	—	1·1	5	7	9	8	6·1	6·1	33	3·78
Wolverhampton	29·843	59·8	15·6	44·2	44·4	32·4	32·0	12·0	38·0	35·1	·206	2·4	0·3	89	550	—	—	—	2	10	11	8	—	8·3	28	3·78
Norwich	29·869	59·5	19·0	40·5	45·5	35·7	30·5	9·8	40·1	36·9	·221	2·6	0·4	88	557	—	—	—	4	7	12	7	—	—	21	3·78
Leicester	29·784	61·2	17·0	44·2	45·3	34·6	35·0	11·7	40·1	35·6	·210	2·4	0·5	84	552	72·0	26·8	0·9	4	6	10	9	—	7·7	31	3·78
Nottingham	29·838	63·7	14·0	49·7	46·1	33·4	35·6	12·7	39·2	35·9	·213	2·5	0·4	88	555	68·3	32·1	0·3	5	10	9	7	1·1	6·9	33	3·78
Llandudno	29·788	59·5	24·2	35·3	43·0	37·7	27·6	10·3	42·9	37·2	·224	2·6	0·6	81	552	—	—	0·8	3	6	11	11	—	5·3	29	4·78
Liverpool	29·809	58·5	19·7	38·8	45·3	35·8	29·2	10·5	40·5	36·1	·214	2·5	0·5	85	552	—	—	1·2	2	12	10	7	—	6·2	31	4·78
Bolton	29·809	58·2	10·7	47·5	45·3	29·4	34·5	16·0	38·1	33·7	·195	2·3	0·4	84	549	54·0	27·4	1·6	3	8	11	8	4·5	7·0	41	4·78
Halifax	—	60·0	19·0	41·0	44·8	34·3	29·9	10·5	39·0	34·7	·202	2·4	0·4	84	—	67·3	31·0	0·6	2	10	8	10	—	7·0	35	3·78
Hull	29·853	57·0	21·0	36·0	45·0	33·4	29·3	11·6	39·8	34·5	·201	2·3	0·5	82	557	—	—	1·6	4	8	9	9	—	6·9	32	3·78
Stonyhurst	29·810	55·9	17·0	38·9	46·0	33·3	31·5	12·7	38·9	35·0	·206	2·4	0·4	86	551	76·8	31·1	—	3	8	11	9	—	7·3	47	6·78
Bradford	29·814	55·1	20·8	34·3	45·5	35·7	28·8	9·8	40·3	35·6	·211	2·4	0·5	84	549	52·2	—	1·3	4	8	8	10	—	6·9	45	4·78
Leeds	29·825	60·0	19·0	41·0	47·8	35·5	31·3	12·3	41·8	35·7	·210	2·4	0·6	79	552	55·1	—	2·1	4	10	6	11	—	3·7	31	4·78
Cockermouth	29·779	62·0	17·5	44·5	47·0	35·5	31·8	11·5	40·8	35·9	·212	2·4	0·6	83	552	70·9	29·1	0·6	3	9	9	9	2·0	6·7	44	5·78
Silloth	29·780	60·3	18·5	41·8	45·6	34·7	29·3	10·9	39·8	35·7	·212	2·4	0·5	86	556	76·0	30·0	1·3	3	11	7	9	8·1	5·9	58	5·78
Carlisle	29·778	58·8	15·3	43·5	45·5	32·7	34·1	13·8	39·3	35·6	·210	2·4	0·4	87	555	75·7	26·8	1·3	4	12	6	9	3·8	5·8	33	4·78
North Shields	—	57·2	22·2	35·0	43·8	35·2	28·9	8·6	39·2	36·0	·213	2·5	0·3	89	553	—	34·8	1·5	8	5	6	11	—	5·9	28	5·78

The highest temperatures of the air were at Barnstaple and Blackheath, both 66°·0; Salisbury, 65°·5; Streatley, 65°·2; and Royston, 64°·5.

The lowest temperatures of the air were at Marlborough, 8°·6; Salisbury, 9°·5; Bolton, 10°·7; Rugby, 12°·0; and Cardington, 13°·0.

The greatest daily ranges of the temperatures of the air were at Salisbury, 17°·1; Bolton, 16°·0; Strathfield Turgiss, 14°·9; and Royston, 14°·8.

The least daily ranges of the temperatures of the air were at Guernsey, 8°·0; North Shields, 8°·6; and Torquay and Somerleyton, both 9°·6.

The greatest number of rainy days were at Truro and Stonyhurst, both 47; Torquay, Barnstaple, and Bradford, 45; and Cockermouth, 44.

The least number of rainy days were at Norwich, 21; Ramsgate, 23; Osborne and Cardington, both 25; and Royston, 26.

The heaviest falls of rain were at Bath, 9·56 inches; Stonyhurst, 7·81 inches; Truro, 7·75 inches; and Bolton, 7·06 inches.

The least falls of rain were at Ramsgate, 1·94 inches; Lowestoft, 2·58 inches; Cambridge, 2·72 inches; and Somerleyton, 2·73 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days it fell.	Rain. Mean Amount of Rain.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·827	61·5	27·0	34·5	48·1	40·1	21·3	8·0	43·7	40·8	·257	3·3	0·4	90	549	77·0	37·8	1·3	6	9	6	6	2·2	5·3	31	6·78
Between the latitudes 50° and 51°	29·868	59·3	21·8	37·5	48·0	37·2	27·8	10·8	42·2	38·6	·237	2·7	0·4	87	553	75·5	32·6	1·3	5	11	7	7	5·1	6·5	35	5·78
Between the latitudes 51° and 52°	29·871	63·6	15·1	48·5	46·9	33·7	34·6	13·2	40·1	36·5	·218	2·5	0·4	87	553	75·6	28·9	1·2	5	10	8	8	1·6	6·2	30	5·78
Between the latitudes 52° and 53°	29·852	61·7	15·2	46·5	45·8	33·4	34·4	12·4	39·3	36·0	·214	2·5	0·4	88	555	68·0	29·2	0·8	5	8	10	8	4·6	6·7	36	5·78
Between the latitudes 53° and 54°	29·815	58·0	18·9	39·1	46·1	34·4	30·0	11·7	40·2	35·8	·208	2·4	0·5	83	552	61·1	29·8	1·2	3	9	9	9	4·5	6·5	40	5·78
Between the latitudes 54° and 55°	29·779	60·4	17·1	43·3	45·4	34·3	31·7	12·1	40·0	35·7	·211	2·4	0·5	85	554	74·2	28·6	1·1	3	11	7	9	4·6	6·1		
Mean for the Quarter, 50° to 55°, Year 1877	29·566	58·0	21·7	36·3	48·3	36·7	31·3	11·6	42·4	38·3	·233	2·7	0·5	86	547	70·0	31·6	1·3	6	3	8	13	4·9	6·7	63	10·23
Mean for the Quarter, 50° to 55°, Year 1878	29·917	59·5	24·0	35·5	47·5	36·5	31·7	11·0	41·7	37·6	·236	2·6	0·5	86	554	70·0	31·8	1·1	8	4	6	12	4·7	6·9	41	5·43
Mean for the Quarter, 50° to 55°, Year 1879	29·648	58·9	16·4	42·5	42·3	31·6	31·8	10·7	36·6	33·3	·192	2·3	0·3	87	554	62·4	27·6	1·1	7	10	6	7	4·2	7·2	47	7·38
Mean for the Quarter, 50° to 55°, Year 1880	29·837	60·6	17·6	43·0	46·6	34·6	31·7	12·0	40·4	36·4	·218	2·5	0·4	86	553	70·9	29·8	1·2	4	10	8	8	4·1	6·4	55	5·13

Remarks on the Weather during the Quarter ending June 30th, 1880.

By James Glaisher, Esq., F.R.S., *&c.*

The weather in April was variable. For a few days at the beginning of the month, the warm period which set in on February 6th continued, accompanied by strong S.W. winds. On April 6th the temperature declined below the average, the wind changed to the N.E., and remained there till the 16th; the wind then changed to the S.W., and the weather for a week was genial and warm; after this it suddenly became cold again, and the remainder of the month was ungenial with strong N.E. winds. The month was showery and the amount of rain was somewhat in excess of the average all over the country, but upon the whole it was a fine April month, very favourable for agricultural work, following as it did a dry March.

The first half of the month of May was cold; N. and N.E. winds, at times blowing very strongly, were prevalent till the 21st day; then S.W. winds prevailed till the 30th, and the wind was again N.E. on the last day. The weather was generally fine and dry with occasional bright and warm sunshine, and there was very little rain. The nights were generally cold, the reading of the thermometer with its bulb on grass falling frequently below 32° at night.

At the end of the month vegetation was somewhat backward, but the prospects were considered favourable.

The month of June was unsettled; the first half was very cold, with strong N. and N.E. winds for a few days at the beginning; then there were S.W. winds, but the cold continued; then N. and N.E. winds again; from the 18th the winds were mostly from the S.S.W. and W.S.W., and the weather was warmer. Till the 26th, with the exception of three or four days, rain fell daily, from the 19th to the 26th thunderstorms were frequent, with heavy rain and hail, causing much damage to crops.

At the end of the month pastures and green crops looked well, having benefited a good deal by the frequent gentle rain, and wheat, which came into ear at many places about the end of the month, was progressing favourably.

Till the 5th of April the average daily temperature was 3° in excess of the general average for these days; from the 6th to the 16th the weather was cold, the average daily deficiency of temperature being 1°·8; from the 17th to the 24th it was warm, the average daily excess of temperature being 4°·3; it was cold from April 25th to May 11th, the average daily deficiency for these 17 days being 4°·0; from May 12th to May 27th the weather was mostly warm, the average daily excess for these 16 days being 3°·1; from May 28th to June 12th, every day was cold, then for a day or two the temperatures were nearly equal to their averages; then it was cold again till June 26th; for these 30 days the average daily deficiency of temperature was 2½°, the last four days of the quarter were warm, the daily excess of temperature being 3½°.

In the neighbourhood of London *the readings of the barometer* were below their averages from the 1st to the 16th of April, with the exception of the 8th, 9th, 10th, and 11th, on which days they were a little above, the mean amount of defect for the 16 days being 0·18 in. From the 17th of April to the 2nd of June the readings of the barometer were above their average values, except on eight days, when the readings were slighly in defect, the mean amount of excess for these 47 days being 0·14 in. The readings were below their averages from the 3rd of June till the 11th, except on the 5th, when the value was 0·02 in. in excess of the average, the mean amount of defect for the 9 days being 0·12 in.; there were now six days of excess of pressure, viz., from the 12th to the 17th, the mean amount of excess for these six days being 0·08 in. From the 18th of June to the end of the quarter (with the exception of the 27th, 28th, and 29th), the mean daily readings were below their averages to the mean amount of 0·12 in.

The mean reading for the month of April was 29·701 ins., being 0·054 in. below the average of the preceding 39 years. The mean reading for the month of May was 29·910 ins., being 0·127 in. above the average; and higher than any reading since 1876. The mean reading for the month of June was 29·733 ins., being 0·075 in. below the average, and 0·092 in. above the value in 1879. The atmospheric pressure in April was less than in March by 0·236 in., that in May was greater than in April by 0·209 in., and that in June was less than in May by 0·177 in. (From the preceding 39 years' observations the *mean pressure* in April is greater than in March by 0·013 in., that in May is greater than in April by 0·028 in., and that in June is greater than in May by 0·025 in.)

The mean decrease of *pressure*, from all stations, from March to April was 0·222 in.: from April to May the mean increase was 0·237 in.: and from May to June the mean decrease was 0·178 in.

At *Greenwich* the *mean temperature* of April was higher than that of March by 2°·8, that of May was higher than that of April by 5°·5, and that of June was higher than that of May by 4°·9. (From the preceding 39 years' observations the *mean temperature* of April is higher than that of March by 5°·5, that of May is higher than that of April by 5°·5, and that of June is higher than that of May by 6°·4.)

The increase of *mean temperature* from March to April South of latitude 51° was 1°·3, between 51° and 52° was 1°·7, and North of 52° was 3°·1; the increase from April to May was very nearly the same everywhere, the mean from all places being 4°·3, and the further increase from May to June South of latitude 52° was 3°·9, and North of this latitude was 5°·6.

The mean temperature of the air for April was 47°·1, being 1° above the average of the preceding 109 years, and the same as the average of the preceding 39 years. It was 3°·9 higher than the value in 1879.

The mean temperature of the air for May was 52°·6, being 0°·1 above the average of the preceding 109 years, and the same as the average of the preceding 39 years. It was 4°·2 higher than the value recorded in 1879.

The mean temperature of the air for June was 57°·5, being 0°·7 and 1°·5, respectively, below the averages of the preceding 109 years, and 39 years. It was 0°·6 higher than the value in 1879.

The mean temperature of the air for the quarter was 52°·4, being 0°·1 above the average of the preceding 109 years, and 0°·5, below the average of the preceding 39 years. It was 2°·9 higher than the value in 1879.

The mean high day temperatures of the air were 1°·8, 0°·2 and 3°·0, respectively, below their averages in April, May, and June.

The mean low night temperatures of the air were 1°·6, and 0°·5, respectively, below their averages in May and June, but 0°·7 above in April. Therefore the days were cold and the nights were warm in April; the nights were cold in May, and in June the days were cold, and the nights moderately cold.

1880. Months.	Temperature of Air. Mean.	Temperature of Air. Diff. from average of 109 years.	Temperature of Air. Diff. from average of 39 years.	Temperature of Evaporation. Mean.	Temperature of Evaporation. Diff. from average of 39 years.	Temperature of Dew Point. Mean.	Temperature of Dew Point. Diff. from average of 39 years.	Temperature of Air—Daily Range. Mean.	Temperature of Air—Daily Range. Diff. from average of 39 years.	Temperature of Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 39 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 39 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.
April -	47·1	+1·0	0·0	44·1	+0·1	40·7	+0·2	16·0	−2·5	..	0·254	+0·001	2·9	−0·1
May -	52·6	+0·1	0·0	48·3	−0·5	44·0	−1·1	21·8	+1·4	..	0·288	−0·010	3·3	−0·2
June -	57·5	−0·7	−1·5	54·5	−0·1	51·7	+1·1	18·6	−2·5	..	0·384	+0·014	4·3	+0·1
Means -	52·4	+0·1	−0·5	49·0	−0·2	45·5	+0·1	18·8	−1·2	..	0·309	+0·002	3·5	−0·1

1880. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 39 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 39 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 39 years.	Rain. Amount.	Rain. Diff. from average of 65 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Number of Nights it was Between 30° and 40°.	Number of Nights it was Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
April -	79	+1	29·701	−0·054	543	0	2·2	+0·4	333	6	20	4	26·4	45·5
May -	73	−3	29·910	+0·127	541	0	0·5	−1·6	281	11	12	8	22·8	47·0
June -	82	+8	29·733	−0·075	531	−1	2·3	+0·3	252	0	6	24	30·5	53·2
Means -	78	+2	29·781	−0·001	538	0	Sum 5·0	Sum −0·9	Mean 289	Sum 17	Sum 38	Sum 36	Lowest 22·8	Highest 53·2

NOTE.—In reading this table it will be borne in mind that the plus sign (+) signifies *above* the average, and that the minus sign (−) signifies *below* the average.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter, were as follows:—

Direction of Wind.	April. Average.	April. 1880.	April. Departure from Average.	May. Average.	May. 1880.	May. Departure from Average.	June. Average.	June. 1880.	June. Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	2¼	1	−1¼	1¼	3	+1¾	2	1	−1
N.	4	0	−4	4¼	2	−2¼	3¼	2	−1¼
N.E.	6	3	−3	7	10	+3	3½	7	+3½
E.	3½	8	+4½	2½	6	+3½	2¼	5	+2¾
S.E.	2	2	0	1¾	2	+ ¼	1½	2	+ ½
S.	2½	3	+ ½	2¼	0	−2¼	2¼	2	− ¼
S.W.	6¼	6	− ¼	7½	3	−4½	10	5	−5
W.	2½	7	+4½	2	5	+3	3¾	7	+3¼
Calm (nearly.)	1	0	−1	2	0	−2	1½	0	−1½

The plus sign (+) denotes excesses over averages; the largest numbers affected with this sign in the month of April are opposite to the E. and W., in May to the N.E., E., and W., and in June to the N.E. and W.

The minus sign (−) denotes defects below averages; the largest numbers affected with this sign in the month of April are opposite to the N. and N.E., in May to the S. and S.W., and in June to the S.W.

The mean daily ranges of temperature were 2°·5 less than their averages in April and June, and 1°·4 greater in May.

The fall of rain at Greenwich in April was 2·2 ins., being 0·4 in. above the average; the fall in May was 0·5 in., being 1·6 in. below the average, and back to 1815 there are but five instances of so small a fall of rain in May as that in the present year, viz.:—

In 1833 it was 0·2 in. In 1844 it was 0·4 in. In 1848 it was 0·4 in.
„ 1870 „ 0·5 in. „ 1874 „ 0·4 in.

The fall in June was 2·3 ins., being 0·3 in. above the average; the total fall of rain in the quarter was 5·0 ins., being 0·9 in. below the average.

Thunderstorms occurred on the 3rd of April at Somerleyton; on the 5th at Cardington, Somerleyton, Bolton, Halifax, and Hull; on the 6th at Caterham, Strathfield, Streatley, and Hull; on the 7th at Somerleyton, Halifax, and Stonyhurst; on the 8th at Osborne, Royston, Cardington, and Cambridge; on the 13th at Bolton; on the 22nd at Royston and North Shields; on the 25th at Kelstern and Hull, and on the 26th at Guernsey. On the 3rd of May at London and Osborne; on the 15th at Osborne; on the 26th at Torquay, Royston, and Cardington, and on the 28th at Ramsgate and Royston. On the 7th of June at Somerleyton, Stockton, and Bywell; on the 8th at Somerleyton and Leeds; on the 11th at Bolton; on the 19th at Liverpool and Hull; on the 21st at Cardington; on the 22nd at Stockton and Leeds; on the 23rd at Oxford; on the 24th at Cardington, Stockton, and Halifax; on the 25th at Oxford; and on the 26th at Osborne, Bath, and Hull.

Thunder was heard but lightning was not seen on the 3rd of April at Lowestoft and Hull; on the 4th at North Shields; on the 5th at Royston, Leicester, Wolverhampton, Kelstern, and North Shields; on the 6th at London, Royston, Cardington, Stockton, Leicester, Wolverhampton, Kelstern, Carlisle, and North Shields; on the 7th at Bath, Wolverhampton, Hull, and North Shields; on the 8th at Strathfield, London, and Stockton; on the 13th at Stonyhurst; on the 16th at Halifax and Hull; on the 20th at Wolverhampton; on the 21st at Stonyhurst; on the 22nd at Cardington, Cambridge, and Bywell, and on the 25th at North Shields. On the 3rd of May at Stockton and Wolverhampton; on the 15th at Torquay; on the 19th at Bywell; on the 25th at Stonyhurst; on the 26th at Guernsey, Somerleyton, Stockton, Cambridge, and Kelstern; on the 27th at Ramsgate and Bywell; and on the 28th at Cardington, Somerleyton, Cambridge, Wolverhampton, Kelstern, and Hull. On the 7th of June at Oxford, Hull, Carlisle, and North Shields; on the 8th at Oxford, Hull, Carlisle, and Bywell; on the 9th at Wolverhampton, Liverpool, Llandudno, Halifax, Hull, and Bywell; on the 10th at Wolverhampton, Liverpool, Bolton, Hull, Silloth, Bywell, and North Shields; on the 11th at Wolverhampton, Llandudno, and Hull; on the 14th at Strathfield, Royston, and Cardington; on the 15th at Guernsey; on the 19th at Torquay, Cardington, Somerleyton, Stockton, and Llandudno; on the 20th at Llandudno; on the 21st at Carlisle and North Shields; on the 22nd at Strathfield, Marlborough, Royston, Cardington, Cambridge, Bolton, Liverpool, Llandudno, Halifax, Hull, Silloth, and Carlisle; on the 23rd at Oxford, Somerleyton, Stockton, Cambridge, and Wolverhampton; on the 24th at Royston, Somerleyton, Cambridge, Wolverhampton, and Hull; on the 25th at London, Royston, Wolverhampton, and North Shields; and on the 26th at London, Stockton, and North Shields.

Lightning was seen but thunder was not heard on the 3rd of May at Plymouth and Torquay; on the 13th at Guernsey; on the 26th at Bath, Marlborough, London, Oxford, and Cambridge; on the 27th at Ramsgate; and on the 28th at Guernsey. On the 9th of June at Liverpool; on the 18th at Plymouth; on the 20th at Liverpool; on the 22nd at Torquay; on the 23rd at Cambridge; on the 24th at London and Cambridge; on the 25th at Cambridge and Hull; and on the 26th at Torquay.

Solar halos were seen on the 1st, 4th, 6th, and 8th of April at Torquay; on the 14th at Halifax and Stonyhurst; and on the 17th, 24th, and 27th at Torquay. On the 2nd of May at Halifax; on the 5th at Bywell; on the 10th and 11th at Torquay; on the 13th at Bath and Stonyhurst; on the 18th at Stonyhurst; on the 25th at Torquay; on the 27th at Torquay and Halifax; and on the 30th at Halifax. On the 5th of June at Torquay; on the 20th at Strathfield; on the 22nd at Torquay and Liverpool; on the 23rd at Torquay; on the 24th at Stockton and Halifax; on the 27th at Liverpool and Halifax; on the 29th at Halifax; and on the 30th at Strathfield.

Aurora Borealis was seen on the 8th and 14th of April at North Shields.

Snow fell on the 26th of April at both Torquay and Streatley.

Hail fell on the 1st of April at London, Stockton, and Carlisle; on the 4th at Truro and Stockton; on the 5th at Guernsey, Truro, Plymouth, Torquay, Strathfield, Royston, Wolverhampton, Halifax, and Leeds; on the 6th at Truro, Torquay, Strathfield, Stonyhurst, and North Shields; on the 7th at Plymouth, Somerleyton, and Stonyhurst; on the 8th at Strathfield, Streatley, Cardington, and Cambridge; on the 11th at Torquay; on the 13th at Cardington; on the 15th at Torquay; on the 16th at Bath and Cardington; on the 22nd at Plymouth, Bath, Cardington, Stockton, Cambridge, and North Shields; on the 25th at Kelstern, Halifax Hull, Carlisle, and Bywell; on the 26th at Guernsey, Torquay, Royston, Cambridge, Kelstern, Bolton, Halifax, Hull, Leeds, and North Shields; and on the 29th at Cambridge. On the 3rd of May at Osborne; on the 11th at Strathfield and Wolverhampton; on the 24th at Silloth; on the 25th and 27th at Carlisle; and on the 28th at Royston, Cardington, Somerleyton, and Hull. On the 4th and 6th of June at North Shields; on the 7th at Royston, Bolton, Liverpool, and North Shields; on the 8th at Stockton, Leeds, and Carlisle; on the 21st at Bywell; on the 22nd at Cambridge; on the 23rd and 24th at Stockton; and on the 26th at Bath.

Lunar halos were seen on the 19th of April at Leicester; and on the 23rd at Torquay, Cambridge, and Stonyhurst. On the 8th of May at Torquay; on the 18th at Bath; on the 20th at Bath and North Shields; and on the 22nd at Torquay, Oxford, Halifax, and Stonyhurst. On the 22nd of June at Torquay.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING JUNE 30TH, 1880.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the sixth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Months.	Year 1880. Pressure of Atmosphere in Month. Mean.	Range.	Temperature of Air in Month. Highest.	Lowest.	Range.	Mean Of all Highest.	Of all Lowest.	Daily Range.	Mean Temperature. Air.	Dew Point.	Vapour. Elastic Force.	In a cubic foot of Air. Mean.	Short of Saturation.	Mean Degree of Humidity. Sat.=100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Minimum on Grass.	Wind. Estimated Strength.	Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY. ADOLPHUS COLLENETTE, ESQ., F.M.S.	204	April	29·647	0·938	60·0	41·0	19·0	54·4	44·2	10·2	48·1	42·9	·275	3·2	0·6	83	539	97·0	41·5	1·6	8	7	7	8	2·9	4·6	16	2·84
		May	29·850	0·838	76·5	28·5	38·0	60·8	47·2	13·6	52·2	45·7	·368	3·5	1·0	79	540	105·3	44·0	1·4	13	10	3	5	1·8	3·4	1	0·03
		June	29·713	0·821	69·5	42·5	27·0	62·3	51·2	11·1	54·4	50·4	·364	4·1	0·7	86	535	102·2	49·2	1·2	9	7	6	8	1·0	5·5	18	1·75
TRURO (Cornwall). C. BARHAM, ESQ., M.D., F.M.S.	43	April	29·834	1·054	61·0	31·0	30·0	55·4	42·2	13·2	47·0	43·4	·282	3·3	0·4	88	545	—	—	2·7	8	8	5	9	—	6·2	14	2·56
		May	30·040	0·777	68·0	31·0	37·0	63·5	44·7	18·8	51·7	44·3	·291	3·3	1·0	76	544	—	—	2·3	8	10	8	5	—	4·9	5	1·35
		June	29·883	0·760	71·0	36·0	35·0	64·4	49·8	14·6	54·0	50·0	·360	4·1	0·6	86	538	—	—	2·2	10	4	8	8	—	7·2	18	2·23
PLYMOUTH (Devon). J. MERRIFIELD, ESQ., LL.D., F.R.A.S., F.M.S.	69	April	29·873	1·084	60·8	36·6	24·2	54·5	43·3	11·2	47·8	41·9	·265	3·0	0·7	81	545	—	—	1·8	10	5	7	8	—	6·7	12	2·68
		May	30·083	0·804	76·3	36·4	39·9	62·5	46·3	16·2	53·4	44·6	·295	3·4	1·2	72	541	—	—	1·6	10	11	4	6	—	4·8	5	1·03
		June	29·935	0·768	70·4	40·3	30·1	63·9	51·6	12·3	56·6	50·8	·372	4·2	0·8	81	536	—	—	1·6	9	6	6	9	—	7·6	16	1·22
TORQUAY, Babbacombe (Devon). EDWIN E. GLYDE, ESQ., F.M.S.	305	April	29·556	1·117	62·0	37·0	25·0	53·8	41·4	12·4	46·8	40·5	·252	2·9	0·8	78	540	125·8	35·0	1·7	8	8	6	8	5·6	6·6	18	1·87
		May	29·764	0·828	75·1	34·3	40·8	60·3	44·8	15·5	51·5	43·8	·286	3·3	1·0	75	539	135·0	36·8	1·3	10	9	5	7	4·2	4·9	8	0·84
		June	29·619	0·757	72·7	38·4	34·3	63·5	50·0	13·5	55·3	49·8	·358	4·1	0·8	82	532	132·5	44·5	1·2	9	6	6	9	4·9	7·1	17	2·29
VENTNOR, (Isle of Wight) (Royal National Hospital for Consumption). W. T. RYDER, ESQ.	150	April	29·794	1·066	59·0	37·0	22·0	54·1	43·1	11·0	47·3	41·6	·263	3·1	0·7	81	544	—	—	—	6	9	6	9	5·1	6·4	14	1·87
		May	30·003	0·758	73·6	37·5	36·1	61·0	46·3	14·7	52·0	47·0	·323	3·7	0·7	83	543	—	—	—	7	14	4	6	5·0	4·0	7	0·56
		June	29·833	0·710	68·9	43·2	25·7	63·3	50·4	12·9	55·9	52·2	·392	4·4	0·6	87	535	—	—	—	5	6	9	10	5·2	6·8	14	2·03
EASTBOURNE (Sussex). MISS W. L. HALL.	12	April	29·683	1·090	66·0	34·5	31·5	56·4	41·0	15·4	48·1	43·7	·284	3·3	0·5	85	541	107·7	38·2	1·9	7	7	8	8	—	6·6	12	1·43
		May	29·885	0·834	79·0	32·7	46·3	65·5	43·4	22·1	52·7	49·3	·352	4·0	0·5	89	540	120·7	39·4	1·1	8	11	6	6	—	5·3	7	0·32
		June	29·730	0·672	76·1	39·7	36·4	67·8	49·7	18·1	57·0	54·5	·425	4·7	0·5	90	532	117·2	46·8	1·2	7	5	9	9	—	7·1	14	2·73
BOURNEMOUTH, South Bourne, (Hants). T. A. COMPTON, ESQ., B.A., M.D., F.M.S.	128	April	29·778	1·020	64·0	35·3	28·7	56·2	41·5	14·7	48·1	41·8	·264	3·0	0·8	79	543	109·5	31·4	0·3	5	8	5	12	1·8	—	13	1·94
		May	30·020	0·628	76·8	34·7	42·1	63·5	43·6	19·9	52·5	45·4	·301	3·4	1·1	77	543	117·2	33·1	0·4	10	9	4	8	1·5	—	2	0·09
		June	29·848	0·636	77·0	39·6	37·4	67·4	50·6	16·8	57·8	55·3	·439	4·8	0·5	92	533	118·8	40·1	0·2	7	7	4	12	3·4	—	19	2·78
BRIGHTON (Sussex). F. E. SAWYER, ESQ., F.M.S.	206	April	29·656	1·055	61·2	36·4	24·8	54·6	41·2	13·4	47·3	39·3	·240	2·8	1·0	74	542	93·5	37·4	0·9	8	8	7	7	—	5·3	15	2·20
		May	29·864	0·807	72·0	36·0	36·0	60·9	44·5	16·4	51·8	41·1	·258	2·9	1·4	67	542	105·5	41·2	1·0	9	8	9	5	—	6·8	5	0·30
		June	29·712	0·647	74·6	38·0	36·6	66·0	49·8	16·2	57·2	50·9	·371	4·2	1·1	79	532	108·0	47·6	0·6	8	4	9	9	—	7·9	14	1·37
SALISBURY (Wilton House), Wilts. T. CHALLIS, ESQ.	186	April	29·694	1·108	64·0	29·0	35·0	57·6	37·1	20·5	46·6	40·4	·252	2·9	0·7	80	543	99·3	36·0	1·2	6	8	3	13	—	6·6	15	1·79
		May	29·890	0·774	78·5	26·5	52·0	66·5	37·9	28·6	51·4	43·3	·281	3·2	1·1	74	542	109·4	36·5	1·2	11	9	3	8	—	5·5	5	0·40
		June	29·733	0·678	78·0	35·5	42·5	69·2	46·2	23·0	56·0	50·2	·365	4·1	0·9	81	533	111·9	45·4	1·2	10	4	5	11	—	7·5	20	2·21
BARNSTAPLE (Devon). WILLIAM KNILL, ESQ.	43	April	29·822	1·080	65·0	36·0	29·0	55·8	44·5	11·3	48·7	41·4	·262	3·0	0·9	76	543	—	—	1·3	7	9	6	8	—	4·8	15	2·62
		May	30·042	0·890	73·0	38·0	35·0	64·8	48·6	16·2	55·0	44·6	·295	3·3	1·6	69	540	—	—	1·2	11	6	7	7	—	2·8	8	1·61
		June	29·881	0·750	75·0	40·0	35·0	66·9	53·3	13·6	58·0	51·7	·385	4·3	1·2	80	534	—	—	1·1	7	4	10	9	—	4·7	12	1·71

Names of Stations and Observers.	Height of Station above Sea Level.	Months.	Year 1880. Pressure of Atmosphere in Month. Mean.	Range.	Temperature of Air in Month. Highest.	Lowest.	Range.	Mean Of all Highest.	Of all Lowest.	Daily Range.	Mean Temperature. Air.	Dew Point.	Vapour. Elastic Force.	In a Cubic foot of Air. Mean.	Short of Saturation.	Mean Degree of Humidity. Sat.=100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Minimum on Grass.	Wind. Estimated Strength.	Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs	gr.		grs.	°	°									in.
CATERHAM (Surrey), The Metropolitan Asylum. G. STANLEY ELLIOT, ESQ., M.D.	608	April	29·076	—	62·0	32·4	29·6	52·6	38·9	13·7	45·3	37·8	·227	2·6	0·9	76	534	—	30·4	1·9	7	8	6	9	—	5·1	14	2·02
		May	29·417	0·600	78·0	31·6	46·4	59·7	42·0	17·7	50·2	41·6	·263	3·0	1·1	73	534	—	36·3	1·7	11	11	2	7	—	3·1	7	0·48
RAMSGATE (Kent). REV. E. DOUGLAS O'GARA, O.S.B., F.M.S.	108	April	29·776	1·094	63·0	37·4	25·6	53·9	42·2	11·7	47·4	43·8	·286	3·3	0·5	89	544	101·9	—	1·3	3	9	11	7	—	6·5	11	1·60
		May	29·967	0·883	80·0	40·0	40·0	60·6	45·0	15·6	51·5	48·5	·341	3·8	0·5	89	542	110·4	—	1·2	7	15	4	5	—	6·5	4	0·15
		June	29·799	0·586	74·0	43·0	31·0	64·0	48·6	15·4	55·4	52·6	·398	4·5	0·5	91	535	110·4	—	1·0	6	7	7	10	—	7·8	15	4·32
STRATHFIELD TURGISS (Hants). REV. C. H. GRIFFITH, M.A., F.M.S.	197	April	29·664	1·117	65·1	32·4	32·7	55·8	39·3	16·5	46·7	40·1	·248	2·9	0·7	79	544	102·3	33·4	1·5	7	8	4	11	2·0	6·5	13	1·71
		May	29·877	0·774	78·5	29·1	49·4	64·1	40·9	23·2	51·5	41·8	·265	3·0	1·2	70	541	114·9	35·0	1·3	10	10	3	8	2·0	5·9	9	0·64
		June	29·708	0·656	75·5	36·0	39·5	67·0	47·8	19·2	56·2	50·2	·364	4·1	0·9	80	533	117·9	43·4	1·2	7	5	6	12	2·8	7·2	19	2·80
BATH (Somerset), St. Gregory's College, Downside. REV. T. L. ALMOND, O.S.B., F.M.S.	596	April	29·233	1·110	58·0	31·0	27·0	51·5	38·8	12·7	44·2	39·4	·242	2·8	0·5	83	537	99·9	35·3	1·5	8	7	8	7	—	6·5	19	2·25
		May	29·431	0·758	74·0	32·8	41·2	60·6	41·6	19·0	50·0	42·0	·267	3·0	1·1	75	535	112·3	38·4	1·2	9	9	6	7	—	5·0	7	0·68
		June	29·291	0·710	70·0	40·5	29·5	62·5	48·3	14·2	53·8	49·9	·358	4·1	0·6	87	528	112·5	46·1	1·2	7	5	8	10	—	7·2	20	2·24
MARLBOROUGH (Wilts). REV. THOMAS A. PRESTON, M.A., F.M.S.	474	April	29·366	1·127	62·2	31·2	31·0	53·8	38·9	14·9	45·2	38·9	·237	2·7	0·7	79	539	105·1	32·4	1·0	5	8	7	10	—	6·1	19	2·54
		May	29·585	0·760	74·9	33·0	41·9	61·5	41·4	20·1	50·3	41·5	·262	3·0	1·2	72	537	116·1	34·1	0·9	8	11	3	9	—	5·2	7	0·55
		June	29·411	0·668	74·0	36·2	37·8	65·2	48·0	17·2	56·1	49·9	·361	4·1	1·0	80	528	117·9	42·6	—	7	6	6	11	—	8·2	19	1·73
BLACKHEATH (London). JAMES GLAISHER, ESQ., F.R.S.	160	April	29·705	1·145	67·8	33·1	34·7	55·8	39·1	16·7	46·5	40·7	·254	3·0	0·7	82	544	103·6	35·7	1·2	2	11	7	10	—	6·2	14	2·21
		May	29·907	0·805	87·2	31·9	55·3	63·8	41·9	21·9	51·6	44·4	·293	3·3	1·0	76	542	127·8	37·4	1·1	9	12	2	8	—	5·3	4	0·58
		June	29·734	0·601	80·3	38·9	41·4	67·6	48·3	19·3	56·2	50·4	·367	4·1	0·9	81	533	122·3	44·2	0·7	6	10	5	10	—	6·6	18	2·38
STREATLEY (Berks), "The Vicarage." REV. J. SLATTER, M.A., F.R.S., F.M.S.	150	April	29·769	1·147	64·8	29·8	35·0	56·0	39·0	17·0	47·4	40·4	·251	2·9	0·9	77	544	—	—	2·3	7	7	7	9	—	6·7	16	1·93
CAMDEN SQUARE (London). G. J. SYMONS, ESQ., F.R.S., F.M.S.	123	April	29·745	1·148	67·4	34·3	33·1	57·0	40·9	16·1	47·7	39·9	·246	2·8	1·0	75	543	100·4	36·7	—	10	5	7	8	—	6·7	17	2·15
		May	29·938	0·752	85·0	33·8	51·2	65·2	43·4	21·8	52·7	42·3	·271	3·1	1·3	68	542	110·8	39·0	—	16	7	3	5	—	5·8	5	0·24
		June	29·780	0·636	79·8	38·3	41·5	69·1	50·1	19·0	57·5	50·2	·364	4·1	1·2	77	533	113·4	46·1	—	16	4	3	7	—	7·0	17	4·04
OXFORD (The Observatory). E. J. STONE, ESQ., M.A., F.R.S.	210	April	29·654	1·162	63·8	31·4	32·4	54·0	40·4	13·6	46·6	40·2	·250	2·9	0·7	79	542	99·0	37·6	1·3	9	5	8	8	2·8	7·1	19	1·90
		May	29·866	0·762	72·5	35·3	37·2	60·6	43·3	17·3	51·5	43·8	·287	3·2	1·1	75	541	113·5	39·9	1·2	12	8	4	7	2·9	6·6	6	0·83
		June	29·688	0·630	71·2	40·9	30·3	64·3	50·4	13·9	56·8	51·0	·375	4·1	1·0	81	532	113·8	47·6	1·6	9	4	7	10	2·0	7·6	18	3·37
ROYSTON (Hertfordshire). HALE WORTHAM, ESQ., F.R.A.S., F.M.S.	269	April	29·607	1·152	67·8	31·5	36·3	56·6	37·8	18·8	45·7	40·7	·245	2·9	0·5	83	543	—	—	—	8	5	8	9	—	6·6	15	1·71
		May	29·833	0·729	84·1	29·3	54·8	63·1	40·0	23·1	50·3	43·5	·283	3·3	0·8	78	542	—	—	—	15	6	3	7	—	6·2	8	0·61
		June	29·653	0·685	78·0	34·4	43·6	67·2	46·8	20·4	55·0	51·8	·386	4·3	0·6	89	533	—	—	—	9	5	6	10	—	7·7	13	3·48
BEDFORD, Cardington. MR. J. MCLAREN, Assistant to S. C. WHITBREAD, ESQ., M.P.	105	April	29·727	1·164	68·4	33·0	35·4	56·2	39·3	16·9	46·0	43·2	·280	3·2	0·4	91	544	86·6	33·6	1·5	7	8	4	11	—	7·0	9	1·54
		May	29·952	0·740	81·0	29·0	52·0	62·2	41·8	20·4	51·0	44·1	·290	3·3	0·9	78	543	105·6	35·4	1·3	10	12	1	8	—	6·0	6	2·20
		June	29·766	0·686	75·6	34·6	41·0	67·5	48·5	19·0	56·5	52·3	·393	4·4	0·7	83	533	107·2	45·1	1·2	7	8	3	12	—	7·3	14	2·45
CAMBRIDGE (Trinity College). J. W. L. GLAISHER, ESQ., M.A., F.R.S.	40	April	29·801	1·178	70·0	30·0	40·0	57·9	39·4	18·5	47·0	41·5	·262	3·0	0·7	82	545	117·8	34·3	1·6	8	7	8	7	—	6·4	16	1·73
		May	30·022	0·752	85·0	29·3	55·7	65·0	41·1	23·9	51·6	44·4	·292	3·3	1·1	76	544	132·8	34·7	1·3	10	11	5	5	—	5·6	9	0·68
		June	29·832	0·672	79·3	38·0	41·3	69·6	48·5	21·1	56·9	52·3	·392	4·4	0·8	88	534	134·8	42·7	1·0	8	8	7	7	—	7·2	17	2·65
RUGBY (Warwickshire), Stockton, "The Rectory." W. TUCKWELL, ESQ.	289	April	29·541	1·148	64·5	30·0	34·5	54·7	37·3	17·4	45·7	38·8	·237	2·7	0·8	77	541	64·2	32·7	0·4	7	8	10	5	6·9	6·8	15	1·57
		May	29·763	0·700	71·5	27·5	44·0	61·0	39·3	21·7	49·2	42·6	·274	3·1	0·9	78	541	74·6	36·2	0·4	10	10	4	7	5·5	5·2	11	1·04
		June	29·593	0·658	75·0	34·0	41·0	66·9	47·2	19·7	55·7	51·0	·376	4·2	0·8	85	531	79·7	44·3	0·4	6	7	8	9	3·8	6·5	19	1·56
LOWESTOFT (Suffolk). S. H. MILLER, ESQ., F.R.A.S., F.M.S.	85	April	29·776	1·158	61·8	35·0	26·8	53·0	40·0	13·0	46·0	40·2	·250	2·9	0·7	81	545	100·1	38·1	0·9	7	8	6	9	—	6·0	13	1·74
		May	29·872	0·768	75·5	34·8	40·7	57·0	43·2	13·8	49·2	43·0	·278	3·1	0·9	79	545	110·9	40·1	0·8	11	11	3	6	—	6·8	10	0·52
		June	29·788	0·604	75·8	39·0	36·8	62·3	49·4	12·9	54·6	49·9	·358	4·0	0·8	84	536	114·0	46·3	0·7	8	8	4	10	—	6·3	17	2·10

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1880. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
SOMERLEYTON (Suffolk), The Rectory, REV. C. J. STEWARD, F.M.S.	50	April	29·811	1·204	61·5	34·0	27·5	52·8	40·4	12·4	45·6	43·5	·283	3·2	0·3	93	546	—	—	1·2	9	7	6	8	7·7	6·3	14	1·76
		May	30·019	0·766	79·7	33·2	46·5	56·7	42·9	13·8	48·7	45·1	·301	3·4	0·5	88	547	—	—	1·2	12	10	2	7	7·9	5·1	9	0·62
		June	29·840	0·672	75·4	39·8	35·6	62·8	48·8	14·0	54·3	50·5	·368	4·2	0·6	87	537	—	—	1·0	7	10	5	8	7·3	6·4	17	2·91
WOLVERHAMPTON (Staffordshire), Wrottesley, E. SIMPSON, ESQ.	500	April	29·290	1·212	59·3	29·5	29·8	52·2	37·7	14·5	43·9	37·4	·223	2·6	0·7	77	539	—	—	—	6	8	9	7	—	7·6	12	1·44
		May	29·562	0·702	67·5	34·4	33·1	59·5	40·6	18·9	48·2	40·0	·247	2·8	1·0	74	539	—	—	—	7	13	5	6	—	6·8	8	2·29
		June	29·346	0·758	73·4	35·8	37·6	63·4	47·3	16·1	53·8	47·3	·325	3·7	1·0	78	529	—	—	—	6	7	6	11	—	7·7	16	3·17
NORWICH (Norfolk), The Literary Institution, JOHN QUINTON, ESQ., JUN.	42	April	29·820	1·193	67·0	37·0	30·0	54·9	42·1	12·8	47·3	40·5	·252	2·9	0·8	78	545	—	—	—	9	5	7	9	—	—	15	1·35
		May	30·027	0·776	81·0	37·0	44·0	59·3	44·6	14·7	50·6	41·4	·261	3·0	1·0	71	545	—	—	—	13	7	4	7	—	—	6	0·40
		June	29·839	0·712	77·0	41·0	36·0	65·1	51·1	14·0	56·5	50·0	·369	4·0	0·9	79	535	—	—	—	8	9	4	9	—	—	14	2·88
LEICESTER (Town Museum), W. J. HARRISON, ESQ., F.G.S.	238	April	29·589	1·228	64·2	32·5	31·7	53·7	39·9	13·8	46·0	38·9	·238	2·7	0·9	77	542	98·5	30·5	0·8	7	7	7	9	—	6·7	22	2·21
		May	29·826	0·722	69·2	32·1	37·1	59·0	42·1	16·9	50·3	39·4	·242	2·8	1·4	66	542	110·7	33·2	0·6	9	9	7	6	—	7·4	14	1·48
		June	29·635	0·754	73·0	38·0	35·0	64·4	48·7	15·7	55·7	48·3	·343	3·8	1·2	79	532	116·2	41·3	0·7	8	6	7	9	—	7·5	22	3·85
NOTTINGHAM (Notts), M.O. TARBOTTON, ESQ., C.E., F.G.S., F.M.S.	183	April	29·639	1·252	65·7	32·7	33·0	56·1	38·9	17·2	46·1	38·6	·235	2·7	0·9	76	543	90·7	37·2	0·5	5	8	9	8	2·4	6·8	16	2·21
		May	29·884	0·750	77·6	31·0	46·6	62·8	41·2	21·6	50·2	41·6	·263	3·0	1·1	73	543	106·0	39·5	0·3	9	12	5	5	1·7	5·5	10	1·35
		June	29·691	0·780	84·0	35·5	48·5	68·9	48·0	20·9	56·1	50·9	·374	4·2	0·8	83	532	108·4	47·7	0·3	7	10	8	5	1·6	7·3	22	6·30
HOLKHAM (Norfolk), JOHN DAVIDSON, ESQ., Assistant to the EARL of LEICESTER.	39	Jan.	30·289	1·204	55·7	12·2	43·5	38·4	24·9	13·5	33·2	27·6	·151	1·8	0·4	79	570	52·1	20·7	1·0	5	2	18	6	—	6·1	1	0·16
		Feb.	29·692	1·564	53·6	19·6	34·0	47·3	32·6	14·7	41·3	38·3	·232	2·7	0·4	90	549	77·2	26·7	1·8	2	1	20	6	—	6·6	10	1·23
		Mar.	30·038	1·438	56·6	22·0	34·6	48·5	32·5	16·0	41·0	35·8	·209	2·4	0·6	82	556	90·0	26·7	1·5	6	14	8	3	—	6·6	6	1·04
		April	29·790	1·251	67·0	28·4	38·6	54·0	38·3	15·7	45·1	40·6	·252	2·9	0·5	84	547	101·4	31·6	1·8	8	6	13	3	—	7·0	16	1·80
		May	30·014	0·764	75·4	26·5	48·9	57·9	40·5	17·4	48·1	43·7	·284	3·3	0·5	85	547	123·5	34·5	1·5	13	5	5	8	—	5·6	12	0·87
		June	29·836	0·683	73·7	34·8	38·9	63·4	45·9	17·5	54·4	48·5	·340	3·9	0·9	80	537	124·1	40·9	1·5	11	5	9	5	—	7·0	16	2·75
LLANDUDNO (Carnarvonshire), JAMES NICOL, ESQ., M.D., and THOMAS DALTON, ESQ., M.D.	100	Apr.	29·729	1·310	59·8	34·0	25·8	52·0	42·4	9·6	46·7	39·7	·245	2·9	0·8	78	544	—	—	1·2	3	10	5	12	—	6·2	12	1·24
		May	30·004	0·800	62·8	36·4	26·4	56·1	44·9	11·2	50·0	43·8	·286	3·3	0·8	80	545	—	—	1·1	3	15	4	9	—	4·7	8	1·78
		June	29·817	0·770	68·7	41·0	27·7	61·7	51·1	10·6	55·4	48·7	·345	3·9	1·1	79	535	—	—	0·8	8	8	4	10	—	6·8	16	2·59
KELSTERN GRANGE, near Louth (Lincolnshire), D. GRANT BRIGGS, ESQ., F.M.S.	393	April	29·437	1·296	64·3	30·2	34·1	52·0	38·2	13·8	44·2	39·2	·289	2·8	0·6	82	541	99·5	34·8	1·3	7	7	7	9	8·2	6·2	16	2·47
		May	29·678	0·791	69·6	32·2	37·4	55·8	40·4	15·4	47·1	41·6	·263	3·0	0·7	82	542	107·5	37·9	1·1	12	8	4	7	8·6	6·9	11	1·20
		June	29·490	0·765	72·5	36·8	35·7	61·7	47·6	14·1	53·2	48·6	·343	3·9	0·7	81	532	112·6	45·1	0·9	9	9	5	8	8·1	7·5	19	4·28
LIVERPOOL, The Observatory, JOHN HARTNUP, ESQ., F.R.A.S.	197	April	29·624	1·269	62·0	36·9	25·1	52·4	41·5	10·9	45·6	39·6	·244	2·8	0·7	80	543	—	—	1·4	7	8	6	9	—	6·4	12	1·27
		May	29·884	0·714	64·0	38·9	25·1	57·0	44·6	12·4	49·6	42·2	·269	3·0	0·8	75	543	—	—	1·3	8	8	3	12	—	5·5	7	2·03
		June	29·697	0·777	72·1	42·0	30·1	62·5	51·2	11·3	55·2	50·9	·373	4·2	0·7	86	533	—	—	1·2	7	7	5	11	—	7·1	20	2·48
BOLTON, Sharples (Lancashire), REV. T. MACKERETH, F.R.A.S., F.M.S.	481	April	29·305	1·278	58·8	31·0	27·8	51·3	37·1	14·2	43·5	36·5	·216	2·5	0·7	76	540	68·9	32·1	2·6	5	8	10	7	5·7	7·1	19	2·25
		May	29·561	0·736	65·7	29·9	35·8	57·7	38·3	19·4	47·3	40·0	·247	2·9	0·9	77	540	74·7	32·6	1·6	10	7	3	11	5·6	4·9	9	3·05
		June	29·375	0·786	74·0	36·8	37·2	62·8	47·3	15·5	54·0	48·4	·340	3·9	0·8	81	529	76·6	40·0	1·6	8	6	6	10	5·8	7·5	21	3·93
HALIFAX, Bermerside Observatory (Yorkshire), E. J. CROSSLEY, ESQ., F.R.A.S.	530	Apr.	29·402	1·260	65·2	30·0	35·2	53·3	37·7	15·6	43·8	38·1	·230	2·7	0·6	80	541	90·9	35·6	0·7	6	7	8	9	—	7·1	20	2·63
		May	29·589	0·760	72·5	28·9	43·6	58·0	40·4	17·6	47·5	40·1	·248	2·9	0·9	76	540	97·7	35·7	0·6	7	10	5	9	—	6·5	9	2·79
		June	29·364	0·818	75·7	—	—	63·9	—	—	51·3	47·7	·352	3·7	0·5	87	532	105·9	44·7	0·6	5	10	7	8	—	7·9	19	3·61
HULL (Yorkshire), The People's Park, MR. E. PEAKE.	12	April	29·838	1·320	66·0	30·0	33·0	54·6	38·0	16·6	46·3	37·5	·226	2·6	1·0	72	543	81·8	35·8	2·0	7	5	9	9	2·0	8·0	16	1·77
		May	30·081	0·840	69·0	32·0	37·0	58·1	40·6	17·5	48·9	40·7	·256	2·9	1·1	74	548	85·6	38·2	2·1	10	8	3	10	1·7	7·1	12	1·65
		June	29·895	0·808	77·0	38·0	39·0	64·8	48·3	16·5	55·5	49·6	·357	4·0	0·9	82	537	89·7	46·3	2·5	8	10	6	6	2·7	7·0	19	2·41
STONYHURST (Lancashire), REV. S. J. PERRY, F.R.S., F.M.S., F.R.A.S.	363	April	29·450	1·292	60·3	31·0	29·3	54·2	37·4	16·8	44·5	38·7	·233	2·7	0·7	79	541	106·7	36·2	—	6	7	8	9	—	6·5	18	2·02
		May	29·714	0·786	69·4	32·0	37·4	59·5	40·6	18·9	48·2	41·5	·261	3·0	0·8	78	542	117·1	39·2	—	7	8	5	11	—	6·0	10	2·84
		June	29·525	0·798	73·6	36·4	37·2	64·9	48·0	16·9	55·0	48·5	·342	3·8	1·1	79	531	118·1	48·3	—	4	9	4	13	—	8·0	18	4·79

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1880. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
BRADFORD (Yorkshire), J. MCLANDSBOROUGH, ESQ., C.E., F.G.S.	366	April	29·440	1·302	60·3	32·0	28·3	52·6	40·4	12·2	45·2	37·9	·228	2·6	0·8	76	540	72·5	—	1·5	7	7	7	9	—	6·5	22	1·82
		May	29·676	0·770	67·0	34·6	32·4	58·1	43·1	15·0	48·8	40·7	·255	2·9	1·1	74	541	80·8	—	1·3	8	9	5	9	—	6·5	14	2·49
		June	29·513	0·808	71·4	39·0	32·4	63·2	50·1	13·1	54·5	47·8	·331	3·8	1·0	78	531	80·4	—	1·0	7	10	7	6	—	7·0	23	1·92
LEEDS (Yorkshire), The Philosophical Hall, H. CROWTHER, ESQ.	137	April	29·699	1·406	63·0	34·0	29·0	55·5	39·9	15·6	46·3	40·3	·251	2·9	0·7	81	544	68·7	—	2·2	6	8	4	12	—	3·7	13	2·23
		May	29·967	0·936	72·0	35·0	37·0	60·3	42·3	18·0	50·5	39·9	·247	2·8	1·3	70	544	79·2	—	2·0	8	12	2	9	—	3·0	7	2·05
		June	29·759	0·744	76·0	38·0	38·0	64·2	48·9	15·3	54·0	51·6	·382	4·3	0·4	91	536	76·2	—	1·8	5	8	3	14	—	3·8	16	2·41
COCKERMOUTH (Cumberland), H. DODGSON, ESQ., M.D., F.M.S., F.R.A.S.	146	April	29·667	1·349	60·1	28·8	31·3	53·8	39·6	14·2	45·6	38·9	·238	2·7	0·8	78	544	104·4	32·6	0·5	2	10	7	11	3·4	6·6	19	3·13
		May	29·934	0·844	66·3	32·3	34·0	59·2	41·9	17·3	49·5	41·0	·258	2·9	1·1	73	545	108·1	35·5	0·5	6	12	3	10	2·0	5·5	6	1·64
		June	29·748	0·808	76·5	34·4	42·1	65·1	48·2	16·9	55·5	47·3	·328	3·7	1·2	74	534	112·9	43·3	0·4	7	9	7	7	2·2	6·6	16	2·64
SILLOTH (Cumberland), "The Rectory," REV. F. REDFORD, M.A., F.R.A.S., F.M.S.	28	April	29·799	1·365	60·7	30·5	30·2	53·8	39·6	14·2	45·3	39·9	·247	2·8	0·6	82	547	99·8	33·8	1·5	3	8	6	13	9·2	5·4	13	2·06
		May	30·063	0·831	72·5	32·2	40·3	58·7	42·3	16·4	49·3	41·0	·258	2·9	1·1	73	547	109·5	36·4	1·3	5	11	4	11	7·9	5·7	12	1·21
		June	29·825	0·842	71·8	36·8	35·0	65·5	44·3	21·2	53·8	49·1	·347	3·9	0·7	84	537	114·7	39·2	1·1	4	10	5	11	7·4	6·0	16	2·33
CARLISLE, Spital (Cumberland), ISAAC CARTMEL, ESQ., F.M.S.	114	April	29·699	1·391	62·3	26·7	35·6	54·6	37·5	17·1	45·0	38·5	·233	2·7	0·7	78	545	91·5	31·1	1·4	3	11	4	12	5·3	5·4	22	2·32
		May	29·968	0·886	70·8	27·5	43·3	59·4	40·5	18·9	49·0	40·7	·255	2·9	1·1	73	546	98·2	33·9	1·4	3	15	3	10	4·0	5·7	10	1·30
		June	29·759	1·136	76·5	34·5	42·0	66·5	47·1	19·4	55·5	48·6	·344	3·8	1·1	78	534	105·9	41·7	1·4	6	10	2	12	3·3	7·0	15	2·18
BYWELL (Northumberland), MR. W. J. TONE, Assistant to W. B. BEAUMONT, ESQ., M.P.	87	April	—	1·368	61·0	31·0	30·0	52·0	39·6	12·4	44·7	42·6	·273	3·1	0·2	93	533	59·2	30·7	1·3	9	9	5	7	—	7·6	18	2·10
		May	—	1·110	67·0	27·0	40·0	58·4	42·4	16·0	49·4	43·8	·287	3·3	0·7	83	535	69·4	30·1	1·1	6	11	2	12	—	7·2	11	1·83
		June	—	0·882	73·0	41·0	32·0	64·5	51·4	13·1	55·9	51·0	·377	4·2	0·8	85	535	71·3	42·2	1·1	7	10	3	10	—	7·6	15	1·71
NORTH SHIELDS (Northumberland), ROBERT SPENCE, ESQ.	124	April	29·753	1·366	59·0	32·0	27·0	51·1	39·5	11·6	44·0	39·6	·244	2·8	0·5	84	547	—	39·1	1·7	9	7	5	9	—	6·4	17	1·74
		May	30·042	0·919	65·0	34·7	30·3	54·5	42·6	11·9	47·4	41·4	·262	3·0	0·7	81	549	—	41·8	1·4	11	10	3	7	—	5·3	13	1·32
		June	29·850	0·797	67·3	39·0	28·3	58·9	48·6	10·3	52·4	48·2	·336	3·8	0·7	85	539	—	48·3	1·5	12	10	2	6	—	6·5	13	1·24

Second Rain-gauges are placed—

			April	May.	June.	Total in Quarter.
At Beachy Head,	at the height of 515 feet	*above the sea*, the amount collected was	1·52 inches.	0·00 inches.	1·88 inches.	3·40 inches.
" "	495 "	" "	1·65 "	0·00 "	2·05 "	3·70 "
" Strathfield Turgiss,	" 38 "	*ground* "	1·21 "	0·43 "	1·95 "	3·59 "
" Oxford,	" 22 "	" "	2·48 "	0·81 "	3·69 "	6·98 "
" Cardington,	" 36 "	" "	1·26 "	2·00 "	2·15 "	5·41 "
" Nottingham,	" 39 "	" "	1·93 "	1·34 "	6·17 "	9·44 "

NOTE.—*Barometer Reading*, LOWESTOFT, April 5th, at 3h. p.m., 30·288 inches, has been altered to 29·288 inches.
" " " 6th, at 3h. p.m., 30·292 " " 29·292 "
" BYWELL, " 14th, at 3h. p.m., 29·998 " " 28·998 "
" BARNSTAPLE, June 7th, at 3h. p.m., 30·90 " " 29·90 "

Fog prevailed on the 3rd and 4th of April at Guernsey; on the 8th at Royston, Cambridge, and Kelstern; on the 12th at Llandudno; on the 13th at Bath, Bolton, Hull, and North Shields; on the 14th at Guernsey, Bath, Wolverhampton, Hull, and Stonyhurst; on the 15th at Llandudno; and on the 23rd at Bath. On the 2nd of May at Bath and Kelstern; on the 3rd at Royston, Cardington, Stockton, and Cambridge; on the 10th at Stockton; on the 11th at Strathfield; on the 12th and 14th at Bath; and on the 19th at Kelstern. On the 10th of June at Hull; on the 11th at Bath, Cambridge, and North Shields; on the 12th at Oxford, Royston, Stockton, and Cambridge; on the 14th at Guernsey, Torquay, and Strathfield; on the 15th at Llandudno; on the 16th at Torquay, Bath, and Llandudno; on the 17th at Guernsey, Torquay, and Cambridge; on the 18th at Guernsey, Torquay, and North Shields; on the 19th at Torquay and Llandudno; on the 20th at Torquay, Llandudno, and North Shields; on the 21st at Carlisle and North Shields; on the 22nd at North Shields; and on the 23rd at Bath and Cambridge.

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·644	76·5	38·5	38·0	59·2	47·5	28·0	11·7	51·6	46·3	·316	3·6	0·8	83	538	101·5	44·9	1·4	10	8	5	7	1·9	4·5	35	4·72
Truro	29·655	71·0	31·0	40·0	61·1	45·6	34·0	15·5	50·9	45·9	·311	3·6	0·7	83	542	—	—	2·4	9	7	7	7	—	6·1	27	4·02
Plymouth	29·725	76·3	36·4	39·9	60·3	47·1	31·4	13·2	52·6	45·8	·311	3·5	0·9	78	541	—	—	1·7	10	7	6	8	—	6·4	33	4·34
Torquay	29·680	75·1	34·3	40·8	59·2	45·4	33·4	13·8	51·2	44·7	·299	3·4	0·9	78	537	131·1	38·8	1·4	9	8	6	8	4·9	6·2	45	4·78
Eastbourne	29·658	77·0	34·7	42·3	62·4	45·2	36·1	17·2	52·8	47·5	·336	3·7	0·8	83	540	115·2	34·9	0·3	7	8	4	11	2·2	—	34	4·00
Ventnor	29·66	73·6	37·0	36·6	59·5	46·6	27·9	12·9	51·7	46·9	·326	3·7	0·7	84	541	—	—	—	6	10	6	8	5·1	5·7	35	4·00
Osborne	29·601	79·0	32·7	46·3	63·2	44·7	38·1	18·5	52·6	49·2	·354	4·0	0·5	88	538	115·2	41·5	1·4	7	8	8	8	—	6·3	33	4·00
Bournemouth	29·703	75·1	32·1	43·0	59·0	44·7	32·2	14·3	51·0	45·6	·288	3·3	1·0	77	538	—	—	1·6	8	8	7	7	—	5·4	35	4·00
Brighton	29·683	74·6	36·0	38·6	60·5	45·2	32·5	15·3	52·1	43·8	·290	3·3	1·2	73	539	102·7	42·1	0·8	8	6	9	7	—	7·1	33	3·97
Barnstaple	29·648	75·0	36·0	39·0	62·5	48·8	33·0	13·7	53·9	45·9	·314	3·5	1·2	75	539	—	—	1·2	8	6	8	8	—	4·1	35	3·97
Ramsgate	29·625	80·0	37·4	42·6	59·5	45·3	32·2	14·2	51·4	48·3	·342	3·9	0·5	90	540	107·6	—	1·2	5	10	7	7	—	6·9	30	3·97
Strathfield Turgiss	29·675	78·5	29·1	49·4	62·3	42·7	40·5	19·6	51·5	44·0	·292	3·3	0·9	76	539	111·7	37·3	1·3	8	8	4	10	2·3	6·5	41	3·97
Bath	29·685	74·0	31·0	43·0	58·2	42·9	32·6	15·3	49·3	43·8	·289	3·2	0·7	82	533	108·2	39·9	1·3	8	7	7	8	—	6·2	44	3·97
Marlborough	29·677	74·9	31·2	43·7	60·2	42·8	36·9	17·4	50·5	43·9	·287	3·3	1·0	77	535	113·0	36·4	—	7	8	5	10	—	6·5	45	3·97
Blackheath	29·652	87·2	31·9	55·3	62·4	43·1	43·8	19·3	51·4	45·2	·305	3·5	0·9	80	540	117·9	39·1	1·0	6	11	5	9	—	6·0	36	3·97
Camden Square	29·669	85·0	33·8	51·2	63·8	44·8	41·9	19·0	52·6	44·1	·294	3·3	1·2	73	539	108·2	40·6	—	14	5	4	7	—	6·5	39	3·97
Oxford	29·661	72·5	31·4	41·1	59·6	44·7	33·3	14·9	51·6	45·0	·304	3·4	0·9	78	538	108·8	41·7	1·4	10	6	6	8	2·6	7·1	43	3·97
Royston	29·686	84·1	29·3	54·8	62·3	41·5	44·9	20·8	50·3	45·3	·308	3·5	0·6	83	539	—	—	—	10	5	6	9	—	6·8	36	3·97
Cardington	29·604	81·0	29·0	52·0	62·0	43·2	42·8	18·8	51·2	46·5	·321	3·6	0·7	85	540	99·8	38·0	1·3	8	9	3	10	—	6·8	29	3·97
Cambridge	29·614	85·0	29·3	55·7	64·2	43·0	45·7	21·2	51·8	46·1	·315	3·6	0·9	82	541	128·5	37·2	1·3	9	9	7	6	—	6·4	42	4·00
Rugby	—	75·0	27·5	47·5	60·9	41·3	39·9	19·6	50·2	44·1	·296	3·3	0·8	80	538	72·8	37·7	0·4	8	8	7	7	5·4	6·2	45	4·00
Lowestoft	29·643	75·8	34·8	41·0	57·4	44·2	34·8	13·2	49·9	44·4	·295	3·3	0·8	81	542	108·3	41·5	0·8	9	9	4	9	—	6·4	40	3·97
Somerleyton	29·629	79·7	33·2	46·5	57·4	44·0	36·5	13·4	49·5	46·4	·317	4·6	0·5	89	543	—	—	1·1	9	9	4	8	7·6	5·9	40	3·97
Wolverhampton	29·684	73·4	29·5	43·9	58·4	41·9	33·5	16·5	48·6	41·6	·265	3·0	0·9	76	536	—	—	—	6	9	7	8	—	7·4	36	4·00
Norwich	29·646	81·0	37·0	44·0	59·8	45·9	36·7	13·8	51·5	44·0	·291	3·3	0·9	76	542	—	—	—	10	7	5	9	—	—	33	4·00
Leicester	29·678	73·0	32·1	40·9	59·0	43·6	34·6	15·5	50·7	42·2	·274	3·1	1·2	74	539	108·5	35·0	0·7	8	7	7	8	—	7·2	38	3·97
Nottingham	29·648	84·0	31·0	53·0	62·6	42·7	42·7	19·9	50·8	43·7	·291	3·3	0·9	77	539	101·7	41·5	0·4	7	10	7	6	1·9	6·5	48	3·97
Holkham	29·632	75·4	26·5	48·9	58·4	41·6	42·1	16·8	49·2	44·3	·292	3·4	0·6	83	544	116·3	35·7	1·6	11	5	9	5	—	6·5	44	3·97
Llandudno	29·658	68·7	34·0	34·7	56·6	46·1	26·6	10·5	50·7	44·1	·292	3·4	0·9	79	541	—	—	1·0	5	11	4	10	—	5·9	36	3·97
Kelstern Grange	29·683	72·5	30·2	42·3	56·5	42·1	35·7	14·4	48·2	43·1	·282	3·2	0·7	83	538	106·5	39·3	1·1	9	8	5	8	8·3	6·2	46	3·97
Liverpool	29·657	72·1	36·9	35·2	57·3	45·8	26·8	11·5	50·1	44·2	·295	3·3	0·7	80	540	—	—	1·3	7	8	5	11	—	6·3	39	3·97
Bolton	29·683	74·0	29·9	44·1	57·3	40·9	33·6	16·4	48·3	41·6	·268	3·1	0·8	78	536	73·4	34·9	1·9	8	7	6	9	5·7	6·5	49	3·97
Halifax	—	75·7	28·9	46·8	58·4	—	—	—	47·5	42·0	·270	3·1	0·7	81	538	98·2	38·7	0·6	6	9	7	9	—	7·2	48	3·97
Hull	29·671	77·0	30·0	47·0	59·2	42·3	37·3	16·9	50·2	42·6	·280	3·2	1·0	76	544	85·7	40·1	2·2	8	8	6	8	2·1	7·4	45	3·97
Stonyhurst	29·683	73·6	31·0	42·6	59·5	42·0	34·6	17·5	49·2	42·6	·279	3·2	0·9	79	538	114·0	41·2	—	6	8	6	11	—	6·8	46	3·97
Bradford	29·675	71·4	32·0	39·4	58·0	44·5	31·0	13·5	49·5	42·1	·271	3·1	1·0	76	537	77·9	—	1·3	7	9	6	8	—	6·7	38	3·97
Leeds	29·666	76·0	34·0	42·0	60·0	43·7	34·7	16·8	50·3	43·9	·293	3·3	0·8	81	541	74·7	—	2·0	6	9	3	12	—	3·5	36	3·97
Cockermouth	29·670	76·5	28·8	47·7	59·4	43·2	35·8	16·2	50·2	42·4	·275	3·1	1·0	75	541	108·5	37·1	0·5	5	10	6	9	2·5	6·2	41	3·97
Silloth	29·643	72·5	30·5	42·0	59·3	42·1	35·2	17·2	49·5	43·3	·284	3·2	0·8	80	544	108·0	36·5	1·5	4	10	5	12	8·2	5·7	41	3·97
Carlisle	29·657	76·5	26·7	49·8	60·2	41·7	40·3	18·5	49·8	42·6	·277	3·1	1·0	76	542	97·9	35·6	1·4	4	12	3	11	4·2	6·0	47	3·97
Bywell	—	73·0	27·0	46·0	58·3	44·5	34·0	13·8	50·0	45·8	·312	3·5	0·6	87	534	76·6	34·3	1·2	7	10	3	10	—	7·3	44	3·97
North Shields	—	67·3	32·0	35·3	54·8	43·6	28·5	11·2	47·9	43·1	·281	3·2	0·6	83	545	—	43·1	1·5	11	9	3	7	—	6·1	45	4·00

The highest temperatures of the air were at Blackheath, 87°·2; Camden Square and Cambridge, both 85°·0; Royston, 84°·1; and Nottingham, 84°·0.

The lowest temperatures of the air were at Holkham, 26°·5; Carlisle, 26°·7; Bywell, 27°·0; Rugby, 27°·5; and Cockermouth, 28°·8.

The greatest daily ranges of the temperatures of the air were at Cambridge, 21°·2; Royston 20°·8; Nottingham, 19°·9; and Strathfield Turgiss and Rugby, both 19°·6.

The least daily ranges of the temperatures of the air were at Llandudno, 10°·5; North Shields, 11°·2, Liverpool, 11°·5; and Guernsey 11°·7.

The greatest number of rainy days were at Bradford, 59; Leicester, 58; Bolton, 49; and Nottingham and Halifax, both 48.

The least number of rainy days were at Cardington, 29; Ramsgate 30; Plymouth, Osborne, and Brighton, all 33.

The heaviest falls of rain were at Nottingham, 9·86 inches; Stonyhurst, 9·65 inches; Bolton, 9·23 inches; and Halifax 9·03 inches.

The least falls of rain were at Brighton, 3·32 inches; Norwich, 4·13 inches; Rugby, 4·17 inches; North Shields, 4·30 inches; and Lowestoft, 4·36 inches.

Quarterly Meteorological Table for different Parallels of Latitude.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days on which it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·644	76·5	38·5	38·0	59·2	47·5	28·0	11·7	51·6	46·3	·316	3·6	0·8	83	538	101·5	44·9	1·4	10	8	5	7	1·9	4·5	35	4·72
Between the latitudes 50° and 51°	29·667	74·9	34·6	40·3	60·6	45·8	32·9	14·8	51·9	45·1	·315	3·6	0·8	81	540	116·3	40·5	1·5	8	7	7	8	5·0	6·2	36	4·00
51° and 52°	29·662	78·4	32·7	45·7	61·1	44·4	36·8	16·7	51·5	45·0	·303	3·4	0·9	79	538	110·8	39·2	1·2	8	8	6	8	2·5	6·2	39	3·99
52° and 53°	29·647	78·6	30·2	48·4	60·3	42·7	39·8	17·6	50·2	44·5	·297	3·5	0·8	81	540	105·1	38·1	0·9	8	8	6	8	5·0	6·6	42	4·00
53° and 54°	29·673	73·4	31·9	41·5	58·1	43·4	32·5	14·7	49·3	42·9	·281	3·2	0·8	79	539	90·1	38·8	1·4	7	8	5	10	5·4	6·4	45	4·00
54° and 55°	29·657	74·6	28·2	46·4	59·3	42·9	36·3	16·4	49·9	43·5	·287	3·2	0·9	79	540	97·8	35·9	1·1	5	10	4	11	5·0	6·5	45	4·00
Mean for the Quarter, 50° to 55° — Year 1877	29·583	81·1	29·0	52·1	59·8	43·9	35·1	15·9	50·5	43·6	·289	3·3	1·0	78	539	98·7	38·8	1·3	7	9	8	7	4·6	6·3	41	3·87
" 1878	29·510	86·8	28·0	58·8	62·6	46·1	39·2	16·5	52·9	46·9	·325	3·7	0·9	81	536	104·8	41·6	1·1	5	9	9	8	4·3	5·9	49	3·94
" 1879	29·542	70·7	27·1	43·6	57·0	42·1	32·9	14·9	48·2	42·9	·282	3·2	0·7	82	540	96·2	37·7	1·1	7	7	8	9	5·0	6·8	56	3·99
" 1880	29·661	76·0	31·5	44·5	59·9	43·8	35·7	16·1	50·6	44·4	·297	3·5	0·8	80	539	104·0	38·5	1·2	7	8	6	9	4·6	6·4	41	4·00

Remarks on the Weather during the Quarter ending September 30th, 1880.

By James Glaisher, Esq., F.R.S., *&c.*

The weather in July was dull, unsettled, and wet in all parts of the country, in some places rain fell on 26 or 27 days in the month, and at all places, excepting at the extreme south of England, the number of days of rain exceeded 20. Thunder storms were of frequent occurrence. During the most remarkable storm in the month, viz., that of the 14th–16th, the fall of rain at Cardington between 14th, 1 h. p.m., and 15th, 9 h. a.m., or in 20 hours was 2·37 inches. At Stockton, near Rugby on the 13th, the fall was still heavier; the Observer says:—"The rain "fell in torrents from 4·30 till 6 p.m., with violent hail, which lay thick on the ground. The "rain gauge read 1·72 inch at 6 p.m., but the hail choking the tube probably made the register "inadequate. The thunder and lightning were almost continuous during two hours. The storm "began again at 3 h. a.m. on the 14th, the rain being not less heavy, but with no hail and little "thunder. The first fall was preceded by an unusual current of air, which lowered the "temperature from between 70° and 80° to 37°. There was scarcely any ozone." The fall on the 13th was 3·57 inches, and on the 14th was 1·12 or 4·69 inches in two days.

Wheat crops were laid in many places, and at the end of the month water stood on the land in low lying districts, and rivers were full. The month was most unfavourable for harvest work. The fall of rain exceeded its average at all places, and by as much as 3 or 4 inches in some localities.

The weather at the beginning of August was cold, with frequent rain; on the 8th a favourable change took place, on the 9th the weather was fine in all districts, and from this time to the end of the month the weather was genial and fine, there was scarcely any rain, but there was an absence of bright sunshine, the wind was mostly from the N.E., and corn did not harden so quickly as desirable, but still very great progress was made in all harvest work. On the whole the month was remarkably fine.

In September very fine weather was prevalent during the first week, and the highest temperature in the year at by far the greatest number of places was recorded on the 4th of September. Rain then set in, and from the 6th to the 21st fell on nearly every day. The heaviest falls were in the eight days ending the 18th; more than one inch on one day occurred at many places, as follows:—

On 11th at Ventnor the fall was 1·22 in., Osborne 1·46 in., Brighton 1·16 in., Strathfield 1·61 in., London 1·33 in., Royston 1·62 in., Cardington 1·59 in., Cambridge 1·25 in., Blackheath 1·13 in., Kelstern 1·55 in., and Hull 1·42 in. On September 12th at Brighton 1·01 in., Marlborough 1·01 in., Oxford 1·12 in., Whitchurch 1·12 in., Stockton 1·26 in., Leicester 1·22 in., and Bolton 1·05 in. On September 13th, at Cockermouth 0·99 in., and at Nottingham 1·07 in. On September 14th at London 1·18 in., Lowestoft 1·07 in., Somerleyton 1·38 in., Kelstern 1·87 in., Hull 1·42 in., Carlisle 1·00 in., Bywell 1·22 in., and North Shields 1·02 in. On September 15th at Barnstaple 0·98 in., Cardington 1·74 in., Leicester 1·39 in., Birmingham 1·55 in., and Sheffield 1·18 in. On September 18th, at Bolton 1·17 in.

The fall of rain in the 8 days ending September 18th, was the heaviest generally; at Leicester the fall was 5·07 ins., Birmingham 4·45 ins., Leeds 4·43 ins., Sheffield 4·32 ins., Hull 4·19 ins., Brighton 3·99 ins., Nottingham 3·64 ins., causing destructive floods at many places, particularly at Sheffield and at Leicester.

No rain fell during the last week of the month, and the weather was fine and warm. The rain-fall in the month at southern stations was in excess, at Midland stations also in excess, but to smaller amounts; at extreme northern stations, and in Wales and in Ireland, the fall in the month was generally less than the average. The month upon the whole may be considered a fine one; and at the end of the month pastures and all root crops were reported in good condition.

Till the 13th July the average daily temperature was 2¼° in defect of the general average of those days; from the 14th to the 28th the temperature was a little warmer, the average daily excess being 1°·6; from July 29th to August 8th it was again cold, the average daily deficiency of temperature being 2°·3; from August 9th to September 12th, the weather was fine and warm, the average excess of daily temperature for these 35 consecutive days was 3°·9; on Saturday, September 4th, the warmest day, the excess of temperature over its average was 14°·4; a cold period of 9 days then set in, whose average daily deficiency of temperature was 2°·8; the last 9 days of the quarter were warm, the average daily excess of temperature being 4°·1.

In the neighbourhood of London *the readings of the barometer* were below their averages from the 1st to the 10th of July, with the exception of the 5th and 6th, on which days they were a little above; the mean amount of defect for the 10 days was 0·15 in. From the 11th to the 23rd, with the exception of the 15th, the readings were high, the mean amount of excess for this period was 0·07 in. From the 24th of July till the 8th of August the mean daily values were all below their averages, the mean amount of defect for these 16 days was 0·22 in. From August 9th to September 5th, with the exception of five days, viz., August 25th, 26th, 29th, 30th, and September 4th, the barometer readings were above their average values, and the mean amount in excess of the average for these 28 days was 0·10 in. A period of 16 days, viz., September 6th to the 21st, now followed with low pressure, especially on the 14th and 15th, the mean amount of defect for the 16 days ending the 21st was 0·28 in. From the 22nd till the end of the quarter the readings were all high, the mean excess being 0·32 in.

The mean reading for the month of July was 29·727 ins., being 0·073 in. below the average. The mean reading for August was 29·818 ins., being 0·035 in. above the average. The mean reading for September was 29·805 ins. being the same as the average.

The atmospheric pressure in July was less than in June by 0·006 in., that in August was greater than in July by 0·091 in., and that in September was less than in August by 0·013 in. (From the preceding 39 years' observations the *mean pressure* in July is less than in June by 0·008 in., that in August is 0·017 in. less than in July, and that in September is 0·022 in. greater than in August.)

The mean *decrease of pressure* from June to July from all stations was 0·036 in., the mean increase from July to August from all places was 0·130 in., and the mean decrease from August to September was 0·047 in.

At *Greenwich* the *mean temperature* of July was higher than that of June by 4°·2, that of August was higher than that of July by 1°·1, and that of September was lower than that of August by 3°·1. (From the preceding 39 years' observations the *mean temperature* of July is higher than that of June by 3°·1, that of August is lower than that of July by 0°·6, and that of September is lower than that of August by 4°·4.)

1880. Months.	Temperature of Air. Mean.	Temperature of Air. Diff. from average of 109 years.	Temperature of Air. Diff. from average of 39 years.	Temperature of Evaporation. Mean.	Temperature of Evaporation. Diff. from average of 39 years.	Temperature of Dew Point. Mean.	Temperature of Dew Point. Diff. from average of 39 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 39 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 39 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 39 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.
July -	61·7	+0·1	−0·4	58·4	+0·7	55·5	+1·6	19·1	−1·9	..	0·441	+0·024	4·9	+0·2
August	62·8	+1·9	+1·3	60·0	+2·6	57·7	+3·8	17·1	−2·7	..	0·477	+0·059	5·2	+0·6
Sept. -	59·7	+3·2	+2·6	57·1	+3·2	54·8	+3·8	17·5	−0·9	..	0·430	+0·052	4·8	+0·6
Means -	61·4	+1·7	+1·2	58·5	+2·2	56·0	+3·1	17·9	−1·8	..	0·449	+0·045	5·0	+0·5

1880. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 39 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 39 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 39 years.	Rain. Amount.	Rain. Diff. from average of 65 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
July -	81	+6	29·727	−0·073	527	− 1	3·8	+1·3	258	0	0	31	41·8	56·8
August	83	+6	29·818	+0·035	527	− 1	1·0	−1·5	235	0	1	30	39·0	60·3
Sept. -	84	+3	29·805	0·000	530	− 3	4·0	+1·6	299	0	4	26	37·2	58·0
Means -	83	+5	29·783	−0·013	528	− 2	Sum 8·8	Sum +1·4	Mean 264	Sum 0	Sum 5	Sum 87	Lowest 37·2	Highest 60·3

NOTE.—In reading this table it will be borne in mind that the plus sign (+) signifies *above* the average, and that the minus sign (−) signifies *below* the average.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter, were as follows:—

Direction of Wind.	July. Average.	July. 1880.	July. Departure from Average.	August. Average.	August. 1880.	August. Departure from Average.	September. Average.	September. 1880.	September. Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	2½	2	− ½	2	2	0	1½	2	+ ½
N.	3½	0	−3½	3	2	−1	3½	2	−1½
N.E.	3¾	1	−2¾	3	5	+2	5¼	1	−4¼
E.	1¼	1	− ¼	1¼	6	+4¾	1¼	1	− ¼
S.E.	½	3	+2½	1¼	5	+3¾	1¼	3	+1¾
S.	2½	2	− ½	3	3	0	2	4	+2
S.W.	10½	12	+1½	10½	2	−8½	7¼	7	− ¼
W.	4	10	+6	3¾	6	+2¼	2½	8	+5½
Calm (nearly.)	2½	0	−2½	3¼	0	−3¼	4½	2	−2½

The plus sign (+) denotes excesses over averages; the largest numbers affected with this sign in the month of July are opposite to the W., in August to the E. and S.E., and in September to the W.

The minus sign (−) denotes defects below averages; the largest numbers affected with this sign in the month of July are opposite to the N. and N.E., in August to the S.W., and in September to the N.E.

The increase of *mean temperature* from June to July was nearly the same everywhere, and the mean from all places was 3°·7, the mean increase from July to August from all stations was 2°·1, and the mean decrease from August to September from all places was 2°·8.

The mean temperature of the air for July was 61°·7, being 0°·1 above the average of the preceding 109 years, and 0°·4 below the average of the preceding 39 years. It was 3°·6 higher than that in 1879.

The mean temperature of the air for August was 62°·8, being 1°·9 and 1°·3, respectively, above the average of the preceding 109 years, and 39 years. It was 2°·9 above that in 1879.

The mean temperature of the air for September was 59°·7, being 3°·2 and 2°·6, respectively, above the averages of the preceding 109 years, and 39 years. It was 3°·4 above the value in 1879.

The mean temperature of the air for the quarter was 61°·4, being 1°·7 and 1°·2, respectively, above the averages of the preceding 109 years, and 39 years. It was 3°·3 above that in 1879.

The mean high day temperatures of the air were 1°·3, and 0°·1, respectively, below their averages in July and August, but 2°·1 above in September.

The mean low night temperatures of the air were 0°·7, 2°·6, and 3°·0, respectively, above their averages in July, August, and September. Therefore the days in July were somewhat cold; in August were about their average values; and in September were warm. The nights were warm throughout the quarter.

The mean daily ranges of temperature were 1°·9, 2°·7, and 0°·9, respectively, less than their averages in July, August, and September.

The fall of rain at Greenwich in July was 3·8 ins., being 1·3 in. above the average; the fall in August was 1·0 in., being 1·5 in. below the average. The following are the only instances back to 1815 of so small a fall of rain for the month of August as that in the present year, viz.:—In 1818 it was 0·1 in., in 1819 it was 0·4 in., in 1838 it was 0·9 in., in 1849 it was 0·5 in., in 1861 it was 0·6 in., and in 1871 it was 0·9 in. The fall in September was 4·0 ins., being 1·6 in. above the average. Back to 1815 there are but six instances of so large a fall of rain in September, viz.:—In 1818 it was 4·2 ins., in 1835 it was 4·2 ins., in 1839 it was 5·0 ins., in 1841 it was 4·0 ins., in 1842 it was 4·0 ins., and in 1871 it was 4·1 ins.

The total fall in the quarter was 8·8 ins., being 1·4 in. above the average of the preceding 65 years.

Thunderstorms occurred on the 1st of July at Lowestoft; on the 3rd at North Shields; on the 7th at Hull; on the 8th at Somerleyton, Lowestoft, and North Shields; on the 9th at Halifax and North Shields; on the 10th at Guernsey, Caterham, Strathfield, Cardington, and Stockton; on the 13th at Marlborough, Royston, Cardington, Stockton, Wolverhampton, Liverpool, Bermerside, and Hull; on the 14th at Salisbury, Strathfield, Oxford, Royston, Cardington, Stockton, Cambridge, Wolverhampton, Liverpool, and Hull; on the 15th at Osborne, Strathfield, Marlborough, Reading, Cardington, and Stockton; on the 16th at Strathfield and Cardington; on the 17th at Guernsey, Bath, Strathfield, Reading, Royston, Cardington, Stockton, Cambridge, Wolverhampton, Liverpool, Bolton, Llandudno, and Halifax; on the 18th at Guernsey, Strathfield, Cardington, and Llandudno; on the 19th at Cardington, Stockton, Kelstern, and Llandudno; on the 21st at Marlborough, Royston, Cardington; on the 22nd at Bath; on the 23rd at Hull; on the 25th at North Shields; on the 26th at Royston and Cardington; on the 29th at Salisbury, Royston, Cardington, Somerleyton, Cambridge, and Hull; on the 30th at Guernsey, Torquay, Salisbury, Bath, Marlborough, Bolton, Cardington, Somerleyton, and Stockton; on the 31st at Bath. On the 2nd of August at Salisbury, Marlborough, Cardington, Hull, and North Shields; on the 5th at North Shields; on the 6th at Bath, Royston, Cardington, Stockton, Cambridge, Hull, and North Shields; on the 7th at Somerleyton; on the 8th at Somerleyton, Hull, and North Shields; on the 26th at Osborne, Strathfield, Marlborough, Cambridge, and Kelstern; on the 28th at Salisbury and Marlborough; on the 29th at Royston, Cardington, and Leicester; on the 30th at Stockton, Halifax, and Leeds. On the 4th of September at Kelstern, Halifax, Silloth, and North Shields; on the 10th at North Shields; on the 11th at Royston, Somerleyton, and Kelstern; on the 12th at Lowestoft and Cambridge; on the 13th at Cardington; on the 14th at Royston, Cambridge, Wolverhampton, Kelstern, Bolton, and Hull, on the 18th at Cardington, Stockton, Cambridge, Kelstern, and Landudno; on the 19th at Somerleyton, Wolverhampton, Halifax, Hull, and North Shields.

Thunder was heard but lightning was not seen on 24 days in July, 9 days in August, and on 6 days in September.

Lightning was seen but thunder was not heard on 7 days in July, 8 days in August, and on 8 days in September.

Solar halos were seen on 6 days in July, 2 days in August, and on 2 days in September.

Lunar halos were seen on 23rd of July at Torquay, and at different places on 4 nights in September, viz., 13th, 16th, 17th, and 22nd.

Auroræ Boreales were seen, on the 12th of August at Brighton, Strathfield, Oxford, Leicester, Bolton, Silloth, Carlisle, and North Shields; and on the 13th at Torquay.

Hail fell on the 2nd of July at North Shields; on the 7th at Somerleyton; on the 8th and 9th at North Shields; on the 13th at Stockton; on the 15th at Reading and Oxford; on the 17th at Bath; and on the 20th at Somerleyton and Lowestoft. On the 2nd of August at Halifax; and on the 8th at Hull and North Shields. On the 13th of September at Torquay and Osborne; on the 14th at Hull; on the 18th at Cardington, Cambridge, Liverpool, Bolton, and Halifax; on the 19th at Wolverhampton, Bolton, Halifax, Hull, and North Shields.

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING SEPTEMBER 30TH, 1880.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the sixth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1880. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean of all Highest.	Temperature of Air in Month. Mean of all Lowest.	Temperature of Air in Month. Mean Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									
GUERNSEY. Adolphus Collenette, Esq., F.M.S.	204	July	29·714	0·734	75·0	53·0	22·0	68·6	56·2	12·4	60·5	55·8	·446	5·0	0·9	85	528	114·1	54·3	1·2	5	3	11	12	2·1	3·6	14	2·41
		Aug.	29·752	0·675	76·0	54·0	22·0	68·3	58·8	9·5	62·0	58·1	·483	5·4	0·8	87	527	102·5	56·2	1·1	10	9	3	9	1·4	5·4	9	1·17
		Sept.	29·780	1·049	78·0	52·0	26·0	65·9	56·6	9·3	60·2	56·8	·463	5·2	0·7	90	529	97·8	53·6	1·3	7	6	8	9	1·8	5·3	19	5·41
TRURO (Cornwall). C. Barham, Esq., M.D., F.M.S.	43	July	29·848	0·835	77·0	46·0	31·0	69·3	53·3	16·0	59·0	53·3	·407	4·6	1·0	82	532	–	–	2·3	6	1	8	16	–	6·0	16	3·44
		Aug.	29·923	0·866	82·0	44·0	38·0	73·8	56·4	17·4	62·4	55·7	·445	5·0	1·3	79	530	–	–	1·8	7	11	8	5	–	6·1	4	0·19
		Sept.	29·915	1·314	79·0	42·0	37·0	67·3	54·0	13·3	58·8	54·4	·425	4·7	0·9	85	533	–	–	2·2	5	3	10	12	–	7·3	16	2·65
PLYMOUTH (Devon). J. Merrifield, Esq., LL.D., F.R.A.S., F.M.S.	69	July	29·918	0·758	73·0	47·4	25·6	67·7	55·2	12·5	60·2	54·6	·426	4·8	1·1	82	532	–	–	1·3	4	5	10	12	–	7·1	19	3·01
		Aug.	29·971	0·699	76·0	51·0	25·0	70·1	57·9	12·2	63·0	57·1	·468	5·1	1·3	81	529	–	–	1·3	8	13	4	6	–	7·1	9	0·76
		Sept.	29·986	1·335	79·2	43·0	36·2	65·4	54·0	11·4	58·8	55·4	·439	4·8	0·7	88	534	–	–	1·2	7	9	7	7	–	7·5	17	3·55
TORQUAY, Babbacombe (Devon). Edwin E. Glyde, Esq., F.M.S.	305	July	29·598	0·789	75·0	47·1	27·9	68·2	53·4	14·8	59·4	53·2	·406	4·5	1·2	80	527	139·3	46·5	1·3	2	4	8	17	4·8	6·1	22	2·56
		Aug.	29·678	0·951	76·6	50·8	25·8	68·6	56·6	12·0	61·2	55·6	·443	4·9	1·1	82	526	131·2	51·2	1·0	11	12	2	6	3·7	6·7	6	0·31
		Sept.	29·666	1·322	76·5	43·7	32·8	65·9	53·3	12·6	58·6	53·3	·407	4·6	0·9	83	529	126·3	46·7	1·2	5	5	7	13	4·7	6·8	15	3·52
VENTNOR, (Isle of Wight) (Royal National Hospital for Consumption). J. Codling, Esq.	150	July	29·836	0·676	74·8	48·2	26·6	66·6	54·3	12·3	59·0	55·4	·439	4·9	0·7	89	532	–	–	–	0	3	14	14	5·9	5·7	17	3·38
		Aug.	29·889	0·740	76·4	51·7	24·7	72·9	57·6	15·3	63·0	57·5	·474	5·2	1·2	82	528	–	–	–	11	10	3	7	4·5	5·6	8	0·70
		Sept.	29·898	1·100	77·2	47·5	29·7	67·0	55·9	11·1	60·4	55·9	·447	5·0	0·9	86	531	–	–	–	7	7	7	9	5·5	6·6	13	4·98
OSBORNE (Isle of Wight). J. R. Mann, Esq.	172	July	29·728	0·758	81·0	47·5	33·5	71·1	53·9	17·2	60·6	57·2	·470	5·2	0·7	89	528	127·1	51·0	1·0	1	4	13	13	–	6·0	15	3·43
		Aug.	29·798	0·920	82·0	48·1	33·9	74·6	56·1	18·5	63·3	58·4	·490	5·4	1·0	84	526	123·9	52·9	0·9	11	9	4	7	–	6·5	8	1·01
		Sept.	29·794	1·148	81·4	46·7	34·7	68·7	53·9	14·8	60·0	56·4	·456	5·1	0·7	89	530	109·6	49·9	1·1	5	5	10	10	–	6·3	13	5·30
BRIGHTON (Sussex). F. E. Sawyer, Esq., F.M.S.	206	July	29·710	0·657	78·7	48·3	30·4	71·0	55·1	15·9	61·7	54·0	·419	4·6	1·6	77	527	116·5	54·0	0·6	2	2	11	17	–	7·8	20	2·96
		Aug.	29·730	1·021	76·0	49·3	26·7	71·4	56·7	14·7	62·8	55·1	·434	4·9	1·5	76	526	113·0	54·7	1·1	17	6	3	5	–	5·9	7	0·75
		Sept.	29·713	1·101	75·2	43·0	32·2	66·9	53·4	13·5	59·7	53·1	·404	4·5	1·3	80	530	97·4	50·5	0·7	6	5	10	9	–	7·2	13	4·65
SALISBURY (Wilton House), Wilts. Thomas Challis, Esq.	186	June	29·733	0·678	78·0	35·5	42·5	69·2	46·2	23·0	56·0	50·2	·365	4·1	0·9	81	533	111·9	45·4	1·2	10	4	5	11	–	7·5	20	2·21
		July	29·708	0·648	81·5	42·5	39·0	72·8	50·0	22·8	60·0	55·3	·438	4·9	0·9	85	528	119·1	48·8	1·4	2	2	9	17	–	7·1	20	4·63
		Aug.	29·800	0·892	83·0	43·0	40·0	75·0	52·1	22·9	61·9	56·2	·452	5·0	1·2	82	528	114·8	51·5	1·1	10	9	6	6	–	6·0	8	1·34
		Sept.	29·776	1·342	85·0	36·0	49·0	71·1	49·1	22·0	58·8	53·5	·410	4·5	1·0	82	531	103·7	47·5	1·2	6	5	8	11	–	6·5	16	2·89
BARNSTAPLE (Devon). William Knill, Esq.	43	July	29·857	0·590	79·0	47·0	32·0	71·5	56·9	14·6	62·4	55·5	·442	4·9	1·3	79	529	–	–	1·0	1	4	10	16	–	2·3	20	7·14
		Aug.	29·941	0·690	80·5	42·0	38·5	75·5	55·1	20·4	64·2	56·0	·449	5·0	1·6	75	528	–	–	1·1	3	17	6	5	–	1·7	9	1·45
		Sept.	29·935	1·270	85·0	49·0	37·0	68·7	55·6	13·1	60·9	55·5	·440	4·9	1·1	83	531	–	–	1·3	2	2	16	10	–	3·8	15	4·07
CATERHAM (Surrey), "Metropolitan Asylum," G. Stanley Elliot, Esq., M.D.	608	July	29·223	0·720	76·8	47·0	29·8	67·8	52·3	15·5	59·2	55·4	·391	4·4	1·2	79	521	–	44·4	1·2	4	1	10	16	–	5·9	23	4·68
RAMSGATE (Kent). Rev. E. Douglas O'Gara, O.S.B., F.M.S.	108	Aug.	29·852	1·042	76·1	49·1	27·0	70·1	58·5	11·6	63·2	59·1	·503	5·6	0·9	87	527	–	–	1·1	10	11	4	6	–	6·6	–	–
		Sept.	29·892	1·231	79·2	44·2	35·0	68·0	54·6	13·4	60·3	56·0	·449	5·0	0·8	86	531	–	–	0·9	4	5	14	7	–	6·0	11	1·85

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1880. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean of all Highest.	Temperature of Air in Month. Mean of all Lowest.	Temperature of Air in Month. Mean Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat.n = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
STRATHFIELD TURGISS (Hants). Rev. C. H. Griffith, M.A., F.M.S.	197	July	29·693	0·648	78·5	45·3	33·2	70·6	52·4	18·2	60·4	54·6	·427	4·8	1·1	82	528	126·4	46·5	1·1	7	2	10	12	3·5	7·4	21	4·84
		Aug.	29·783	0·797	78·4	43·5	34·9	72·3	54·3	18·0	61·9	56·6	·457	5·0	1·2	83	527	122·3	50·1	0·9	10	11	5	5	3·3	6·2	9	0·99
		Sept.	29·732	1·187	83·7	41·9	41·8	68·7	51·0	17·7	59·1	54·9	·431	4·9	0·8	87	531	112·9	45·3	0·7	3	3	9	15	2·0	5·9	14	4·62
BATH (Somerset), St. Gregory's College, Downside. Rev. T. J. Almond, O.S.B., F.M.S.	596	July	29·252	0·699	75·4	47·3	28·1	65·9	52·4	13·5	57·4	52·8	·400	4·5	0·8	85	523	119·4	49·7	1·3	3	2	10	16	–	4·8	20	6·69
		Aug.	29·361	0·944	78·4	49·1	29·3	69·9	54·6	15·3	60·2	55·5	·441	5·0	0·9	85	522	117·0	52·7	1·1	11	10	5	5	–	6·5	7	0·81
		Sept.	29·337	1·293	83·2	45·0	38·2	65·1	51·5	13·6	57·0	53·8	·414	4·6	0·6	89	525	109·0	49·0	1·1	4	3	7	16	–	6·6	16	5·76
MARLBOROUGH (Wilts). Rev. Thomas A. Preston, M.A., F.M.S.	474	July	29·396	0·683	74·7	43·7	31·0	69·3	52·4	16·9	60·1	54·5	·425	4·7	1·1	82	523	125·0	46·5	0·6	2	4	11	14	–	7·7	21	4·37
		Aug.	29·499	1·014	77·7	46·0	31·7	70·8	54·2	16·6	61·3	56·1	·452	5·0	1·1	84	523	115·9	50·4	0·6	8	15	3	5	–	6·7	8	1·35
		Sept	29·474	1·280	81·5	40·1	41·4	67·4	50·9	16·5	58·4	53·5	·410	4·6	0·9	84	526	109·8	47·8	0·5	5	6	6	13	–	6·7	16	3·93
BLACKHEATH (London). James Glaisher, Esq., F.R.S.	160	July	29·724	0·696	78·5	45·0	33·5	72·1	52·1	20·0	60·4	54·1	·418	4·7	1·2	80	528	136·4	48·3	0·7	2	3	9	17	–	6·4	22	3·89
		Aug.	29·609	0·996	81·3	46·5	34·8	71·7	54·4	17·3	61·8	55·3	·437	4·8	1·3	80	528	113·4	51·2	0·7	6	11	6	8	–	6·9	7	0·97
		Sept.	29·799	1·270	87·5	41·5	46·0	68·9	50·6	18·3	59·0	52·9	·401	4·5	1·1	81	531	119·8	45·6	0·8	4	3	10	13	–	6·0	12	4·14
WHITCHURCH RECTORY (Oxon), (near Reading). Rev. J. Slatter, M.A., F.R.S., F.M.S.	150	July	29·731	0·657	77·1	44·3	32·8	71·6	52·5	19·1	61·9	56·6	·457	5·0	1·2	83	527	–	–	1·3	3	2	12	14	–	6·9	25	5·44
		Aug.	29·846	1·094	79·7	45·0	34·7	71·5	54·2	17·3	61·8	55·3	·438	4·8	1·3	80	529	–	–	1·0	9	15	3	4	–	7·9	8	0·75
		Sept.	29·819	1·198	84·2	40·3	43·9	68·6	52·0	16·6	59·4	54·9	·431	4·8	0·9	86	531	–	–	1·0	5	4	9	12	–	6·0	13	4·04
CAMDEN SQUARE (London). G. J. Symons, Esq., F.R.S., F.M.S.	123	July	29·765	0·638	79·2	47·5	31·7	72·5	54·5	18·0	61·6	53·8	·414	4·6	1·5	76	528	118·8	51·7	–	8	4	7	12	–	6·6	23	5·10
		Aug.	29·857	1·156	82·6	47·8	34·8	74·5	55·9	18·6	63·3	56·3	·455	5·0	1·4	78	528	115·4	53·8	–	17	7	2	5	–	6·4	4	0·45
		Sept.	29·846	1·258	88·3	42·1	46·2	69·7	52·8	16·9	60·0	55·5	·409	4·6	1·2	79	531	107·1	48·5	–	15	5	4	6	–	5·6	12	4·04
OXFORD (The Observatory). E. J. Stone, Esq., M.A., F.R.S.	210	July	29·661	0·707	71·8	47·0	24·8	67·4	54·1	13·3	60·3	54·4	·422	4·7	0·8	81	527	118·6	51·7	1·9	2	4	13	12	1·4	7·6	24	6·22
		Aug.	29·786	0·978	75·5	48·9	26·6	68·9	55·7	13·2	61·5	56·3	·454	5·0	1·2	82	528	116·3	54·2	1·8	12	8	5	6	2·7	7·1	5	0·60
		Sept.	29·749	1·238	83·2	42·9	40·3	67·6	52·7	14·9	59·3	54·4	·423	4·7	0·9	84	530	112·5	50·4	1·6	4	5	10	11	1·2	6·6	13	3·59
GLOUCESTER COUNTY ASYLUM. E. Toller, Esq., M.D.	100	July	29·781	0·708	78·0	47·0	31·0	72·6	53·6	19·0	61·0	55·8	·445	5·0	1·0	83	528	125·3	51·3	1·2	7	2	1	21	2·1	5·6	20	5·15
		Aug.	29·907	1·074	81·0	47·5	33·5	72·1	54·6	17·5	62·1	56·3	·455	5·1	1·1	81	530	111·2	52·9	0·2	7	13	2	9	3·7	6·4	5	0·45
		Sept.	29·884	1·280	84·0	42·5	41·5	69·8	51·7	18·1	59·2	56·6	·458	5·1	0·5	91	532	109·9	49·1	1·1	7	2	3	18	1·3	5·6	10	3·25
ROYSTON (Hertfordshire). Hale Wortham, Esq., F.R.A.S., F.M.S.	269	July	29·636	0·680	78·0	45·5	32·5	71·4	51·4	20·0	59·3	55·2	·435	4·9	0·8	87	528	–	–	–	3	4	10	14	–	6·9	23	4·55
		Aug.	29·739	1·098	79·0	46·6	32·4	70·7	53·2	17·5	60·2	56·8	·463	5·2	0·7	89	529	–	–	–	18	5	2	6	–	7·5	7	1·14
		Sept.	29·714	1·240	86·1	41·6	41·5	69·5	50·5	19·0	58·5	53·2	·405	4·5	1·0	82	530	–	–	–	4	5	7	14	–	6·6	9	3·29
BEDFORD, Cardington. Mr. J. McLaren, Assistant to S. C. Whitbread, Esq., M.P.	105	July	29·757	0·700	76·6	46·0	30·6	71·2	53·0	18·2	61·1	56·8	·463	5·1	0·9	86	528	113·0	48·8	1·1	4	5	3	19	–	6·7	27	6·44
		Aug.	29·865	0·820	78·0	45·0	33·0	70·5	54·8	15·7	61·5	56·7	·462	5·1	1·0	85	530	103·3	51·5	1·0	10	14	1	6	–	7·0	7	1·00
		Sept.	29·826	1·260	85·0	40·0	45·0	68·2	50·7	17·5	59·0	55·8	·445	5·0	0·6	89	531	99·5	43·7	1·0	4	4	8	14	–	5·9	10	5·00
CAMBRIDGE (Trinity College). J. W. L. Glaisher, Esq., M.A., F.R.S.	40	July	29·814	0·690	78·4	46·0	32·4	72·4	52·6	19·8	60·2	55·5	·441	5·0	0·9	85	530	138·9	49·2	1·0	4	2	13	12	–	7·3	26	3·60
		Aug.	29·935	0·858	81·2	43·0	38·2	73·9	54·6	19·3	62·3	56·9	·465	5·2	1·1	83	530	129·9	51·3	1·0	10	13	3	5	–	6·6	9	1·45
		Sept.	29·901	1·280	87·6	43·0	44·6	71·1	50·7	20·4	59·8	54·7	·429	4·8	1·0	84	532	123·4	44·0	1·0	5	4	9	12	–	6·2	11	2·84
RUGBY (Warwickshire), Stockton, "The Rectory," W. Tuckwell, Esq.	289	July	29·552	0·632	78·0	41·0	37·0	70·8	50·6	20·2	58·5	53·7	·414	4·6	0·9	84	527	–	47·4	0·4	3	5	12	11	6·4	7·0	23	6·78
		Aug.	29·719	0·902	80·0	43·0	37·0	70·7	53·1	17·6	61·1	53·6	·411	4·6	1·4	77	528	–	52·0	0·2	13	9	4	5	5·0	5·8	4	1·39
		Sept.	29·644	1·218	86·0	39·0	47·0	68·9	49·4	19·5	58·4	54·8	·430	4·8	0·7	88	529	–	46·7	0·3	4	3	9	14	4·5	5·6	16	4·17
LOWESTOFT (Suffolk). S. H. Miller, Esq., F.R.A.S., F.M.S.	85	July	29·772	0·674	74·6	44·8	29·8	67·4	53·5	13·9	59·2	53·1	·405	4·6	1·1	81	530	117·4	51·1	0·7	4	3	6	18	–	6·8	21	4·78
		Aug.	29·886	1·050	72·3	47·8	24·5	67·3	56·7	10·6	62·0	56·8	·462	5·2	1·0	83	529	111·1	54·4	0·8	11	11	3	6	–	6·0	8	1·69
		Sept.	29·854	1·324	78·0	42·8	35·2	67·1	52·8	14·3	59·2	53·5	·410	4·6	1·0	82	532	110·2	48·6	0·4	5	4	6	15	–	5·0	13	2·45
SOMERLEYTON (Suffolk), The Rectory. Rev. C. J. Steward, F.M.S.	50	July	29·825	0·622	74·6	44·2	30·4	68·0	53·0	15·0	58·8	54·8	·421	4·7	0·8	86	532	–	–	1·0	4	4	12	11	6·8	6·4	23	4·23
		Aug.	29·932	0·802	74·2	48·0	26·2	67·5	56·0	11·5	60·6	56·7	·461	5·1	0·8	85	531	–	–	0·9	13	12	3	3	6·8	5·6	9	2·53
		Sept.	29·910	1·286	79·3	42·9	36·4	67·0	51·6	15·4	58·4	54·0	·419	4·6	0·8	85	534	–	–	0·9	5	5	10	10	6·1	5·6	13	2·69

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1880. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
WOLVERHAMPTON (Staffordshire), Wrottesley, E. Simpson, Esq.	500	July	29·292	0·680	74·2	43·4	30·8	67·1	51·0	16·1	57·2	52·8	·400	4·5	0·8	85	524	—	—	—	5	7	8	11	—	7·4	25	4·78
		Aug.	29·466	0·753	79·1	46·0	33·1	68·1	53·1	15·0	58·7	53·6	·411	4·6	1·0	83	525	—	—	—	10	13	4	4	—	7·8	5	0·47
		Sept.	29·394	1·178	82·7	40·1	42·6	65·6	49·5	16·1	56·6	51·8	·385	4·3	0·8	84	526	—	—	—	5	4	11	10	—	7·0	13	3·10
LEICESTER (Town Museum), W. J. Harrison, Esq., F.G.S.	238	July	29·595	0·668	73·0	47·0	26·0	67·0	53·1	13·9	59·1	52·5	·395	4·5	1·2	79	528	121·6	45·9	0·6	4	5	10	12	—	8·5	25	6·84
		Aug.	29·749	0·950	78·2	48·6	29·6	68·8	55·3	13·5	61·0	54·3	·424	4·7	1·3	79	528	114·0	47·0	0·6	12	10	4	5	—	7·5	11	2·34
		Sept.	29·760	1·275	84·4	43·0	41·4	66·1	51·8	14·3	58·8	52·5	·396	4·4	1·2	80	530	113·1	44·3	1·4	4	6	10	10	—	6·1	17	5·27
NOTTINGHAM (Notts), M.O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	183	July	29·643	0·648	86·7	45·9	40·8	72·4	52·4	20·0	60·0	55·3	·438	4·9	0·9	85	527	112·3	52·7	0·2	3	7	9	12	0·9	7·0	26	5·52
		Aug.	29·807	0·744	75·5	45·6	29·9	68·9	54·5	13·5	59·9	53·9	·416	4·6	1·1	82	531	104·5	54·1	0·3	10	12	4	5	1·1	6·7	9	2·14
		Sept.	29·723	1·367	85·6	40·8	44·8	68·0	51·1	16·9	58·6	52·5	·396	4·4	1·1	80	530	103·1	49·6	0·3	5	6	11	8	0·8	5·2	16	3·98
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D.	100	July	29·749	0·680	71·7	49·0	22·7	64·2	54·0	10·2	57·9	53·3	·409	4·6	0·8	85	531	—	—	0·5	6	3	4	18	—	6·9	19	6·67
		Aug.	29·916	0·860	71·0	50·5	20·5	66·6	56·0	10·6	60·6	54·3	·421	4·7	1·2	80	532	—	—	0·4	4	15	6	6	—	4·6	5	1·86
		Sept.	29·836	1·200	81·8	47·0	34·8	63·4	54·3	9·1	58·4	52·9	·402	4·5	1·0	82	532	—	—	1·2	6	2	4	18	—	6·1	16	2·16
KELSTERN GRANGE, near Louth (Lincolnshire), D. Grant Briggs, Esq., F.M.S.	393	July	29·442	0·655	71·7	42·6	29·1	65·1	50·6	14·5	56·7	52·5	·396	4·4	0·7	86	527	113·9	48·4	1·0	4	5	9	13	7·7	7·3	23	5·38
		Aug.	29·606	1·047	78·2	45·3	32·9	67·0	53·5	13·5	59·0	55·0	·433	4·9	0·7	87	528	115·4	51·6	0·8	12	11	3	5	7·2	7·1	9	1·88
		Sept.	29·530	1·306	81·3	41·7	39·6	66·0	50·4	15·6	57·4	51·6	·382	4·2	1·0	81	528	112·4	47·3	0·8	5	4	7	14	5·9	5·2	11	5·14
LIVERPOOL, The Observatory, John Hartnup, Esq., F.R.A.S.	197	July	29·631	0·654	72·7	49·8	22·9	64·4	54·6	9·8	58·0	52·3	·393	4·4	1·0	81	529	—	—	1·1	4	5	6	16	—	6·3	22	4·73
		Aug.	29·805	1·024	75·2	49·5	25·7	68·3	56·2	12·1	60·8	53·4	·408	4·6	1·4	78	529	—	—	0·8	5	14	5	7	—	6·0	6	1·51
		Sept.	29·727	1·202	82·4	47·3	35·1	64·4	53·9	10·5	58·0	52·7	·399	4·5	0·9	82	531	—	—	1·1	4	7	9	10	—	6·5	16	2·91
BOLTON, Sharples (Lancashire), Rev. T. Mackereth, F.R.A.S., F.M.S.	481	July	29·313	0·634	73·4	44·6	28·8	64·8	51·1	13·7	56·3	51·7	·384	4·3	0·8	85	525	82·9	45·9	0·5	5	3	10	13	4·5	8·0	24	5·32
		Aug.	29·490	0·948	81·5	44·0	37·5	69·5	51·5	18·0	59·4	52·5	·396	4·4	1·3	78	525	88·5	44·3	0·6	8	12	4	7	4·3	5·7	8	2·66
		Sept.	29·404	1·262	84·7	41·0	43·7	64·1	49·3	14·8	56·1	50·7	·370	4·2	0·9	82	527	76·7	42·8	0·8	5	2	12	11	4·5	7·1	18	6·77
HALIFAX, Bermerside Observatory (Yorkshire), E. J. Crossley, Esq., F.R.A.S.	530	July	29·351	0·628	73·7	43·0	30·7	66·0	51·1	14·9	56·4	51·9	·388	4·4	0·8	85	526	106·0	48·5	0·5	3	6	9	13	—	7·9	21	5·34
		Aug.	—	—	78·3	49·0	29·3	68·6	55·2	15·4	59·2	53·5	·410	4·6	1·0	82	528	103·6	49·7	0·3	7	14	4	6	—	6·5	7	1·76
		Sept.	29·427	1·200	85·5	40·0	45·5	65·6	50·8	14·8	56·8	52·0	·388	4·3	0·8	84	527	103·0	48·9	0·5	2	5	10	13	—	6·5	15	4·06
HULL (Yorkshire), The People's Park, Mr. E. Pease.	12	July	29·830	0·646	75·0	42·0	33·0	67·2	51·8	15·4	58·6	52·5	·396	4·4	1·1	80	532	91·5	49·3	0·7	4	6	7	14	0·4	8·0	22	4·57
		Aug.	30·018	1·002	77·0	45·0	32·0	69·3	54·6	14·7	61·3	54·4	·424	4·7	1·3	79	533	94·6	51·8	0·8	12	10	3	6	2·6	6·6	10	1·87
		Sept.	29·918	1·218	81·0	41·0	40·0	66·4	50·7	15·7	58·3	52·0	·389	4·3	1·1	79	534	87·6	48·1	0·9	5	5	10	10	2·3	7·2	16	5·05
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.S., F.M.S., F.R.A.S.	363	July	29·458	0·645	75·0	46·5	28·5	66·3	51·0	15·3	56·8	52·6	·397	4·4	0·7	86	527	119·0	51·8	—	4	4	4	19	—	8·7	26	7·01
		Aug.	29·624	0·906	80·2	46·0	34·2	70·6	52·1	18·5	59·8	53·6	·412	4·6	0·8	81	527	122·9	53·9	—	8	13	1	9	—	6·8	6	2·24
		Sept.	29·550	1·209	82·0	42·0	40·0	64·8	49·5	15·3	56·3	50·9	·374	4·2	0·8	82	530	116·2	50·5	—	3	4	6	17	—	7·9	19	3·97
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	366	July	29·436	0·654	71·0	49·7	21·3	65·3	53·9	11·4	57·8	51·2	·377	4·2	1·1	79	526	83·5	—	1·0	3	7	7	14	—	7·3	25	5·89
		Aug.	29·643	0·822	79·3	49·5	29·8	69·3	55·5	13·8	60·7	52·5	·395	4·4	1·5	74	527	82·4	—	0·8	8	11	6	6	—	6·5	13	1·68
		Sept.	29·552	1·200	81·3	45·0	36·3	66·3	53·3	13·0	58·3	51·8	·386	4·3	1·1	79	528	78·6	—	0·8	6	6	7	11	—	5·8	16	3·75
LEEDS (Yorkshire), The Philosophical Hall, H. Crowther, Esq.	137	July	29·687	0·686	72·0	49·0	23·0	66·3	53·2	13·1	58·2	52·3	·393	4·4	1·0	81	530	79·1	—	2·1	4	7	3	17	—	4·3	20	4·46
		Aug.	29·883	0·942	80·0	48·0	32·0	71·5	55·0	16·5	62·0	55·3	·439	4·9	1·3	79	529	87·0	—	1·9	10	12	2	7	—	3·5	8	1·52
		Sept.	29·783	1·200	84·0	44·0	40·0	70·0	52·5	17·5	59·9	54·5	·424	4·7	1·1	83	530	80·4	—	1·9	4	4	5	17	—	4·0	11	3·64
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.M.S., F.R.A.S.	146	July	29·667	0·663	76·0	45·9	30·1	66·1	53·0	13·1	58·0	54·0	·418	4·7	1·3	86	530	119·9	49·0	0·3	6	6	8	11	1·5	7·5	21	4·46
		Aug.	29·864	0·904	82·1	44·6	37·5	71·7	52·7	19·0	61·0	52·4	·394	4·4	1·6	74	530	118·5	47·7	0·3	8	11	6	6	0·9	4·5	6	0·96
		Sept.	29·762	1·134	82·2	40·9	41·3	64·4	50·9	13·5	56·8	51·4	·380	4·2	0·9	82	533	104·8	43·9	0·4	6	4	10	10	1·1	7·1	19	5·17
SILLOTH (Cumberland), "The Rectory," Rev. F. Redford, M.A., F.R.A.S., F.M.S.	28	July	29·793	0·777	74·6	45·6	29·0	66·2	52·2	14·0	57·8	52·3	·393	4·4	0·9	82	532	113·8	47·0	1·1	1	10	5	15	7·7	7·3	23	4·61
		Aug.	29·993	0·942	78·0	43·6	34·4	69·6	52·3	17·3	59·9	53·7	·414	4·6	1·2	81	534	115·6	46·2	1·2	0	17	2	12	7·5	4·8	5	0·41
		Sept.	29·880	1·124	82·3	39·0	43·3	64·7	49·8	14·9	55·9	51·7	·385	4·3	0·7	87	536	109·5	42·3	1·3	2	5	4	19	6·5	5·5	18	4·21

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1880. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
CARLISLE, Spital (Cumberland), Isaac Cartmel, Esq., F.M.S.	114	July	29·701	0·714	75·5	41·7	33·8	68·2	51·2	17·0	57·7	53·5	·411	4·6	0·8	86	531	102·2	44·6	1·2	4	10	1	16	2·2	6·6	23	5·67
		Aug.	29·901	0·944	80·5	44·2	36·3	70·8	51·8	19·0	60·0	55·3	·438	4·9	0·9	85	532	105·2	44·8	1·1	5	14	2	10	1·3	5·4	6	1·22
		Sept.	29·786	1·134	83·7	37·2	46·5	66·1	47·1	19·0	55·7	51·8	·388	4·3	0·6	88	534	98·9	40·3	1·1	6	11	3	10	2·6	5·8	15	3·64
BYWELL (Northumberland), Mr. W. J. Tone, Assistant to W. B. Beaumont, Esq., M.P.	87	July	29·645	—	69·0	49·0	20·0	64·2	53·7	10·5	—	—	—	—	—	—	—	—	45·5	1·2	6	10	2	13	—	7·3	23	4·85
		Sept.	29·795	1·114	78·0	40·0	38·0	64·8	51·4	13·4	56·5	50·1	·363	4·1	1·0	79	534	72·8	42·1	1·0	5	4	2	19	—	6·5	11	4·55
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	128	July	29·747	0·748	67·5	46·5	21·0	61·7	52·3	9·4	56·0	51·7	·386	4·3	0·7	86	534	—	51·9	1·2	8	7	4	12	—	7·1	25	4·67
		Aug.	29·963	0·727	72·0	48·2	23·8	63·7	54·1	9·6	57·7	53·9	·417	4·6	0·7	87	535	—	53·5	1·1	10	11	4	6	—	6·1	17	1·44
		Sept.	29·832	1·197	72·2	40·0	32·2	61·7	50·8	10·9	55·2	51·3	·379	4·2	0·7	87	536	—	50·4	1·3	8	3	6	13	—	4·5	17	4·34

Second Rain-gauges are placed—

		July.	August.	September.	Total in Quarter.
At Strathfield Turgiss,	at the height of 38 feet *above the ground*, the amount collected was	3·47 inches.	0·77 inches.	3·22 inches.	7·46 inches.
,, Oxford,	,, 22 ,, ,, ,,	6·21 ,,	0·57 ,,	2·89 ,,	9·67 ,,
,, Cardington,	,, 36 ,, ,, ,,	5·74 ,,	0·74 ,,	4·20 ,,	10·68 ,,
,, Nottingham,	,, 39 ,, ,, ,,	5·21 ,,	2·11 ,,	3·85 ,,	11·17 ,,

Note.—*Barometer Reading*, Barnstaple, September 30th, at 3h. p.m., 29·37 inches, has been altered to 30·37 inches.

Fog prevailed on the 15th of July at Kelstern and Hull; on the 16th at Royston, Cardington, Stockton, Cambridge, and Kelstern; on the 17th at Torquay, Bath, Royston, Lowestoft, Stockton, Cambridge, and Kelstern; on the 22nd at Torquay; on the 23rd at Guernsey and Torquay; on the 27th at North Shields. On the 4th of August at Plymouth; on the 10th at Plymouth and Torquay; on the 11th at Plymouth, Torquay, and Landudno; on the 13th at Royston and Kelstern; on the 14th at Royston; on the 15th at Guernsey; on the 16th at Torquay, Bath, and Kelstern; on the 18th at Llandudno; on the 21st at Kelstern; on the 24th at Llandudno; on the 25th at Bath and Royston; on the 26th at Torquay, Bath, Royston, Cardington, Wolverhampton, and Kelstern; on the 27th at Torquay, Bath, Royston, Cardington, Somerleyton, Cambridge, and Kelstern; on the 28th at Guernsey, Bath, Cardington, and Kelstern; on the 29th at Guernsey; on the 30th at Guernsey and Bath; and on the 31st at Guernsey, Torquay, Bath, Royston, and Cardington. On the 1st of September at Guernsey, Torquay, and Cambridge; on the 2nd at Guernsey and Torquay; on the 3rd at Torquay and Cambridge; on the 4th at North Shields; on the 10th at Cambridge; on the 21st at Oxford; on the 22nd at Guernsey, Bolton, Llandudno; on the 23rd at Guernsey, Wolverhampton, Bolton, and Llandudno; on the 24th at Guernsey and Oxford; on the 25th at Guernsey; on the 26th at Guernsey, Torquay, Strathfield, and North Shields; on the 27th at Guernsey, Strathfield, Bolton, Wolverhampton, Hull, and North Shields; on the 28th at Truro, Torquay, Strathfield, Reading, Royston, Cardington, Stockton, Cambridge, Wolverhampton, Bolton, and Hull; on the 29th at Truro, Torquay, Strathfield, Marlborough, Reading, Oxford, Royston, Cardington, Stockton, Wolverhampton, Llandudno, Hull, and North Shields; on the 30th at Strathfield, Marlborough, Reading, Oxford, Royston, Cardington, Somerleyton, Lowestoft, Stockton, Cambridge, Wolverhampton, and Llandudno.

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Amount collected.
	in.	°	°	°	°	°	°	°	°	in.	grs	gr.		grs.	°	°										in.
Guernsey	29·501	73·0	52·0	26·0	67·6	57·2	23·3	10·4	60·9	56·9	·434	5·2	0·8	87	528	104·8	54·7	1·2	7	6	7	10	1·8	4·8	42	5·70
Truro	29·516	72·0	42·0	40·0	70·1	54·6	35·3	15·5	60·1	54·5	·426	4·8	1·1	82	532	—	—	2·1	6	5	9	11	—	6·5	36	6·25
Plymouth	29·589	73·2	43·0	35·2	67·7	55·7	28·9	12·0	60·7	55·7	·444	4·9	1·0	84	532	—	—	1·3	6	9	7	8	—	7·2	45	7·75
Torquay	29·551	73·6	43·7	32·9	67·6	54·4	28·8	13·1	59·7	54·0	·419	4·7	1·1	82	527	132·3	48·1	1·2	6	7	6	12	4·4	6·5	45	6·75
Ventnor	29·538	77·2	47·5	29·7	63·8	55·9	27·0	12·9	60·8	56·3	·453	5·0	0·9	86	530	—	—	—	6	7	8	10	5·3	6·0	38	9·00
Osborne	29·481	82·0	46·7	35·3	71·5	54·6	31·0	15·9	61·3	57·3	·472	5·2	0·8	87	528	120·2	51·3	1·0	6	6	9	10	—	6·3	36	9·75
Brighton	29·537	78·7	43·0	35·7	69·8	55·1	29·8	14·7	61·4	54·1	·419	4·7	1·5	78	528	105·6	53·1	0·8	8	4	8	10	—	7·0	40	5·95
Salisbury	29·524	85·0	36·0	49·0	73·0	50·4	42·7	22·6	60·2	55·0	·433	4·8	1·0	83	529	112·5	49·3	1·2	6	5	8	11	—	6·5	44	8·95
Barnstaple	29·510	83·0	42·0	44·0	71·9	55·9	35·8	16·0	62·5	55·7	·444	4·9	1·3	79	529	—	—	1·1	2	8	11	10	—	2·6	44	10·40
Strathfield Turgiss	29·521	83·7	41·9	41·8	70·5	52·6	36·6	17·9	60·5	55·4	·438	4·9	1·0	84	529	120·5	47·3	0·9	7	5	8	11	2·9	6·5	44	10·40
Bath	29·530	81·2	45·0	38·2	67·0	52·8	31·9	14·2	58·2	54·0	·418	4·7	0·8	86	523	115·1	50·5	1·2	6	5	7	12	—	6·0	43	13·25
Marlborough	29·531	84·5	40·1	44·4	69·2	52·5	35·7	16·7	59·9	54·7	·429	4·8	1·0	83	524	116·9	48·2	0·6	5	8	7	11	—	7·0	45	9·95
Blackheath	29·525	87·5	41·5	46·0	70·9	52·4	38·4	18·5	60·4	54·1	·419	4·7	1·2	80	529	123·2	48·4	0·7	4	6	8	13	—	6·4	41	10·75
Reading	29·52	84·2	40·3	43·9	70·6	52·9	37·1	17·7	61·0	55·6	·442	4·9	1·1	83	529	—	—	1·1	6	7	8	10	—	6·9	46	9·95
Camden Square	29·527	88·3	42·1	46·2	72·2	54·4	37·6	17·8	61·6	54·5	·426	4·7	1·4	78	529	113·8	51·3	—	13	5	4	8	—	6·2	39	10·60
Oxford	29·522	83·2	42·9	40·3	68·0	54·2	30·6	13·8	60·4	55·0	·433	4·8	1·0	82	528	113·8	52·1	1·8	6	6	9	10	1·8	7·1	43	8·35
Gloucester	29·516	84·0	42·5	41·5	71·5	53·3	35·3	18·2	60·6	56·2	·453	5·1	0·9	85	530	115·5	51·1	0·5	7	6	2	16	2·4	5·9	35	8·70
Royston	29·545	86·1	41·6	44·5	70·5	51·7	36·5	18·8	59·3	55·1	·434	4·9	0·8	83	529	—	—	—	8	5	6	11	—	7·0	39	12·40
Cardington	29·458	85·0	40·0	45·0	70·0	52·8	36·2	17·2	60·5	55·4	·437	5·1	0·8	87	530	105·3	48·0	1·0	6	8	4	13	—	6·5	44	7·75
Cambridge	29·482	87·6	43·0	44·6	72·5	52·6	38·4	19·9	60·8	55·7	·445	5·0	1·0	84	531	130·7	48·2	1·0	6	6	8	10	—	6·7	46	12·20
Rugby	29·527	81·0	39·0	47·0	70·1	51·0	40·3	19·1	59·3	54·0	·418	4·7	1·0	83	528	—	48·7	0·3	7	6	8	10	5·3	6·1	43	8·25
Lowestoft	29·593	78·0	42·8	35·2	67·3	54·3	29·8	13·0	60·1	54·5	·426	4·8	1·0	82	530	112·9	51·4	0·6	7	6	5	13	—	5·9	42	9·45
Somerleyton	29·506	79·3	42·9	36·4	67·5	53·5	31·0	14·0	59·3	55·2	·437	4·8	0·8	85	532	—	—	0·9	7	7	8	8	6·6	5·9	45	5·55
Wolverhampton	29·515	82·7	40·1	42·6	66·9	51·2	35·5	15·7	57·5	52·7	·399	4·5	0·9	84	525	—	—	—	7	8	8	8	—	7·4	43	14·65
Leicester	29·536	84·4	43·0	41·4	67·3	53·4	32·3	13·9	59·6	53·1	·405	4·5	1·2	79	529	116·2	45·7	0·9	7	7	8	9	—	7·4	53	11·20
Nottingham	29·505	83·7	40·8	45·9	69·5	52·7	34·5	16·8	59·5	54·9	·417	4·6	1·0	82	529	103·6	52·1	0·3	6	8	8	8	0·9	6·3	51	10·95
Llandudno	29·529	81·8	47·0	34·8	64·7	54·8	26·0	9·9	59·0	53·5	·411	4·6	1·0	82	532	—	—	0·7	5	7	5	14	—	5·9	40	17·60
Kelstern Grange	29·537	81·3	41·7	39·6	66·0	51·5	34·9	14·5	57·7	53·0	·404	4·5	0·8	85	528	113·9	49·1	0·9	7	7	6	11	6·9	6·5	45	9·15
Liverpool	29·530	82·4	47·3	35·1	65·7	54·9	27·9	10·8	58·9	52·8	·400	4·5	1·1	80	539	—	—	1·0	4	9	7	11	—	6·3	44	14·75
Bolton	29·520	84·7	41·0	43·7	63·1	50·6	36·7	15·5	57·3	51·6	·388	4·3	1·0	82	526	82·7	44·3	0·6	6	6	9	10	4·4	6·2	50	14·70
Halifax	—	85·5	40·0	45·5	61·7	51·7	33·2	15·0	57·5	52·5	·395	4·4	0·9	84	527	104·2	49·0	0·4	4	8	8	11	—	7·0	43	11·40
Hull	29·512	81·0	41·0	40·0	67·6	52·4	35·0	15·2	59·4	53·0	·403	4·5	1·2	79	533	91·2	49·7	0·8	7	7	7	10	1·8	7·3	48	13·25
Stonyhurst	29·534	82·0	42·0	40·0	67·2	50·9	34·2	16·3	57·6	52·4	·394	4·4	0·8	83	528	119·4	52·1	—	5	7	4	15	—	7·8	51	11·25
Bradford	29·543	81·3	45·0	36·3	67·0	54·2	29·1	12·8	58·9	51·8	·386	4·5	1·2	77	527	81·5	—	0·9	6	8	7	10	—	6·5	54	9·95
Leeds	29·515	84·0	44·0	40·0	69·3	53·6	31·7	15·7	60·0	51·0	·419	4·0	1·1	81	530	82·2	—	2·0	6	8	3	13	—	5·9	39	9·60
Cockermouth	29·523	82·2	40·9	41·3	67·4	52·2	36·8	15·2	58·6	52·6	·397	4·4	1·3	81	531	114·4	46·9	0·3	7	7	8	9	1·2	6·4	46	6·95
Silloth	29·522	82·3	34·0	43·3	66·8	51·4	35·6	15·4	57·9	52·6	·397	4·4	0·9	83	534	113·0	45·2	1·2	1	11	4	15	7·2	5·8	46	9·25
Carlisle	29·501	83·7	37·2	46·5	68·4	51·0	38·9	18·4	57·8	53·5	·412	4·6	0·8	86	532	102·1	43·2	1·1	5	12	2	12	2·0	5·9	44	9·55
North Shields	—	72·2	40·0	32·2	62·4	52·4	25·7	10·0	56·3	51·3	·394	4·4	0·7	87	535	—	51·9	1·2	9	7	5	10	—	5·9	39	10·45

The highest temperatures of the air were at Camden Square, 88°·3; Cambridge, 87°·6; Blackheath, 87°·5; Nottingham, 86°·7; Royston, 86°·1; and Barnstaple and Rugby both 86°·0.

The lowest temperatures of the air were at Salisbury, 36°·0; Carlisle, 37°·2; Rugby and Silloth, both 39°·0; and Cardington, Halifax, and North Shields, all 40°·0.

The greatest daily ranges of the temperatures of the air were at Salisbury, 22°·6; Cambridge, 19°·9; Rugby, 19°·1; Royston 18°·8; Blackheath, 18°·5; and Carlisle, 18°·4.

The least daily ranges of the temperatures of the air were at Llandudno, 9°·9; North Shields, 10°·0; Guernsey, 10°·4; and Liverpool, 10°·8.

The greatest numbers of rainy days were at North Shields, 59; Bradford, 54; Leicester, 53; Stonyhurst and Nottingham, both 51; and Bolton, 50.

The least numbers of rainy days were at Gloucester 35, Truro and Osborne, both 36; Ventnor, 38; and Camden Square, Royston, and Leeds all 39.

The heaviest falls of rain were at Bolton, 14·75 inches; Leicester, 14·45 inches; Bath, 13·26 inches; Stonyhurst, 13·22 inches; and Barnstaple, 12·66 inches.

The least falls of rain were at Truro, 6·28 inches; Torquay, 6·39 inches; Plymouth, 7·32 inches; and Cambridge, 7·89 inches.

QUARTERLY METEOROLOGICAL TABLE for different PARALLELS of LATITUDE.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days it fell.	Rain. Mean Amount collected.
	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°										in.
Guernsey	29·501	78·0	52·0	26·0	67·6	57·2	23·3	10·4	60·9	56·9	·434	5·2	0·8	87	528	104·8	54·7	1·2	7	6	7	10	1·8	4·8	42	5·70
Between 50° and 51°	29·536	79·4	44·6	34·8	69·1	55·9	30·8	14·1	60·5	55·6	·443	4·9	1·0	84	530	116·3	49·7	1·4	6	7	8	10	4·9	6·5	39	7·75
Between 51° and 52°	29·524	85·1	41·3	43·8	70·4	53·1	36·2	17·3	60·5	54·9	·431	4·8	1·1	82	528	116·9	49·6	1·1	6	6	8	11	2·4	6·1	43	10·95
Between 52° and 53°	29·509	81·0	41·5	42·5	69·1	52·6	33·4	16·5	59·6	54·5	·427	4·8	0·9	84	530	114·3	49·0	0·7	7	7	7	10	4·3	6·6	45	10·95
Between 53° and 54°	29·533	82·5	43·1	39·4	66·4	52·6	32·3	13·8	58·3	52·6	·397	4·4	1·0	82	529	98·8	48·8	0·8	6	7	7	11	4·0	6·8	47	11·75
Between 54° and 55°	29·547	82·7	39·0	43·7	67·5	51·2	36·9	16·3	58·1	52·9	·402	4·5	1·0	83	532	109·8	45·1	0·9	4	10	5	12	3·5	6·1	45	10·15
Mean for the Quarter, 50° to 55° — Year 1877	29·552	79·4	35·7	43·7	66·2	50·3	34·9	15·9	57·1	50·9	·376	4·2	1·0	80	533	108·4	45·5	1·2	6	4	7	13	4·1	6·3	48	10·35
" 1878	29·505	83·4	37·5	47·9	69·0	52·6	35·6	15·4	59·9	53·3	·408	4·6	1·2	80	529	109·3	48·0	1·0	6	6	7	12	3·8	5·9	44	9·94
" 1879	29·463	77·2	37·1	40·1	64·7	50·8	31·6	13·9	56·5	51·4	·383	4·3	0·8	84	531	102·0	46·6	1·3	5	5	8	13	4·5	6·8	56	12·44
" 1880	29·534	82·7	41·9	40·8	63·5	52·9	34·3	15·6	59·5	54·1	·420	4·7	1·0	83	530	111·2	48·5	1·0	6	7	7	11	3·8	6·4	44	10·12

REMARKS ON THE WEATHER DURING THE QUARTER ENDING DECEMBER 31ST, 1880.

By JAMES GLAISHER, ESQ., F.R.S., *&c.*

The weather in October was cold and wet, this being in fact the coldest October since 1842, and the wettest on record at most places. Falls of rain exceeding one inch in 24 hours were unusually frequent. On the 20th snow fell all over the country, but the fall was much heavier in the south than in the north of England: the direction of the wind was N., and the temperature of the whole day was 15° below its average. Between the 4th and 26th, the direction of the wind was mostly from E., N., or N.E.; only a few days about the middle of the month were fine.

In November, the first and third weeks were cold, and the second and last were warm; the weather was variable; on the 13th, the temperature for the day was 12¼° in excess of its average, and on the 22nd it was as much below its average. Rain fell on every day from the 8th to the 26th.

In December the weather was mild; there was no rain during the first half of the month, but the rain was nearly continuous from the 16th to the end of the year.

The mean daily temperature of the air, with slight exception, was below its average till November 9th, the average daily deficiency for these 40 days being 4°·1; from November 10th to 17th there was an average daily excess of 6°; this was followed by a like period of seven days of average daily deficiency of 6°·9, and from November 24th to the end of the year, the temperatures were generally high, the average daily excess for these 37 days being 4°·0.

The fall of rain in October was exceptional, and was greatly in excess at many places; the greatest fall was at Guernsey 10·45 in., at Totnes 9·89 in., at Ramsgate 9·70 in.; it exceeded 8 in. at Torquay, Ventnor, and Eastbourne; at Blackheath the fall was 7·94 in. The heaviest fall previously registered in the last-named locality in any month was 7·00 in., in July 1828; the heaviest fall in any October was 6 in. in 1865 and in 1841; the average fall of rain for October is 2·8 in.

There were three periods in the month of exceptional fall of rain; viz., from the 4th to 10th 19th to 23rd, and 26th to 28th. The following table shows the fall of rain within these periods at the several stations.

TABLE showing the FALLS OF RAIN at the several Stations on the 4th, 5th, 6th, 7th, 8th, 9th, 10th, 19th, 20th, 22nd, 23rd, 26th, 27th, and 28th of October 1880.

Names of Stations.	OCTOBER, 1880. 4th.	5th.	6th.	7th.	8th.	9th.	10th.	19th.	20th.	22nd.	23rd.	26th.	27th.	28th.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Guernsey	0·42	0·41	0·29	0·00	0·00	1·08	1·16	0·00	1·04	1·40	1·20	1·04	1·09	0·27
Truro	3·00	0·00	0·21	0·75	0·15	0·00	0·17	0·49	0·00	0·70	0·02	0·45	0·61	0·43
Plymouth	0·18	0·94	0·00	0·18	0·09	0·36	0·00	0·00	0·54	0·18	0·40	0·37	0·58	0·23
Torquay	1·88	0·01	0·53	0·15	0·45	0·18	0·27	0·89	0·00	1·35	0·00	1·05	0·62	0·14
Eastbourne	2·44	0·00	0·44	0·12	0·17	0·17	0·12	0·98	0·00	1·08	0·06	0·86	0·45	0·01
Beachey Head	0·75	0·08	0·10	0·16	0·63	1·77	0·01	0·16	0·75	0·21	0·25	1·42	0·39	0·50
Ventnor	0·99	0·10	0·12	0·15	0·66	1·87	0·03	0·18	0·75	0·30	0·33	1·31	0·28	0·25
Osborne	0·93	0·24	0·22	0·00	0·80	1·41	0·13	1·38	0·13	0·64	0·06	0·81	0·50	0·02
Bournemouth	0·64	0·43	0·23	0·04	0·08	0·15	0·00	0·22	0·03	0·09	0·05	1·67	0·42	0·04
Brighton	0·01	0·82	0·48	0·22	0·08	0·46	0·58	0·00	0·57	0·17	0·39	0·18	1·02	0·34
Salisbury	0·48	0·08	0·13	0·61	0·20	1·77	0·00	0·63	0·15	0·22	0·00	1·00	0·22	0·08
Barnstaple	0·90	0·04	0·43	0·04	0·14	0·34	0·15	0·57	0·13	0·29	0·02	0·77	0·98	0·12
Bath	1·78	0·00	0·27	0·44	0·06	0·10	0·00	0·25	0·00	0·04	0·00	1·76	0·74	0·32
Ramsgate	1·01	0·05	1·45	0·16	0·07	0·07	0·03	0·35	0·00	0·29	0·01	0·75	0·61	0·34
Strathfield Turgiss	0·45	0·34	0·12	0·09	1·33	0·01	1·95	0·00	0·95	0·11	0·00	0·00	1·30	0·90
Marlborough	0·29	0·28	0·70	0·00	0·15	0·50	0·08	0·42	0·19	0·31	0·00	0·77	0·48	0·21
Bristol	1·21	0·18	0·38	0·12	0·02	0·31	0·11	0·30	0·00	0·18	0·00	0·74	0·70	0·22
Blackheath	0·61	1·81	0·11	0·35	0·08	0·00	0·04	0·00	0·07	0·00	0·11	0·23	1·43	0·48
Greenwich	0·24	0·47	0·56	0·56	0·28	1·20	1·38	0·05	0·84	0·27	0·32	0·64	0·54	0·51
Streatley	0·24	0·46	0·34	0·34	0·35	1·14	1·22	0·09	0·72	0·33	0·21	0·64	0·48	0·51
Camden Square	0·00	0·29	0·30	0·71	0·07	0·03	0·43	0·00	0·41	0·03	0·19	0·09	0·68	0·30
Oxford	0·30	0·35	0·65	0·35	0·14	0·29	0·11	0·71	0·09	0·17	0·00	0·92	0·30	0·40
Gloucester	0·00	1·04	0·21	1·09	0·09	0·00	0·11	0·04	0·38	0·00	0·08	0·13	1·01	0·50
Royston	0·00	1·50	0·05	1·00	0·05	0·05	0·01	0·05	0·01	0·09	0·02	0·15	1·10	0·42
Cardington	0·61	0·31	1·38	0·08	0·00	0·15	0·00	0·12	0·11	0·04	0·00	0·94	0·42	0·31
Somerleyton	1·02	0·08	1·07	0·12	0·04	0·07	0·00	0·00	0·02	0·00	0·00	0·91	0·53	0·15
Lowestoft	0·51	0·07	0·86	0·09	0·26	0·04	0·02	0·05	0·40	0·02	0·03	0·62	0·14	0·14
Cambridge	0·52	0·07	0·85	0·12	0·17	0·02	0·01	0·04	0·55	0·00	0·02	0·62	0·12	0·11
Stockton	0·89	0·15	1·77	0·41	0·09	0·02	0·00	0·02	0·16	0·01	0·00	0·86	0·45	0·18
Norwich	1·62	0·48	0·22	0·21	0·16	0·01	0·00	0·00	0·01	0·00	0·00	0·85	0·32	0·37
Leicester	0·00	0·55	0·05	0·38	0·29	0·05	0·12	0·00	0·02	0·06	0·09	0·00	0·62	0·37
Wolverhampton	1·44	0·34	0·74	0·10	0·46	0·01	0·00	0·00	0·07	0·02	0·01	0·78	1·20	0·13
Birmingham	1·19	0·10	0·42	0·04	0·00	0·00	0·00	0·00	0·00	0·00	0·00	0·93	1·63	0·45
Nottingham	0·00	1·60	0·43	0·60	0·10	0·12	—	—	—	—	—	0·04	1·13	1·50
Holkham	0·00	1·21	0·29	0·20	0·54	0·08	0·02	0·02	0·00	0·11	0·00	0·00	0·89	1·40
Llandudno	0·00	0·86	0·58	0·34	0·56	0·02	0·00	0·04	0·00	0·00	0·00	0·00	0·82	0·65
Sheffield	0·55	0·54	0·05	0·00	0·06	0·00	0·00	0·00	0·11	0·00	0·00	0·81	2·23	0·00
Kelstern Grange	1·35	0·87	0·13	0·40	0·06	0·03	0·01	0·00	0·04	0·00	0·00	0·81	1·75	0·51
Liverpool	1·44	0·61	0·19	0·40	0·15	0·02	0·01	0·00	0·19	0·03	0·00	0·77	1·64	0·56
Bolton	0·03	0·78	0·44	0·01	0·08	0·00	0·00	0·11	0·00	0·00	0·00	0·31	0·73	1·47
Bermerside (Halifax)	0·10	0·02	0·00	0·07	0·00	0·00	0·00	0·00	0·00	0·00	0·00	0·38	2·39	0·08
Hull	0·00	1·10	0·54	0·00	0·10	0·00	0·00	0·20	0·00	0·00	0·07	0·17	0·75	1·75
Stonyhurst	0·33	1·19	0·62	0·25	0·11	0·03	0·02	0·00	0·23	0·12	0·04	0·81	1·61	0·68
Bradford	0·42	0·14	0·00	0·01	0·00	0·00	0·00	0·00	0·00	0·00	0·00	0·14	1·71	0·01
Leeds	0·76	0·54	0·01	0·09	0·02	0·02	0·00	0·01	0·00	0·08	0·01	0·67	1·71	0·39
Cockermouth	0·94	0·48	0·00	0·06	0·00	0·02	0·00	0·00	0·04	0·06	0·00	0·51	1·56	0·44
Silloth	0·00	0·35	0·22	0·03	0·05	0·00	0·00	0·13	0·00	0·00	0·00	0·54	0·61	0·76
Sunderland	0·00	0·20	0·00	0·00	0·05	0·00	0·00	0·00	0·00	0·00	0·00	0·37	0·60	0·00
Carlisle	0·00	0·32	0·57	0·05	0·12	0·13	0·01	0·15	0·20	0·11	0·03	0·29	0·05	1·25
Bywell	0·00	0·00	0·16	0·00	0·05	0·04	0·00	0·48	0·00	0·00	0·11	0·11	0·00	0·32
North Shields	0·32	1·05	0·15	0·18	0·25	0·15	0·00	0·00	0·00	0·05	0·00	0·03	1·20	0·70
	0·30	0·39	0·03	0·27	0·04	0·01	0·00	0·05	0·25	0·14	0·09	0·02	0·85	0·37

At every one of the stations south of Leeds an inch or nearly an inch of rain fell on one or more of these days, but north of Leeds, particularly in the Lake District, the falls were very small, and on several of the days no rain fell. It is remarkable that the fall of rain for the whole month in Cumberland and Westmorland was less than one sixth of the average.

In the neighbourhood of London *the readings of the barometer* were above their averages on the first three days of October; they were below from the 4th to the 9th, the mean amount of defect being 0·29 in., above from the 10th to the 19th, to the mean amount of 0·29 inch, below on the 20th, 21st, and 22nd, above on the three following days, and again below from the 26th to the 29th; the defect on the 28th was one inch nearly, and the mean amount of defect for these four days was 0·54 in. A period of 13 days of high pressure now followed, viz., from October 30th to November 11th, the mean amount of excess for these 13 days being 0·26 in. From the 12th to the 19th of November the barometer readings were considerably below their averages, that for the 16th being 1·06 in. in defect, the mean amount for the eight days ending the 19th being 0·53 in. From the 20th of November to the 12th of December the mean daily readings were all above their average values, with the exception of two days, viz., November 25th and 26th, when they were a little below; the mean amount of excess for the 23 days was 0·33 in. From December 13th to the 30th, the readings were all below their averages, and on November 24th and 29th to the extent of three quarters of an inch nearly; the mean amount of defect for the 18 days was 0·41 in. The mean reading for the last day of the year was 0·12 inch above the average.

1880. Months.	Temperature of Air. Mean.	Air. Diff. from average of 109 years.	Air. Diff. from average of 39 years.	Evaporation. Mean.	Evaporation. Diff. from average of 39 years.	Dew Point. Mean.	Dew Point. Diff. from average of 39 years.	Air—Daily Range. Mean.	Air—Daily Range. Diff. from average of 39 years.	Water of the Thames.	Elastic Force of Vapour. Mean.	Elastic Force of Vapour. Diff. from average of 39 years.	Weight of Vapour in a Cubic Foot of Air. Mean.	Weight of Vapour in a Cubic Foot of Air. Diff. from average of 39 years.
	°	°	°	°	°	°	°	°	°	°	in.	in.	grs.	gr.
Oct. -	46·2	−3·4	−4·0	44·9	−3·2	43·4	−2·6	13·1	−1·6	..	0·281	−0·032	3·2	−0·4
Nov. -	42·5	+0·2	−0·9	40·5	−0·7	38·1	−1·2	12·0	+0·5	..	0·230	−0·015	2·7	−0·1
Dec. -	43·2	+4·2	+3·1	41·7	+3·3	39·8	+3·3	9·8	+0·4	..	0·245	+0·027	2·8	+0·3
Means -	44·0	+0·3	−0·6	42·4	−0·2	40·4	−0·2	11·6	−0·2	..	0·252	−0·007	2·9	−0·1

1880. Months.	Degree of Humidity. Mean.	Degree of Humidity. Diff. from average of 39 years.	Reading of Barometer. Mean.	Reading of Barometer. Diff. from average of 39 years.	Weight of a Cubic Foot of Air. Mean.	Weight of a Cubic Foot of Air. Diff. from average of 39 years.	Rain. Amount.	Rain. Diff. from average of 65 years.	Daily Horizontal movement of the Air.	Reading of Thermometer on Grass. Number of Nights it was At or below 30°.	Between 30° and 40°.	Above 40°.	Lowest Reading at Night.	Highest Reading at Night.
			in.	in.	grs.	grs.	in.	in.	Miles.				°	°
Oct. -	91	+4	29·705	−0·001	544	+ 5	7·7	+5·0	269	8	16	7	24·0	49·2
Nov. -	85	−3	29·793	+0·047	550	+ 2	2·1	−0·3	351	14	12	4	16·3	50·8
Dec. -	89	+1	29·748	−0·047	548	− 4	3·0	+1·0	352	10	16	5	22·7	46·6
Means -	88	+1	29·749	0·000	547	+ 1	Sum 12·8	Sum +5·7	Mean 324	Sum 32	Sum 44	Sum 16	Lowest 16·3	Highest 50·8

NOTE.—In reading this table it will be borne in mind that the plus sign (+) signifies *above* the average, and that the minus sign (−) signifies *below* the average.

The average duration of the different directions of the wind referred to eight points of the compass, and the duration of each direction in each month in the quarter, were as follow:—

Direction of Wind.	October. Average.	October. 1880.	October. Departure from Average.	November. Average.	November. 1880.	November. Departure from Average.	December. Average.	December. 1880.	December. Departure from Average.
	d.	d.	d.	d.	d.	d.	d.	d.	d.
N.W.	2	4	+2	2½	3	+ ½	2	6	+4
N.	3	2	−1	3¾	2	−1¾	2¼	2	− ¼
N.E.	2½	9	+6½	3½	5	+1½	2	1	−1
E.	1½	3	+1½	2	2	0	1¾	1	− ¾
S.E.	1¾	2	+ ¼	2	0	−2	1¾	0	−1¾
S.	3½	1	−2½	3½	1	−2½	3	2	− ½
S.W.	9	4	−5	7¼	11	+3¾	9¾	10	+5
W.	4½	5	+ ½	2	6	+4	4	9	+5
Calm (nearly.)	3¾	1	−2¾	3½	0	−3½	4	0	−4

The plus sign (+) denotes excesses over averages; the largest numbers affected with this sign in the month of October are opposite to the N.E., in November to the S.W. and W., and in December to the W. and N.W.

The minus sign (−) denotes defects below averages; the largest numbers affected with this sign in the month of October are opposite to the S.W., in November to the S.E. and S., and in December to the S.E., but all directions from N. to S. round by E. were below their averages.

The mean reading for the month of October was 29·705 ins., being 0·001 in. below the average. The mean reading for November was 29·793 ins., being 0·047 in. above the average, and the mean reading for December was 29·748 ins., being 0·047 in. below the average.

The atmospheric pressure in October was less than in September by 0·100 in., that in November was greater than in October by 0·088 in., and that in December was less than in November by 0·45 in. (From the preceding 39 years' observations the *mean pressure* in October is 0·099 in. below that in September, that in November is 0·040 in. above that in October, and that in December is 0·049 in. above that in November).

There was a *decrease of atmospheric pressure* from September to October at all stations south of lat. 54°. South of lat. 51° the decrease was 0·122 in.; between lat. 51° and 52°, it was 0·106 in.; between lat. 52° and 53° it was 0·076 in.; between 53° and 54° it was 0·033 in., and north of 54° there was an increase of 0·028 in. From October to November there was an increase of pressure of 0·122 in. south of 51°; between 51° and 52° an increase of 0·088 in., and of 0·044 in. in the next degree; but north of 53° there was a decrease of 0·39 in. to 54°, and of 0·120 in. north of 54°. From November to December there was a small decrease everywhere.

At *Greenwich* the *mean temperature* of October was lower than that of September by 13°·5, that of November was lower than that of October by 3°·7, and that of December was higher than that of November by 0°·7. (From the preceding 39 years' observations the *mean temperature* of October is lower than that of September by 6°·9, that of November is lower than that of October by 6°·8, and that of December is lower than that of November by 3°·6.)

The decrease of *mean temperature* from September to October from all stations was 12°·7, the decrease from October to November was 3°·2, and from November to December there was a slight increase of mean temperature at stations south of lat. 52½°, and a slight decrease at stations north of this parallel.

The mean temperature of the air for October was 46°·2, being 3°·4 and 4°·0, respectively, above the averages of the preceding 109 years, and 39 years. Back to 1771 there are but seven instances of so low a mean temperature for October, viz.:—

In the year 1778, 46°·0.	In the year 1808, 46°·1.
" 1782, 45°·2.	" 1817, 45°·0.
" 1784, 43°·9.	" 1842, 45°·4.
" 1786, 44°·7.	

The mean temperature of the air for November was 42°·5, being 0°·2 above the average of the preceding 109 years, and 0°·9 below the average of the preceding 39 years.

The mean temperature of the air for December was 43°·2, being 4°·2 and 3°·1, respectively, above the averages of the preceding 109 years, and 39 years.

The mean temperature of the air for the quarter was 44°·0, being 0°·3 above and 0°·6, below the averages of the preceding 109 years, and 39 years.

The mean high day temperature of the air was 5°·1, and 0°·2, respectively, below the average in October and November, but 3°·0 above in December.

The mean low night temperature of the air was 3°·4 and 0°·7 respectively, below the average in October and November, but 2°·8 above in December. Therefore the days and nights were cold in October and November, and warm in December.

The mean daily range of temperature was 0°·5, and 0°·4 greater than the average in November and December respectively, and 1°·6 less in October.

Thunderstorms occurred on the 7th of October at Torquay and Salisbury; on the 8th at Totnes and Torquay; and on the 9th at Totnes. On the 25th of November at Guernsey and Blackheath. On the 18th and 23rd of December at Guernsey.

Thunder was heard but lightning was not seen on the 8th of October at Torquay and Ventnor. On the 17th of November at Guernsey, and on the 25th at Carlisle.

Lightning was seen but thunder was not heard on the 7th of October at London and Ventnor; on the 8th at Salisbury; on the 29th at Torquay. On the 19th of November at Somerleyton; on the 25th at Cardington; and on the 26th at Liverpool, Bolton, Halifax, and Carlisle. On December 23rd at Totnes and 25th at Somerleyton.

Solar halos were seen on the 18th of October at Hull; on the 19th at Kelstern and North Shields; on the 21st at Oxford and Cardington; on the 22nd at Cardington; on the 23rd at Oxford. On the 1st, 5th, 9th, and 12th of November at Torquay; on the 19th at Oxford; on the 26th at Stonyhurst; and on the 29th at Oxford. On December 18th at Torquay and Halifax; on the 23rd and 24th at Torquay, and 30th and 31st at Halifax.

Lunar halos were seen on the 12th of October at Leicester; on the 14th at Oxford; on the 15th at Leicester; on the 19th at North Shields; on the 21st at Oxford, Cardington, and Cambridge; on the 22nd at Kelstern and Liverpool, and on the 23rd at Hull. On the 8th of November at Leicester and Stonyhurst; on the 11th at Stockton; on the 12th at Oxford and Halifax; on the 15th at Torquay and Stonyhurst; on the 16th at Hull; and on the 18th at Halifax; and in December on the 11th, 12th, 13th, 14th, 15th, and 19th at different places.

Auroræ Boreales were seen on the 3rd of November at Lowestoft, Cambridge, and Liverpool, and on the 27th at Bradford.

Snow fell on the 2nd of October at Liverpool; on the 17th at Carlisle; on the 19th at Strathfield, and Kelstern; on the 20th all over the country; on the 21st at Royston, Stockton, Cambridge, Bywell, and North Shields; on the 22nd at North Shields; on the 26th at Stockton and Bolton, on the 27th at Bolton, Stonyhurst, Leeds, and North Shields; on the 28th at North Shields; and on the 29th at Stockton, Kelstern, Liverpool, and North Shields. On the 3rd of November at Cambridge; on the 15th at Leicester, Bolton, Llandudno, and Halifax; on the 16th at Halifax, and North Shields; on the 17th at Whitchurch, Wolverhampton, Hull, Leeds, Carlisle, and North

MONTHLY METEOROLOGICAL TABLE FOR THE QUARTER ENDING DECEMBER 31ST, 1880.

The Observations have been reduced to Mean values by Glaisher's Barometrical and Diurnal Range Tables, and the Hygrometrical results have been deduced from the sixth edition of his Hygrometrical Tables.

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1880. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean of all Highest.	Temperature of Air in Month. Mean of all Lowest.	Temperature of Air in Month. Mean Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
GUERNSEY, Adolphus Collenette, Esq., F.M.S.	204	Oct.	29·611	1·307	70·0	36·5	33·5	58·5	47·1	11·4	51·8	47·8	·334	3·8	0·3	86	540	85·2	43·6	1·7	9	10	6	6	2·5	5·6	18	10·45
		Nov.	29·768	2·093	58·0	34·5	23·5	51·8	44·6	7·2	47·7	44·1	·289	3·2	0·5	89	543	64·4	41·4	1·8	7	5	9	9	3·4	6·6	21	6·87
		Dec.	29·760	1·476	54·0	36·0	18·0	52·0	46·3	5·7	49·3	42·8	·276	3·1	0·9	79	542	61·3	45·1	1·6	4	1	9	17	2·5	7·5	19	6·96
TRURO (Cornwall), C. Barham, Esq., M.D., F.M.S.	43	Oct.	29·822	1·450	69·0	25·0	44·0	56·1	41·7	14·4	47·5	43·3	·281	3·2	0·6	87	544	—	—	2·2	10	11	5	5	—	6·8	16	9·23
		Nov.	29·928	1·654	58·0	29·0	29·0	52·1	41·0	11·1	46·1	41·6	·264	3·1	0·5	85	548	—	—	2·3	6	6	6	12	—	6·5	20	4·04
		Dec.	29·932	1·550	56·0	29·0	27·0	52·2	43·2	9·0	47·7	43·0	·278	3·2	0·5	85	546	—	—	2·2	5	2	7	17	—	8·4	22	4·65
PLYMOUTH (Devon), J. Merrifield, Esq., LL.D., F.R.A.S., F.M.S.	69	Oct.	29·849	1·553	66·0	29·0	37·0	55·1	41·6	13·5	47·5	42·4	·271	3·1	0·6	84	545	—	—	1·6	10	12	3	6	—	7·0	16	4·48
		Nov.	29·978	1·721	58·0	29·2	28·8	50·8	40·2	10·6	45·4	41·5	·263	3·0	0·5	87	550	—	—	1·6	6	4	8	12	—	6·1	16	2·85
		Dec.	29·975	1·426	55·0	30·2	24·8	51·5	42·4	9·1	46·6	44·6	·294	3·4	0·3	93	548	—	—	1·2	8	2	6	15	—	8·7	18	4·13
TOTNES (Devon), T. H. Edmonds, Esq.	107	Oct.	29·888	1·505	67·6	24·5	43·1	55·9	39·2	16·7	47·0	42·1	·268	3·1	0·5	84	546	—	—	1·7	10	12	3	6	—	6·7	18	9·89
		Nov.	29·995	1·569	59·2	22·5	36·7	52·2	37·7	14·5	44·6	41·4	·260	3·0	0·4	89	551	—	—	2·5	6	6	7	11	—	6·3	17	5·82
		Dec.	29·993	1·374	57·2	30·5	26·7	51·6	40·2	11·4	45·6	42·8	·275	3·1	0·2	90	550	—	—	2·7	5	2	4	20	—	7·5	19	6·55
TORQUAY, Babbacombe (Devon), Edwin E. Glyde, Esq., F.M.S.	305	Oct.	29·535	1·693	65·5	30·6	34·9	54·5	42·2	12·3	47·9	42·2	·269	3·1	0·7	81	539	97·1	35·5	1·8	9	10	4	8	4·1	7·4	16	8·74
		Nov.	29·639	1·721	57·6	29·7	27·9	50·2	40·4	9·8	45·2	41·1	·258	3·0	0·5	85	544	87·9	33·2	1·9	6	4	9	11	4·7	7·0	15	3·85
		Dec.	29·639	1·598	55·4	30·0	25·4	50·1	41·0	9·1	45·5	42·0	·267	3·0	0·4	88	543	74·4	34·0	1·6	3	2	7	19	4·8	7·6	17	4·56
VENTNOR, (Isle of Wight) (Royal National Hospital for Consumption), J. Codling, Esq.	150	Oct.	29·781	1·550	66·8	32·5	34·3	57·0	44·4	12·6	49·5	45·6	·306	3·5	0·5	87	541	—	—	—	12	10	4	5	4·5	6·7	18	8·28
		Nov.	29·896	1·542	57·4	28·2	29·2	50·0	42·1	7·9	45·7	40·8	·256	2·9	0·6	84	548	—	—	—	11	4	7	8	5·1	6·1	12	5·01
		Dec.	29·859	1·464	55·1	31·4	23·7	51·6	42·0	9·6	46·8	44·3	·291	3·3	0·3	91	546	—	—	—	10	1	4	16	4·0	7·0	21	5·16
OSBORNE (Isle of Wight), J. R. Mann, Esq.	172	Oct.	29·684	1·572	68·3	30·5	37·8	55·5	41·8	13·7	47·5	45·4	·304	3·5	0·3	93	542	82·6	38·2	0·8	12	10	4	5	—	6·8	16	4·37
		Nov.	29·792	1·616	56·1	26·4	29·7	49·6	37·8	11·8	43·3	40·4	·252	2·9	0·4	89	549	67·0	33·5	1·0	9	4	9	8	—	6·2	15	2·78
		Dec.	29·774	1·444	54·4	27·2	27·2	49·1	39·6	9·5	44·6	42·7	·273	3·2	0·2	93	547	56·1	35·9	0·2	2	1	8	20	—	7·6	16	3·72
EASTBOURNE (Sussex), Miss W. L. Hall.	12	July	29·850	0·632	80·5	49·2	31·3	70·9	54·9	16·0	—	—	—	—	—	—	—	125·3	44·9	0·3	1	4	4	22	2·7	—	15	2·87
		Aug.	29·922	0·872	80·0	48·7	31·3	75·3	56·1	19·2	65·2	60·1	·521	5·7	1·1	84	526	124·7	45·3	0·3	11	11	3	6	0·5	—	6	0·41
		Sept.	29·960	1·136	78·8	44·0	34·8	69·7	53·0	16·7	60·7	54·2	·420	4·7	1·2	80	532	114·1	41·5	0·2	6	6	8	10	1·0	—	14	3·64
		Oct.	29·794	1·700	67·4	31·7	35·7	55·9	43·2	12·7	45·8	41·3	·259	2·9	0·6	84	546	88·9	30·8	0·3	11	11	2	7	0·5	—	18	8·68
		Nov.	29·903	1·530	57·2	26·2	31·0	50·2	38·4	11·8	45·0	41·1	·257	2·9	0·5	85	548	74·2	27·7	0·2	10	3	5	13	0·3	—	16	4·92
		Dec.	29·896	1·546	55·3	29·0	26·3	51·1	40·7	10·4	46·1	43·6	·284	3·3	0·3	92	547	55·4	29·8	0·2	10	1	4	16	1·7	—	17	4·97
BOURNEMOUTH, South Bourne (Hants), T. A. Compton, Esq., B.A., M.D., F.M.S.	95	July	29·805	0·668	73·0	46·2	26·8	66·7	54·4	12·3	59·7	53·5	·410	4·6	1·1	81	531	—	—	1·7	3	3	11	14	—	5·9	16	2·83
		Aug.	29·889	0·668	75·9	46·9	29·0	69·7	55·3	14·4	61·2	55·2	·436	4·9	1·2	80	530	—	—	1·4	14	11	3	3	—	5·1	7	1·23
		Sept.	29·880	1·110	74·4	42·1	32·3	65·5	53·5	12·0	58·9	53·4	·408	4·5	1·1	82	533	—	—	1·2	9	7	7	7	—	5·6	15	3·33
		Oct.	29·724	1·602	64·8	28·9	35·9	54·3	40·3	14·0	47·4	42·2	·269	3·2	0·6	82	543	—	—	1·3	13	10	2	6	—	6·3	22	5·59
		Nov.	29·857	1·544	57·3	21·9	35·4	49·3	38·9	10·4	44·2	41·1	·258	2·9	0·5	84	549	—	—	1·3	10	3	6	11	—	5·8	15	3·04
		Dec.	29·842	1·456	55·0	31·9	23·1	49·3	40·1	9·2	45·1	40·8	·255	2·9	0·5	85	547	—	—	0·9	5	2	3	21	—	7·2	19	4·57
BRIGHTON (Sussex), F. E. Sawyer, Esq., F.M.S.	206	Oct.	29·656	1·514	66·6	30·2	36·4	53·6	42·7	10·9	47·7	42·0	·267	3·1	0·7	82	541	—	39·4	1·0	13	7	5	6	—	8·0	17	5·88
		Nov.	29·743	1·881	55·7	27·6	28·1	47·8	38·2	9·6	43·3	38·9	·237	2·7	0·5	84	548	—	32·7	0·9	9	4	8	9	—	6·8	12	3·62
		Dec.	29·732	1·455	55·3	28·4	26·5	44·6	38·6	6·0	42·7	40·5	·252	2·9	0·2	92	548	—	34·4	0·8	6	3	5	17	—	8·4	15	5·66

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1880. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean of all Highest.	Temperature of Air in Month. Mean of all Lowest.	Temperature of Air in Month. Mean Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a Cubic foot of Air. Mean.	Vapour. In a Cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Satn. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
SALISBURY (Wilton House), Wilts, Thomas Challis, Esq.	186	Oct.	29·671	1·640	69·0	23·5	45·5	55·9	36·3	19·6	45·3	41·4	·261	3·0	0·5	88	544	80·4	34·9	1·4	11	8	5	7	—	6·9	18	5·59
		Nov.	29·761	1·698	58·0	17·5	40·5	49·8	32·6	17·2	41·8	38·4	·234	2·7	0·4	89	550	70·5	31·2	1·4	10	4	6	10	—	7·1	15	3·09
		Dec.	29·747	1·460	55·0	22·0	33·0	49·7	34·5	15·2	42·9	39·7	·244	2·8	0·4	88	548	64·1	33·6	1·2	9	3	4	15	—	7·0	20	4·08
BARNSTAPLE (Devon), William Knill, Esq.	43	Oct.	29·825	1·490	69·0	29·0	40·0	56·8	43·2	13·6	49·0	43·4	·283	3·2	0·8	82	543	—	—	1·3	7	12	5	7	—	4·0	14	6·45
		Nov.	29·920	1·690	57·0	25·0	32·0	51·1	40·4	10·7	45·5	40·8	·255	2·9	0·6	84	549	—	—	1·1	7	3	9	11	—	4·0	18	3·89
		Dec.	29·903	1·630	55·0	33·0	22·0	51·3	42·4	8·9	47·2	43·2	·280	3·3	0·5	86	546	—	—	1·2	2	1	11	17	—	6·0	21	7·27
RAMSGATE (Kent), Rev. T. E. Egan, O.S.B.	108	Oct.	29·757	1·425	66·1	32·5	33·6	55·0	43·4	11·6	48·9	45·7	·310	3·4	0·5	89	542	—	—	1·4	9	11	5	6	—	8·0	20	9·70
		Nov.	29·865	1·749	55·7	27·5	28·2	48·9	36·6	12·3	43·3	40·4	·252	2·9	0·4	89	550	—	—	1·5	7	5	10	8	—	6·4	15	4·13
		Dec.	29·820	1·521	52·3	29·5	22·8	48·4	37·7	10·7	42·5	37·0	·220	2·6	0·4	82	550	—	—	1·2	0	2	10	19	—	7·7	12	2·07
STRATHFIELD TURGISS (Hants), Rev. C. H. Griffith, M.A., F.M.S.	197	Oct.	29·677	1·639	66·0	27·4	38·6	54·3	38·8	15·5	46·3	42·0	·267	3·1	0·5	86	543	85·7	33·8	0·8	10	12	4	5	1·5	7·0	18	4·78
		Nov.	29·769	1·662	57·2	21·5	35·7	49·2	34·3	14·9	41·7	37·9	·228	2·6	0·4	87	550	73·2	28·2	1·1	8	4	6	12	1·7	6·2	15	2·03
		Dec.	29·727	1·469	54·9	26·8	28·1	48·8	37·5	11·3	43·3	40·4	·251	2·9	0·3	90	548	64·6	31·6	1·1	4	2	5	20	1·6	7·0	15	2·79
BATH (Somerset), St. Gregory's College, Downside, Rev. T. J. Almond, O.S.B., F.M.S.	596	Oct.	29·238	1·629	63·9	27·4	36·5	51·9	39·0	12·9	44·4	41·4	·260	3·0	0·4	89	537	81·9	35·6	1·4	9	9	5	7	—	6·9	18	5·84
		Nov.	29·307	1·612	55·3	20·7	34·6	47·5	35·0	12·5	41·2	38·0	·229	2·6	0·4	89	542	76·9	32·5	1·5	6	4	7	13	—	6·2	16	4·10
		Dec.	29·291	1·541	54·2	29·6	24·6	46·7	37·6	9·1	42·6	40·0	·247	2·9	0·3	90	540	65·8	35·6	1·4	2	2	9	18	—	7·6	17	5·37
MARLBOROUGH (Wilts), Rev. Thomas A. Preston, M.A., F.M.S.	474	Oct.	29·373	1·656	67·2	26·0	41·2	52·9	37·8	15·1	44·8	40·9	·255	2·9	0·5	86	539	85·7	32·0	0·8	7	15	1	8	—	7·2	17	5·50
		Nov.	29·431	1·618	56·7	15·8	40·9	47·6	35·4	12·2	41·2	37·8	·227	2·6	0·4	88	547	—	29·2	0·7	9	4	6	11	—	6·5	14	3·24
		Dec.	29·419	1·498	58·9	27·9	31·0	47·4	36·8	10·6	42·1	38·8	·236	2·7	0·4	89	543	57·1	31·7	0·7	4	1	3	23	—	7·1	18	3·02
BLACKHEATH (London), James Glaisher, Esq., F.R.S.	160	Oct.	29·698	1·637	65·0	28·8	36·2	52·5	39·0	13·5	45·9	41·2	·260	3·0	0·6	84	544	79·2	34·9	1·0	9	9	4	9	—	7·1	18	7·94
		Nov.	29·785	1·745	57·6	25·0	32·6	47·7	36·0	11·7	42·4	36·8	·219	2·5	0·6	82	550	75·1	30·1	1·2	6	4	7	13	—	6·0	13	2·04
		Dec.	29·749	1·497	55·8	27·8	28·0	47·1	37·0	10·1	42·9	38·3	·231	2·6	0·5	85	548	56·8	34·7	0·9	5	2	7	17	—	7·2	15	2·79
WHITCHURCH RECTORY (Oxon), (near Reading). Rev. J. Slatter, M.A., F.R.S., F.M.S.	150	Oct.	29·686	1·627	65·8	27·2	38·6	53·0	38·6	14·4	45·6	41·3	·261	3·0	0·6	86	544	—	—	1·2	10	11	4	6	—	6·9	17	4·84
		Nov.	29·792	1·570	57·5	22·8	34·7	47·9	34·9	13·0	41·4	39·4	·242	2·8	0·2	93	551	—	—	1·2	7	3	9	11	—	6·8	15	2·28
		Dec.	29·750	1·576	55·0	25·8	29·2	47·1	35·8	11·3	42·0	39·8	·245	2·8	0·3	92	549	—	—	0·9	5	1	11	14	—	6·9	13	3·46
CAMDEN SQUARE (London), G. J. Symons, Esq., F.R.S., F.M.S.	123	Oct.	29·742	1·580	66·3	29·6	36·7	54·5	40·9	13·6	46·6	41·7	·264	3·0	0·9	84	540	76·7	38·7	—	14	9	1	7	—	7·4	20	5·78
		Nov.	29·828	1·678	58·0	24·6	33·4	48·7	36·6	12·1	42·7	38·3	·232	2·7	0·5	85	550	67·6	32·1	—	8	5	8	9	—	6·3	13	1·85
		Dec.	29·787	1·492	56·5	28·2	28·3	48·2	38·0	10·2	43·3	39·4	·241	2·8	0·5	85	549	59·1	34·8	—	9	2	6	14	—	7·0	18	3·17
OXFORD (The Observatory), E. J. Stone, Esq., M.A., F.R.S.	210	Oct.	29·670	1·606	64·2	29·4	34·8	53·9	40·9	13·0	46·0	42·8	·276	3·2	0·4	89	543	90·8	37·2	1·6	9	8	5	9	1·2	7·4	16	5·23
		Nov.	29·730	1·869	57·3	20·9	36·4	49·6	37·5	12·1	42·4	39·3	·241	2·8	0·4	89	549	87·6	33·4	2·3	8	4	9	9	0·6	6·5	14	1·89
		Dec.	29·691	1·566	55·6	29·4	26·2	48·7	38·4	10·3	42·4	40·4	·252	3·0	0·2	93	548	70·2	35·5	2·1	3	1	9	18	0·6	7·3	18	2·96
GLOUCESTER COUNTY ASYLUM, E. Toller, Esq., M.R.C.S., F.M.S.	100	Oct.	29·822	1·632	71·0	24·0	47·0	55·0	38·0	17·0	45·7	42·0	·267	3·0	0·5	87	547	77·5	—	0·4	9	13	2	7	1·8	—	15	4·30
		Nov.	29·864	1·754	57·0	20·0	37·0	49·6	34·8	14·8	41·6	38·4	·233	2·7	0·4	89	552	66·2	—	0·2	7	6	1	16	0·1	5·2	12	3·32
		Dec.	29·791	1·630	62·0	28·0	34·0	51·5	36·5	15·0	44·3	39·5	·243	2·8	0·5	83	548	59·5	34·1	1·6	4	2	2	23	0·0	5·0	12	2·32
ROYSTON (Hertfordshire), Hale Wortham, Esq., F.R.A.S., F.M.S.	269	Oct.	29·618	1·609	60·0	26·5	33·5	53·0	38·2	14·8	45·0	41·1	·257	2·9	0·5	86	534	—	—	—	10	6	5	10	—	6·6	15	4·87
		Nov.	29·687	1·645	56·4	29·8	35·6	47·7	34·1	13·6	41·3	37·5	·224	2·6	0·4	87	549	—	—	—	6	4	8	12	—	5·9	13	2·17
		Dec.	29·631	1·587	54·2	26·7	27·5	46·2	35·3	10·9	41·4	38·0	·230	2·8	0·4	87	548	—	—	—	2	1	9	18	—	7·0	17	2·31
BEDFORD, Cardington, Mr. J. McLaren, Assistant to S. C. Whitbread, Esq., M.P.	105	Oct.	29·740	1·636	64·0	26·0	38·0	52·4	38·8	13·6	45·2	41·3	·260	3·0	0·5	87	546	67·2	34·0	1·1	7	10	3	11	—	6·7	13	4·45
		Nov.	29·802	1·818	57·6	20·6	37·0	48·3	34·1	14·2	40·8	37·7	·226	2·6	0·3	89	552	53·0	29·9	2·2	7	4	5	14	—	5·5	11	2·10
		Dec.	29·758	1·488	55·4	25·0	30·4	46·2	35·7	10·5	41·5	39·0	·239	2·7	0·3	92	550	47·5	31·7	0·8	4	1	6	20	—	7·2	16	2·04
CAMBRIDGE (Trinity College), J. W. L. Glaisher, Esq., M.A., F.R.S.	40	Oct.	29·819	1·612	66·0	24·2	41·8	54·7	39·1	15·6	46·0	43·0	·278	3·2	0·4	89	546	83·3	34·7	1·1	9	8	7	7	—	6·9	18	5·46
		Nov.	29·880	1·810	60·3	20·0	40·3	49·0	35·6	13·4	42·0	37·5	·225	2·6	0·5	85	552	75·6	28·0	1·3	8	1	12	9	—	5·8	21	2·01
		Dec.	29·828	1·500	55·8	25·0	30·8	47·3	37·4	9·9	42·5	39·6	·244	2·8	0·3	92	550	59·4	29·3	1·0	7	1	9	14	—	7·1	22	2·46

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1880. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°								in.
RUGBY (Warwickshire), Stockton, "The Rectory," W. Tuckwell, Esq.	289	Oct.	29·570	1·510	63·0	20·0	43·0	52·5	36·7	15·8	43·6	41·4	·263	3·0	0·3	92	544	58·1	35·2	0·4	14	8	4	5	3·8	5·7	13	5·36
		Nov.	29·600	1·718	59·5	13·0	46·5	49·7	32·1	17·6	40·4	37·4	·224	2·6	0·4	90	549	53·3	19·5	0·5	9	4	8	9	5·8	5·5	11	1·83
		Dec.	29·553	1·428	57·0	22·0	35·0	47·5	34·5	13·0	41·3	38·3	·232	2·7	0·3	93	546	—	32·0	0·3	4	3	12	12	8·0	6·5	20	2·24
LOWESTOFT (Suffolk), S. H. Miller, Esq., F.R.A.S., F.M.S.	85	Oct.	29·750	1·479	63·1	31·6	31·5	53·7	42·2	11·5	47·7	42·9	·276	3·1	0·6	85	543	78·8	38·9	0·9	10	9	3	9	—	7·2	21	3·64
		Nov.	29·824	1·697	58·2	27·0	31·2	48·9	37·7	11·2	43·2	38·6	·234	2·7	0·5	83	550	72·3	33·8	0·9	5	5	5	15	—	6·8	17	2·14
		Dec.	29·767	1·533	54·5	27·7	26·8	46·5	36·5	10·0	41·6	38·8	·236	2·7	0·3	90	550	60·3	33·5	0·8	2	2	6	21	—	6·2	19	2·07
SOMERLEYTON (Suffolk), The Rectory, Rev. C. J. Steward, F.M.S.	50	Oct.	29·804	1·586	64·0	32·0	32·0	53·4	42·6	10·8	47·0	41·5	·262	3·0	0·7	82	545	—	—	1·0	11	7	3	10	6·7	6·9	21	3·79
		Nov.	29·872	1·772	59·0	24·7	34·3	48·3	36·4	11·9	41·9	38·0	·228	2·6	0·4	86	552	—	—	1·2	6	3	9	12	6·8	6·1	23	2·27
		Dec.	29·817	1·440	55·0	28·0	27·0	46·3	36·5	9·8	41·3	38·7	·236	2·7	0·3	92	551	—	—	1·0	4	1	7	19	6·8	6·4	22	2·27
WOLVERHAMPTON (Staffordshire), Wrottesley, E. Simpson, Esq.	500	Oct.	29·351	1·584	61·5	24·7	36·8	49·4	36·6	12·8	42·3	38·6	·234	2·7	0·4	87	542	—	—	—	8	12	3	8	—	7·3	11	4·98
		Nov.	29·363	1·786	58·5	16·5	42·0	46·5	33·3	13·2	39·8	36·1	·213	2·5	0·4	87	545	—	—	—	6	3	11	10	—	6·8	13	2·04
		Dec.	29·319	1·442	53·8	24·6	29·2	45·2	34·0	11·2	39·9	37·3	·224	2·6	0·2	92	544	—	—	—	4	4	11	12	—	8·2	19	3·55
LEICESTER (Town Museum), W. J. Harrison, Esq., F.G.S.	238	Oct.	29·633	1·593	60·8	28·1	32·7	50·8	39·3	11·5	44·1	39·7	·245	2·8	0·5	84	545	79·1	28·4	1·2	10	9	4	8	—	7·1	15	5·43
		Nov.	29·658	1·784	61·0	13·3	47·7	47·8	34·8	13·0	41·6	37·1	·222	2·6	0·4	85	548	69·0	25·8	1·5	5	5	9	11	—	6·8	14	1·67
		Dec.	29·674	1·655	54·3	25·5	28·8	46·7	37·3	9·4	41·7	39·5	·242	2·8	0·2	92	548	58·3	29·1	1·0	2	2	11	16	—	6·9	23	3·22
NOTTINGHAM (Notts), M.O. Tarbotton, Esq., C.E., F.G.S., F.M.S.	183	Oct.	29·694	1·582	62·9	23·0	39·9	51·0	38·2	12·8	43·9	38·9	·238	2·7	0·6	82	546	74·4	36·6	0·3	15	7	6	3	0·5	6·7	15	5·16
		Nov.	29·694	1·748	59·7	18·2	31·5	47·4	34·1	13·3	40·6	37·0	·219	2·5	0·4	87	550	63·3	32·6	0·3	8	2	11	9	1·3	6·6	16	2·03
		Dec.	29·650	1·494	54·5	24·9	29·6	45·7	35·0	10·7	40·5	38·3	·231	2·7	0·3	92	549	64·3	33·5	0·2	4	3	10	14	1·2	7·7	23	2·81
HOLKHAM (Norfolk), John Davidson, Esq., Assistant to the Earl of Leicester.	39	July	29·804	0·648	73·8	39·8	34·0	67·9	49·7	18·2	57·7	53·9	·413	4·6	0·7	87	532	119·6	44·7	1·5	7	2	15	7	—	8·2	21	3·65
		Aug.	29·944	0·740	76·0	42·0	34·0	66·3	51·8	14·5	58·6	54·8	·427	4·8	0·7	88	534	108·0	46·9	1·4	19	6	3	3	—	7·2	12	2·50
		Sept.	29·888	1·272	82·4	40·4	42·0	66·7	49·0	17·7	57·8	53·2	·403	4·5	0·8	85	533	116·1	43·6	1·1	6	4	13	7	—	6·0	10	4·00
		Oct.	29·810	1·544	62·3	27·4	34·9	53·0	40·2	12·8	46·8	41·9	·266	3·1	0·5	84	545	68·8	33·8	1·7	11	7	5	9	—	7·6	14	5·30
		Nov.	29·847	1·886	59·0	24·0	35·0	48·3	34·2	14·1	41·6	36·5	·215	2·5	0·5	82	552	67·9	25·9	1·7	6	2	16	6	—	6·5	19	2·50
		Dec.	29·811	1·540	53·5	24·4	29·1	46·3	33·5	12·8	40·8	36·5	·216	2·4	0·5	84	552	50·5	25·1	1·5	4	1	16	10	—	6·9	12	2·55
LLANDUDNO (Carnarvonshire), James Nicol, Esq., M.D.	100	Oct.	29·822	1·520	63·3	30·0	33·3	50·8	41·9	8·9	46·3	39·9	·237	2·9	0·8	79	546	—	—	1·6	3	16	4	8	—	7·0	13	5·01
		Nov.	29·767	2·049	57·3	25·7	31·6	49·1	38·5	10·6	44·3	38·6	·235	2·7	0·6	80	547	—	—	1·2	3	4	11	12	—	6·0	16	4·28
		Dec.	29·760	1·490	54·4	29·2	25·2	47·7	39·6	8·1	43·8	39·2	·240	2·8	0·5	84	547	—	—	1·1	6	2	4	19	—	6·9	20	5·40
KELSTERN GRANGE, near Louth (Lincolnshire), D. Grant Briggs, Esq., F.M.S.	393	Oct.	29·460	1·590	60·9	27·5	33·4	50·9	38·0	12·9	43·8	39·8	·245	2·8	0·5	87	542	86·0	34·4	1·0	12	5	4	10	—	6·4	19	6·38
		Nov.																									
LIVERPOOL, The Observatory, John Hartnup, Esq., F.R.A.S.	197	Oct.	29·704	1·541	63·0	29·6	33·4	50·2	41·8	8·4	45·2	40·3	·249	2·9	0·6	83	545	—	—	1·1	11	9	5	6	—	7·2	13	4·63
		Nov.	29·663	1·929	59·2	22·4	36·8	47·3	38·2	9·1	42·3	36·7	·218	2·5	0·6	82	548	—	—	1·3	6	5	9	10	—	6·2	18	3·15
		Dec.	29·637	1·556	54·0	30·7	23·3	46·5	38·8	7·7	42·2	38·9	·237	2·7	0·4	88	547	—	—	1·3	3	3	6	19	—	7·7	19	5·04
BOLTON, Sharples (Lancashire), Rev. T. Mackereth, F.R.A.S., F.M.S.	481	Oct.	29·373	1·550	62·1	26·1	36·0	48·2	35·8	12·4	41·6	35·8	·210	2·4	0·6	80	543	54·6	29·0	2·4	13	9	3	6	7·3	7·1	14	4·70
		Nov.	29·344	1·870	56·0	22·2	33·8	46·7	33·3	13·4	39·9	35·8	·210	2·4	0·5	86	544	52·2	27·1	1·5	9	5	7	9	3·4	7·2	19	5·21
		Dec.	29·294	1·723	55·5	22·0	33·5	43·9	33·3	10·6	39·1	35·4	·207	2·4	0·4	87	544	45·4	28·2	1·4	4	2	11	14	7·6	8·2	26	7·45
HALIFAX, Bermerside Observatory (Yorkshire), E. J. Crossley, Esq., F.R.A.S.	530	Oct.	29·392	1·480	61·0	24·0	37·0	48·9	37·1	11·8	42·5	38·3	·232	2·7	0·5	86	542	73·3	34·7	0·6	10	10	3	8	—	7·2	15	5·54
		Nov.	29·352	1·906	55·0	20·0	35·0	45·3	33·9	11·4	39·2	35·8	·210	2·4	0·4	88	545	67·6	31·0	0·9	4	5	8	13	—	6·0	20	3·98
		Dec.	29·323	1·492	54·0	24·0	30·0	42·4	33·8	8·6	38·5	35·4	·209	2·4	0·3	89	545	55·6	31·6	0·8	4	4	9	14	—	8·6	22	5·58
HULL (Yorkshire), The People's Park, Mr. E. Peake.	12	Oct.	29·891	1·558	62·0	27·0	35·0	51·3	38·0	13·3	44·9	38·8	·236	2·7	0·7	80	549	68·9	35·8	2·5	9	10	1	11	0·9	6·4	20	6·43
		Nov.	29·868	1·766	59·0	23·0	36·0	47·4	33·9	13·5	41·5	36·8	·219	2·5	0·5	84	552	62·6	31·7	1·8	6	3	7	14	0·8	5·8	18	2·27
		Dec.	29·837	1·604	54·0	25·0	28·0	43·8	33·7	10·1	39·7	35·6	·209	2·4	0·5	85	554	49·7	31·7	1·4	4	1	7	19	0·0	6·0	18	2·99

Names of Stations and Observers.	Height of Station above Sea Level.	Year 1880. Months.	Pressure of Atmosphere in Month. Mean.	Pressure of Atmosphere in Month. Range.	Temperature of Air in Month. Highest.	Temperature of Air in Month. Lowest.	Temperature of Air in Month. Range.	Temperature of Air in Month. Mean. Of all Highest.	Temperature of Air in Month. Mean. Of all Lowest.	Temperature of Air in Month. Mean. Daily Range.	Mean Temperature. Air.	Mean Temperature. Dew Point.	Vapour. Elastic Force.	Vapour. In a cubic foot of Air. Mean.	Vapour. In a cubic foot of Air. Short of Saturation.	Mean Degree of Humidity. Sat. = 100.	Mean Weight of a cubic foot of Air.	Mean Reading of Thermometer. Maximum in Rays of Sun.	Mean Reading of Thermometer. Minimum on Grass.	Wind. Estimated Strength.	Wind. Relative Proportion of N.	Wind. Relative Proportion of E.	Wind. Relative Proportion of S.	Wind. Relative Proportion of W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days it fell.	Rain. Amount collected.
	feet.		in.	in.	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°								in.
STONYHURST (Lancashire), Rev. S. J. Perry, F.R.S., F.M.S., F.R.A.S.	363	Oct.	29·326	1·507	62·9	24·0	38·9	50·9	39·8	11·1	43·9	38·3	·231	2·7	0·6	80	543	93·4	35·2	—	13	11	1	6	—	7·4	14	3·01
		Nov.	29·489	1·896	59·1	21·0	38·1	47·4	34·6	12·8	40·6	36·7	·218	2·5	0·4	87	546	79·5	33·3	—	5	4	9	12	—	6·9	18	7·37
		Dec.	29·446	1·669	51·1	26·0	25·1	44·4	34·9	9·5	39·6	36·4	·215	2·5	0·4	89	546	63·6	33·5	—	5	8	4	19	—	8·9	25	9·21
BRADFORD (Yorkshire), J. McLandsborough, Esq., C.E., F.G.S.	366	Oct.	29·513	1·042	62·1	26·7	35·4	50·3	39·2	11·1	44·1	38·4	·233	2·7	0·6	80	543	60·5	—	1·1	11	12	3	5	—	7·3	21	4·67
		Nov.	29·442	1·906	57·4	23·0	34·4	47·0	36·6	10·4	41·2	35·8	·210	2·5	0·5	82	545	54·0	—	0·8	7	3	6	14	—	6·0	20	3·08
		Dec.	29·436	1·514	54·0	26·2	27·8	45·2	36·5	8·7	41·0	36·3	·213	2·5	0·5	83	545	49·4	—	0·9	5	5	7	14	—	7·5	23	4·16
LEEDS (Yorkshire), The Philosophical Hall, Henry Crowther, Esq.	137	Oct.	29·745	1·556	65·0	28·0	37·0	52·9	39·3	13·6	45·5	40·1	·248	2·8	0·7	82	545	61·6	—	2·1	12	6	1	11	—	3·6	15	4·36
		Nov.	29·711	1·922	59·0	23·0	36·0	49·3	37·0	12·3	43·1	36·5	·216	2·5	0·7	78	548	54·8	—	2·1	6	2	3	19	—	3·4	14	2·36
		Dec.	29·692	1·540	59·0	28·0	31·0	46·4	36·5	9·9	41·6	36·5	·220	2·5	0·4	82	549	49·0	—	1·7	6	3	5	17	—	4·2	19	3·87
COCKERMOUTH (Cumberland), H. Dodgson, Esq., M.D., F.M.S., F.R.A.S.	146	Oct.	29·785	1·410	61·0	22·2	38·8	51·2	37·1	14·1	43·3	38·7	·235	2·7	0·5	83	549	72·7	30·9	0·5	11	12	0	8	1·9	6·9	12	1·82
		Nov.	29·681	1·856	56·0	19·8	36·2	46·9	35·6	11·3	40·9	37·2	·223	2·6	0·3	87	550	57·7	30·6	2·0	6	2	8	14	2·0	6·5	18	5·89
		Dec.	29·673	1·464	51·4	19·4	32·0	43·9	36·2	7·7	40·0	36·3	·214	2·5	0·4	87	550	47·4	32·8	2·0	7	4	9	11	2·0	7·4	25	5·21
SILLOTH (Cumberland), "The Rectory," Rev. F. Redford, M.A., F.R.A.S., F.M.S.	28	Oct.	29·917	1·363	61·6	23·0	38·6	49·7	35·3	14·4	42·6	37·9	·229	2·7	0·5	83	552	95·8	29·8	1·3	3	14	3	11	7·5	5·4	9	1·18
		Nov.	29·785	1·866	55·7	14·7	41·0	45·6	32·5	13·1	39·1	35·6	·219	2·4	0·5	87	554	77·9	26·9	1·5	3	5	6	16	9·2	5·1	19	5·23
		Dec.	29·762	1·499	52·0	13·4	38·6	42·8	35·0	7·8	38·9	35·4	·207	2·5	0·5	87	554	58·9	29·1	1·4	3	7	5	16	8·7	5·8	24	3·56
CARLISLE, Spital (Cumberland), Isaac Cartmel, Esq., F.M.S.	114	Oct.	29·821	1·634	65·3	19·8	45·5	50·7	34·7	16·0	41·9	38·3	·233	2·7	0·4	88	551	102·9	28·0	1·2	6	10	3	12	2·1	6·8	9	1·45
		Nov.	29·701	1·834	57·4	13·2	44·2	47·1	31·7	15·4	39·3	35·4	·207	2·4	0·4	86	552	63·7	25·8	1·8	3	7	5	15	4·0	5·7	16	3·59
		Dec.	29·695	1·480	53·3	19·7	33·6	43·7	33·9	9·8	38·9	35·1	·204	2·4	0·4	88	552	53·7	27·4	1·4	1	7	6	17	2·6	6·8	18	3·43
BYWELL (Northumberland), Mr. W. J. Tone, Assistant to W. B. Beaumont, Esq., M.P.	87	Oct.	29·824	1·400	62·0	26·0	36·0	49·6	39·0	10·6	43·9	40·4	·252	2·9	0·4	87	549	—	29·4	1·2	8	10	1	12	—	7·2	14	4·58
		Dec.	29·636	1·432	56·0	22·0	34·0	39·5	33·5	6·0	36·5	32·6	·186	2·1	0·4	85	554	—	26·4	1·2	4	1	2	24	—	8·5	10	3·17
NORTH SHIELDS (Northumberland), Robert Spence, Esq.	128	Oct.	29·852	1·383	59·0	27·5	31·5	48·8	40·1	8·7	43·8	39·3	·241	2·8	0·5	84	549	—	39·6	1·8	12	8	2	9	—	6·2	25	3·80
		Nov.	29·746	1·931	60·0	18·5	41·5	45·2	35·3	9·9	40·0	37·0	·220	2·5	0·4	89	552	—	34·7	1·6	12	2	5	11	—	5·2	20	2·32
		Dec.	29·701	1·628	55·2	24·5	30·7	42·3	35·0	7·3	38·8	35·3	·207	2·4	0·2	91	552	—	34·5	1·7	13	2	2	14	—	5·5	24	3·82

Second Rain-gauges are placed—

			October.		November.		December.		Total in Quarter.
At Beachey Head,	at the height of	515 feet *above the sea*,	the amount collected was	6·13 inches.	3·59 inches.	4·38 inches.	14·00 inches.
" "	"	495 "	"	6·76 "	4·10 "	4·32 "	15·18 "
" Strathfield Turgiss,	"	38 " *ground*,	"	3·39 "	1·47 "	1·91 "	6·77 "
" Oxford,	"	22 " "	"	5·88 "	1·05 "	"	"
" Cardington,	"	36 " "	"	3·80 "	0·65 "	1·90 "	7·35 "
" Nottingham,	"	39 " "	"	5·16 "	1·73 "	2·81 "	9·70 "
" Holkham,	"	4 " "	"	5·03 "	2·43 "	2·28 "	9·74 "

Snow, continued from page 67.

Shields; on the 18th at Totnes, Plymouth, Torquay, London Royston, Stockton, Cambridge, Halifax, Bradford, and North Shields; on the 19th at Torquay and Carlisle; on the 20th at London and North Shields; on the 21st at London, Stockton, Cambridge, Leicester, Liverpool, Bolton, and North Shields; on the 22nd at Stockton, Bolton, Hull, Leeds, and North Shields; on the 23rd at Royston, Stockton, Cambridge, Liverpool, Halifax, Hull, and Stonyhurst. In December it fell on 19 days principally in the North of England; on the 17th the fall was general.

Hail fell on the 2nd of October at North Shields; on the 3rd at Liverpool and Bolton; on the 4th at Hull; on the 5th at North Shields; on the 12th at Ventnor; on the 13th at Halifax; on the 20th at Hull; on the 21st at Hull and North Shields; on the 22nd at Hull; on the 23rd at Hull and North Shields; on the 24th at Hull; on the 27th at North Shields; on the 28th at Guernsey, Torquay, Hull, and North Shields; on the 29th at Guernsey and North Shields. On the 14th and 15th of November at Guernsey; on the 17th at Guernsey, Llandudno, and Hull; on the 18th at Hull; on the 19th at Guernsey and Halifax; on the 20th at Hull; on the 21st at Somerleyton and Hull; on the 22nd at Hull; on the 25th at Torquay, London, Royston, Llandudno; and on the 26th at Torquay and Llandudno. In December it fell on 7 days chiefly in latitude 53°.

Fog was prevalent on 14 days in October, 13 days in November, and 12 days in December. In London and its vicinity fog was prevalent on about 4 days in October, 3 in November, and 3 in December, being less frequent than at most places north of London.

NAMES OF STATIONS.	Mean Pressure of dry Air reduced to the level of the Sea.	Highest Reading of the Thermometer.	Lowest Reading of the Thermometer.	Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Number of Days on which it fell.	Rain. Mean Amount each day.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·631	70·0	34·5	35·5	54·1	46·0	25·0	8·1	49·6	44·9	·300	3·4	0·6	85	542	70·3	42·7	1·7	7	5	8	11	2·8	6·6	58	24·28
Truro	29·667	69·0	25·0	44·0	53·5	42·0	33·3	11·5	47·1	42·6	·274	3·2	0·5	86	546	—	—	2·2	7	6	6	12	—	7·2	58	16·71
Plymouth	29·735	66·0	29·0	37·0	52·5	41·4	30·2	11·1	46·5	42·8	·276	3·2	0·5	88	548	—	—	1·5	8	6	6	11	—	7·3	50	11·36
Totnes	—	67·6	22·5	45·1	53·2	39·0	35·5	14·2	45·7	42·1	·268	3·1	0·4	88	549	—	—	2·3	7	7	5	12	—	6·7	44	22·26
Torquay	29·677	65·5	29·7	35·8	51·6	41·2	29·4	10·4	46·2	41·8	·265	3·0	0·5	85	542	86·5	34·2	1·8	6	5	7	13	4·5	7·5	48	19·59
Eastbourne	29·610	67·4	26·2	41·2	52·4	40·8	31·0	11·6	45·6	42·0	·267	3·0	0·5	87	547	72·8	29·4	0·2	10	5	4	12	0·8	—	41	13·37
Ventnor	29·722	66·8	28·2	38·6	52·9	42·8	29·1	10·1	47·3	43·6	·284	3·2	0·5	87	545	—	—	—	11	5	5	10	4·5	6·8	51	18·[illegible]
Osborne	29·665	68·3	26·4	41·9	51·4	39·7	31·6	11·7	45·1	42·8	·276	3·2	0·3	92	546	68·6	35·9	0·7	8	5	7	11	—	6·9	47	17·[illegible]
Bournemouth	29·656	64·8	21·9	42·9	51·0	39·8	31·5	11·2	45·6	41·4	·261	3·0	0·5	84	546	—	—	1·2	9	5	4	13	—	6·4	56	15·[illegible]
Brighton	29·686	66·6	27·6	39·0	48·7	39·8	30·3	8·9	44·6	40·5	·252	2·9	0·5	86	546	—	35·5	0·9	9	5	6	11	—	7·7	44	12·[illegible]
Salisbury	29·754	69·0	17·5	51·5	51·8	34·5	39·7	17·3	43·3	39·8	·246	2·8	0·4	88	547	71·7	33·2	1·3	10	5	5	11	—	6·7	55	11·[illegible]
Barnstaple	29·659	69·0	25·0	44·0	53·1	42·0	31·3	11·1	47·2	42·5	·272	3·1	0·6	84	546	—	—	1·2	5	5	8	12	—	4·7	53	13·[illegible]
Ramsgate	29·674	66·1	27·5	38·6	50·8	39·2	28·2	11·5	44·9	41·0	·261	3·0	0·4	87	547	—	—	1·4	5	6	8	11	—	7·4	47	15·[illegible]
Strathfield Turgiss	29·694	66·0	21·5	44·5	50·8	36·9	34·1	13·9	43·8	40·1	·249	2·9	0·4	88	547	74·5	31·2	1·0	7	6	5	12	1·6	6·7	48	14·[illegible]
Bath	29·696	63·9	20·7	42·6	48·7	37·2	31·9	11·5	42·7	39·8	·245	2·8	0·4	89	540	74·9	34·6	1·4	6	5	7	13	—	6·9	51	13·[illegible]
Marlborough	29·681	67·2	15·8	51·4	49·3	36·7	37·7	12·6	42·7	39·2	·239	2·7	0·4	88	543	—	31·0	0·7	7	7	3	14	—	6·4	49	12·[illegible]
Blackheath	29·683	65·0	25·0	40·0	49·1	37·3	32·3	11·8	43·7	38·8	·237	2·7	0·6	84	547	70·4	33·2	1·0	7	5	6	13	—	6·8	45	12·[illegible]
Reading	29·661	65·8	22·8	43·0	49·3	36·4	34·2	12·9	43·0	40·2	·249	2·9	0·4	90	548	—	—	1·1	7	5	8	10	—	6·9	45	10·[illegible]
Camden Square	29·676	66·3	24·6	41·7	50·5	38·5	32·8	12·0	44·2	39·8	·246	2·8	0·6	85	546	67·8	35·2	—	10	5	5	10	—	6·9	51	10·[illegible]
Oxford	29·670	64·2	20·9	43·3	50·7	38·9	32·5	11·8	43·6	40·8	·256	3·0	0·3	90	547	82·9	35·4	2·0	7	4	8	12	0·8	7·1	48	10·[illegible]
Gloucester	29·689	71·0	20·0	51·0	52·0	36·4	39·3	15·6	43·9	40·0	·248	2·8	0·5	86	549	67·7	—	0·7	7	7	2	15	0·6	—	38	10·[illegible]
Royston	29·707	60·0	20·8	39·2	49·0	35·9	23·2	13·1	42·6	38·9	·237	2·8	0·4	87	544	—	—	—	6	4	7	13	—	6·5	43	9·[illegible]
Cardington	29·641	64·0	20·6	43·4	49·0	35·2	35·1	12·8	42·5	39·3	·242	2·8	0·4	89	549	55·9	30·9	1·4	6	5	5	15	—	6·5	40	9·[illegible]
Cambridge	29·638	66·0	20·0	46·0	50·3	37·4	37·6	12·9	43·5	40·0	·249	2·9	0·4	89	549	73·8	30·7	1·1	8	3	9	10	—	6·6	61	7·[illegible]
Rugby	29·656	63·0	13·0	50·0	49·9	34·4	41·5	13·5	41·4	39·0	·246	2·8	0·3	92	546	—	33·6	0·4	9	5	8	9	5·9	5·9	44	7·[illegible]
Lowestoft	29·625	63·1	27·0	36·1	49·7	38·8	29·8	10·9	44·2	40·1	·249	2·8	0·5	86	548	70·5	35·2	0·9	6	5	5	15	—	6·7	57	7·[illegible]
Somerleyton	29·645	64·0	24·7	39·3	49·3	38·5	31·1	10·8	43·4	39·4	·242	2·8	0·5	87	549	—	—	1·1	7	4	6	14	0·8	6·5	63	8·[illegible]
Wolverhampton	29·675	61·5	16·5	45·0	47·0	34·6	36·0	12·4	40·7	37·3	·224	2·6	0·3	89	544	—	—	—	6	6	8	10	—	7·4	43	10·[illegible]
Leicester	29·687	61·0	13·3	47·7	48·4	37·1	36·4	11·3	42·5	38·8	·236	2·7	0·4	87	547	68·8	27·8	1·2	6	5	8	12	—	7·0	52	10·[illegible]
Nottingham	29·653	62·9	18·2	44·7	48·0	35·8	33·7	12·2	41·7	38·1	·229	2·6	0·4	87	548	67·3	34·2	0·3	9	4	9	9	1·0	7·0	54	10·[illegible]
Holkham	29·651	62·3	24·0	38·3	49·2	36·0	33·0	13·2	43·1	38·3	·232	2·7	0·5	83	550	69·1	28·3	1·6	7	3	12	8	—	7·0	45	10·[illegible]
Llandudno	29·653	63·3	25·7	37·6	49·2	40·0	30·0	9·2	44·8	39·2	·241	2·8	0·6	81	547	—	—	1·4	4	7	6	13	—	6·6	49	14·[illegible]
Liverpool	29·653	63·0	22·4	40·6	48·0	39·6	31·2	8·4	43·2	38·6	·235	2·7	0·5	85	547	—	—	1·2	7	6	7	12	—	7·0	50	12·[illegible]
Bolton	29·662	62·1	22·0	40·1	46·3	34·1	34·4	12·2	40·2	35·7	·209	2·4	0·5	84	544	50·7	28·1	1·8	9	5	7	10	6·1	7·5	39	17·[illegible]
Halifax	29·726	61·0	20·0	41·0	45·5	34·9	34·0	10·6	40·1	36·5	·217	2·5	0·4	88	544	65·0	32·4	0·8	6	6	7	12	—	7·3	37	15·[illegible]
Hull	29·648	62·0	23·0	39·0	47·5	35·2	33·0	12·3	42·0	37·1	·231	2·5	0·6	83	552	60·4	33·1	1·9	6	5	5	15	0·6	6·1	36	11·[illegible]
Stonyhurst	29·659	62·9	21·0	41·9	47·6	36·4	34·0	11·2	41·3	37·1	·231	2·6	0·5	85	545	78·8	34·0	—	8	6	5	12	—	7·7	37	12·[illegible]
Bradford	29·651	62·1	23·0	39·1	47·5	37·4	32·5	10·1	42·1	36·8	·219	2·6	0·5	82	544	54·6	—	0·9	8	7	5	11	—	6·7	64	11·[illegible]
Leeds	29·640	65·0	23·0	42·0	49·5	37·6	34·7	11·9	43·4	37·7	·228	2·6	0·6	81	547	55·1	—	2·0	8	4	3	16	—	3·7	48	10·[illegible]
Cockermouth	29·584	61·0	19·4	41·6	47·3	36·3	35·7	11·0	41·4	37·4	·224	2·6	0·4	86	550	59·3	31·4	1·5	8	6	6	11	2·0	6·9	55	12·[illegible]
Silloth	29·622	61·6	13·4	48·2	46·0	34·3	39·1	11·7	40·2	36·3	·218	2·5	0·5	86	553	76·9	28·6	1·4	3	9	5	14	8·5	5·4	52	9·[illegible]
Carlisle	29·650	65·3	13·2	52·1	47·2	33·4	41·1	13·8	40·0	36·3	·215	2·5	0·4	87	552	73·4	27·1	1·5	3	8	5	15	2·9	6·4	43	9·[illegible]
North Shields	29·680	60·0	18·5	41·5	45·4	36·8	34·6	8·6	40·7	37·2	·223	2·6	0·3	88	551	—	36·3	1·7	12	4	3	11	—	5·6	69	9·[illegible]

The highest temperatures of the air were at Gloucester 71°; Guernsey 70°; and at Truro, Salisbury, and Barnstaple 69°.
The lowest temperatures of the air were at Stockton, near Rugby, 13°; at Carlisle, 13°·2; and at Silloth, 13°·4.
The greatest daily ranges of temperature were at Salisbury, 17°·3; at Gloucester, 15°·6; and at Stockton 15°·5.
The least daily ranges of temperatures were at Guernsey, 8°·1; at Liverpool, 8°·4; and at Llandudno, 9°·2.
The greatest number of days of rain were at North Shields, 69; Wolverhampton, 66; and Bradford, 64.
The least number of days of rain were at Cardington 40; Eastbourne 41; and Wolverhampton and Carlisle 43.
The heaviest falls of rain in the quarter were 24·28 inches at Guernsey; 22·26 inches at Totnes; and 19·59 inches at Stonyhurst.
The least falls of rain in the quarter were 7·85 inches at Lowestoft; 8·59 inches at Cardington; and 9·35 inches at Royston.

QUARTERLY METEOROLOGICAL TABLE for different PARALLELS of LATITUDE.

PARALLELS OF LATITUDE, &c.	Mean Pressure of dry Air reduced to the level of the Sea.	Mean of all Highest Readings of the Thermometer.	Mean of all Lowest Readings of the Thermometer.	Mean Range of Temperature in the Quarter.	Mean of all Highest.	Mean of all Lowest.	Mean Monthly Range of Temperature.	Mean Daily Range of Temperature.	Mean Temperature of the Air.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Mean Weight of Vapour in a cubic foot of Air.	Mean additional Weight required for saturation.	Mean degree of Humidity.	Mean Weight of a cubic foot of Air.	Mean Reading of Maximum in Rays of Sun.	Mean Reading of Minimum on Grass.	Wind. Mean Estimated Strength.	Wind. Relative Proportion of N.	E.	S.	W.	Mean Amount of Ozone.	Mean Amount of Cloud.	Rain. Mean Number of Days on which it fell.	Rain. Mean Amount each day.
	in.	°	°	°	°	°	°	°	°	°	in.	grs.	gr.		grs.	°	°									in.
Guernsey	29·631	70·0	34·5	35·5	54·1	46·0	25·0	8·1	49·6	44·9	·300	3·4	0·6	85	542	70·3	42·7	1·7	7	5	8	11	2·8	6·6	58	24·28
Between 50° and 51°	29·676	66·9	26·1	40·8	52·6	44·6	31·4	11·5	46·1	42·4	·271	3·1	0·5	87	546	76·0	33·2	1·4	8	5	6	12	3·3	7·0	49	16·71
Between 51° and 52°	29·686	66·5	22·8	44·1	50·4	37·5	33·6	12·9	44·0	40·1	·249	2·9	0·5	87	546	71·9	33·1	1·1	7	6	6	12	—	6·7	49	15·31
Between 52° and 53°	29·658	67·8	20·5	43·3	49·3	36·2	34·0	14·9	42·9	38·8	·239	2·8	0·4	88	548	67·5	32·1	0·9	7	5	7	12	3·6	6·5	35	9·35
Between 53° and 54°	29·661	62·7	22·5	40·2	47·6	36·9	33·0	10·7	42·1	37·3	·228	2·6	0·5	84	546	59·2	31·9	1·4	7	6	5	13	3·3	6·6	30	14·[illegible]
Between 54° and 55°	29·619	62·6	15·3	47·3	46·8	34·7	38·7	12·2	40·5	36·7	·219	2·5	0·4	86	552	69·9	29·0	1·5	5	8	5	13	5·7	6·2	30	10·40
Mean for the Quarter, 50° to 55° — Year 1877	29·604	66·7	27·2	39·5	51·6	49·5	30·5	12·1	45·4	41·0	·239	3·0	0·5	85	543	71·7	33·9	1·3	5	3	9	13	4·1	6·4	38	10·79
Mean for the Quarter, 50° to 55° — " 1878	29·543	70·0	12·9	57·1	46·7	35·5	33·9	11·2	40·9	36·7	·227	2·6	0·5	86	547	66·9	30·6	1·1	9	5	6	10	3·8	6·4	42	9·22
Mean for the Quarter, 50° to 55° — " 1879	29·667	65·2	12·1	53·1	46·8	35·0	36·0	11·8	40·7	37·0	·226	2·6	0·4	86	556	66·4	30·5	1·0	9	8	5	9	3·2	6·6	35	4·21
Mean for the Quarter, 50° to 55° — " 1880	29·648	64·5	21·3	43·3	49·3	38·0	34·1	12·4	43·9	39·1	·241	2·8	0·5	86	548	68·9	33·1	1·3	7	6	6	12	3·4	6·6	30	12·32

TABLE

FOR FACILITATING THE DETERMINATION OF THE

DEW-POINT

From observations of the Dry and Wet Bulb Thermometers.

BY

WILLIAM MARRIOTT,
Assistant Secretary of the Meteorological Society.

By using this Table it will be found that there is a saving of time of nearly 40 per cent., as compared with the ordinary method.

It allows any one to obtain the Dew Point at inspection, without going through several calculations.

It is based upon Table I. in Glaisher's "Hygrometrical Tables," but differs from it by giving the amount to be subtracted from the reading of the *Wet* Bulb Thermometer instead of from that of the *Dry*.

It is only intended for such readings as are ordinarily observed in this country, viz. between 30° and 79°.

The arrangement of the Table is as follows:—

The first column on the left gives the reading of the Dry Thermometer for every degree. The other columns give, for each degree of difference between the readings of the Dry and Wet Bulb Thermometers, the amount to be subtracted from the reading of the Wet Bulb to obtain the temperature of the Dew Point. The amounts for tenths of degrees can of course be at once obtained by merely shifting the decimal point one place to the left.

The following examples will show the manner of using the Table:—

(1.) Suppose the reading of the Dry Bulb Thermometer to be = 50°·0
" Wet " " ... = 45°·0
The difference is ..... = 5°·0
On looking at the Table, we find the amount to be subtracted from the Wet Bulb Thermometer is ..... = 5°·3
Therefore the temperature of the Dew Point is, 45°·0—5°·3 ..... = 39°·7

(2.) Suppose the reading of the Dry Bulb Thermometer to be = 55°·5
" Wet " " ... = 48°·3
The difference is ..... = 7°·2
On referring to the Table, we see the amount to be subtracted for 7°·0 = 6°·7, and for 0°·2 = 0°·19, say 0°·2, giving 6°·9 as the total amount to be subtracted from the reading of the Wet Bulb Thermometer.
Therefore, the temperature of the Dew Point is, 48°·3—6°·9 ..... = 41°·4

LONDON.
WILLIAMS AND STRAHAN, 7 LAWRENCE LANE, CHEAPSIDE, E.C.
Price Sixpence.
1874.

Reading of Dry Thermometer.	Difference between Dry and Wet Thermometers.														
	1°·0	2°·0	3°·0	4°·0	5°·0	6°·0	7°·0	8°·0	9°·0	10°·0	11°·0	12°·0	13°·0	14°·0	15°·0
	Amount to be subtracted from the Wet Thermometer to obtain the Dew Point.														
30°	3°·2	6°·3	9°·5	12°·6	15°·8	18°·9	22°·1	25°·2	28°·4	31°·5	34°·7	37°·8	41°·0	44°·1	47°·3
31	2·7	5·4	8·1	10·8	13·5	16·2	18·9	21·6	24·3	27·0	29·7	32·4	35·1	37·8	40·5
32	2·3	4·6	7·0	9·3	11·6	13·9	16·2	18·6	20·9	23·2	25·5	27·8	30·2	32·5	34·8
33	2·0	4·0	6·0	8·0	10·0	12·1	14·1	16·1	18·1	20·1	22·1	24·1	26·1	28·1	30·2
34	1·8	3·5	5·3	7·1	8·9	10·6	12·4	14·2	15·9	17·7	19·5	21·2	23·0	24·8	26·6
35	1·6	3·2	4·8	6·4	8·0	9·6	11·2	12·8	14·4	16·0	17·6	19·2	20·8	22·4	24·0
36	1·5	3·0	4·5	6·0	7·5	9·0	10·5	12·0	13·5	15·0	16·5	18·0	19·5	21·0	22·5
37	1·4	2·8	4·3	5·7	7·1	8·5	9·9	11·4	12·8	14·2	15·6	17·0	18·5	19·9	21·3
38	1·4	2·7	4·1	5·4	6·8	8·2	9·5	10·9	12·2	13·6	15·0	16·3	17·7	19·0	20·4
39	1·3	2·6	4·0	5·3	6·6	7·9	9·2	10·6	11·9	13·2	14·5	15·8	17·2	18·5	19·8
40	1·3	2·6	3·9	5·2	6·5	7·7	9·0	10·3	11·6	12·9	14·2	15·5	16·8	18·1	19·4
41	1·3	2·5	3·8	5·0	6·3	7·6	8·8	10·1	11·3	12·6	13·9	15·1	16·4	17·6	18·9
42	1·2	2·5	3·7	4·9	6·2	7·4	8·6	9·8	11·1	12·3	13·5	14·8	16·0	17·2	18·5
43	1·2	2·4	3·6	4·8	6·0	7·2	8·4	9·6	10·8	12·0	13·2	14·4	15·6	16·8	18·0
44	1·2	2·4	3·5	4·7	5·9	7·1	8·3	9·4	10·6	11·8	13·0	14·2	15·3	16·5	17·7
45	1·2	2·3	3·5	4·6	5·8	7·0	8·1	9·3	10·4	11·6	12·8	13·9	15·1	16·2	17·4
46	1·1	2·3	3·4	4·6	5·7	6·8	8·0	9·1	10·3	11·4	12·5	13·7	14·8	16·0	17·1
47	1·1	2·2	3·4	4·5	5·6	6·7	7·8	9·0	10·1	11·2	12·3	13·4	14·6	15·7	16·8
48	1·1	2·2	3·3	4·4	5·5	6·6	7·7	8·8	9·9	11·0	12·1	13·2	14·3	15·4	16·5
49	1·1	2·2	3·2	4·3	5·4	6·5	7·6	8·6	9·7	10·8	11·9	13·0	14·0	15·1	16·2
50	1·1	2·1	3·2	4·2	5·3	6·4	7·4	8·5	9·5	10·6	11·7	12·7	13·8	14·8	15·9
51	1·0	2·1	3·1	4·2	5·2	6·2	7·3	8·3	9·4	10·4	11·4	12·5	13·5	14·6	15·6
52	1·0	2·0	3·1	4·1	5·1	6·1	7·1	8·2	9·2	10·2	11·2	12·2	13·3	14·3	15·3
53	1·0	2·0	3·0	4·0	5·0	6·0	7·0	8·0	9·0	10·0	11·0	12·0	13·0	14·0	15·0
54	1·0	2·0	2·9	3·9	4·9	5·9	6·9	7·8	8·8	9·8	10·8	11·8	12·7	13·7	14·7
55	1·0	1·9	2·9	3·8	4·8	5·8	6·7	7·7	8·6	9·6	10·6	11·5	12·5	13·4	14·4
56	0·9	1·9	2·8	3·8	4·7	5·6	6·6	7·5	8·5	9·4	10·3	11·3	12·2	13·2	14·1
57	0·9	1·8	2·8	3·7	4·6	5·5	6·4	7·4	8·3	9·2	10·1	11·0	12·0	12·9	13·8
58	0·9	1·8	2·7	3·6	4·5	5·4	6·3	7·2	8·1	9·0	9·9	10·8	11·7	12·6	13·5
59	0·9	1·8	2·7	3·6	4·5	5·3	6·2	7·1	8·0	8·9	9·8	10·7	11·6	12·5	13·4
60	0·9	1·8	2·6	3·5	4·4	5·3	6·2	7·0	7·9	8·8	9·7	10·6	11·4	12·3	13·2
61	0·9	1·7	2·6	3·5	4·4	5·2	6·1	7·0	7·8	8·7	9·6	10·4	11·3	12·2	13·1
62	0·9	1·7	2·6	3·4	4·3	5·2	6·0	6·9	7·7	8·6	9·5	10·3	11·2	12·0	12·9
63	0·9	1·7	2·6	3·4	4·3	5·1	6·0	6·8	7·7	8·5	9·4	10·2	11·1	11·9	12·8
64	0·8	1·7	2·5	3·3	4·2	5·0	5·8	6·6	7·5	8·3	9·1	10·0	10·8	11·6	12·5
65	0·8	1·6	2·5	3·3	4·1	4·9	5·7	6·6	7·4	8·2	9·0	9·8	10·7	11·5	12·3
66	0·8	1·6	2·4	3·2	4·1	4·9	5·7	6·5	7·3	8·1	8·9	9·7	10·5	11·3	12·2
67	0·8	1·6	2·4	3·2	4·0	4·8	5·6	6·4	7·2	8·0	8·8	9·6	10·4	11·2	12·0
68	0·8	1·6	2·4	3·2	4·0	4·7	5·5	6·3	7·1	7·9	8·7	9·5	10·3	11·1	11·9
69	0·8	1·6	2·3	3·1	3·9	4·7	5·5	6·2	7·0	7·8	8·6	9·4	10·1	10·9	11·7
70	0·8	1·5	2·3	3·1	3·9	4·6	5·4	6·2	6·9	7·7	8·5	9·2	10·0	10·8	11·6
71	0·8	1·5	2·3	3·0	3·8	4·6	5·3	6·1	6·8	7·6	8·4	9·1	9·9	10·6	11·4
72	0·8	1·5	2·3	3·0	3·8	4·5	5·3	6·0	6·8	7·5	8·3	9·0	9·8	10·5	11·3
73	0·7	1·5	2·2	3·0	3·7	4·4	5·2	5·9	6·7	7·4	8·1	8·9	9·6	10·4	11·1
74	0·7	1·5	2·2	2·9	3·7	4·4	5·1	5·8	6·6	7·3	8·0	8·8	9·5	10·2	11·0
75	0·7	1·4	2·2	2·9	3·6	4·3	5·0	5·8	6·5	7·2	7·9	8·6	9·4	10·1	10·8
76	0·7	1·4	2·1	2·8	3·6	4·3	5·0	5·7	6·4	7·1	7·8	8·5	9·2	9·9	10·7
77	0·7	1·4	2·1	2·8	3·5	4·2	4·9	5·6	6·3	7·0	7·7	8·4	9·1	9·8	10·5
78	0·7	1·4	2·1	2·8	3·5	4·1	4·8	5·5	6·2	6·9	7·6	8·3	9·0	9·7	10·4
79	0·7	1·4	2·1	2·8	3·5	4·1	4·8	5·5	6·2	6·9	7·6	8·3	9·0	9·7	10·4

Official, No. 24.

INSTRUCTIONS

IN THE USE OF

METEOROLOGICAL INSTRUMENTS.

Compiled by Direction of the Meteorological Committee,

BY

ROBERT H. SCOTT, M.A., F.R.S.

DIRECTOR OF THE METEOROLOGICAL OFFICE.

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PREFACE.

THE subjoined Instructions have been prepared by direction of the Meteorological Committee, inasmuch as the "Instructions for taking Meteorological Observations," by Sir H. James, F.R.S., of which the last edition appeared in 1861, are now entirely out of print.

It has been endeavoured to embody in the present compilation allusions to the most important points which would come under the notice of a meteorological observer at an ordinary station.

The tables in the Appendix are those which are most important for use in connection with observations of Pressure, Temperature, and Rainfall, and for the conversion of data published in Foreign measures to English equivalents, and *vice versâ*.

The tables for reduction of the Barometer to sea-level, for the readings of 30 inches and 27 inches respectively, have been recalculated and extended, so as to refer to elevations as far as 1,500 feet.

I have to express my sincerest acknowledgments to many of my friends who have not shunned the trouble of reading and minutely criticizing the work, and who have, from time to time, suggested important improvements.

It cannot be expected but that exception may be taken to some of the statements made and regulations proposed; but it is hoped that these Instructions may have some tendency towards the attainment of, or, at least, an approximation to, that uniformity in methods of meteorological observation, the absence of which is universally felt and regretted.

ROBERT H. SCOTT.

Meteorological Office,
May 7, 1875.

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INTRODUCTION.

In presenting these "Instructions" to the public it may be well to say a few words by way of introduction, on the subject of observations in general, and on the conditions requisite to constitute a good observing station.

The Vienna Congress has recognised three classes of observing stations :—

A Station of the *First Order* is an observatory in which, without the collection of observations from other stations, meteorological observations are conducted on a great scale, *i.e.*, either by hourly readings or by the use of self-recording instruments.

Stations of the *Second Order* are those where complete and regular observations of the usual meteorological elements, viz., pressure, temperature and humidity of the air, wind, cloud, rain, and hydrometeors (p. 69), &c., are conducted, but with less frequency than at the stations above mentioned.

Stations of the *Third Order* are those where only some of these elements are observed.

It is of course out of the question for a private observer, of ordinary means, to attempt to establish a station of the First Order; and inasmuch as the following Instructions are mainly destined for the use of observers at stations of the Second and Third Orders, it is not purposed to enter into details on the subject of self-recording instruments, or the other requirements of a first-class observatory.

At the other classes of stations the observations are taken by the eye, and to these it is wished to direct especial attention.

At stations of the Second Order the observations are to be made *at least* twice a day at homonymous* hours, for which 9 a.m. and 9 p.m. (local time) have been chosen by a large majority of the volunteer observers who have been consulted within the United Kingdom. Additional observations should, however, be taken at other hours, when convenient, especially during unsettled weather.

At stations of the Third Order, observations are made with less frequency and less completeness than at those of the Second Order; but the observations must be taken at least once daily, and these stations must have properly verified instruments for all the observations which are taken, and the same regularity and punctuality are required in observing as in those of the Second Order.

In fact, observations taken carelessly or with instruments which have not been duly verified by comparison with known standards are utterly useless, while those taken only occasionally are scarcely of any value for scientific purposes.

Under the head of each instrument will be found the necessary requirements as to its construction, verification, &c.

As to the observers, the great qualities which are looked for are a knowledge of the instruments used, accuracy, regularity, and honesty.

As regards knowledge of the instruments—the observer should be familiar with their management, and should know how to apply the respective corrections.

As regards accuracy—the degree of minuteness to which each instrument is to be read will be found noticed in its proper place.

As to regularity—all the observations should be made punctually at the hours fixed for observation. If from any cause an observation is taken either too early or too late, the precise time at which it was taken should be entered in the register; and if the observations are taken by a substitute or assistant, the initials of the actual observer ought to be set down.

Lastly, as regards honesty—if an observation has been omitted, the space for it should be left blank, and a note should be added in the "Remark" column stating

* By "homonymous" hours are meant hours of the same name, *e.g.*, 8 and 8, 9 and 9, etc.

the reason of the omission. No estimated reading, however obtained, should on any account be inserted.

The requirements as to situation for a meteorological station are that the positions designated for the thermometers and rain gauge shall be perfectly open on all sides. As regards the thermometer screen, there should be no chance of the shadow of trees or buildings falling on it for any long period during the day, or of reflected or radiated heat affecting it.

As to the rain gauge, it should be so placed as not to be sheltered from wind or exposed to eddies, either of which conditions will influence the amount of rain falling into the gauge.

As regards the observations of wind the matter is much more serious. The anemometer must of course be placed in an open space; but if there be trees near, as, *e.g.*, in a park, or if the ground be undulating, the observations of the wind will be seriously affected, as well in direction as in velocity. In such cases money spent on a costly anemometer will be, to a great extent, wasted.

A list of some books of reference on Meteorology will be found at p. 112.

As regards meteorological co-operation in general, the words of the Report of the Committee of Physics and Meteorology of the Royal Society, published in 1840, are as true now as they were 35 years ago, when first penned:—

"After maturely considering the subject, they do not "presume to anticipate that what they may suggest "will not be liable to objections, for their object will "be to include within their compass many excellent "series of observations which are already in progress, "rather than to propose a degree of theoretical perfec-"tion, the attainment of which the present state of the "science may not perhaps admit of. Systematic co-"operation is the essential point to which at present "everything else should be sacrificed; and co-operation "on almost any plan would most certainly be followed "by more beneficial results than any number of inde-"pendent observations, however perfect they might be "in themselves."

* * * *

"The Committee are not without hopes that amateurs "of science may be induced to conform to these sug- "gestions, even at the temporary sacrifice of their own "views and convenience; for no one can reflect on the "immense amount of labour which is now rendered "useless for want of the requisite uniformity and pre- "cision, without being convinced of the necessity for "remedying an evil which has already been of too long "standing, and continues to be a reproach to science. "Many, of course, will not have it in their power to "fill up the plan in all its details; but they will contri- "bute greatly to forward the design, if, in such observa- "tions as they may find it convenient to make, they "strictly comply with the rules proposed."

THE BAROMETER.

General Description of the Instrument.

Construction of the Instrument.—The barometer, as usually constructed, consists of a tube of glass, about 34 inches in length, closed at one end, filled with mercury, and placed vertically with the open end dipping into a cup containing mercury, which is commonly called the cistern. The mercury should be pure, of the specific gravity of 13·594. The mercury does not entirely fill the tube so placed, but, according to the changes of atmospherical pressure, occupies at the level of the sea* from 31 to 27 inches of the tube, measured above the mercury in the cistern. The space above the mercury in a properly filled barometer tube contains nothing but a little of the vapour of mercury. It is called the Torricellian vacuum, from the name of the Italian physicist who invented the barometer.

Barometer scales.

As the mercury in the tube balances the pressure of the atmosphere, it is obvious that it must rise with increased atmospheric pressure and fall with diminished pressure, so that by noting on a linear scale the length of the column, we may *measure* the *weight* of the atmosphere. Such a scale is commonly divided into inches or millimetres, or any other recognised division of length. Tables for the conversion of readings given according to any of the usual scales to the English scale, and *vice versâ*, will be found in Appendix I., Tables III., IV., and V.

It has just been said that the length of the column must be measured from the level of the mercury in the cistern; but it is obvious that during the changes which take place in the length of the column, the mercury which leaves the tube must enter the cistern, or *vice versâ*; hence the level of the mercury in the cistern undergoes changes related to those of the column. In measuring the length of the column we must therefore take into consideration these changes of level in the cistern, and this necessity has led to various constructions of the latter, as will be explained further on. The cistern need not be covered; but, in order to render the instrument portable, it is usually closed in such a way as to prevent the escape of the mercury, while admitting of its being affected by changes in the pressure of the atmosphere, and is firmly cemented to the tube. The whole is then supported by a case.

Material for cases.

There is much variety in the form, though less in the material, of barometer cases. Brass is considered the best material, because its coefficient of expansion by heat is well known; and this is very important, as the tables for correcting barometer readings for

* The reason for saying "at the level of the sea" will be explained at p. 31.

Material for cases.

temperature, founded upon the coefficients of expansion of mercury, glass, and brass, always give identical results with such barometers, although the nature of the alloy forming the cases may not in all instances be exactly similar.

Barometers are also cased in various woods, but in different, and even in similar, species of wood, the expansive coefficient is not the same, nor is it constant for the same specimen, as wood is affected by moisture as well as temperature. A reduction table has been calculated, founded on an average of various determinations of the expansive coefficients of certain woods, such as oak, walnut, and mahogany, but it cannot be relied upon for accurate results, like that for brass. Barometers in wood, however well made, must always be inferior in accuracy to those mounted in brass, and for this reason readings from such instruments are of little value for scientific purposes.

Material for scales.

The scale, or the greater part of it, is commonly measured along the case; but if a scale be applied which is quite independent of the case, then, of course, the reduction for temperature would depend upon the material of the scale, and not upon that of the case.

The practice is to divide not the whole length of the scale, but only the part usually required; viz., that from 27 to 32 inches, unless the barometer be required for use at great heights above the sea (p. 31), in which case the graduation must be carried much lower. This portion may actually be engraved on ivory, porcelain, or enamel, and fixed in its proper position, but if the case which bears it be brass the entire scale is considered to be on brass, and if the case be wood the scale is considered to be on wood. Such a construction of barometers is, however, utterly unsuitable for instruments of any value.

Cistern level.

The change of level of the mercury in the cistern may be compensated for (1) by a so-called *capacity correction;* (2) by a pliable cistern base; (3) by a contracted scale; or (4) by dispensing with the use of a cistern altogether, and employing for the barometer a tube turned up at the open end in a U shape.

The first method must be resorted to when the cistern is entirely covered up, and a scale of standard inches is engraved on the case. The mode of applying the capacity correction is explained at p. 29.

Fortin's method.

By the second method, the necessity for the capacity correction is avoided by a peculiar construction of cistern invented by Fortin, after whom such barometers have been named. The scale is engraved to show true inches. This construction of cistern is best adapted for high class or standard barometers, and will be fully explained when we come to treat of this class of barometers (p. 18).

Contraction of scale.

The third plan was adopted by the Kew Committee of the British Association in 1854, and by means of it we obtain an accurate marine barometer which does not require a capacity correction. By this method the extreme length of the scale is marked on the instrument, and instead of laying off true inches from the upper point downward, the inches are shortened in proportion to the relative size of the diameter of the tube and of the cistern. Barometers with scales contracted or compensated in this way are now known as "Kew barometers" (p. 19).

This method has also grown into favour for station barometers. For the ordinary kind, mounted in wood, it is especially suited, as it does away with the necessity for a capacity correction; but for standards it is not to be preferred to Fortin's plan. All marine barometers should be graduated on this principle. (See p. 20).

Syphon barometers.

The fourth plan is that employed in syphon barometers (p. 23). In such instruments the mercury as it sinks in the long closed leg of the tube rises in the short open one, and *vice versâ*, and the reading of the barometer is the difference in level of the mercury in the two legs.

We have spoken of the capacity correction for barometers. There is another correction required owing to the capillary action between the glass tube and the mercury in it. This will be explained at p. 29.

Reading the Barometer.

Principle of the vernier.

Principle of the Vernier.—In order to facilitate the taking of accurate readings of the height of the barometer, a small moveable scale, called a "Vernier," from the name of its inventor, is attached to the instrument.

The general principle of this moveable dividing scale is that a given length containing n divisions of the fixed scale is divided into $n+1$ or $n-1$ divisions on the vernier. In standard barometers twenty-five spaces in the vernier are equal to any twenty-four spaces of the scale, which are each half a tenth, or five hundredths, of an inch; therefore a space on the scale is larger than a space on the vernier by the twenty-fifth part of ·05 inch, which is ·002 inch, so that the vernier exhibits differences of ·002 of an inch.

Setting the Vernier.—The vernier is moved by a rack and pinion. Turn the milled-head of the pinion (see Fig. 5, p. 18.) so as to bring the *lower* edges of the vernier exactly on a level with the top of the mercurial column, which is usually convex. When set properly, the front edge of the vernier, the top of the mercury, and the back edge of the vernier should be in the line of sight, which line will thus just touch the *middle* and *uppermost* point of the column. Great care should be taken to acquire the habit of reading with the eye exactly on a level with the top of the mercury. The vernier edge must not be brought too low, or it will correspond with a chord of the curve formed by the surface of the mercury instead of being a tangent to that curve.

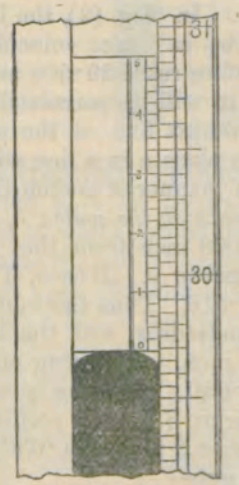


Fig. 1.

Tapping the barometer.

Just before setting the vernier one or two taps should be given to the barometer, by the hand, of sufficient force to cause the top of the mercurial column to be agitated. This operation overcomes the tendency of the mercury to adhere to the glass, and allows

the force of capillarity to exert its normal action. If ever the difference of height thus caused is of any importance, it is when the pressure of the air is rapidly changing, and the barometer in kept perfectly undisturbed. A beginner should watch the effect of tapping, in order that he may learn the necessary amount of force to use, which should never be exceeded for fear of damage to the instrument.

Setting the vernier.

A piece of white paper placed behind the tube, so as to reflect the light, assists in setting the vernier accurately. A small bull's-eye lamp or a candle held at the side of the instrument, so as to throw the light on the paper, enables the observer to get a correct reading at night. When observing the barometer, it should hang *freely*, not being inclined by holding or even by a touch; because any inclination will cause the column to rise in the tube.

The usual graduations of the scale and vernier for English barometers are as follows:—

Every long line	cut on the barometer scale corresponds to - -	a tenth	(·100) of an inch.
„ short „	„ „	five hundredths	(·050) „
Every long line	cut on the vernier scale corresponds to - -	one hundredth	(·010) „
„ short „	„ „	two thousandths	(·002) „

Reading the barometer.

Reading the Barometer.—The mode of reading off may be learned from a study of the following diagrams, in which A B represents part of the scale, and C D the vernier, the *lower* edge D denoting the position of the top of the mercurial column. The scale is readily understood; B is 29·000 inches; the first line above B is 29·050; the second line 29·100, and so on. The first thing is to note the scale line just below D, and the next is to find out the line of the vernier which is in one and the same direction with a line of the scale. In Fig. (2), the lower edge of the vernier, D, is supposed to be in exact coincidence with scale line 29·5; the barometer therefore reads 29·500 inches. Studying it attentively in this position it will be perceived that the vernier line *a* is ·002 inch below the next line of the scale. If, therefore, the vernier be moved so as to place *a* in a line with *z*, the edge D would read 29·502. In like manner it is seen that *b* is ·004 inch away from the line next above it *on the scale*; *c*, ·006 inch apart from that next above it; *d*, ·008 inch from that next above it; and 1, on the vernier, is ·010 below *y*. Hence, if 1 be moved into line with *y*, D would read 29·510. Thus the numbers 1, 2, 3, 4, 5, on the vernier, indicate hundredths, and the intermediate lines the even thousandths of an inch. Referring now to Fig. (3), the scale line next below D is 29·650. Looking carefully up the vernier, the third line above the figure 3 on it is seen to lie evenly with a line on the scale. The number 3 indicates ·030, and the third subdivision ·006; and thus we get—

Reading on scale -	-	29·650
Reading on vernier	-	·030
		·006
Actual reading -	-	29·686 inches.

Reading the barometer.

Sometimes two pairs of lines will appear to be almost coincident; in which case the intermediate thousandth of an inch should be set down as the reading. Thus, suppose the reading appears to be 29·684 or 29·686, the mean 29·685 should be adopted.

Fig. 2.

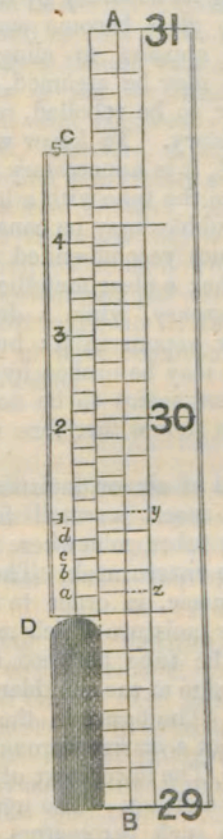
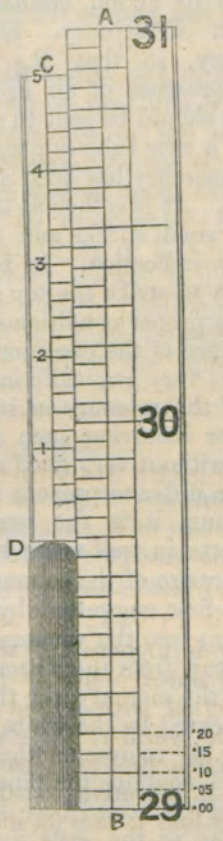


Fig. 3.



Attached thermometer.

Attached Thermometer.—Every mercurial barometer should have an accurate thermometer attached to its frame, the bulb of which should be turned inwards so as to be as near as possible to the barometer tube. The thermometer may also be plunged in an open glass tube of the same section as the barometer tube, which is full of mercury and attached to the frame of the barometer. The degrees should be etched upon its stem, and, of course, a numbered scale should be placed by its side. No reading of a barometer is complete without a notation of the temperature at the same time, which should be taken before the barometer itself is read, so that this "attached thermometer" is an essential part of the barometer. The reason of this statement is explained at p. 30, and tables for "correcting" the readings for temperature will be found in App. I., p. 82.

Defects of Barometers.—Air in Tube.

It has been said that the space above the mercury in the tube should contain nothing but a little of the vapour of mercury, but

Air or moisture in tube.

it happens occasionally that small quantities of air creep up between the mercury and the inner surface of the tube, or that a little moisture may have been left in the tube from the process of washing it out. The slightest trace of moisture is very detrimental, as it makes the mercury adhere to the glass, and so causes the barometer to be sluggish in its action, besides affecting its accuracy by depressing the column of mercury. Should the glass become smeared by the mercury, so that the mercury appears to cling to the tube, the presence of air or moisture may be assumed, and the instrument should be sent to the maker to be reboiled, refilled, or fitted with a new tube as may be necessary. To know whether a tube with mercury has been well boiled, it is unnecessary to watch the process. It is sufficient to examine the tube with a lens. The absence of small specks and minute bubbles may be considered a satisfactory indication. It is sometimes recommended to cause the mercury to strike the top of the tube; a clear metallic "click" indicating a proper condition of the mercury, while a dull sound gives evidence of the presence of air or vapour in it; but, unless the tube be very gradually inclined, it may be broken by the momentum of the mercury in it, and there seems to be no general necessity for incurring such a risk: it should therefore never be attempted without very good reason.

Pipette.

Fig. 4.

In order to prevent the access of air or moisture to the vacuum it is the practice to insert a small funnel or pipette in well made barometer tubes, somewhere between the range of the column and the cistern neck. The pipette was first suggested by Gay Lussac, in order to stop the ascent into the vacuum of air or moisture which may work its way from the cistern into the tube between the glass and the mercury, for this will lodge at the shoulder A as represented by the white space. (The figure in the margin (Fig. 4) represents the portion of a marine barometer tube which contains the pipette A B. The lower part of the tube has a contracted bore down to the cistern. The upper part, as far as the scale portion, in such barometers, is contracted even to a finer bore than that represented in the figure, to obviate "pumping," see p. 19).

"Boiling" tubes.

Experience proves that instruments deteriorate less rapidly with this contrivance than without it. Cases, however, occasionally occur in which it does not effectually prevent the ingress of air and moisture, and it then becomes necessary to boil the tubes over a gas or charcoal stove to expel them. All barometer tubes should be thus treated as soon as made, in order to expel any air or moisture which may have been left behind in the process of filling, the effect of which would be to depress the column of mercury in the tube.

Removal of air bubbles from barometers.

The tubes of standard and of some other barometers are not contracted like those of marine barometers, and so it is not very difficult to remove any air which may get into them. Should it be suspected that there is air in such a barometer, and there are no facilities for sending the instrument to an optician to be set to rights, it should be taken down and inclined *very* gently till the

Removal of air, &c. from barometers.

mercury fills the tube. On inclining it still more, so as nearly to invert it, the air, if present, will ascend in a bubble into the cistern, unless it be a very minute quantity and be detained by adhesion, in which case the top may be slightly tapped on the ground to facilitate its exit. Should air have got into a marine barometer its removal is a difficult matter, and the instrument should be sent to the maker.

Sometimes, though very rarely, a particle of dirt, or a bubble of air lodges in the very fine contraction of the tube of a marine barometer, and completely stops the action of the instrument. Whenever, therefore, a marine barometer becomes stationary or inactive when it evidently ought to be moving under the influence of atmospheric changes, there being no evidence of fracture of the glass, the cause may be surmised to be of this nature. It should then be taken down, the mercury allowed to fill the tube, and the instrument put aside, in an *inverted* position, for a few hours. On replacing it, the cause of the stoppage will generally be found to have been removed to a part of the tube where it can do no harm.

Management of Barometers.

In handling barometers it should always be remembered that they are delicate and expensive instruments. The result of rough treatment is breakage; and for scientific purposes, observations from an instrument improperly repaired and not verified are useless.

Packing for transmission.

Packing and Transmission.—Experience shows that it is advisable to give some directions as to packing barometers. The instrument having been taken down and placed in its box, as directed under the head of each special type of instrument, should, if it is to be sent by rail or other conveyance, and is likely to be handled by persons unacquainted with its delicate and peculiar construction, be placed in a packing case with two or three inches of soft elastic packing all round it, as hay, straw, shavings, tow, or paper-cuttings. The lid of the case should *never be nailed down*, but always fastened with screws. The address label should be *pasted* (not nailed) on the end of the case which is next the cistern, or lower end of the barometer, and it should be marked "Glass and fragile instruments. Keep this box lying flat, or carry it this end upwards." Of course, if two or more barometers are packed together, the cisterns should all be placed at this marked end of the case. Barometers should be transmitted by passenger train, and, in short, always by whatever route or conveyance affords the safest transit. Transhipment or change of conveyance should be avoided, if possible.

Suspension.

Position.—The barometer may be placed in any convenient room, but should be fixed in a good light for observing, out of the reach of sunshine and as much as possible out of the direct heat from a fire or lamp, and should not be exposed to sudden changes of temperature. Great pains must be taken to ensure

that the instrument hangs absolutely vertically, for the slightest divergence from a perpendicular position will cause an appreciable error in the readings, making them always too high. It should also hang where it can be carefully protected from injury.

Different Kinds of Barometers in use.

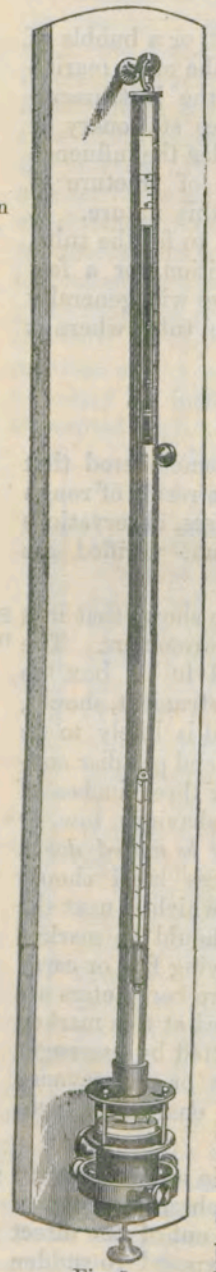


Fig. 5.

Barometers on Fortin's principle. Standard Barometer.

A short description of the principal kinds of barometers will now be given, omitting all mention of constructions which have not proved generally useful, such as long-range barometers, and those with distorted scales, or with spiral and diagonal tubes.

Land Standard Barometer.

The best standard barometers are made on Fortin's principle, which was mentioned on p. 12. In these instruments the upper part of the cistern is made of glass, the base is pliable, and acted upon by a lifting screw. The zero of the scale is visible in the cistern, being generally a piece of ivory, whose lower extremity is called the *fiducial point*. The level of the mercury in the cistern must be set to this point, before taking the reading, by raising or lowering the cistern base by means of the thumb screw. The tube is mounted in a brass case, which is suspended from a hook at the top of a mahogany board, so as to ensure perpendicularity (Fig. 5). At the lower end of the board is a socket or ring, with clamping screws, for steadying the instrument in a vertical position when an observation is to be made. The instrument is so suspended that it may be turned at pleasure to any source of light for setting and reading the vernier. A sheet of white notepaper fixed on the board, just behind the top of the mercury, will also be found serviceable in reflecting the light so as to enable a good observation to be made. The vernier is constructed to read to $\frac{1}{500}$ of an inch, or by estimation to ·001 inch, and is adjusted by a rack and pinion motion.

Barometers on Fortin's principle can only get out of order by the ingress of air or moisture. They are not affected by any changes which may take place in the material of the cistern or the mercury therein. The scales are engraved by a dividing engine, and are usually laid down with accuracy. The only scale error likely to exist arises from incorrect fixing of the zero point; it will, however, be constant throughout the scale, and can suffer no change from use of

the instrument; moreover the position of the mercurial surface is independent of loss of mercury from oxidation, &c. The mode of testing a standard barometer will be found at p. 27.

Management of standard barometers.

When sent into the country or abroad, a standard barometer is usually packed, apart from the mahogany board, in some soft elastic material, the screw at the bottom being turned so as to fill the tube and cistern with mercury. It should not be handled until a position has been selected for it, and then it must be very carefully unpacked. It should be suspended so that the scale may be about five feet from the ground or floor, and that the zero point in the cistern and the vernier on the scale may be easily seen. The board should first be fixed against the wall, the cistern then inserted into the socket, the instrument suspended from the hook, and its perpendicularity secured. When this is done, the thumb screw at the bottom should be reversed till the mercury in the cistern falls to the level of the ivory point.

Reading a standard barometer.

To set the Barometer, first read the attached thermometer, then adjust the mercury in the cistern by means of the thumb-screw, (the tube being held vertical by the clamping-screws,) so that it exactly touches the ivory point, which, with its reflection (if the surface of the mercury be clear,) will then appear as a double cone. Next adjust the lower edge of the vernier tangentially to the convex surface of the mercury in the tube, by keeping the eye in line with the back and front edges of the vernier, see p. 13. It requires a little practice for the novice to make these adjustments properly and expeditiously. While it is all-important that they should be done properly, it is advisable to do them quickly in order to avoid raising the temperature of the instrument by the proximity of the observer's person.

The method of correcting and reducing the readings will be found at p. 32.

Marine Barometers.

Marine barometers.

It is necessary that a portion of the tube of a barometer intended for use at sea should be made with a very fine bore, as will be seen in fig. 4, p. 16, in order to check the oscillations of the mercurial column which would otherwise occur from the motion of the ship. When the bore is not *sufficiently* contracted, the ship's motion causes fluctuations in the mercury in the tube, to which the term "pumping" is applied. Of course this "pumping" is objectionable, as at times correct readings cannot be obtained. On the other hand, when the contraction is too fine, the instrument is sluggish in responding to the varying pressure of the atmosphere, and is proportionally ill-adapted for accurate observations.

Kew barometers.

Kew Marine Barometer.—In 1854, the Kew Committee of the British Association were requested by Government to recommend a form of barometer suited for the marine observations, which were then about to be commenced by the Admiralty and the Board of Trade, in accordance with the resolutions adopted at

Kew barometers.

the Brussels Conference. Accordingly, by direction of the Committee, Mr. John Welsh, at that time in charge of Kew Observatory, made special experiments to ascertain the appropriate limits of contraction for marine barometer tubes. The reply of the Committee to the Board of Trade stated that "in selecting the form "of marine barometer best adapted to the purpose of making "observations at sea, the Committee have endeavoured to combine "convenience and economy with accuracy, durability, and simplicity "in construction and adjustment.

"The barometer proposed by Mr. Adie appears to them to "fulfil those conditions in a satisfactory manner." *

Construction.

Accordingly this barometer has been adopted by the Government. It is in all respects a trustworthy instrument, and is equally available for land or sea service. It is not too sluggish for accuracy on land, while at sea the motion of the ship is rather favourable than otherwise to its correctness of action. It is mounted in a brass case, but, as this alloy is liable to be acted upon by mercury, the cistern is made of iron. The case is open in front and rear so as to expose to view the range portion of the tube, and the scale is protected from dust by a glass shield (see Fig. 6, p. 21). The vernier is engraved on a small piece of silvered brass tubing, and travels firmly, by a rack and pinion motion, the parts being kept in position by friction. The vernier is similar to that in a Fortin's standard barometer, and enables the height of the mercurial column to be read by estimation to the nearest thousandth of an inch. See p. 14.

The inches of the scale are contracted to compensate for the alterations in the level of the mercury in the cistern, as has already been explained.

In the Government marine barometers the diameter of the cistern is about 1·25 in., and that of the tube about 0·25 in. The scale, therefore, instead of being divided into inches in the usual way, is shortened in the proportion of 0·04 of an inch for every inch.

The cistern.

The cisterns of all marine barometers are closed. Each contains sufficient mercury to cover the open end of the tube in whatever position the instrument may be placed; so that no adjustment of cistern whatever has to be made, either for portability or for observation. The observer should never attempt to meddle with the cistern. Cisterns made of wood are sufficiently pervious to air for the mercury to be affected by the variations of the pressure of the atmosphere. Those made of iron are provided with a small aperture at the top or cover, which is closed internally by a piece of leather, through which the air can act, but the mercury cannot escape.

Every tube is constructed with an air-trap, similar to that already described, p. 16.

"Gun" barometer.

"Gun" Barometer.—A modification of the marine barometer, for the Naval Service, intended to withstand the concussion arising from gun-firing, was designed in 1861 by Admiral FitzRoy,

* The precise regulations as to the tests for sufficiency of contraction, &c. which are at present in force will be found at p. 29, when treating of the testing of marine barometers.

"Gun" barometer.

its use being rendered necessary by the greatly increased size of modern artillery. In this instrument the glass tube is surrounded as much as possible with vulcanized india-rubber tubing, as packing, which checks the vibration arising from concussion, but does not hold the tube rigidly. The cistern is made entirely of seasoned box-wood, but would be improved by the substitution of iron, as being more durable, and preserving the mercury better from oxidation and moisture. Formerly these barometers were only graduated to 0·01 in., but they have lately been fitted with improved verniers and accurate scales, so as to read as closely as the Kew marine barometer, from which they therefore now differ only in details.

Suspension of marine barometers.

Directions for Handling.—Barometers when in use at sea are slung in gimbals, and suspended from arms at least a foot long (Fig. 6), so as to be perfectly free to assume the vertical position under every movement of the ship, and at the same time to keep clear of the bulkhead against which the arm is fastened. It is desirable to place them in such a position as not to be in danger of a side blow, and also sufficiently far from the deck above to allow for the spring of the metal arm in cases of sudden movements of the ship. If there be risk of the instrument striking anywhere when the vessel is pitching or rolling heavily, it will be well to put some soft padding on that place. It is essentially necessary that the instrument should have free swing. No steadying springs or stays of any kind should be applied to a barometer, as by their weight they at all times keep it slightly out of the vertical, and when they come under stress the instrument is in an abnormal position altogether. *Care should be taken that no readings from a barometer which is not hanging truly vertically should ever be recorded.* Such readings will always be too high in proportion to the degree of obliquity.

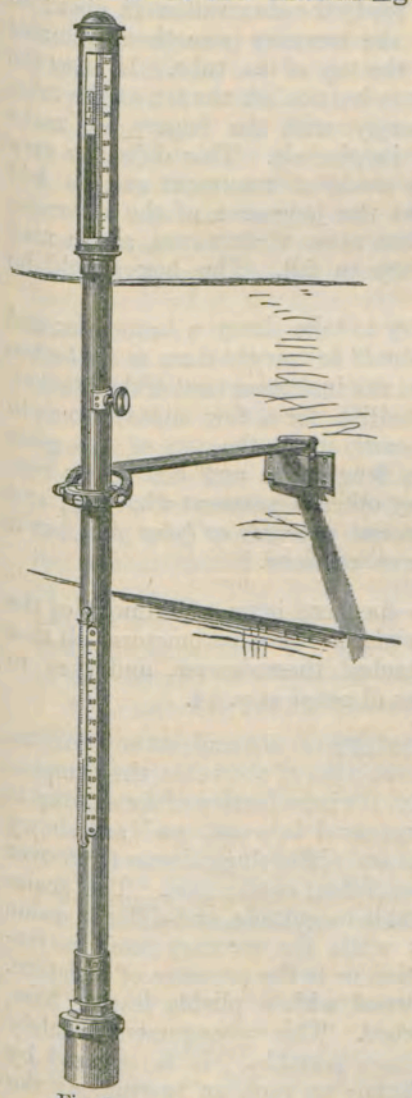


Fig. 6.

Various contrivances have been resorted to for rendering the arm and gimbals elastic, so as to yield to sudden jerks. Experience proves that a simple straight arm of well-hammered brass has sufficient spring for the purpose.

When these barometers are used at land stations the arm is made much shorter, but in all other respects the instrument is mounted as shown in the figure.

Fixing up.

A bracket and screws for suspending the barometer are in its box. Screw up the bracket where the barometer is to be hung. Then lift the instrument carefully out of its box, bend back the hinged part of the suspension arm, and slip it into the bracket. (The holding screws should not be driven quite home until the instrument is in position.) The mercury will then fall gradually, and the instrument will usually be ready for observation in about an hour. In a well boiled tube the mercury sometimes remains immoveable, and will not quit the top of the tube. If after the lapse of a few minutes the mercury has not left the top of the tube, tap the cistern end rather sharply with the fingers, or make the instrument swing a little in its gimbals. This difficulty very rarely happens, and no precise mode of treatment can be laid down: the remedy lies much at the judgment of the observer, who should use such means, but never violent ones, as he may deem best to cause the mercury to fall. The box should be safely stowed away.

Taking down.

Whenever it may be necessary to take down a barometer and stow it in its box, *the vernier should be brought down to the bottom of the scale.* Then, having lifted the instrument out of the bracket, place or hold it in an *inclined* position for a few minutes so as to allow the mercury to flow *very gently* up to the top of the glass tube. It should then be taken lengthwise and laid in its box, when it is portable, without any other adjustment whatever, and may be carried with the *cistern end upwards* or *lying flat*, but it must not be subjected to jars or concussions.

To set the Barometer.—As there is no adjustment of the cistern requisite, or in fact possible, in these barometers, all that is necessary is to read the attached thermometer, and then to adjust the vernier and read off as directed at p. 14.

Common marine barometers.

Common Marine Barometers are not made on any uniform system, either as regards the contraction of the tubes, the compensation of the scales for capacity, or the introduction of the air-trap to prevent deterioration. They are cased in wood, and are showy instruments. Their usual faults are either sluggishness from over contraction, or pumping from insufficient contraction. The scale-errors are sometimes of considerable magnitude, and differ in value at different parts of the scale; while the mercury itself is frequently impure, owing to oxidation or to the presence of moisture.

The cistern is made of box-wood with a pliable leather base, to which a lifting screw is attached. This arrangement is solely intended to render the instrument portable. It is covered by an outer brass casing. After fixing up such an instrument the brass casing should be unscrewed, and the flexible base of the

cistern let down. Before changing the position of the instrument, or taking it down for carriage, the cistern should be screwed up so as to confine the mercury in a close space.

As regards the use of such instruments it need only be repeated that even if their construction were otherwise accurate, no readings from barometers mounted in wood can be said to possess any scientific value whatever in comparison with those from instruments mounted in metal.

Syphon Barometers.

Syphon barometers.

The tube of a barometer may be bent up at the open end in the shape of a syphon, with the short limb from six to eight inches long. This does away with the necessity for a cistern; for, when sufficient mercury is introduced into such a tube, the atmosphere supports the mercury in the long limb, which is closed at the top, by its pressure upon that in the short limb. As the barometrical column rises and falls, the mercury in the short limb falls and rises; therefore, provided the calibre of the upper part of the long limb be equal to that of the short limb (so that the effect of capillarity is the same in each), the distance between the upper and lower levels of the mercury is always the height of the barometric column. A scale of inches starting from a zero point taken near the bend of the tube, with verniers fitted to each limb, gives the means of measuring the long and short columns. The difference of readings is the height of the barometer. By another method the zero point is taken at some intermediate position, and the distances of the mercury levels being measured therefrom, upward and downward, their sum is the height of the barometer.

As the capillary action of the glass is considered to be the same at each of the mercury surfaces, no correction for capillarity, p. 29, is required. If, therefore, a correct scale of inches be applied, the instrument should have no error; but practically this is hardly ever the case. The index error should be determined by comparison with an acknowledged standard barometer. The correction for temperature is applied, as for other barometers, according to the material on which the scale is mounted.

As a standard station barometer the syphon tube is but little used in this country, though it is very generally adopted on the Continent, and in fact the Permanent Committee of the Vienna Congress have recorded their opinion as follows:—

> "That if we speak of the comparison of standard barometers at central stations, and wish to attain an accuracy of 0·03 mm., (0·0012 in.), the usual travelling barometers would not be sufficient, but that syphon barometers of a diameter of at least 12 mm., (0·47 in.), were requisite, in which, moreover, the mercury should always be caused to rise in both legs, immediately before the reading."

Mountain Barometers.

Mountain barometers.

The syphon form of tube has been much used for mountain barometers; as, from the absence of a cistern, and the small quantity

Mountain barometers.

of mercury required, it makes a light and compact instrument. Instead of the top of the short limb being left entirely open, it is closed, and a small conical puncture is made at the side, which is bound round with cotton wool, so that the instrument may be inverted for travelling without any mercury escaping. The portion in the short limb is then loose in its part of the tube, but, as there is little of it, there is no danger of its breaking the tube by its momentum if ordinary care be taken in moving the instrument. The tube is contracted along the intermediate portion and round the bend, so that the mercury, filling it when inverted, is retained there while travelling.

Ordinary Barometers.

Before leaving the subject of barometers, it is well to say a few words about the commonest forms of barometers in use on land, although, as already explained, such instruments cannot lay any claim to be considered as scientific instruments at all.

Common land barometers.

The common land barometer is generally mounted in wood. The cistern may have a flexible base, but if so, its purpose is merely for screwing up the mercury so as to fill the tube and render the instrument better adapted for carriage from place to place. As a rule these barometers are useless for scientific records (see p. 28). Like the wheel barometers, they are household instruments, used as weather glasses, which name they have received from the practice among the makers of engraving the following formulary on their scales:—

At 31 inches	Very dry.
30·5 „	Settled fair.
30 „	Fair.
29·5 „	Changeable.
29 „	Rain.
28·5 „	Much rain.
28 „	Stormy.

These words are very objectionable, since they do not satisfy different conditions of elevation above the sea, or of geographical position, and are also totally wrong from a meteorological point of view. They were, no doubt, intended to refer to the action of the barometer when placed at or near the sea level; but even with that limitation they are not correct, for weather depends on many other circumstances than mere atmospheric pressure.

Coast or "Fishery" Barometer.

"Fishery" barometers.

This form of barometer (Fig. 7, p. 25) was designed by Admiral FitzRoy, who also devised the lettering to be seen in the figure, which has to a great extent superseded that of old date, mentioned above. It was intended to be simple, durable, and sufficiently accurate for all practical purposes as a weather glass. The case is made of oak, and fastened by brass screws. There are no glued pieces nor iron fastenings which might be acted upon by moisture. The tube shows a broad column of mercury. It dips in a well seasoned box-wood cistern, which has a flexible base made of sheepskin, and is provided with a lifting screw. The scale plates are porcelain, and have the lettering burnt in. The vernier reads to hundredth parts of an inch, and one is fixed on each side of the tube to facilitate the observation of changes of pressure. The attached thermometer is large and easily read. It will give the temperature of the air, as well as that of the barometer, when the instrument is freely exposed, provided it is not exposed to sunshine.

"Fishery" barometers.

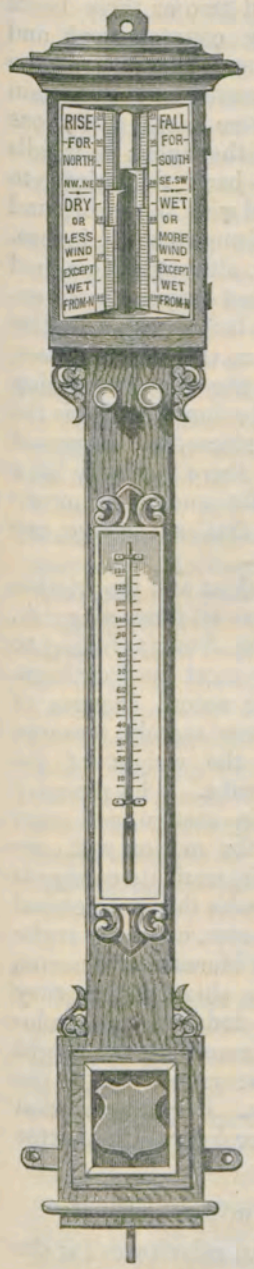


Fig. 7.

The Meteorological Office has placed about 120 barometers of this description at exposed positions on the coasts of the British Isles for the use of fishermen, seafaring persons, and the public generally. The instrument is admirably suited for erection as a public weather glass.

Management.

Directions for Handling.—This barometer should be suspended on a hook or stout nail, against a frame or piece of wood, in the shade, so that light may be seen through the tube. Otherwise a piece of white paper should be placed behind the upper or scale part of the tube. When first suspended, take the pinion key (from the lower end of the scale), fit it on the square-headed brass pin at the lower extremity of the instrument, and turn gently to the left, or against the sun, till the screw stops; then take off the key, and replace it for use on the vernier pinion near the scale, where it should remain, to be used in moving the vernier. The cistern base being thus let down, the mercury in the tube comes at once to its proper level.

In removing this barometer it is necessary to slope it *very* gradually, till the mercury is at the top of the tube, and then, with the instrument reversed, to screw up the cistern base or bag, by the pinion key, used gently, and turned to the right till it stops. It will then be portable, but should be carried with the cistern end uppermost, or lying flat, and it must not be jarred or receive a concussion.

Wheel Barometer.

Wheel barometer.

The syphon tube is greatly used for the construction of the household weather glass known as the Wheel Barometer. In this

Wheel barometer.

instrument the mercury in the short limb carries a float, to which a silk cord is attached, and carried over, and two or three times round, a fixed pulley, the other end being counterpoised and kept in a guide tube to prevent its oscillating. The axis of the pulley carries a pointer in front of a dial mounted on the wooden case of the instrument. As the barometer rises the float descends, and the cord drags the pointer to the right; as it falls the float rises and the counterpoise brings back the pointer to the left. The dial is graduated to correspond with the inches and divisions on an ordinary barometer, usually from 28 to 31 inches. The arrangement gives a very open scale; for, although the actual movements of the mercury are only half of what they are in an ordinary barometer, yet the pointer, traversing a large arc, multiplies their linear extent. It will be apparent that as the mercury rises, say half an inch, in the long tube, the fall in the short limb being also half an inch, the length of the barometrical column, which is the difference between the heights of the two surfaces, has increased one inch; but for this increase of one inch there has only been movement through half an inch, and this is the amount of movement given to the pulley, and is shown on the dial as a change, say from 29 to 30 inches.

The inertia arising from the weight of the float and the friction of the cord and pulley render the instrument at all times sluggish, but more especially so at the times of change from a falling to a rising barometer, and the converse. The most perfect barometer must always be a little behind the actual changes of atmospherical pressure, considered as pressure merely, because of the inertia to be overcome arising from the weight of the mercury and its friction against the glass tube. The mercury of a barometer is, moreover, virtually a body in motion, and must obey the law of inertia, which teaches that the motion will continue after the cause has ceased to produce it, until its energy is destroyed. Whenever, therefore, we seek to make the barometrical column perform work as in the wheel barometer, or in the registering barometers which act mechanically, we increase the inertia, and consequently render the instruments more sluggish than they otherwise would be. This circumstance has induced meteorologists to resort to the photographic method of recording the height of the barometer, examples of which are the barographs used at the observatories of the Meteorological Committee. For a description of this instrument, see the Report of the Meteorological Committee for 1867.

Substitutes for Mercurial Barometers.

Aneroids and metallic barometers are useful substitutes for the mercurial barometer as weather-glasses.

The aneroid.

The Aneroid is an instrument which has come into extensive use, owing to its convenient size and portability. These recommendations have at once secured its very general adoption.

In the aneroid, atmospherical pressure is measured by its effect in altering the shape of a small, hermetically sealed, metallic box,

Aneroids.

from which almost all the air has been withdrawn, and which is kept from collapsing by a spring. The top of the box is corrugated.

When the atmospherical pressure rises above the amount which was recorded when the instrument was made, the top is forced inwards, and *vice versâ*, when pressure falls below that amount, the top is pulled outwards by the spring. These motions are transferred by a system of levers and springs to a hand which moves on a dial like that of a wheel barometer.

It is at once evident that the instrument must be graduated experimentally, as it cannot measure pressure absolutely, but affords indications relatively to a mercurial barometer (its sensibility depending *inter alia* on the quality of the metal of which the box is made).

The principle of the metallic (Bourdon's) barometer is somewhat similar to that of the aneroid.

Aneroids are very sensitive, but unfortunately they do not preserve their accuracy. If a table of corrections be determined for an aneroid, it will be found that after a time it has undergone some change, and that the values of the corrections will require alteration, so that re-comparison with a standard barometer will be necessary. In every case of such comparison the readings of the mercurial barometer should be reduced to 32°.

A most serious objection to the scientific utility of these instruments is their liability to injury, owing to rust or to the alteration of force in the springs used in their construction. However, for the reasons above stated, the aneroid is especially suitable for fishermen, pilots, or seafaring persons employed in boats or small coasting vessels, in which there is not space to suspend a barometer; and, of course, all that is stated regarding the barometer as a weather indicator, applies to the aneroid so far as a single observer is concerned. *For concerted observations accurate mercurial barometers are indispensable.*

Verification of Barometers.

Before barometrical observations can be of any real use for scientific purposes, there must be satisfactory evidence that the errors of the instruments used have been properly ascertained and applied.

Standard barometers.

A Fortin's barometer should be carefully compared with a recognised standard. The difference will be the constant correction which is to be applied to its reading, and will include the error of graduation combined with the error arising from the capillary action of the glass tube upon the mercury, see p. 29. In some certificates, however, these two corrections are given separately. The inches laid down upon the scale should also be tested by a standard scale. This is the plan followed at the Kew Observatory.

"Kew" barometers.

It is a work of much more time to test the "Kew" barometer, since it is necessary to find the correction for scale readings at each half inch throughout the range of atmospheric pressure to which

Testing "Kew" barometers.

it may be exposed; owing to the fact that the inches marked are not true inches; and it becomes necessary to have recourse to artificial means for changing the pressure of the atmosphere on the surface of the mercury in the cistern.

At the Kew Observatory the barometers to be thus tested are placed, together with a standard, in an air-tight chamber, connected with an air pump, so that, by partially exhausting the air, they can be made to read much lower than the lowest pressure to which marine barometers are likely to be exposed; and by compressing the air they can be made to read higher than the mercury ever stands at the level of the sea. The tube of the standard with which they are compared is contracted similarly to that of the marine barometer, but a provision is made for adjusting the mercury in its cistern to the zero point. Glass windows are inserted in the upper part of the iron air-chamber, through which the scales of the barometers may be seen; but as the verniers cannot be moved in the usual way from outside the chamber, a provision is made for reading the height of the mercury, independently of the verniers attached to the scales of the respective barometers, by an instrument called a Cathetometer. At a distance of some five or six feet from the air-tight chamber a vertical scale is fixed. The divisions on the scale correspond exactly with those on the tube of the standard barometer. A vernier and telescope are made to slide on the scale by means of a rack and pinion. The telescope has two horizontal wires, one fixed, and the other capable of being moved by a micrometer screw, so that the difference between the height of the column of mercury and the nearest division on the scale of the standard, and also of all the other barometers placed by the side of it for comparison, can be measured either with the vertical scale and vernier or with the micrometer wire. The means are thus possessed of testing barometers for index error in any part of the scale, through the whole range of atmospherical pressure to which they are likely to be exposed, and the usual practice is to test them at every half inch from 27·5 to 31 inches. The errors detected include not only the index error but the correction for capillarity, p. 29.

Defects of ordinary barometers.

In this way *ordinary* barometers of various constructions have been tested, and some found to read half an inch, or more, too high, while others read as much too low. In some cases those which were correct in one part of the scale were found to be several tenths of an inch wrong in other parts. In some the mercury would not descend lower than to about 29 inches, owing to a fault till very lately usual in the construction of common barometers,—*the cistern was not large enough* to hold the mercury which descended from the tube at the time of a *low atmospherical pressure.*

Conditions for Barometers enforced at Kew, 1875, for instruments required for the Meteorological Office.

For *Barometers professing to be Standards.*—All of which the index error at the ordinary pressure is greater than 0·010 inch are rejected.

Conditions for marine barometers.

For Marine Barometers.—All are rejected of which the index error at the ordinary pressure is greater than 0·015 inch, or the capacity error greater than 0·004 inch, or for which the mercury takes less than 3, or more than 6, minutes to fall from the height of 1·5 inches to that of 0·5 inch above the present pressure.

This latter condition is to ensure the efficiency of the contraction as a provision against "pumping" (p. 19), as well as to prevent the danger of the barometer being too sluggish from over contraction.

Correction of Barometrical Observations.

We have already mentioned the fact that corrections must be applied to all barometer readings, in order to bring the indications of different instruments into harmony with each other, before they can be used for scientific purposes. Some of these corrections have reference to the special instrument, while others are applied to the reading of any instrument taken under the same conditions.

The corrections of the former class are three in number:—

I. Index error.
II. Capacity.
III. Capillarity.

Those of the latter class are two:—

IV. Temperature.
V. Altitude above the sea level.

I. Correction for Index Error.—This is applied according to the errors discovered in the individual instrument when verified as explained at p. 27. It may be either additive (+) or subtractive (−).

II. Correction for Capacity.—In barometers possessing closed cisterns with a scale of true inches engraved on the case, there is a certain height of the column which is correctly measured by the scale. When the mercury sinks below this position, called the *neutral point*, the level rises in the cistern above the zero of the scale, and then the height read off must always be too great. When the mercury rises above the neutral point the level in the cistern sinks below the zero point, and the reading is too small. On the scale of such a barometer the maker should mark the neutral point, and state the ratio of the interior area of the tube to that of the cistern thus: Capacity $\frac{1}{50}$. From these data, the corection for capacity is found by taking a 50th part of the difference between the height read off and that of the neutral point, adding it to the reading when the column is higher, and subtracting it from the reading when it is lower, than the neutral height.

It will be remembered that Fortin's and syphon barometers require no correction for capacity.

III. Correction for Capillarity. — The indications of barometers are affected by the capillary action between the glass tube and the mercury, the effect of which is constantly to depress

Capillarity correction.

the mercury by a certain quantity nearly inversely proportional to the diameter of the tube.

The correction, therefore, is always additive.

This depression is greater in tubes in which the mercury has not been boiled (p. 16) than in those which have been subjected to this process.

The following table from the Report of the Committee of the Royal Society on Physics and Meteorology, 1840, gives the corrections to be applied to English barometers. It takes into account the diameter of the tube, but not the variations of the height of the *meniscus*, i.e. the convexity which terminates the column :—

Diameter of Tube.	Correction for	
	Unboiled Tubes.	Boiled Tubes.
Inch.	Inch.	Inch.
0·60	0·004	0·002
0·50	0·007	0·003
0·45	0·010	0·005
0·40	0·014	0·007
0·35	0·020	0·010
0·30	0·028	0·014
0·25	0·040	0·020
0·20	0·060	0·029
0·15	0·088	0·044
0·10	0·142	0·070

The certificates furnished from Kew Observatory for all barometers verified there, give the results of direct readings of the column at different heights, and so include the three corrections above mentioned, in so far as any of them are applicable to the special barometer under consideration.

Temperature correction.

Correction for Temperature, or *reduction to* 32° F.—All bodies are affected in their dimensions by heat; with few exceptions they expand when their temperature rises and contract when it falls, and it is therefore necessary, in taking any accurate measure of the length of any object, to know at what temperature the measure was made, in order that we may know what the length would have been at some definite temperature, which is taken as the standard temperature. In the case of barometers this standard temperature is 32°, and accordingly, speaking in general terms, when the barometer is at a temperature below 32° the correction is additive (+), and when it is above 32° it is subtractive (−).

Table I., p. 82, gives the corrections for barometers with brass scales, and it will be seen from it that the sign of the correction changes from + to − at the temperature of 29°, as the formula given at p. 80 gives negative results for three degrees below 32°.

The temperature of the barometer is given by the attached thermometer (p. 15), of which the bulb is so placed as to

Temperature correction.

give as accurately as possible the true temperature of the actual column of mercury.

The pressure is given in the table for each half inch from 24 to 31 inches, as of course the correction depends on the length of the column of which the temperature is given by the attached thermometer.

In consequence of the great risk of the heat of the observer's person affecting the thermometer attached to the instrument during the process of taking a reading of the barometer, the attached thermometer is always to be read first of all, before the reading of the barometrical column is made.

Altitude correction.

Correction for Altitude, or *reduction to Sea Level.*—As the barometer measures the pressure of the atmosphere, it is evident that if that pressure be increased or diminished, the length of the barometrical column will become greater or less. If we suppose the air to be homogeneous and to rest on the surface of the earth as an outer shell of uniform thickness, it is evident that if we ascended a mountain there would be a less thickness of this shell of air above us, and therefore a less pressure, and *vice versâ* if we went down a mine there would be a greater pressure.

Accordingly, as we have seen that the barometrical readings must be reduced to a standard temperature, to make them intercomparable, they must also be reduced to a standard level, and that is the mean level of the sea. For the British Isles the mean sea level at Liverpool has been selected by the Ordnance Survey as their datum. It is always best to determine the altitude of a station by reference to the nearest Ordnance Bench Mark.

The problem of correction for altitude is, however, not so easy as would appear from what has just been said. For simplicity we shall deal only with heights *above* sea level, as by far the most important to us :—The difference in pressure for which the correction has to be applied is for the heights of the vertical column of air which would extend from the level of the station to that of the sea. But the weight of this column differs according to its tem perature, being greater if the air is cold than if it is warm. We must therefore take into account the temperature of the air at the time, and Table II., p. 84, gives the corrections for every ten degrees, from −20° to 100°, which are about the limits within which barometrical observations are usually made. This temperature must be taken from the dry bulb thermometer, not from that attached to the barometer.

We see also from the explanation of the table given at p. 80, that as the formula enables us to find the proportion which the pressure of the atmosphere at the upper station bears to that at the sea level, the correction will vary according to the amount of that pressure at the sea level, so that two tables are given for the extreme limits of pressure which are likely to occur at the sea level, viz., 30 and 27 inches, and the corrections for intermediate readings must be obtained by interpolation.

Specimens of the mode of correcting and reducing barometer readings are here subjoined.

Correction of readings.

Firstly, if the barometer has a Kew correction, as this includes the corrections for index error, capacity, and capillarity, we proceed as follows:—

Suppose that—		Then we have—	
Barometer reading	= 29·946 ins.	Uncorrected reading	= 29·946 ins.
Attached thermometer	68°	Add for Kew correction	+ ·014
Kew correction for instrument	= + ·014 in.	Reading	29·960
Temperature of air by dry bulb	= 50°	Deduct temp. correction for 68° and 30 ins.	− ·106
Altitude of cistern above the mean sea level	= 105 ft.	Reading at 32° F.	= 29·854
		Add for altitude of 105 ft. at temp. of air 50° and *approximate* pressure at sea level 30 ins.	+ ·116
		Reading corrected and reduced to 32° F. at Mean Sea Level	= 29·970 ins.

Secondly, if the barometer requires all the five corrections above enumerated.

We have then the following data:—

Correction for index error of instrument = + ·005 in.
Capacity correction $= \frac{1}{50}$, neutral point being 29 ins.
Capillarity correction = + ·002 in.
Altitude of cistern above sea level = 200 ft.

Let the reading of the barometer be 29·812, and of the attached thermometer 63°, while the temperature of the outside air is 60°.

Then we have:—

Barometer as read off	29·812 ins.
Add for capillarity	+ ·002
„ „ capacity $\cdot 812 \times \frac{1}{50}$	+ ·016
" index error	+ ·005
	29·835
Subtract for temperature of attached thermometer, 63° barometer being 29·8 ins.	− ·092
Reading at 32° F.	29·743
Add correction for altitude of 200 feet (temperature of air being 60°, and *approximate* pressure at sea level 30 ins.)	+ ·215
Reduced and corrected reading	= 29·958 ins.

Measurement of heights.

Barometric Measurement of Heights.—It is scarcely necessary to say that the same principles as enable us to ascertain the barometrical reading at one level from that at another, when the relative heights of the two stations are known, will enable us conversely, to determine the difference of height between two stations if we know the barometrical readings and the temperature taken at each. *In other words, we can determine the height of a mountain by barometrical readings* taken on the summit and at the sea level.

These readings ought to be taken at the same time, because it is not likely that the pressure and temperature of the air will remain unaltered while the ascent is being carried out.

There is a very important matter to be taken into consideration in respect of these calculations. The barometer is not at the same height at the sea level all over the earth's surface at any time, and even over the limited area of the British Islands the mean barometrical reading varies considerably, from 29·811 ins. at Nairn to 29·982 ins. at Plymouth (Quarterly Weather Report, 1870, App. II. p. [10]), while on individual days the differences of pressure may be far greater, amounting to an inch or more. Accordingly, as for stations in the interior of a country it is impossible to take a reading at the sea level in the immediate neighbourhood of the station whose level we have to determine, and we have to employ the means of a series of readings at the two stations, in order to avoid the risk of error from sudden changes of weather affecting the barometrical readings, we must not expect that the ascertained heights of the same mountains referred to different sea-coast stations will agree exactly with each other.

Hence we see that in the case of the barometrical measurements of elevations in the interior of continents, or of the heights of really high mountains, there are several elements of greater or less uncertainty, and accordingly such determinations cannot be so trustworthy as those for moderate elevations and for slight distances from the sea coast, which are all that is required for the purposes of barometrical readings in these islands.

THE THERMOMETER.

General Description of the Instrument.

The thermometer consists of a long glass tube, of very small bore, closed at one end and blown out at the other into a bulb or reservoir, which is filled with mercury or some other liquid. The temperature to which the instrument is exposed from time to time is indicated by the expansion of this liquid, and is measured by the length of the thread of liquid which extends from the bulb into the tube.

There are two points on the scale of a thermometer fixed by reference to natural phenomena, that at which water boils, and that at which ice begins to melt. These are called respectively the boiling and the freezing point. The scale is divided into *degrees.*

Thermometer scales.

In the thermometer which is used in England and its colonies and in the United States, namely, that designed by Fahrenheit, the distance between these points on the scale is divided into 180 degrees. The point at which ice melts is 32 degrees, and that at which water boils, when the barometer is at 29·905 inches,* is 212 degrees.

In the Centigrade thermometer (designed by Celsius), the distance between the same fixed points is divided into 100 degrees. The point at which ice melts is 0°, and that at which water boils, when the barometer is at 760 millimetres, is 100 degrees.

In Reaumur's scale, formerly much used, especially in Germany and Russia, the distance between the same points is divided into 80 degrees. Here too the freezing point is 0°; but the boiling point is 80°.

In both the two latter scales all temperatures below the freezing point have a "minus" sign prefixed to them. Thus — 10° C. or R. indicates 10° below the freezing point on either the Centigrade or Reaumur scale.

In the case of the Fahrenheit scale the zero is 32 degrees below the freezing point, so that the "minus" sign is seldom used for temperatures occurring in the United Kingdom. The Fahrenheit and Celsius scales agree at $-40°$.

Of these scales, Reaumur's, which was formerly very common, is now rapidly falling out of use, owing to the very general adoption of the Centigrade system.

Inasmuch, however, as all three scales are in existence and occasionally met with, it is well to know the following rules for converting readings according to one into readings according to either of the others.

* The reason for saying "when the barometer is at 29·905 inches," is that the pressure of the atmosphere exerts a great influence on the boiling point of a liquid; thus, for water, a difference of pressure of one inch above or below 30 inches would raise or lower the boiling point almost exactly 1°·7 F., *e.g.* if the barometer is at 29 inches, the boiling point is about 210°·3.

To convert Fahrenheit readings to Centigrade.

Thermometer scales.

Subtract 32 and multiply the remainder by $\frac{5}{9}$

$$e.g.\ 68°\text{F.} = (68-32) \times \frac{5}{9} = 20°\text{ C.}$$

To convert Fahrenheit readings to Reaumur.

Subtract 32 and multiply the remainder by $\frac{4}{9}$

$$e.g.\ 68°\text{ F.} = (68-32) \times \frac{4}{9} = 16°\text{ R.}$$

To convert Centigrade readings to Fahrenheit.

Multiply by $\frac{9}{5}$ and add 32.

To convert Reaumur degrees to Fahrenheit.

Multiply by $\frac{9}{4}$ and add 32.

To convert Centigrade to Reaumur.

Multiply by $\frac{4}{5}$.

To convert Reaumur to Centigrade.

Multiply by $\frac{5}{4}$.

Tables VI.–VIII., pp. 96–103, give comparisons of the various thermometrical scales in use.

The thermometers used in meteorological observations are of various kinds: Standard Thermometers, Ordinary Thermometers, Registering Thermometers, Self-recording Thermometers, and thermometers fitted for special purposes, such as Radiation Thermometers.

Standard Thermometers.

Standard thermometers.

A standard thermometer is a thermometer made with especial care, and is employed for the purpose of testing from time to time the accuracy of thermometers used for ordinary observations.

The air thermometer is theoretically the most perfect standard instrument for the determination of temperature, but we need hardly mention it as it is not suited for use in ordinary meteorological observations.

Under these circumstances, it is hardly necessary to say that standard thermometers are usually mercurial, inasmuch as between the two fixed points on the scale to which allusion has been made above, and for a considerable range on either side of them, the expansion of mercury is almost absolutely uniform. The tubes themselves are selected with great care in order that they may be of uniform bore throughout, and that the size of the bulb (which is usually elongated) may be so proportioned to the calibre of the tube that a good open scale may be provided, as well as an extended range.

Every observatory of importance should possess one of these instruments, which should range from a point lower than any which is likely to occur in the severest frost, up to the boiling

Standard thermometers.

point of water,* in order to afford the possibility of testing at any temperature the thermometers used for ordinary observations. However, in places liable to very extreme cold, such as occurs in British North America, mercurial thermometers are not capable of indicating the lowest temperatures which are experienced, inasmuch as mercury freezes at the temperature of $-37^{\circ}\cdot9$ F. For these places spirit thermometers must sometimes be employed, although for various reasons, such as the absence of uniformity in its rate of expansion, spirit is ill fitted for use as a standard thermometric fluid.

Construction of Standard Thermometers.—All standard thermometers must be graduated independently of any other thermometers, the tube being carefully calibrated and the graduation effected according to the principles laid down in the text books of physics. Moreover, owing to the fact that glass after having been fused does not immediately return to its natural condition of density, it is necessary to select for standard thermometers only such tubes as have been lying by for several years after being filled. The contraction of the bulb causes the thermometers to read too high, and this defect in a thermometer is called "the displacement of zero." After some time, however, the bulb ceases to shrink, and the indications of the instrument are thenceforward constant.

Standard thermometers should not be used for regular meteorological observations, but should be kept for the purpose of comparison with the other thermometers used for the observations.

Verification of thermometers.

Verifications.—All persons in purchasing thermometers, or in fact any meteorological instruments, should demand a certificate of their accuracy at various points on the scale as determined at some recognised scientific establishment, such as Kew Observatory; the addition to the cost of the instrument is very slight, and quite out of proportion to the security afforded to the purchaser. The usual Kew certificates give the errors at every ten degrees from 32° to 92°, but if required the instrument can be tested at higher or lower temperatures.

The limits of accuracy enforced at Kew for thermometers for the use of the Meteorological Office are as follow:—All thermometers are rejected for which the largest error at any point is greater than $0^{\circ}\cdot3$ Fahrenheit, or for which any space of 10° F. is more than $0^{\circ}\cdot3$ F. wrong.

Ordinary Thermometers.

These should be, of course, mercurial, and range from rather below the lowest to a little above the highest temperatures to be expected at the locality where they are used. Thus in the British Isles a range from about -10° or -15° to 100° is ample, but in more extreme climates the upper limit should be somewhat higher, while the graduation should extend in some cases even

* The reason of saying "up to the boiling point of water" is that every independent standard thermometer must at least extend to the full range of the two fixed points on the scale.

Thermometer range.

down to the freezing point of mercury, and spirit thermometers should be kept for use during the coldest period of the year.

All thermometers, without exception, should be graduated on the stem, and should possess a certificate of verification as already explained. Owing to the very general prevalence of the defect already referred to, the displacement of the zero, which only betrays itself after the lapse of some time, it is advisable, at least once a year, when opportunity offers, to determine the freezing point of water on the thermometers by immersing them in melting snow or ice as directed in the text books.

It is also necessary that great care should be taken to ensure that the quality of the earthenware, or other material, used for the slab to which the thermometer is attached, should be thoroughly good. If the earthenware be not properly glazed it is likely to absorb moisture, and then, when frost occurs, it becomes disintegrated, the surface scales off, and the whole becomes utterly useless.

Registering Thermometers.

These are thermometers which are provided with an arrangement which enables us to ascertain what has been the highest or lowest temperature to which they have been exposed in a given interval of time. There are a great many types of such instruments, but only a few of these, which are in general use, will be described.

Hours of observation of registering thermometers.

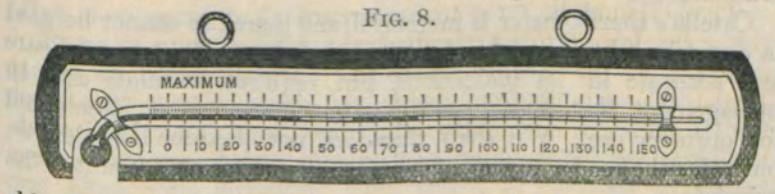
Under ordinary circumstances these instruments are read once a day. The observing hour ought to be midnight, if we wish to ascertain the highest and lowest temperatures experienced during the civil day, but as a midnight observation is not possible at ordinary stations, the Vienna Congress decided to recommend that these readings should be taken at the latest observing hour of the day. This hour is accordingly 9 p.m., for the British Isles, as will be seen by reference to p. 75.

Phillips' Maximum Thermometers.

Maximum Thermometers.—There are two kinds of maximum thermometers, which deserve nearly equal commendation, Phillips' and Negretti and Zambra's.

In Phillips' thermometers the index is formed by a small portion of the mercurial column, separated from the main thread by a minute air bubble, and is pushed on before the column when it expands, but does not return with it when it contracts. It therefore rests at the extreme position to which it has advanced, and the end furthest from the bulb registers the highest temperature which has been attained. Thus the maximum temperature recorded by the instrument shown in Fig. 8 is 78°. The chief

Fig. 8.



objection to this form of thermometer is that in some cases the bubble of air is displaced, and the instrument then loses its registering properties and becomes an ordinary thermometer.

Negretti's Maximum Thermometer.

The plan of Negretti and Zambra's thermometer is simple, and the instrument is less liable to get out of order than the preceding. For these reasons it may be considered preferable for ordinary use. The registration is effected by the mercurial column itself in the following manner:—The bore of the thermometer tube is reduced in section close to the bulb in such a way that while the expansion of the mercury is sufficient to force the liquid past the obstruction, the cohesion of the metal is insufficient to draw it back again when the temperature falls.

Accordingly, if the instrument be set on any day so as to agree with an ordinary thermometer, and be examined after a time, when the temperature has risen above that which was prevailing when the setting took place, but which does not still exist, the amount of mercury in the tube above the contraction will represent the precise amount of mercury forced past the contraction when the temperature was highest, and thus will measure that temperature. The thermometer should be *slightly* inclined, bulb downwards, before reading, so as to let the separated portion of the column flow gently back to the contraction.

In order to set this thermometer, it should be held, bulb downwards, and shaken. The weight of the separated mercurial column will have the effect of causing all the superfluous mercury to return, past the contraction, into the bulb, and the instrument will soon come to indicate the same temperature as that of the air, and will therefore be ready for use again.

If the hands are not kept away from the bulb during the process of setting, it will not be possible to set the instrument so as to show the true temperature of the air.

Great care is required in making these thermometers to ensure that the contraction of the tube shall be neither too great nor too slight. If the former be the case, there will be difficulty in setting the instrument; if the latter, the indications will not be trustworthy, as some of the mercury may be drawn back past the contraction when the temperature falls.

In any case great care is required in placing a registering thermometer on its stand; each instrument usually requires to be hung at a certain angle, which generally differs very slightly from horizontality, but still it is necessary to determine by trial and error the precise position in which the instrument will best discharge its functions.

Minimum Thermometers.—There are two kinds of minimum thermometers in use in this country, Casella's and Rutherford's.

Casella's Minimum Thermometer.

Casella's thermometer is mercurial, and therefore cannot be used in countries where very low temperatures occur. It is very delicate and accurate in its indications, but requires so much care in management that it is generally admitted to be but ill-adapted for ordinary use. We shall, therefore, not describe it at length, but refer the reader to the maker's catalogue for an account of its principle.

Rutherford's Minimum Thermometer.

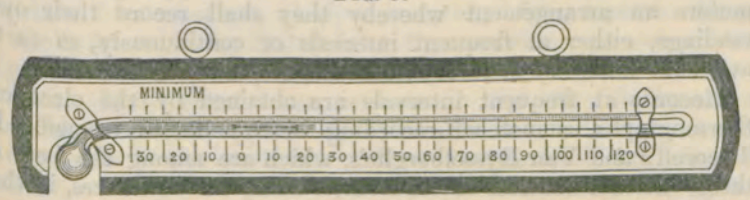
Rutherford's minimum thermometer is a spirit thermometer whose index is metallic and moves with a little difficulty in the

Rutherford's Minimum Thermometer.

tube. It is entirely enveloped in the spirit, and the action is as follows:—

The index is allowed to run down to the end of the column by sloping the thermometer with the bulb uppermost and when so set is placed in a nearly horizontal position. If the temperature rises the spirit flows past the index without disturbing it. If, however, the temperature falls below that at which the instrument was set at

Fig. 9.



starting, the force of capillary attraction between the spirit and the index is such as to preclude its leaving the index dry, and accordingly this is drawn back with the spirit, its upper end being always flush with the extremity of the column while this is receding, and ultimately marking the lowest temperature reached by the column, as when the temperature rises the index is left behind again. The minimum temperature shown by the instrument in the figure is 17°.

Defects of spirit thermometers.

These thermometers are liable to a serious defect, owing to the fact that a portion of the spirit becomes volatilized and is then condensed in the upper end of the tube, so that the continuous column is curtailed by a length of perhaps several degrees. It is to this liability to error of spirit minimum thermometers that some of the extraordinary discrepancies in reports of severe cold are probably to be attributed.

If a spirit thermometer reads lower than a correct mercurial thermometer close beside it, there is reason to suspect the existence of the defect above mentioned. The spirit is also liable to become broken into several detached portions, especially if the instrument is being transmitted from place to place; or the index may be shaken entirely out of the spirit into the upper part of the tube. In all these cases the thermometer should be swung briskly to and fro several times, holding it bulb downwards, until all the liquid which may have been visible at the upper end of the tube shall have been dislodged. The instrument should then be placed in an upright position, bulb downwards, and left there for half an hour or so. This treatment will usually have the effect of restoring to the instrument its correctness of indication.

Sensibility of spirit thermometers.

There is a great difference between mercury and spirit with regard to sensibility, the former liquid having a much lower specific heat and much higher conductivity than the latter. Accordingly a spherical bulb filled with spirit does not indicate sudden changes of temperature with nearly the same rapidity as one filled with mercury. This defect is obviated by making the bulb of the thermometer of such a shape that as large a surface of the spirit is exposed to the action of the air as

possible. Various patterns of minimum thermometers with forked or cylinder shaped bulbs, &c., have been brought out, which are quite as sensitive as mercurial thermometers of the ordinary form, and are strongly recommended for use, in preference to those of the usual pattern.

Self-recording Thermometers.

Thermographs. Various methods have been proposed for adapting to thermometers an arrangement whereby they shall record their own readings, either at frequent intervals or continuously, so as to avoid the necessity of close attendance of the observers.

Records at frequent intervals are obtained by the electrical thermographs, as such self-recording instruments are termed. In Theorell's and Van Rysselberghe's, which are among the best of these, the thermometer differs from ordinary thermometers, in that the tube is open at the upper end, and a wire is introduced into it, which, by a clock-work arrangement, is caused at frequent intervals to descend until it touches the surface of the mercury. As soon as contact is established, an electric current is set up and a record is obtained. The wire is then raised again and the contact is broken.

An example of the continuous method of record is the photographic thermograph, adopted by the Meteorological Committee at their observatories, which is described in their Report for 1867. In this instrument a bubble of air is introduced into the column of mercury, and this moves up and down with the temperature, as the bore of the tube is larger than in Phillips' maximum thermometer, in which the separated portion does not return towards the bulb on a fall of temperature.

A lamp is placed before the instrument and a photograph of the space occupied by the air bubble is taken on prepared paper, which is stretched on a drum and caused to revolve once in 48 hours.

In the thermograph in use at Greenwich, the light is allowed to pass through the open space in the column, above the mercury, so that the length of the photographic impression varies with the height of the thermometrical reading. This is a principle somewhat similar to that in use in the Kew Barograph, p. 26.

Thermometer Exposure.

The exposure of thermometers is confessedly one of the most difficult questions in Meteorology, and we are as yet far from a satisfactory solution of it. In fact, the readings of thermometers are so liable to be affected by other influences than that of the mere temperature of the air, that we are very likely, in avoiding some of these agencies, to expose the instruments to others.

It may be assumed as certain that the conditions of exposure for thermometers which will suit an insular climate like that of the British Isles, will not suit extreme climates like those of Canada or India.

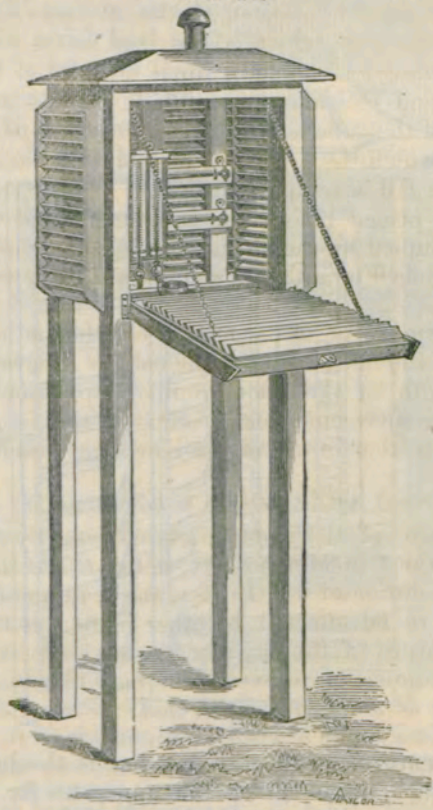
In very cold climates many observers perforce adopt the exposure of their thermometers in a simple screen attached to the wall

of the house, where the instruments can be read through a window without the necessity for the observer of going out of doors at each time of observation. This method is only a make-shift, but the choice lies between such observations and no observations at all.

Stevenson's Screen.—It is unnecessary to remark that a free exposure, whenever the same is attainable, is by far the best for thermometers, but there is a great difference of opinion as to the precise form of screen which is best suited for adoption. On the whole, for use in the British Isles, Stevenson's screen seems to be as good as any hitherto proposed, though it too is capable of improvement. This form of screen is shown in Fig. 10. The louvres are double, sloping in opposite directions, so that while there is access of the air to the inside, the radiant heat and rain are effectually excluded. Its chief defects are its small size, and its liability to be choked occasionally by drifting snow, owing to the closeness of the louvres which form the sides, which also checks the free circulation of the air round the instruments. Thermometer exposure.

This screen should be erected on legs 4 feet high, and should stand over grass on open ground. It should not be under the shadow of trees nor within 20 feet of any wall.

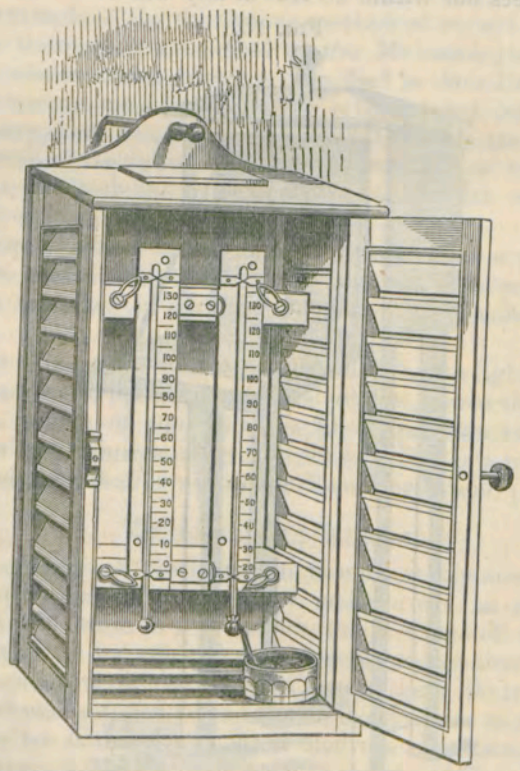
Fig. 10.



Wall Screens.—The method of wall exposure is necessarily adopted at several telegraph stations and in towns, when an open

Wall screen. space for a free standing screen cannot be obtained, and it has the merit of cheapness, and of some approach to accuracy. It is also the method adopted on board ship. A small covered case, Fig. 11, is placed at a height of about 4 feet from the ground on a wall which faces due north, if possible. In such a position it cannot receive the direct rays of the sun in these latitudes, except for a few hours in the early mornings and late evenings in summer. The screen should be fixed on holdfasts so that there may be a space of several inches between the back of the screen and the wall; care must, however, be taken that there is free circulation of the air about the screen, and that there are no walls or other objects in front which could reflect much heat to the instruments. The screen should also be carefully sheltered from the sun's rays. The readings of thermometers so exposed are found to differ from 0° to 5° (according to the size of the building, and the state of the weather) from those of similar instruments exposed in a Stevenson's screen in open ground. In fact this screen should never be used if there is a possibility of employing a free standing screen, such as that shown in Fig. 10.

FIG. 11.



A wall exposure of some sort or other is absolutely necessary for a thermograph, inasmuch as the apparatus for registration is of a delicate nature, and must be adequately protected against weather, and against changes of temperature, otherwise disturb-

ances will be introduced which may seriously interfere with the correctness of the record.

It is evident that the necessity of arranging the thermograph so as to correspond to some floor of a building precludes the possibility of being able to ensure that the bulbs shall be in all places at the same height above the ground, as it is not possible to erect special buildings for meteorological observatories at all stations.

Sling Thermometer (*Thermomètre fronde* of the French).— In order to meet this difficulty about thermometric exposure, it has been suggested to dispense with the use of screens altogether, and to measure the temperature by means of a thermometer attached to a string, and swung round for about half a minute. By this method, *even in full sunshine*, a very close approximation to the true shade-temperature of the air may be obtained. This mode of determining temperature has not as yet been much used in England, but it seems advisable to mention it in this place. *Thermomètre fronde.*

RADIATION THERMOMETERS.

Practically the sun's rays are the only source whence heat reaches the earth's surface, and Radiation from the earth into space the only mode in which heat is again lost. Radiation.

Any attempt to measure the intensity of these two forces must therefore be regarded *à priori* as of the greatest importance to meteorology. In practice, however, the irregularities arising from the distribution of heat by winds greatly complicate the problem of deducing the climate of any place from the relative effects of Solar and Terrestrial Radiation, especially in insular positions.

It is only in the interior of great continents that any great degree of regularity in the climate occurs, because there alone are the changes, in the main, directly due to Radiation.

Furthermore, as meteorologists have generally contented themselves with observing the climate actually produced in preference to troubling themselves with any attempt to gauge the forces which produce it, it will not be surprising to find that the solution of any such problem as that indicated seems almost indefinitely distant.

Scarcely any of the methods employed for measuring solar or terrestrial radiation are thoroughly satisfactory.

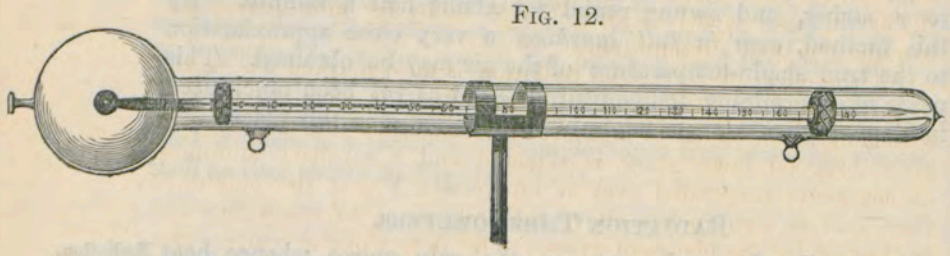
Solar Radiation.—The best instrument hitherto brought into use for measuring solar radiation is known as the "blackened "bulb thermometer *in vacuo*." It consists of a sensitive thermometer (which is usually a maximum thermometer, for convenience of registration), having the bulb and one inch of the stem coated with dull lamp black.* The whole is then enclosed in a glass tube, of which one end is blown out into a bulb of about 2·25 ins. diameter, Solar Radiation.

* The object of coating part of the stem is to prevent the temperature of the blackened bulb being lowered by contact with the cooler glass of the unblackened stem.

Solar Radiation. enclosing the bulb of the thermometer, which is fixed in its centre. The glass jacket, so constructed, is then exhausted of air by a good air-pump and permanently closed.

It is evident that as the action of this instrument depends in some measure on the completeness of the vacuum, it is not sufficient simply to test the thermometer which is to be enclosed in the envelope. It is necessary to have some independent method of gauging the amount of rarefaction which has been attained. This may be done in various ways: Messrs. Negretti and Zambra introduce a mercurial pressure gauge into the vacuum, while Mr. Hicks has soldered platinum wires into the glass (Fig. 12), and tests the state of the vacuum by the passage of the electric light.

Fig. 12.



The instrument is then freely exposed to sun and air by fixing it horizontally at the same height above the ground as that at which the shade thermometers are placed. This is usually 4 feet. It must be at a distance from walls or trees or any objects which may obstruct or reflect the full rays of the sun. The bulb is usually directed to the S.E.

If, however, the thermometer be a maximum thermometer on Negretti's principle (p. 38) it may with advantage be placed in a vertical position with the bulb uppermost.

The reading of such an instrument depends on the elevation of the temperature at which equilibrium is established between the heat produced by the direct rays of the sun and the cooling produced by the radiation of heat from the bulb to the external jacket. The jacket has a temperature depending upon, and differing but slightly from, that of the air surrounding the instrument. It follows, then, that the excess of this temperature of equilibrium over that of the outer jacket is an *exact* measure, and its excess over that of the outer air is a closely *approximate* measure, of the power which the sun's rays, acting through glass, have exerted upon the bulb; hence, the following instructions:—

Rules for observing.

Observe the maximum temperature registered by the solar radiation thermometer, subtract from this the maximum temperature of the air in the shade, and the result indicates approximately the greatest amount of radiation which has occurred during the day.

It has also been suggested to expose alongside of the black bulb *in vacuo* a similar thermometer also *in vacuo*, but with its bulb bright, and to register the difference between the readings of the two instruments.

The result obtained by these readings is quite irrespective of the duration of sunshine, or of the sun's altitude. Both of these elements must be taken into consideration before the effect of solar radiation upon climate can be traced. The sun's altitude is of course known, but some good method of recording the duration of sunshine, or the total amount of heat received, is much needed.

Terrestrial Radiation.—All objects exposed to the sky radiate heat towards it. If the sky be overcast much of the heat thus radiated is returned, as the clouds, though generally colder than objects on the earth's surface, are very much warmer than space. Even if the sky be clear the vapour contained in the atmosphere has the power of retarding the escape of heat from the earth, consequently a dry climate is by far more favourable to radiation than a damp one. Terrestrial Radiation.

As the effect of terrestrial radiation is most marked where the disturbing influence of wind is least felt, it is usual to place a thermometer intended to measure radiation upon the ground. A piece of good lawn grass is selected and a sensitive minimum thermometer suspended over it on wooden Y's, at the height of from one to two inches above the soil, so as to touch but not be buried in the blades of grass. The defect of the temperature so registered, below the minimum in the air, is taken as the amount of terrestrial radiation.

The indications of a thermometer so placed are much influenced by the temperature of the soil, from which it is more or less insulated, according to the length and thickness of the grass interposed, so that a thermometer over long grass reads lower than one over shorter grass, in the heat of summer as well as in winter. In severe frost, if the ground be not covered with snow, a thermometer placed upon short grass will fall very little below the temperature of the air, on account of the heat received from the soil. For this reason, whenever snow is lying, the radiation thermometer should be placed on its surface.

Moreover, it is found that a lower temperature is usually marked over a large grass plot than over a small one, because the cold air resting on the latter is liable, at the slightest breath of wind, to be replaced by that which has been resting on some surface which is a less powerful radiator.

Where no grass can be obtained the thermometer should be placed on a large black board laid upon the ground. Under any circumstances a board gives a better measure of terrestrial radiation than grass; a small groove may be cut in it to receive the bulb and prevent the thermometer from rolling.

It is much to be desired that some convenient method should be devised by which correct and comparable observations of radiation may be secured.

HYGROMETRY.

General Description of the Instrument.

There are various kinds of hygrometers, the observations of the amount of moisture in the air being taken in a direct, as well as in an indirect, manner.

The most important instruments for *direct* observations are Daniell's and Regnault's, both of which require the employment of ether to lower artificially the temperature of the instrument.

Direct Hygrometers.

Daniell's Hygrometer consists of two bulbs connected together by a tube. One bulb is of black glass, the other of clear glass and coated with muslin. The liquid within the bulbs is ether, which has been made to boil when the instrument was sealed, so that all air should be expelled. The instrument will then act in a similar way to Wollaston's Cryophorus, and if a difference of temperature be produced between the two bulbs all the liquid will be transferred from the warmer to the colder bulb.

The mode of taking an observation is the following:—The whole of the ether is caused to enter the black bulb, and a little ether is dropped on the muslin covering of the clear bulb. The evaporation of this ether lowers the temperature of this clear bulb, and causes the ether in the black bulb to distil over into the clear one. This process has the effect of lowering the temperature of the black bulb, and as soon as ever this reaches the temperature of the Dew point, the vapour in the air begins to be condensed on the outside of the black bulb, and dulls it by the formation of a ring of minute globules of water. The temperature at which this takes place is indicated by a thermometer which is placed inside the instrument, with its bulb within the black bulb.

Regnault's Hygrometer is rather more complicated than the foregoing. It consists of a glass tube silvered on the bottom and for a short distance up. The tube is intended to contain ether, and is closed at the top by a cork pierced by two holes. Through one of these a thermometer passes, so that its bulb reaches to the bottom of the silvered tube, while the other opens a communication between this tube and an aspirator or air-pump.

The mode of observing is to introduce some ether into the silvered tube, replace the stopper, and then, by mechanical means, withdraw the ether vapour from the tube. The temperature of the remaining contents of the tube falls quickly, and ultimately the vapour present in the air begins to be condensed on the silver as soon as the dew point is reached. The temperature at which this phenomenon takes place is indicated by the thermometer.

These instruments accordingly give the dew point by direct observation, but the latter is by far the more trustworthy. Both of them require very great care in manipulation, especially the former.

There are two great classes of *indirect* hygrometers, viz., organic hygrometers and the psychrometer, or wet and drybulb hygrometer.

Hair Hygrometers.

Organic hygrometers are instruments which indicate the amount of moisture in the air by the behaviour of some organic substance. Thus cords contract in wet and stretch in dry weather. The only hygrometer of this character worth notice is Saussure's hair hygrometer, which shows the humidity of the air by means of the alteration of length of a hair. Hair, conversely to cord, stretches when it is moist, and contracts when dry. This instrument is but little used in these islands, but as it has been generally recommended by the Vienna Congress, for use in extreme climates when the indications of the psychrometer are either uncertain or entirely astray, it seems necessary to allude to it here.

Wet and Dry Bulb Hygrometer.

Wet and Dry Bulb Hygrometer.—The psychrometer of August, or as it is usually called in this country, "Mason's," or the wet and dry bulb, hygrometer, is by far the most convenient instrument for use under ordinary circumstances. This is represented in Fig. 11, p. 42.

The instrument consists of two thermometers, the bulb of one of which is coated with muslin and kept moistened with water. The principle of its action is that, as long as the atmosphere is not saturated with vapour, evaporation will take place from any free water surface, such as the moist coating of the wet bulb. If then the air be saturated, no evaporation is possible, and the two thermometers, the dry and the wet bulb, will read alike. If the air be not saturated, the coating of the damp bulb will give off vapour, and the temperature of that thermometer will fall until a certain point is reached, intermediate between the temperature of the air and the dew point; below this temperature the wet bulb thermometer will not fall, unless the temperature of the air falls, or the air becomes drier, but it must be remembered that the temperature of this thermometer will begin to rise again if the muslin coating of the bulb begins to get dry, owing to a deficient supply of water, or if the supply be too copious and the coating too wet.

Fig. 13.

The usual mode of regulating the supply is to keep a small reservoir of water close to the damp bulb, and to establish a connexion from the one to the other, by means of a few threads of worsted or lamp cotton, as shown in the figure. The worsted should be long enough to reach a few inches below the lowest part of the bulb, and should be carried down so as to dip in the vessel of water when it will act as a capillary syphon, and keep the bulb constantly moist.

The management of this instrument requires some special precautions. In the first place, the covering of the wet bulb must be very thin, else there is danger that true thermic equilibrium will not be established between the outside of the coating

Management of wet and dry bulb Hygrometer.

where the evaporation is going on and the actual bulb. In the second place, the supply of water must be very carefully regulated, so that the bulb shall be constantly moist, and yet not too wet. Accordingly we ought to have a more ample supply in dry weather than in damp, or we shall find that on a hot summer's day the worsted becomes perfectly dry, and no longer acts as a syphon, the bulb itself becoming dry; while if a sufficiency of water be provided to meet such an emergency, there will be a brisk drip going on from the damp bulb in damp weather, which is certainly wrong.

The cup, glass, or other small holder of water ought not to be under or too near the dry thermometer. The little reservoir should be placed at some distance on the off side of the wet thermometer, that is, as far as possible from the dry, which should not receive moisture from any source whatever. Of course if moisture be found on the dry bulb, this should be wiped and left for a while to assume the true temperature of the air. The water for the wet bulb should be either distilled or rain water, or, if this be not procurable, the softest pure water which can be had, to avoid the inconvenience of the deposit of lime, &c. on the bulb. The water vessel should be replenished *after*, or some *considerable time before*, observing; because observations are incorrect if made while the water is warmer or colder than the air.

The muslin and worsted should be well washed before being applied, and occasionally while in use. They should be changed once or twice a month, or even oftener, according to the quality of the muslin, &c., and the exposure to *dust* or *blacks*. Accuracy depends much on the care taken for cleanliness, and a proper supply of fresh water.

Management in frost.

The great difficulty with the instrument is found at a time of frost. The water on the worsted freezes, and the capillary action is at an end, so that the bulb soon becomes as dry as in hot weather. If then the temperature be below the freezing point it is obvious that water cannot be placed on the coating of the wet bulb without raising the temperature of the instrument. The thermometer will not be fit for an observation until the freshly-added water has become frozen and the temperature of the thermometer has ceased sinking. At such a time the evaporation will be going on from the surface of the ice, and the thermometer will act in the same way as if it had a damp bulb.

This shows us, however, that in winter it is quite impossible to maintain a *constant* supply of water to the wet bulb, and this form of hygrometer is practically useless for *self-recording* purposes in cold weather.

When the damp bulb is frozen it should be wetted, by means of a camel-hair brush or a feather, with some cold water taken from under ice, care being taken to raise its temperature as little as possible. After waiting a few minutes, the moisture will first freeze, then cool down to the temperature of the air, and finally the thermometer will fall a trifle lower than the dry one, and then the temperature of evaporation may be noted.

In time of hard and continued frost, if a coating of ice be allowed to form on the coating of the damp bulb, this will remain for several days before the bulb will become dry again.

In some rare cases, *e.g.* during thick fog or in very cold calm weather it may sometimes happen that the wet bulb reads *above* the dry bulb. This arises from the fact that when there is no loss of heat by evaporation its muslin coating prevents its indicating the temperature of the air as correctly as the unprotected bulb. In such cases the readings are to be considered as identical with each other, the air being perfectly saturated.

Theory of wet and dry Hygrometer.

The theory of the psychrometer has been very thoroughly investigated by Prof. Apjohn (Trans. R. I. A., Vol. XVII.), who gives the following equations:—

$$f' = f - 0.01147\,(t - t')\frac{p - f'}{30.}$$

Where f'' is the tension of aqueous vapour corresponding to the dewpoint.

f' is the tension corresponding to the reading of the wet bulb.

t is the temperature of the dry bulb.

t' „ „ wet „

p is the reading of the barometer.

The fraction $\frac{p - f'}{30}$ differs little from unity, and as it is multiplied by a very small factor the difference may practically be neglected, so that the formula becomes—

$$f'' = f' - \frac{t - t'}{87}$$

For temperatures below 32° this formula becomes—

$$f'' = f' - \frac{t - t'}{96}$$

These formulæ require the use of tables of Tension of Aqueous Vapour, and as it is troublesome to calculate afresh for each observation, tables have been compiled which give the dew point by inspection.

The best tables at present in English measures are Glaisher's (5th edition), which have been constructed empirically from direct experiments carried on at Greenwich, combined with Regnault's tables of the Elastic Force of Aqueous Vapour, &c.

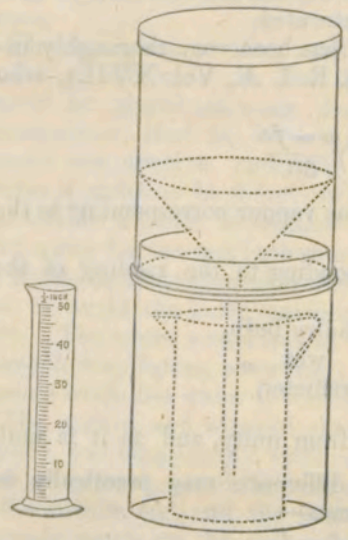
These tables are reasonably accurate for the conditions usually prevalent in the United Kingdom, but they are entirely insufficient when we have to deal with very dry climates, such as those sometimes found in India. For such circumstances accurate hygrometrical tables in English measures are yet wanted.

THE RAIN GAUGE.

Rain gauge.

Form and Exposure of Gauge.—There are numerous patterns of rain gauges, but the best for general use is that shown in Fig. 14. It has a circular collecting funnel, the rain is caught in a can, and measured in a graduated glass. The upper edge of the funnel is fitted with a vertical rim about six inches in depth, with a stout brass ring, ground to a knife edge on top, which will preserve its shape perfectly, and entirely prevent insplashing of rain-drops. The object of the addition of this rim is to catch snow, as will be explained below. Great care should be taken to insure that the mouth of the funnel is not dented, as if the area be not a true circle, the full amount of rain will not be collected. The sole reason for preferring circular gauges to square ones is that the latter get more easily out of the shape than the former.

FIG. 14.



There is some difference of opinion as to the proper area of the collecting funnel. The Meteorological Office employs a diameter of 8 inches. Mr. Symons recommends, for ordinary stations, owing to their cheapness, 5-inch gauges, but it has been shown by most carefully conducted experiments that the difference in indications between gauges of various apertures, ranging from 3 ins. to 24 ins. in diameter, is very small, hardly exceeding one per cent.

The gauge should be set up in a well-exposed position, where it will not be sheltered by trees, buildings, or high walls on any side. It should be placed on the ground, perfectly level, and be firmly fixed so as not to be blown over. In some cases it is advisable to sink the lower part of the cylinder a few inches into the ground. The height of the rim above the ground and above the Mean Sea Level should be given, the best height for the former being 1 foot, except in places liable to very heavy falls of snow. The angle subtended in each azimuth by the nearest obstacle, such as a building or a tree, and its true bearing from the gauge should be carefully measured and noted in the register.

The gauge should never, under ordinary circumstances, be

placed on a roof or at any considerable elevation above the ground, as in such cases the amount collected will be less than that which would have been recorded had the gauge been on the ground. Nevertheless a roof exposure is better than such a ground exposure as is sometimes the only one attainable in town gardens, if the space be very confined.

Collector.

The observer should remember never to collect the rain in the measuring glass supplied with the gauge, instead of using the proper can for the purpose. If this be done in winter there is a risk of breaking the glass if frost should set in after rain has fallen. However, a large glass bottle, *e. g.*, a Winchester quart bottle, may with advantage be used instead of the copper collecting can, excepting in winter, inasmuch as the evaporation from a bottle is less than from a can.

Measurement of rain.

Measurement of Rain.—The gauge should be examined every day at 9 a.m., and the amount found in it entered in the Register as having fallen on the *previous day*, inasmuch as if we measure at 9 a.m. to-day, it is probable, under ordinary circumstances, that more of the rain in the gauge will have fallen during the 15 hours of the previous day, up to midnight, than during the nine hours from midnight to 9 a.m.

Measurement of snow and hail.

The measurement of snow or hail is to be effected by thawing the quantity collected in the gauge, and measuring the water which results therefrom. This method of measuring the snow is not very satisfactory, as if there be much wind the snow will be blown out of the gauge, and the measurement will thus be rendered entirely untrustworthy To meet this difficulty the rim is sometimes put on the top of the funnel of the gauge, as explained above, and this renders it more difficult for the snow to be whisked out of the gauge. If the gauge be not fitted with this arrangement the best plan is to take the outside cylinder of the gauge, which has the same diameter as the funnel, and invert it over snow, lying level, where its depth seems to be nearly uniform and of about the average amount, and to collect the solid cylinder of snow, thus cut out, and melt it. This proceeding ought to give the quantity which would have been collected in the gauge if the snow had not been blown out of it, but the results are not absolutely satisfactory. A good method of thawing the snow quickly is to add to it a measured quantity of warm water, and subtract this quantity from the resulting volume of water. It is said that this process gives rather too small an amount, but the process of allowing the snow to thaw slowly in a warm room takes too much time.

It is sometimes recommended to measure the depth of the snow and enter a certain fraction of this depth as the amount of water which the snow would yield if thawed. It is generally said that a foot of snow gives an inch of water, so that one-twelfth of the depth of the snow in inches would be the amount of rain corresponding to a given fall of snow. This estimate is, however, only a very loose approximation, as the layer of snow is not always of uniform density.

Entry of rain, etc.

If snow is lying for more than a day the observer should measure every morning the depth of the snow at some place where it is lying evenly, and has apparently not been drifted, and should enter the depth in the "Remark" column.

The character of the precipitation when other than Rain should always be stated in the column of Remarks, and the appropriate symbols used to indicate it. "Hail" should only be entered when the stones are hard; the soft stones ("Graupel" in German), like small snowballs, which fall in dry weather in spring are to be specially noted.

The time of occurrence of the precipitation is to be noticed by the addition of *a* (a.m.) or *p* (p.m.) to the symbol employed, and the duration of the fall in hours, as estimated by the observer, is to be inserted in the proper column.

EVAPORATION.

Atmometers.

Evaporation is a subject which has not as yet received as much attention as it deserves, but this is partly owing to the great difficulty which exists in making any accurate observations on it. The amount of moisture removed from a water surface by evaporation depends on the degree of humidity of the air immediately in contact with that surface, and also on the rapidity with which that air is renewed by the action of wind.

The ordinary method of measuring evaporation, by means of an open gauge or "atmometer".* filled from time to time with water, the decrease in depth of which during a given interval of time gives the volume of water removed by evaporation, is a very rough mode of observation. In the first place, rain falls into the vessel, and account must be taken of its amount, while during a heavy shower much water will be lost by splashing. Of course, however, arrangements can be made to shelter the instrument from rain.

Moreover, the rate at which the air in immediate contact with the surface of the water in the gauge is renewed, *i.e.*, the free access of the external air to the surface of the water, depends on the depth at which this surface stands below the rim of the gauge. Hence it becomes necessary to introduce some contrivance to maintain this level constant.

Various atmometers have been devised of late years by Prof. von Lamont, M. Dufour, Dr. A. Mitchell, Prof. Osnaghi, and others, but none of these has as yet met with general acceptance, so that it does not seem necessary to describe them in detail.

The three first named measure the evaporation by the volume of water removed, and must therefore be useless during frost; the last indicates the evaporation by the loss in weight of a vessel containing water, and it can therefore give indications in winter.

Uncertainty about the observations.

There is this uncertainty about evaporation that all the experiments to which reference has been made relate to that taking place from an exposed water surface of a, comparatively speaking, infinitesimally small area, and can therefore have but a very partial applicability to the conditions occurring in nature. There are two main reasons for this statement. Firstly, the proportion of the surface of the land on the earth which is covered with lakes and rivers is very limited, and the experiments above indicated throw no light on the evaporation from the soil. Secondly, the evaporation from the surface of a small atmometer erected on the ground, with comparatively dry air all around it, is certainly very different from that which would take place from an equal area in the centre of a large water surface, such as a lake.

* Perhaps Leslie's term "atmidometer" is more classically correct, but "atmometer" has the advantage of being shorter without being absolutely incorrect. Such mongrel words as "evaporometer" are inadmissible.

Evaporation.

Uncertainty about the observations.

It is of course easy to make experiments on the evaporation from the soil by means of a balance atmometer, but in order that these should possess a practical value, the investigation must be extended so as to include a wide variety of soils, &c., &c. As regards the second point which has been raised, it is recommended by the Vienna Congress to erect atmometers in the centre of water surfaces; but it is not a very easy matter to conduct such experiments with accuracy, owing to the risk of in-splashing from waves.

The subject is one of very great importance, especially as regards its connection with rainfall and water supply, and well deserves especial attention, but it cannot as yet be said that the results hitherto obtained merit much confidence as regards their applicability to the evaporation occurring in nature, owing to the exceptional manner in which the observations have been made.

WIND.

Various instruments have been proposed for the registration of Wind, according to whether it be wished to obtain a record of the Force or Pressure, or of the Velocity. There is comparatively little trouble in obtaining a record of the Direction.

Pressure Anemometers.—The oldest pressure anemometer is Lind's, which consists of an inverted syphon tube, half filled with water, and graduated on the longer arm. The force of the wind is measured by the height of the column of water which the wind is able to maintain in the longer arm above the level of the water in the shorter. The instrument is held in the hand, and the bell-mouthed opening of the shorter leg of the syphon, which is bent at a right angle, is turned to face the wind. Such an experiment is necessarily very rough.

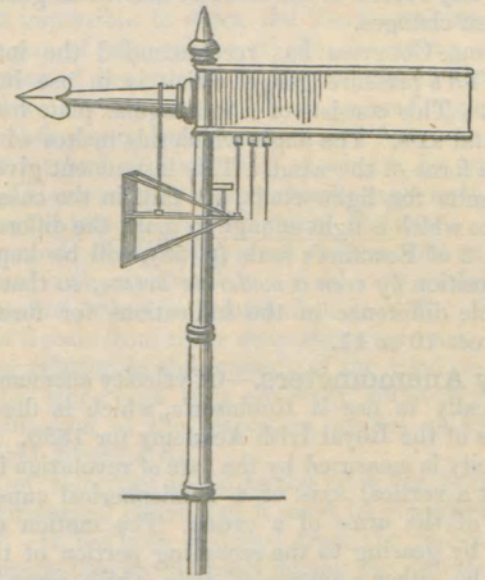
Pressure Anemometers.

Lind's.

Until recently the most perfect pressure anemometer was Osler's (Fig. 15), in which the force of the wind is measured by the distance to which the pressure plate is driven back on the springs. This motion is communicated to a pencil, and the record preserved on paper.

Osler's.

Fig. 15.



The chief objection to this instrument arises from the use of springs which, from their continual exposure to weather, cannot always preserve the same strength and elasticity, and whose condition must therefore considerably influence the results.

A more recent instrument of this class is Cator's, in which the resistance is furnished by a system of levers instead of springs.

Pressure Anemometers.

Cator's.

These consist of two eccentric curves of different sizes rigidly connected together and revolving on the same axle, of which the curvatures decrease respectively in opposite directions, so that the effect is doubled. Round the larger one a cord is carried, from which hangs a fixed weight. Round the smaller one a chain is passed, which is connected directly with the pressure plate and also with the recording pencil.

The chief value of this apparatus consists in its close proximity to the recording pencil and in the fact that the resistance is always the same, as every part of the instrument, except the pressure plate, is under cover and free from exposure to the weather. Another peculiarity of this instrument is that the plate is furnished with a conical back, so as to diminish the error arising from the formation of a partial vacuum behind it in strong winds.

Uncertainty of results.

The chief difficulty about the use of such instruments as these consists in the fact that neither the results obtained from the different instruments with the same size of plate, nor those from the same instrument with pressure plates of different sizes, show as close an accordance *inter se* as might be wished: so that we are unable to say what is the best size to adopt as the normal plate; that usually employed is one square foot.

Notwithstanding this objection, pressure anemometers are of great importance as being the only instruments at present which can give us any record of the force of individual gusts of wind or of any sudden changes.

Wild's pressure gauge.

The Vienna Congress has recommended the introduction of Professor Wild's pressure gauge which is in use in Russia and Switzerland. This consists of a rectangular plate hung on hinges on a horizontal axis. The angle which this makes with the vertical indicates the force of the wind. This instrument gives sufficiently accurate results for light winds, but fails in the case of strongish winds, a plate which is light enough to mark the differences between forces 1 and 2 of Beaufort's scale (p. 58), will be kept in a nearly horizontal position *by even a moderate breeze*, so that there will be no perceptible difference in the indications for forces 6 or 7 and those for forces 10 or 11.

Robinson's Anemometer.

Velocity Anemometers.—Of velocity anemometers the only form practically in use is Robinson's, which is described in the Transactions of the Royal Irish Academy for 1850.

The velocity is measured by the rate of revolution in a horizontal plane, about a vertical axis, of 4 hemispherical cups fixed to the extremities of the arms of a cross. The motion of the axis is transmitted by gearing to the recording portion of the apparatus, which may be either a system of dials, which must be read off at definite intervals, or an arrangement for marking each mile of wind on a strip of paper moved by clock-work; or, finally, as in the full-sized anemographs, a pair of brass tracers which mark the velocity continually on metallic paper, stretched on a drum, which revolves once in 24 hours. In these latter instruments the direction is continuously recorded by the tracers in a similar manner to the velocity, the moving power for the direction tracers being a double windmill vane.

Robinson's anemometer.

Theoretically the velocity of rotation of the cups in Robinson's anemometer is independent of the length of the arms or the size of the cups; but practically it is found that two instruments of different sizes do not give similar results, and most, if not all, of the smaller instruments which are in use yield results falling 15 or 20 per cent. below what ought to be the correct indication, while the larger ones give figures slightly above the correct results. This subject, however, urgently requires a closer investigation.

Effect of position on anemometrical indications.

There is, however, an inherent difficulty about all anemometrical measurements, whether of pressure or velocity, in that they are most seriously affected by the position of the instrument. If it be attached to, or even erected near, any large building, or if there be high trees in the vicinity, it will indicate much less wind than if it were in a perfectly open country, and the results of recent experiments have thrown much doubt on the possibility of comparing, with any degree of minuteness, anemometrical data from different stations.

This fact alone is sufficient to condemn nearly all the determinations of absolute velocities hitherto made with small anemometers by private observers, even though the instruments were perfectly correct.

Various instruments have been devised, employing methods of electrical registration of the velocity, and allowing of the cups, &c. being erected at a distance from any buildings, but it seems all but impossible to erect the instrument so that it shall be removed out of the sphere of the disturbing action of the irregular surface of the ground on the current of air passing over it, so that all we can say is that it at present appears that the results from each station must be compared *inter se*.

Estimation of wind force.

The oldest method of observation of wind is by sensation or by estimation. This is necessarily somewhat rough, as it must depend to a very great extent on the individual observer. Nevertheless, it is the only mode of obtaining wind observations at the majority of stations, and with experience can yield very useful results.

Sir F. Beaufort, when in command of H.M.S. "Woolwich," in 1806, devised a scale from these estimations (given in the subjoined table), having relation to the pressure of the wind on the sails of a ship, which has since been very generally adopted, in lieu of the former classification of the respective grades of force by words such as "Light Breeze," &c.

The scale of velocities added to the table has been determined in the Meteorological Office, but it must be considered as merely provisional.* It has been deduced from the indications of well-exposed anemometers on the coast during the prevalence of winds from the sea. It is hardly applicable to ordinary land stations, nor to those on the coast when the wind blows off the land, in which cases the velocity corresponding to a given force is much

* The justification of the table will be found in a paper contained in the Quarterly Journal of the Meteorological Society, Vol. ii. p. 110, "An Attempt to establish a Relation between the Velocity of the Wind and its Force," by Robert H. Scott, F.R.S.

Relation between velocity and force of wind.

smaller, owing to the retardation of the *general motion* of the air by the inequalities of the surface of the ground, while the force is naturally estimated from that of the *gusts*. In fact, the steady pressure of a wind at sea gives a higher velocity than the uneven force of the same wind on land.

In all cases it must be remembered that the velocity being recorded as the number of miles of wind which have passed over the anemometer during a whole hour, that of an individual gust will often be far higher, and that of a lull much less, than the figure here given.

It is quite obvious that the nautical part of this table is all but unintelligible to a landsman, but still it is advisable to give it, as it seems to stand a better chance of general adoption than any other scale.

The equivalent velocities according to the metric scale, *i.e.*, in metres per second, may of course be obtained by multiplying the figures in the last column by the factor 0·447.

Force.	Beaufort Scale.				Velocity. English Miles per Hour.
0	Calm - - - - - - - -				3
1	Light air, or just sufficient to give steerage way - - -				8
2	Light breeze	or that in which a well-conditioned man-of-war, with all sail set, and "clean full", would go in smooth water from - - -	1–2 knots	-	13
3	Gentle „		3–4 „	-	18
4	Moderate „		5–6 „	- -	23
5	Fresh „	or that to which she could just carry "in chase," "Full and by" - -	Royals, &c. - -		28
6	Strong „		Single-reefed topsails or top-gallant sails.		34
7	Moderate gale		Double-reefed topsails, jib, &c.		40
8	Fresh „		Triple-reefed topsails, &c.		48
9	Strong „		Close-reefed topsails and courses.		56
10	Whole gale, or that with which she could scarcely bear close-reefed main-topsail and reefed foresail.				65
11	Storm, or that which would reduce her to storm-staysails -				75
12	Hurricane, or that which no canvas could withstand - -				90

Since Admiral Beaufort's time there has been a great change in the rig of merchant ships owing to the introduction of double topsail yards; it therefore seems desirable to add to Beaufort's scale a statement of the amount of sail which his ship would have been able to carry, had she been rigged with double topsail yards. The change would only affect forces 6, 7, 8, 9, and 10, which would then read as follows:

Force 6. Top-gallant sails.
„ 7. Topsails, jib, &c.
„ 8. Reefed upper topsails and courses.
„ 9. Lower topsails and courses.
„ 10. Lower maintopsail and reefed foresail.

Reduction of compass to true bearings.

As regards the Direction of the wind it is hardly necessary to observe that this should always be given according to *true* and not to *compass bearings*. The amount of Variation of the compass in the British Isles being, roughly speaking, two points to the westward, we get the following table for the conversion of directions observed by compass in the United Kingdom to approximate true bearings.

Compass bearings	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
True bearings	NNW	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW

ATMOSPHERIC ELECTRICITY.

Electricity.

Although observations on Atmospheric Electricity are not called for from ordinary observers, it may not be amiss to give some notes on the subject in order to direct more attention to it than it has hitherto obtained.

The occurrence of Lightning and Thunderstorms should be noted in the "Remarks," column, as directed at p. 72; but in addition to these indications of great electrical disturbance taking place in the atmosphere, it is desirable that observations should be made upon the electricity existing in the air under ordinary circumstances, so as to determine, firstly, whether it is positive or negative, and, secondly, what is its intensity.

Electroscopes.—The simplest instruments of this nature, viz., the Gold Leaf, Bennett's and Bohnenberger's, are sufficient to show the nature of the electricity present in the air, but it is always found that very little electricity can be observed near the ground, and in order to obtain satisfactory indications, the conductor of the electroscope should be brought into contact with the air at some distance from the earth's surface, by means of a collector.

Collection of electricity.

Collectors.—A simple rough method of doing this is to shoot a metallic arrow upwards into the air, the arrow being tied to one end of a conducting string, the lower end of which carries a ring which rests upon the electroscope. The arrow being shot upwards, the electroscope will be found to be electrified, as it mounts; and when the ring leaves the plate, the instrument will indicate the state of electrification of the air at that point where the arrow is at the time.

This manner of observing is simplified by substituting a long conductor reaching upwards; a gilded fishing rod may be employed, its lower extremity being insulated.

The usual method employed, however, is Volta's, in which the electricity is collected by means of a flame, burning at a height, either in a lantern hung to a mast, and connected to the electroscope by a wire, or, by a slow burning match, attached to the top of a long metal rod.

The electricity of the air, in the neighbourhood of the flame, by its inductive action upon the conductor, causes electricity of the opposite nature to accumulate at the upper extremity, where it is constantly carried off by the convection currents in the flame, leaving the conductor charged with electricity of the same kind and potential as the air.

The principle of Volta's method has been made use of by Sir W. Thomson in his water-dropping collector, now employed in observatories, and found to be extremely suitable for the observa-

tion of atmospheric electricity, in connection with his electrometer. Collection of electricity.

A copper can is placed on an insulating support, which may be of ebonite, having the surface thinly coated with paraffin; or of glass, surrounded with pumice stone impregnated with sulphuric acid. From the can a small pipe projects a considerable distance into the air, and terminates in a fine jet. The can being filled with water, and the tap which opens into the jet turned on, a small stream of water is allowed to flow out, care being taken that it is so small that it shall break into drops immediately after leaving the nozzle of the tube.

In half a minute from the starting of the stream, the can will be found to be electrified to the same extent as the air at the point of the tube.

This collector cannot be employed during the time of frost, owing to the freezing of the water in the jet pipe. At such times therefore, and when observations are to be made with a portable instrument, a slow burning match should be used. Sir W. Thomson recommends for this purpose blotting paper, steeped in a solution of nitrate of lead, dried, and rolled into matches.

Position of Collector.—Since electrical density is greater on projecting surfaces, and less on hollow surfaces, than on planes, the collector should not be near trees, or houses, nor within a closed space.

Electrometer. — This instrument, designed by Sir W. Thomson, is of two kinds:

1st. The Quadrant, or modified Divided-Ring Electrometer, for observatory use.
2nd. The Portable Electrometer.

1st. **Quadrant Electrometer.**—This consists of a needle of thin sheet-aluminium, cut so as to resemble in form a figure 8 with the hollows filled in, carrying above it a small light mirror, weighing only a fraction of a grain. This is suspended from its centre by two fine silk threads, the distance between which can be varied at will. Quadrant Electrometer.

The needle swings horizontally inside a shallow cylindrical brass box, which is cut into four quadrants, each insulated separately by glass supports, but connected alternately by thin wires.

Each pair of quadrants is also connected to a stiff wire passing through the case of the instrument, to form the two electrodes, or terminals, for the attachment of the collecting and earth wires.

The base of the electrometer contains a Leyden jar, partially filled with strong sulphuric acid, and a platinum wire, hung from the lower surface of the needle, is made to dip into the acid.

A lamp and a divided scale are placed about a yard in front of the instrument, and the light shining through an aperture in the frame of the scale, is reflected by the mirror on the scale, where

Quadrant Electrometer.

the position of the image of a wire stretched across the hole can be accurately observed.

If the electrometer be used as a self recording instrument, a drum carrying photographic paper, and maintained in rotation at a uniform rate by a train of clockwork, is substituted for the divided scale, and the aperture reduced so as to form a mere dot of light on the cylinder.

In order to make use of the instrument, the needle must be charged, with electricity; this is done by bringing a small electrophorus, which has been previously well rubbed, into contact with a wire (charging electrode), dipping into the sulphuric acid at the bottom of the Leyden jar.

One of the electrodes connected with the segments is then joined by means of a wire to the water-dropping collector, and the other placed in communication with the earth through a wire attached to a gas pipe, or similar conductor. It will then be found that the electrometer needle will be deflected either towards the one side or the other, according as the electricity of the atmosphere is of the nature to repel or attract it, and the extent of repulsion, as measured on the scale, is proportional to the amount of difference of potential between the atmospheric and terrestrial electricities.

As the delicacy of the instrument is also affected by the extent to which the needle is charged, it is necessary that this charge should always remain constant. Although the sulphuric acid, by drying the air in the interior of the instrument, prevents the rapid loss of the charge, yet with the best jars a slight per-centage escapes every day, and to restore this loss, an auxiliary apparatus for the generation of electricity, termed a *replenisher*, is fixed inside the case, by turning which the charge can be restored to its original potential. This is indicated by a small gauge fixed to the top of the instrument.

The Gauge.

The Gauge.—The gauge is a light lever made of thin aluminium, one end of which is widened out, so as to form a surface of about a square centimetre in area; the other end carries an index, moving in front of a small scale. The plate forming the extended end of the lever is repelled by another plate, similarly electrified, fixed to the top of the instrument, which, being in metallic connection with the sulphuric acid of the Leyden jar, is charged to the same potential as the indicating needle.

The position of the index, when the electrometer is properly charged, being therefore once determined, it is easy, by giving a few turns to the replenisher at any time, to bring the potential of the charge of the instrument up to its original value.

Under ordinary circumstances it is found desirable to perform the replenishing operation at least once daily.

The scale of the Instrument.—The scale value of each

Scale of Electrometer.

instrument must be experimentally determined, and should any change be made in the electrometer itself, either by replacing the threads which suspend the needle and mirror, altering their distance apart, or varying the adjustment of the gauge, a redetermination of the scale value must be made.

In order to perform this operation a galvanic battery is needed; one of constant intensity should be used. Sir W. Thomson recommends Daniell's. The battery being charged and placed on an insulating support, the wire leading from the water-dropping collector is disconnected, and a wire from one terminal of the battery attached to the electrode of the instrument. The amount of deflection of the needle is then observed upon the scale, and noted. Contact is again broken, the electrode joined to the earth wire, and the scale read.

By repeating these observations several times, and varying the number of cells forming the battery, the value of the divisions of the scale can be determined.

Knowing the electric motive force of the cell employed, the indications of the electrometer scale may be converted into terms of the absolute unit of force or "volts."

Portable Electrometer.

Portable Electrometer.—The portable electrometer is a small instrument contained in a cylindrical brass case, 3·3 inches in diameter, 5 inches in height. It consists of a small glass Leyden jar, in the interior of which a gauge is placed, similar in construction to the one already described, as fixed to the quadrant electrometer, but inverted. The tinfoil is removed from both surfaces of the glass opposite to the index, in order to permit of its being viewed through the aperture; but in order to maintain the electrical potential uniform, a double screen of thin wire fences is introduced between the index on the lever and the glass through which it is observed.

The plate or disc opposed to the extended end of the indicating lever is attached to an extremely delicate and accurately constructed screw, by which it can be raised and lowered with the utmost nicety, and so brought nearer to, or removed further from, the lever. The distance through which it is moved is measured with the greatest exactitude by means of an index attached to the screw, which moves over a scale and shows the number of complete rotations, whilst a divided circle fixed to the axis indicates the parts of a turn.

An insulating medium is interposed between the disc and its elevating screw, so that the electrical condition of the former is not affected by the observer touching the screw.

A wire from the disc places it in connection with an electrode projecting through the cover of the instrument, the aperture being properly protected against the entry of wind or rain, and this electrode, when the instrument is in use, carries a burning match collector, as described on page 61.

Pumice stone saturated with sulphuric acid is placed in leaden trays in the interior of the instrument for the purpose of drying

Portable Electrometer.

the contained air, and it is necessary to remove it frequently, as often as the acid becomes hydrated, and supply fresh.

In order to use the portable electrometer it must first be charged; this is done by means of a small electrophorus, a charging rod being let down for the occasion through a hole in its roof. This charge should be negative.

The amount through which the disc must be moved to bring the lever index to its proper position after charging, is read by means of the scale and micrometer screw.

The charging rod removed, and the chief electrode connected with the outer case of the instrument, which itself is in connection with the earth; either through the observer, in whose hands it is held, or by a wire; if the index is again brought to zero, it is placed on an insulating support, and another reading of the scale made. The chief electrode is again insulated, then the collector put on and the match lighted. After a short time the index is again observed, and the disc moved until it is brought into its normal position, when the micrometer and scale are read.

In order to determine the scale value of the instrument, a battery must be employed as described above, p. 63.

Peltier's Electrometer.

Peltier's Electrometer.—Another form of instrument which is very highly recommended is Peltier's electrometer, which has been used for more than 30 years at Brussels by the late M. Quetelet, and for upwards of 20 years at Utrecht. The instrument is described in the *Annuaire Météorologique de France*, 1850, p. 181, and in the report of the British Association, 1849, Transactions of Sections, p. 11.

OZONE.

The subject of Ozone is frequently mentioned as one deserving of notice at meteorological stations, but up to the present time it seems advisable to abide by the opinion expressed by the Vienna Congress:—

"The existing methods of determining the amount of ozone in "the atmosphere are insufficient, and the Congress therefore recom-"mends investigations for the discovery of better methods."

Fig. 1 Cirrus (Cir.)

Fig. 5 Roll - Cumulus. (Roll. c.)

Small Cumulus.

Fig. 2. Cirro-cumulus. (Cir.-c.)

Fig. 6. Cumulus. (Cum.)

Fig. 3. Cirro stratus. (Cir.-s.)

Fig. 7. Cumulo-stratus. (Cum.-s.)

Fig 4 Stratus. (Str.)
a Detached Stratus

a

Fig 8. Nimbus. (Nim.)

Vincent Brooks Day & Son Lith

FORMS OF VARIOUS CLOUDS.

CLOUDS.

We have hitherto spoken of the several observations which demand the use of instruments for their registration, but there is an extensive class of phenomena which cannot be recorded instrumentally, but of which it is necessary to take careful notice owing to their importance as indicating changes which are in progress in the atmosphere. Of these without doubt the most important are Clouds.

The following explanation of the different forms of cloud represented on the accompanying Plate has been prepared principally from the works of Luke Howard, whose definitions are given in inverted commas at the beginning of each description :—

UPPER CLOUDS.

The clouds belonging to this class are considered, on good grounds, to be frequently composed of particles of ice, inasmuch as the phenomena of halos, &c. are produced by them, and these can only be explained by the refraction of the rays of light through ice crystals. Upper clouds.

Fig. 1. **Cirrus** (cir.). "Parallel, flexuous, or diverging fibres, " extensible by increase in any or in all directions."

This is the very lofty cloud which looks like hair, thread, or feathers, and, when curved in form, is often called 'Mare's tails.' It frequently moves in a direction differing from that of the wind at the earth's surface, but its motion often appears to be so slow that it is very difficult to ascertain it correctly without watching for a very considerable time so as to mark its motion over some *fixed* object, but the importance of the observation makes it very desirable that special attention should be devoted to it.

Anything peculiar in the shape of *cirrus* clouds should be noted, as well as the point from whence they radiate, and the relation between their longitudinal extension and the direction in which they are moving. It should also be noted if they are more developed in one part of the sky than in another.

Fig. 2. **Cirro-cumulus** (cir.-c.*). "Small, well-defined round- " ish masses in close horizontal arrangement or contact."

This is also a high cloud, though usually at a lower level than the *cirrus*. It differs from the *cirrus* in being more globular in form, as it consists generally of small detached rounded masses, like a flock of sheep lying down, or like the markings on a mackerel, whence the name "Mackerel sky." It is sometimes softer than those shown in Fig. 2, and when seen at lower levels it may be difficult to distinguish these clouds from small *cumuli*. In such cases the fact should be noticed in the "Remarks" column.

* NOTE.—The second part of the contraction has been reduced to one letter, because it is found that in practice the hyphen has frequently been left out, so that cir.-cum. was understood as *cirrus* and *cumulus* instead of *cirro-cumulus*. This error has been common to all the contractions.

Upper clouds.

Fig. 3. **Cirro-stratus** (Cir.-s.). "Horizontal or slightly in-
" clined masses, attenuated towards a part or the whole of their
" circumference, bent downward or undulated; separate, or in
" groups consisting of small clouds having these characters."

This cloud is usually generated by increased condensation on the *cirrus* already formed, which consequently sinks to a lower level.

The first part of Howard's definition seems to be well represented by the upper portion of Fig. 3, in which the clouds are like sheets thinning out at their edges, while the latter part is clearly shown by the small light-coloured clouds at the bottom of the figure.

When bad weather is approaching the cloud increases in compactness and density and sinks to a lower level, at times entirely intercepting the direct rays of the sun or moon and presenting the appearance of a uniform sheet overspreading the sky.

Such uniform sheets* have generally been classed as *cirro-stratus*, but the observer should enter a special note of their occurrence in the "Remark" column, so that there shall be no risk of confusion between this appearance and that of the true *cirro-stratus*. This is the more necessary inasmuch as when the cloud sinks to a yet lower and lower level, it assumes more and more the character of the lower stratum, becoming a vapour cloud instead of an ice cloud.

Anything peculiar in the appearance of the cloud should be noted specially, as "cir.-s. high and hard," or "cir.-s. low and soft." Clouds are seen at all levels between the highest *cirrus* and the lowest *stratus*, so that it is often difficult to determine whether a particular sheet or layer of cloud belongs to the upper or the lower system. In such cases the observer will be greatly assisted by remembering how the clouds have become formed, whether by the gradual subsidence of the highest forms, or by the ascent of the lower clouds.

LOWER CLOUDS.

The clouds belonging to this class are usually composed of particles of condensed vapour or "bubble steam," *i.e.*, of water, not of ice. When they are interposed between the earth and the sun or moon, they dim or intercept the light entirely, without giving rise to halos or coronæ.

Fig. 4. **Stratus** (Str.). "A widely extended continuous hori-
" zontal sheet, increasing from below upward."

This is a sheet or layer of cloud, of uniform thickness generally. It has but little variety of light and shade, and belongs essentially to the lower regions of the atmosphere, so much so that Howard speaks of it as "Ground Fog," the cloudy formation which spreads over low grounds in the evening, and disappears as soon as the temperature rises in the morning.

* The "Pallium" of Poëy.

Lower clouds.

The *stratus* is generally a fine weather cloud appearing during the nights and mornings of the brightest days. At times it overspreads the whole sky in the form of a low, gloomy, foggy canopy, the atmosphere at the same time being more or less foggy under it. All low detached clouds, which look like a piece of lifted fog, and are not in any way consolidated into a definite form, are *strati*, and may be called "detached" *stratus*.

Figs. 5 and 6. **Cumulus** (Cum.). "Convex or conical heaps
" increasing upward from a horizontal base."

This class of clouds comprises all those of the lower stratum which have a globular or rounded form, from the small white cloud represented in Fig. 5, to the heavy mass represented in Fig. 6, which is almost a *cumulo-stratus*. The *cumulus* sometimes takes a cylindrical shape, forming itself into long horizontal rolls, between which gleams of light are seen, but which are often so closely packed as to hide the blue sky. These are called by us *Roll-cumulus* (*Roll-c.*). *See* Fig. 5.*

Fig. 7. **Cumulo-stratus** (Cum.-s.). "The 'cirro-stratus'
" blended with the 'cumulus,' and either appearing intermixed
" with the heaps of the latter, *or superadding a wide-spread struc-*
" *ture to its base.*"

This is the *cumulus* as it were changing into a *nimbus*. It is dark and flat at its base, and is traversed by horizontal lines of dark cloud.

Fig. 8. **Nimbus** (Nim.). "The rain cloud. A cloud or system
" of clouds from which rain is falling. It is a horizontal sheet
" above which the 'cirrus' spreads while the 'cumulus' enters it
" laterally and from beneath."

This is a rain-cloud. Whilst on the horizon, or as it advances towards the observer, its front frequently presents a marked outline like that of a very heavy *cumulo-stratus* with rain falling from it, and with some *cirrus* above, so that Howard has called it the *cumulo-cirro-stratus*. When it has overspread the whole sky, it is usually so mixed up with or concealed by the falling rain that it generally assumes a uniform dark appearance.

Fig. 8 represents a *Nimbus* before it has overspread the sky; there are also smaller clouds of the same kind which only produce a passing shower. They are easily distinguished by the fact that rain or snow, &c. is falling from them.

Inasmuch, however, as rain, &c. may fall from clouds of various shapes, anything peculiar in the form, height, &c. of the *nimbus* should be mentioned in the "Remarks."

Scud is a term used to indicate loosely formed, detached clouds drifting rapidly before the wind. These may be either at a high or low level; in the former case they probably belong to the *cirro-stratus* or *cirro-cumulus*, in the latter to *stratus*, but the word scud simply implies that they are fragments of cloud in rapid motion.

* This variety of *cumulus* is an addition to Howard's nomenclature. It has been inserted owing to the frequency of this appearance at sea. It is unnecessary to observe that the effect is simply one of perspective.

Entry of clouds.

It is believed that the foregoing description is sufficient to explain the ordinary forms of clouds, but the appearances are much intermixed. Thus, before rain we often see a dirty background of *cirro-stratus*, over which black patches of *cirro-cumulus* are travelling. Such combinations, when seen, should be carefully noted.

The direction *from* which all clouds, especially upper clouds, come is very important, and should be recorded, whether they are moving with the wind or not. The relative motion of some clouds past others, or past any moveable object, is so deceptive that it should never be recorded. If the upper clouds move quickly, a remark should be made to that effect.

It is particularly requested that the contractions *Cir.*, *Cir.-c.*, *Cir.-s.*, *Str.*, *Cum.*, *Cum.-s.*, *Nim.*, given on the plates, be used in the entries, as any other contractions are likely to mislead.

Amount of loud.

Amount of Cloud.—The scale for the amount of cloud is that of 0 "Blue Sky," 10 "Entirely overcast."

The following are the resolutions as regards Clouds adopted at Vienna:—

1. "Entries as to the extension of clouds on the visible sky according to the scale 0–10 are to be made without reference to the thickness of the cloud. The latter is to be indicated by an exponent applied to the figure for the Amount of Cloud (0 slight, 2 great).

2. "As to the Forms of Cloud, or rather classes of cloud, the matters most urgently desired are more thorough observations and more accurate drawings, which will correspond to the variety of clouds which are in reality observed, as none of the systems which have as yet been proposed, *e.g.*, that of Poëy, are of such a nature that they can at once be recommended for general adoption.

3. "For the present it is recommended to add to Howard's designations, and their combinations, epithets as characteristic as possible, according to the choice of the individual observer, in order to express the actual appearance as clearly as possible.

4. "In order to facilitate a correct understanding and designation of the clouds, it is recommended:—

(*a.*) "That central offices should prepare, as completely as possible, lists and characteristics of the forms of cloud which occur in their districts.

(*b.*) "That on the part of the Congress the preparation of sketches of the principal Forms of Cloud be set on foot, which should be added to the Instructions for the Observers.

(*c.*) "That the study of the connexion between the form, constitution, and origin of the clouds be undertaken and supported, special attention being paid to the circumstance that one and the same mass of cloud presents a different appearance when seen from different sides or under different angles."

WEATHER.

Weather observations.

Under the head of Weather Observations are classified the various appearances which for the most part indicate modifications in the condition of the aqueous vapour in the atmosphere, and which are therefore known in some countries under the generic term of "Hydrometeors."

In this country a system of notation devised by Admiral Beaufort has been in use for many years, but as these phenomena must be noted by each observer in the ordinary language of his country, the Vienna Congress decided that it was advisable to employ for the recording of such observations, symbols, which should be independent of any language, inasmuch as if, as in the Beaufort notation for weather, we, for our own convenience, employ for the most part the initial letters of the English names of the phenomena, we should find great difficulty in recognising the same phenomena when described, *e.g.*, in Russian.

These symbols have been introduced into the form given in App. II. because it is advisable to use in the original schedules of observation the same symbols as are employed in the printed tables, at least for entry in the "Remarks" column.

These symbols, which were adopted at Vienna, are evidently better suited to continental climates than to those of these islands. However, before dealing with them, we shall first give the Beaufort notation, with the corresponding symbols, wherever such exist, and then a list of the symbols which are not represented in the Beaufort notation.

Beaufort Notation with corresponding symbols.

b = blue sky: whether with clear or hazy atmosphere.
c = cloudy, but detached opening clouds.
d = drizzling rain.
f = foggy, ≋
g = dark gloomy weather.
h = hail, ▲
l = lightning, ⊂
m = misty hazy atmosphere, ≋ or ∞
o = overcast, the whole sky being covered with an impervious cloud.
p = passing temporary showers.
q = squally.
r = rain, continued rain, ●
s = snow, ✳
t = thunder.

Weather observations

u = "ugly," threatening appearance of the weather.

v = "visibility" of distant objects, whether the sky be cloudy or not.

w = dew,* ⌓

In Beaufort's system, a bar or a dot under a letter denoted intensity.

Symbols not included in the Beaufort Notation.

Thunderstorm - -	⊼	Strong Wind - -	⁄
Soft Hail ("Graupel")†	△	Solar Corona - -	⊕
Hoar Frost - -	⌴	„ Halo - -	○
Silver-thaw ("Rauh-frost"† "Duft") - -	V	Lunar Corona - -	⋓
Glazed Frost ("Glatteis")†	~	„ Halo - - -	ψ
Snow Drift - -	⊹	Rainbow - - -	⌒
Ice Crystals - -	→	Aurora - - -	♕
		Dust-haze ("Höhen-rauch")†	∞

In these symbols intensity is to be indicated by the exponents 0 and 2 attached to the symbols, thus,

$\divideontimes^0$ means slight snow, $\divideontimes^2$ heavy snow.

We shall take these phenomena in order as they appear above, noting only those which call for remark.

The first that calls for notice is *Fog*. This is only to be entered when the observer is entirely surrounded by it. It will be seen that the same symbol is used for Fog and Mist.

Hail.—The symbol is a shaded triangle. It is to be entered whenever the stones are hard, no matter what their size may be. In this it seems advisable to differ from the practice recommended at Vienna—which is to enter "Hail" only when the stones are large enough to do damage to agricultural products—inasmuch as Hail Insurance is not so common in these islands as on the continent.

Lightning.—The symbol represents a flash of forked lightning. It is to be employed for sheet lightning, as well as for other forms. If thunder is heard with the lightning, the symbol for thunderstorm is to be employed.

Mist, Haze.—The symbol for Mist is the same as for Fog. For Haze, that for "Dust haze" should be employed.

It may here be remarked that it seems a decided defect in the Beaufort Notation to designate by the same initial letter two such different phenomena as "mist" and "haze."

Rain.—The symbol is a black circle. It seems hardly necessary to employ this symbol in these islands, owing to the comparative

* In the original notation given by Admiral Beaufort, the letter "w" indicated "wet, dew," but it has been found that "wet" has been used to indicate *wet weather* instead of a deposition of moisture from a fog.

† German expressions.

Weather observations.

rarity of either Snow or Hail, so that any water measured in the rain gauge may be set down as Rain unless the symbol for either of the other forms of precipitation is employed.

Snow.—The symbol is a six-pointed star, a common form of snow crystals. Water crystallizes in what is termed the hexagonal system, and snow flakes when examined show a most exquisite geometrical structure, the separate spiculæ being arranged so as to intersect each other at angles of 60° or 120°.

No symbol is given for "Sleet," mixed snow and rain, in fact this seems to be a phenomenon specially characteristic of northern and insular climates. It is recognized in Norway and Denmark under the name of "*Slud.*" In Germany under that of "*Schlacken.*" The French term "*Grésil,*" which is usually considered equivalent to "Sleet," really indicates "Soft Hail."

Thunder.—No symbol is given for this, as it is considered that the lightning which accompanied it must have been within the range of vision of the observer who heard the thunder, although unnoticed by him, so that accordingly Thunder is always to be entered as Thunderstorm.

Dew.—This is to be noted, the symbol being a representation of a drop of dew.

Thunderstorm.—The symbol is a T, combined with the symbol for lightning.

In entering in the register the number of thunderstorms in a month, the days when Sheet Lightning only is observed are to be noted specially.

The direction of motion of thunderstorms should be carefully noted and entered in the "Remarks" column.

Soft Hail, "Graupel." (*Grésil* in French.)—This is a kind of hail very common on the continent, and frequently seen in these islands in cold weather during spring. The stones are small and soft, like little snow pellets, without any crystalline structure.

The symbol is a triangle unshaded.

Silver Thaw is the phenomenon of a large quantity of frozen moisture on trees when the weather suddenly becomes warm after great cold. This occasionally takes place to such an extent that branches are broken off the trees.

Glazed Frost.—This is the phenomenon of a frost setting in after a partial thaw, when the ground and most objects are covered with ice.

Snow Drift.—This phenomenon hardly requires a symbol.

Ice Crystals.—These occasionally fall in winter. They are distinguished from hail by their shape and size. The symbol is an arrow unfeathered.

Strong Wind.—The symbol is that employed by the Meteorological Office in its working Charts. It is convenient to make the number of the feathers indicate the degrees of Beaufort scale.

Weather observations. Optical phenomena.

Coronæ and Halos are circles which appear round the sun and moon.

Coronæ are small circles exhibiting the prismatic colours, the red being outside, the violet inside; "when two or more are seen "at once, the diameter of the second is double that of the first, of "the third, triple. But the diameter of the interior corona (the "unit of the scale) is not always the same, varying from 2° to 4°."* They arise from the interference of rays passing through a mass of minute globules of water, and accordingly they are seen whenever light clouds pass between us and the moon, and their appearance is so common as scarcely to call for remark. "The reason why "coronæ are seldom seen round the sun, is the dazzling brightness "of that luminary. If its light be enfeebled by reflection in water "or by a coloured glass they are often visible."

Halos.—"These are large circles of definite and constant "diameters, one of 45°, the other of 92°, and which are seldom "both seen together. The colours are very feeble, especially of "the larger, which is usually almost or quite white." The larger is very uncommon. Where they exhibit prismatic colours which is rarely the case, the red is inside. They arise from the existence of minute prisms of ice in the atmosphere, and consist of refracted light.

Sometimes the halo is intensified into two bright spots, one on each side of the central luminary. These are called *Parhelia* or *Paraselenæ* (mock suns or mock moons).

At times the phenomena are even more complicated, and other circles, arcs, and lines are observed, usually intersecting the primary halo symmetrically. At the intersections these multiple images appear. These lines and arcs probably form parts of circles of 45°, 90°, and 180° diameter.

These appearances are exceedingly rare except in high latitudes, and the evidence of observers who have been so fortunate as to see them is somewhat conflicting, so that the explanation of the phenomena is rendered more difficult.

An observer, therefore, should never fail in such cases to draw carefully what he sees *at the time.*

Rainbow.—It seems unnecessary to give a symbol for a phenomenon of such common occurrence and so transient.

Aurora.—When the aurora is fully developed it consists of a bright arch, usually appearing in the north, with streamers emanating from it, which are parallel to the dipping needle. Under the arch the dark sky is seen which is sometimes called the dark segment of the aurora. The arch is somewhat of the nature of a sheet or curtain of light, and it moves from the "magnetic" northern horizon towards the south. At times a succession of arches are seen, as many as nine having been counted at one time by an observer in north of Norway.

* The quotations are from Herschel's Meteorology.

Weather observations.

The streamers flash in rapid pulsations, and sometimes extend beyond the Zenith, when they form a closed curve or canopy of light, around a point in the heavens indicated by the direction of the dipping needle, which is therefore situated to the south of the Zenith. This appearance is termed the "corona" of the aurora.

The colour is usually white, but occasionally red, green, and other colours are noticed.

A very interesting paper by the Rev. Jas. Farquharson on auroral observations in these islands will be found in the Philosophical Transactions, 1829, p. 103.

The symbol is an arc and chord with three rays. In case of specially fine auroral manifestations the observer is requested to send up a fuller notice, *e.g.*, in the space at the foot of the form or on its back.

Dust-Haze, "Höhenrauch."—This is a peculiar obscuration of the atmosphere which sometimes appears in summer. It is far more common on the Continent than with us. Its origin is not quite understood. At times it has been traced to extensive fires on the moors or in the forests of Northern Europe.

HOURS OF OBSERVATION.

Hours of observation.

There is hardly any point which is more difficult to settle than that of the most suitable hours for meteorological observations, inasmuch as those which will give good results in one climate, will be ill adapted to meet the requirements of another. In all cases, it will be remembered, it is temperature to which the observations in the first instance refer.

The mean temperature which is generally assumed as correct for a day is that of the 24 hourly observations, and continuous records are not usually tabulated to greater minuteness than that indicated.* Such frequent observations however entail an amount of labour which cannot be attempted except at a first class Observatory. Speaking generally, two observations a day are the least number which can be recognised as sufficient for a station of the second order, and it is desirable, if possible, to have three observations or more, at regular intervals, during the 24 hours. It is, however, very difficult to ensure the regularity of night observations, and on the whole it has been decided by the Vienna Congress to consider the following combinations of hours (local time) as admissible.

h.	h.	h.		h.	h.	h.		h.	h.	
6 AM	2 PM	10 PM		8 AM	2 PM	8 PM	with minimum temperature.	8 AM	8 PM	with maximum and minimum temperature.
7 „	2 „	10 „		9 „	3 „	9 „		9 „	9 „	
7 „	1 „	9 „		10 „	4 „	10 „		10 „	10 „	
7 „	2 „	9 „								

Calculation of means.

The method of treating most of these combinations so as to give the daily mean, and the corrections to be applied to such daily mean for some of the principal observatories, in order to obtain the true daily mean, will be found in the best text books of meteorology.

In the Phil. Trans. for 1848, Mr. Glaisher gives corrections for daily range for Greenwich, and in the Mémoires de l'Académie Royale de Belgique, vol. xxxvi., M. Ernest Quetelet gives a very complete table of the corrections for various combinations of hours for Brussels. All such tables, are however, in the first instance of local value, and the greatest caution is necessary in applying the results to observations taken at other stations and possibly under very different circumstances.

The combination of 9 a.m. and 9 p.m. is that selected for the volunteer observers in the United Kingdom.

The means of these observations do not differ much from the true daily mean.

In connection with the question of the determination of a correct mean for the 24 hours from any combination of a less number of hours, it may be remarked that a common method of obtaining a

* At the observatory of Helsingfors the observations were recorded at intervals of twenty minutes for the space of nearly nine years!

very nearly accurate mean for the day is to take the average of the maximum and minimum readings for the day, but the resulting value is slightly too high.

It is, however, obvious that for such a mean to be strictly correct for the 24 hours of the civil day, ending at midnight, the observations of the extreme temperatures should be taken at the expiration of the interval, *i.e.*, at midnight. This is evidently not possible at all stations, and hence a chance of error may arise.

The, hitherto, ordinary practice of reading both instruments at 9 a.m. may occasionally in winter give rise to error as regards an individual day, for at that season the diurnal march of temperature is often masked by the serious contrasts between the temperatures of the winds from the different points of the compass, so that to apply the extreme readings taken at 9 a.m. to ascertain the mean temperature for the day ending at the preceding midnight, must occasionally lead to error.

Notwithstanding this objection, the mean of the maximum and minimum temperatures remains the simplest method of ascertaining the mean temperature, and the liability to error to which allusion has been made has been materially reduced by the practice, which is recommended by the Vienna Congress, of reading the maximum and minimum thermometers at the latest observing hour of the day, so that the observations shall be taken as near midnight as is reasonably possible.

REMARKS TO OBSERVERS.

NOTES ON FILLING UP THE FORM—App. II.

Experience shows that it is necessary, even at the risk of repetition, to say a few words as to the method of observing, and to point out the kind of errors to which observers are most liable in reading their instruments. The necessity for punctuality has been already mentioned.

In the following remarks a great many things will be included to which some observers will not find leisure to attend. But others may have more time; and in all cases it is advisable that observers should be on the alert as to the special points which are of most importance to be noted.

Entry of observations.

1. While too much time should never be spent in setting and reading off the instruments, anything like hurry should be still more strongly discouraged.

Let every reading be entered in a "rough book" before leaving the instruments, and examined to see that it is recorded correctly. In filling up the form see that all the necessary figures are written clearly and placed in their proper positions. Never *omit* a figure, not even the last decimal place when it is a cypher. This instruction is necessary because some observers who generally read their barometer to three places of decimals, and their thermometers to tenths, will enter "29·44" instead of "29·440," and 45° instead of 45°·0; then the figures may be placed a little out of position, and in totalling are liable to be included in the wrong column. Let the whole numbers, too, be regularly entered. In filling up the "Weather" and "Remarks" columns avoid large flourishes, in order that the letters and words may be caught by the computer without difficulty.

Reading the barometer.

2. *With regard to the Barometer.*—It is necessary that the height of the cistern of the instrument (not merely of the ground on which the house containing the instrument stands) above the mean sea level should be accurately known. In applying the corrections for altitude, due allowance must be made for the temperature of the outside air at the time of observation, and also for the approximate *sea level* pressure at the same time, as variations in either of these particulars make *material* alterations as to the correction necessary whenever the altitude exceeds about 30 feet.

Supposing, however, that the correction table is properly prepared, and the barometer truly hung, the first thing to be done in taking an observation is to read and enter the indication of the attached thermometer.

Should the barometer be on Fortin's principle, let the utmost care be exercised that the mercury in the cistern be adjusted so as

to touch, but *only just touch*, the zero point. Great care is necessary in order to do this well. Equal pains must be taken to ensure that the plane of lower edges of the back and front of the vernier may form *exactly* a tangent to the convex surface of the column.

Then in reading off, the principal errors to guard against are those of five tenths or five hundredths of an inch—so reading, say, 29·345 for 29·845 or 29·284 for 29·234, or *vice versâ*. See also that the tenths are properly counted; ·7 is often read as ·8.

Reading the thermometer.

3. *In reading thermometers*, do so as speedily as may be consistent with accuracy, and without breathing on the bulbs. Let both the maximum and minimum be read, and the reading entered and checked before the instruments are touched for setting. See that the corrected minimum reading is not higher, nor the maximum lower, than any of the dry bulb readings taken during the day. Should such a discrepancy be discovered, spare no pains to ascertain where the error has been made, and if possible *rectify* it, but do not make any forced entries in such cases, so that things may appear right which are really wrong or doubtful. It will be far better to call attention, to the discrepancy by a note, than in any way to "cook" or tamper with a reading. In setting the maximum and minimum thermometers, see that the work is done completely, so that they indicate the temperature at the time of setting. The maximum shade temperature ordinarily occurs early in the afternoon, and the minimum shortly before sunrise. Whenever it is noticed that these readings occur at abnormal hours, add a note to that effect in the "remarks" for the day. See that the wet bulb is moist and clean; and should the observer be reading to whole degrees only (*a very rough and an inadmissible practice for the higher class of stations*) take care that the difference between the dry and wet bulb readings is given to the nearest degree. The importance of this is evident on very little reflection.

Thus $\overset{\text{Dry.}}{47°\cdot4}$ $\overset{\text{Wet.}}{45°\cdot6}$ should not be entered by anyone reading to whole degrees, as 47° ↓ 46°, but as 47° ↓ 45°, for there is 1°·8 difference between the two, which is much nearer to 2° than 1°.

Should the water in the cistern of the wet bulb need replenishing, let it be done immediately *after* an observation has been made, and while doing so let the muslin, worsted, and bulb be well washed. (It is well to keep the water which is collected in the rain gauge for this purpose, as by that means the incrustation of carbonate of lime, &c., on the wet bulb is avoided, and the muslin, &c., need to be changed less frequently.)

Observations of wind.

4. *In observing the wind*, take care that no mere local eddy is entered instead of the true current prevailing over the station; and should any *marked* change take place during the interval between the observations—such as a sudden gale or severe squall—note it carefully in the "Remarks" column. Should the direction have changed much, say from S.W. to N.E., note in which way the shift took place. Both the direction and force may be best

estimated by noting the drift of smoke from tall chimneys which are *near* the observer, or from chimneys in clear spaces. The indications of anemometers placed on ordinary dwelling-houses, or in any position not *carefully* selected, should be distrusted *very* much.

Entry of clouds.

5. *Clouds.*—Note the most prevalent forms. Should any particular form be massed in one part of the heavens more than in another; or should different strata be moving in different directions, or at *very* different velocities, let such facts be entered in the "Remarks" column. When clouds are increasing, try to discover whether it is merely that they are rising from below the horizon, or that they are being formed within the sphere of observation. If the latter be the case, add a note to that effect. In the same manner, should clouds be disappearing by evaporation, let this be carefully noted. It will sometimes happen that when *cumuli* are disappearing by evaporation they become so thin that they appear almost like low *cirri;* care will therefore be necessary not to enter the wrong name. Two or more strata of clouds may be recorded by being entered with a line or lines drawn between their names, thus:—

cir	N.W.
Thin cum	S.W.
Heavy cum	S.W. fast.

where three strata are shown, together with the directions whence they are moving.

Entry of weather.

6. *Weather.*—The letters of the Beaufort notation are to be used in the Weather columns, the symbols in the Remarks column. There are three of the letters of the Beaufort notation which refer to the amount of cloud, "b." "c." and "o."; it is obvious that for any observation at a definite hour only one of these letters is admissible, thus, the weather cannot possibly be "b" and "c" at the same time. In the columns for the "Weather since last observation," it may be necessary to enter the weather for two or more intervals. When this is the case, each period should be separated by a comma; thus, "b,c,op,g," will show that the weather after being fine became overcast and showery, and afterwards gloomy, without rain. As the letter "p." when used alone, means "passing showers of rain," the letters "pr" should not be used together to signify showers of rain; but "ps" or "ph" may be used for "showers of snow" or "hail", as the case may be, and "phr" will mean "showers of hail and rain," &c. In noting Halos give the estimated length of their radius in degrees, and say whether the ring or rings have prismatic colours. Let Auroræ be carefully noted, both as to the direction in which they are seen, the altitude to which they extend, duration, colours, and brilliancy.

Entry of rain.

7. *Rainfall.*—Supposing the gauge to be properly fixed and exposed, let the water be poured steadily into the measuring glass, which must be standing on a perfectly level surface, so that none may be spilt, and enter the reading in the "rough

book," before the water is poured away. In entering the Hours of Rain, let only that period be recorded during which rain was actually falling, to the best of the observer's knowledge. When the rainfall has been much heavier during one part of a day than at others, let a note be added to that effect in the "Remarks" column.

It is not pretended that every remark necessary has been made above; but sufficient is stated to show the nature of the matters to which the greatest attention should be paid; and it is, moreover, believed that observers, by careful attention to them, will catch some idea of the spirit of watchfulness for changes in the weather which should be manifested at a good station.

In App. III. will be found the circular letter of questions addressed to all observers at stations of the second order, in connection with the Meteorological Office.

NOTES ON THE CALCULATION OF MEAN RESULTS.

Use of constants.

When summing the various columns in order to obtain the mean values, a very considerable saving of time can be effected by the use of constants. Let us suppose, for example, in the case of a column of barometrical observations for a month of 31 days, that it is evident by a mere glance at the individual observations that the mean will be 29 inches and a decimal: when summing this column, it is preferable not to sum the whole numbers of the inches, but to reject 29 inches as a constant, and merely sum the decimal parts. Let us suppose that the sum of the *decimal figures* in this column is 18·738, and that in the whole numbers of inches, 30 occurs five times, and 28 once, so that adding 1 for each 30, (its excess on the constant 29), and taking off 1 for 28, (the amount of its defect on 29), we get $18 + 5 - 1 = 22$. The sum, obtained by thus rejecting 29 inches, being accordingly 22·738, this sum is 29·000 inches × 31 (the number of observations), or 899·000 less than that obtained by simple summation; of course, when the sum is divided by the number of observations, the constant (29 inches) will be prefixed for the mean.

Constants should also be used when summing the columns for the dry and wet thermometers Vapour Tension and the maximum and minimum temperatures.

Care being necessary that the values thus thrown out should be correctly prefixed to the mean result, it is a good plan to enter the constant used in a bracket (29·0) at the foot of its proper column.

This use of constants, although in no way affecting the results obtained, is strongly recommended as a useful course to be adopted, and it will be seen that they can be employed very extensively in work of this description.

APPENDIX I.

EXPLANATION OF THE TABLES.

TABLE I. contains the correction to be applied to the readings of barometers mounted in *brass* frames, in order to reduce them to the normal temperature, 32°. It has been computed from the following formula given by Schumacher—

$$\text{Correction} = -h\,\frac{m\,(t-32) - s\,(t-62)}{1 + m\,(t-32)}$$

in which

h = reading of the barometer,
t = temperature of attached thermometer,
m = expansion of mercury for 1° F., taken as ·0001001 of its length at 32°,
s = expansion of the substance of which the scale is made; for brass s is taken as ·00001041 of its length (h) at the standard temperature for the scale, viz., 62° F.

TABLE II. is for reducing to the sea-level observations of the barometer made at any height not exceeding 1,500 feet. It is given for two pressures at the lower station, namely, 30 and 27 inches. For intermediate pressures, the correction may be obtained by proportional parts.

For heights exceeding those given in the Table, the value at the sea-level, of a barometer reading at a station, the height of which is known, may be calculated from the following formula :—

$$\text{Log}\,\frac{h}{h'} = f \div \left\{ 60159\left(1 + \frac{t+t'-64}{900}\right)\left(1 + \cdot 00268 \cos 2\,l\right)\left(1 + \frac{f+52251}{20886861}\right) \right\}$$

From a table of common logarithms, the natural number corresponding to $\log \frac{h}{h'}$ is found; or, $\frac{h}{h'} = n$,

And $h = n\,h'$.

In this formula—

h and h' = barometer reduced to 32° F. at the lower and upper stations respectively,
t and t' = the temperature of the air at the respective stations,
f = elevation of upper station in feet,
l = latitude of the place.

The above formula is merely an inversion of the well-known formula given by Laplace in his *Mécanique Céleste*, for finding the difference of elevation between any two places by means of the barometer, which, adapted to Fahrenheit's thermometer and English feet and inches, is,—

$$f = 60159 \log \frac{h}{h'}\left(1 + \frac{t+t'-64}{900}\right)\left(1 + \cdot 00268 \cos 2\,l\right)\left(1 + \frac{f+52251}{20886861} + \frac{x}{10443430}\right)$$

In this formula f is the difference of elevation between the two stations, and x is the height of the lower station above the sea-level.

In the last factor an approximate value must be used for f.

TABLE III. is for converting the reading from barometers having millimetre scales, into English inches.

TABLE IV. is for converting the readings from barometers having inch scales into millimetres.

They are computed from Captain Kater's determination of the length of the French metre in English inches (*see* Phil. Trans. for 1818, p. 109), viz., 1 metre at 32° F. = 39·37079 inches at 62° F.

Before using the Tables, the barometer observations must be reduced to the normal temperature of 32° F., as per Table I., if the scale be English; but if

it be a French scale, the French Table for the purpose must be employed, for which see Guyot's "Tables—Meteorological and Physical," published by the Smithsonian Institution.

TABLE V. is for converting the readings of barometers having old French scales (Paris Lines) into English inches.

The standard temperature for Paris lines in 61°·25 F., and for English inches 62° F. The Table supposes the barometric height to be reduced to 32°, and expressed in Paris lines at the temperature 61°·25, and gives the equivalents in inches at 62°. If used reversely the barometric height in inches should be reduced to 32° by Table I., before the corresponding value in lines is sought. As, however, the standard temperatures for the scales are so nearly alike, the consideration of their temperature may be practically disregarded.

TABLE VI. is for converting the readings of thermometers having Centigrade scales into Fahrenheit.

TABLE VII. is for converting the readings of thermometers having Fahrenheit scales into Centigrade.

TABLE VIII. is for converting the readings of thermometers having Reaumur scales into Fahrenheit.

TABLE IX. for facilitating the conversion of Rainfall measurements in millimeters (1–240) into inches, is based upon the value of the metre in inches at equal temperatures in ordinary air, namely 1 metre = 39·38203 inches. (*See* Appendix to the Fifth Report of Standards Commission, p. 186.)

TABLE X. for facilitating the conversion of Rainfall measurements in inches (0·1–20·9) into millimetres, is based upon the value of the yard in relation to the metre at equal temperatures in ordinary air, namely 1 yard = 0·91412 metre. (*See* Appendix to the Fifth Report of Standards Commission, p. 186.)

TABLE I.—Correction to be applied to Barometers with *Brass Scales*, extending from the Cistern to the top of the Mercurial Column, to reduce the observation to 32° Fahrenheit.

Temp.	INCHES.															Temp.
	24·0	24·5	25·0	25·5	26·0	26·5	27·0	27·5	28·0	28·5	29·0	29·5	30·0	30·5	31·0	
°	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	°
0	·061	·063	·064	·065	·067	·068	·069	·071	·072	·073	·074	·076	·077	·078	·080	0
1	·059	·061	·062	·063	·064	·065	·067	·068	·069	·071	·072	·073	·074	·076	·077	1
2	·057	·058	·060	·061	·062	·063	·064	·066	·067	·068	·069	·070	·072	·073	·074	2
3	·055	·056	·057	·059	·060	·061	·062	·063	·064	·065	·067	·068	·069	·070	·071	3
4	·053	·054	·055	·056	·057	·058	·059	·061	·062	·063	·064	·065	·066	·067	·068	4
5	·051	·052	.053	·054	·055	·056	·057	·058	·059	·060	·061	·062	·063	·065	·066	5
6	·049	·050	·051	·052	·053	·054	·055	·056	·057	·058	·059	·060	·061	·062	·063	6
7	·046	·047	·048	·049	·050	·051	·052	·053	·054	·055	·056	·057	·058	·059	·060	7
8	·044	·045	·046	·047	·048	·049	·050	·051	·052	·053	·054	·054	·055	·056	·057	8
9	·042	·043	·044	·045	·046	·046	·047	·048	·049	·050	·051	·052	·053	·054	·054	9
10	·040	·041	·042	·042	·043	·044	·045	·046	·047	·047	·048	·049	·050	·051	·052	10
11	·038	·039	·039	·040	·041	·042	·042	·043	·044	·045	·046	·046	·047	·048	·049	11
12	·036	·036	·037	·038	·039	·039	·040	·041	·042	·042	·043	·044	·045	·045	·046	12
13	·033	·034	·035	·036	·036	·037	·038	·038	·039	·040	·040	·041	·042	·043	·043	13
14	·031	·032	·033	·033	·034	·035	·035	·036	·037	·037	·038	·038	·039	·040	·040	14
15	·029	·030	·030	·031	·032	·032	·033	·033	·034	·035	·035	·036	·036	·037	·038	15
16	·027	·028	·028	·029	·029	·030	·030	·031	·032	·032	·033	·033	·034	·034	·035	16
17	·025	·025	·026	·026	·027	·027	·028	·028	·029	·030	·030	·031	·031	·032	·032	17
18	·023	·023	·024	·024	·025	·025	·025	·026	·026	·027	·027	·028	·028	·029	·029	18
19	·021	·021	·021	·022	·022	·023	·023	·024	·024	·024	·025	·025	·026	·026	·027	19
20	·018	·019	·019	·020	·020	·020	·021	·021	·021	·022	·022	·023	·023	·023	·024	20
21	·016	·017	·017	·017	·018	·018	·018	·019	·019	·019	·020	·020	·020	·021	·021	21
22	·014	·014	·015	·015	·015	·016	·016	·016	·016	·017	·017	·017	·018	·018	·018	22
23	·012	·012	·012	·013	·013	·013	·013	·014	·014	·014	·014	·015	·015	·015	·015	23
24	·010	·010	·010	·010	·011	·011	·011	·011	·011	·012	·012	·012	·012	·012	·013	24
25	·008	·008	·008	·008	·008	·008	·009	·009	·009	·009	·009	·009	·009	·010	·010	25
26	·005	·006	·006	·006	·006	·006	·006	·006	·006	·006	·007	·007	·007	·007	·007	26
27	·003	·003	·003	·003	·004	·004	·004	·004	·004	·004	·004	·004	·004	·004	·004	27
28	·001	·001	·001	·001	·001	·001	·001	·001	·001	·001	·001	·001	·001	·001	·001	28
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
29	·001	·001	·001	·001	·001	·001	·001	·001	·001	·001	·001	·001	·001	·001	·001	29
30	·003	·003	·003	·004	·004	·004	·004	·004	·004	·004	·004	·004	·004	·004	·004	30
31	·005	·006	·006	·006	·006	·006	·006	·006	·006	·006	·007	·007	·007	·007	·007	31
32	·008	·008	·008	·008	·008	·008	·008	·009	·009	·009	·009	·009	·009	·010	·010	32
33	·010	·010	·010	·010	·011	·011	·011	·011	·011	·012	·012	·012	·012	·012	·012	33
34	·012	·012	·012	·013	·013	·013	·013	·014	·014	·014	·014	·015	·015	·015	·015	34
35	·014	·014	·015	·015	·015	·015	·016	·016	·016	·017	·017	·017	·018	·018	·018	35
36	·016	·017	·017	·017	·017	·018	·018	·019	·019	·019	·020	·020	·020	·021	·021	36
37	·018	·019	·019	·019	·020	·020	·021	·021	·021	·022	·022	·022	·023	·023	·024	37
38	·020	·021	·021	·022	·022	·023	·023	·023	·024	·024	·025	·025	·026	·026	·026	38
39	·023	·023	·024	·024	·024	·025	·025	·026	·026	·027	·027	·028	·028	·029	·029	39
40	·025	·025	·026	·026	·027	·027	·028	·028	·029	·029	·030	·030	·031	·031	·032	40
41	·027	·027	·028	·029	·029	·030	·030	·031	·031	·032	·033	·033	·034	·034	·035	41
42	·029	·030	·030	·031	·031	·032	·033	·033	·034	·034	·035	·036	·036	·037	·037	42
43	·031	·032	·032	·033	·034	·034	·035	·036	·036	·037	·038	·038	·039	·040	·040	43
44	·033	·034	·035	·035	·036	·037	·037	·038	·039	·040	·040	·041	·042	·042	·043	44
45	·035	·036	·037	·038	·038	·039	·040	·041	·041	·042	·043	·044	·044	·045	·046	45
46	·038	·038	·039	·040	·041	·042	·042	·043	·044	·045	·045	·046	·047	·048	·049	46
47	·040	·041	·041	·042	·043	·044	·045	·046	·046	·047	·048	·049	·050	.051	·051	47
48	·042	·043	·044	·045	·045	·046	·047	·048	·049	·050	·051	·052	·052	·053	·054	48
49	·044	·045	·046	·047	·048	·049	·050	·050	·051	·052	·053	·054	·055	·056	·057	49
50	·046	·047	·048	·049	·050	·051	·052	·053	·054	·055	·056	·057	·058	·059	·060	50

TABLE I.—*continued.*

Temp.	INCHES.															Temp.
	24·0	24·5	25·0	25·5	26·0	26·5	27·0	27·5	28·0	28·5	29·0	29·5	30·0	30·5	31·0	
°	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	°
51	·048	·049	·050	·051	·052	·053	·054	·055	·056	·057	·058	·059	·060	·061	·062	51
52	·050	·052	·053	·054	·055	·056	·057	·058	·059	·060	·061	·062	·063	·064	·065	52
53	·053	·054	·055	·056	·057	·058	·059	·060	·061	·063	·064	·065	·066	·067	·068	53
54	·055	·056	·057	·058	·059	·060	·062	·063	·064	·065	·066	·067	·068	·070	·071	54
55	·057	·058	·059	·060	·062	·063	·064	·065	·066	·068	·069	·070	·071	·072	·073	55
56	·059	·060	·061	·063	·064	·065	·066	·068	·069	·070	·071	·073	·074	·075	·076	56
57	·061	·062	·064	·065	·066	·068	·069	·070	·071	·073	·074	·075	·076	·078	·079	57
58	·063	·065	·066	·067	·069	·070	·071	·073	·074	·075	·077	·078	·079	·081	·082	58
59	·065	·067	·068	·070	·071	·072	·074	·075	·076	·078	·079	·080	·082	·083	·085	59
60	·068	·069	·070	·072	·073	·075	·076	·077	·079	·080	·082	·083	·085	·086	·087	60
61	·070	·071	·073	·074	·075	·077	·078	·080	·081	·083	·084	·086	·087	·089	·090	61
62	·072	·073	·075	·076	·078	·079	·081	·082	·084	·085	·087	·088	·090	·091	·093	62
63	·074	·076	·077	·079	·080	·082	·083	·085	·086	·088	·089	·091	·093	·094	·096	63
64	·076	·078	·079	·081	·082	·084	·086	·087	·089	·090	·092	·094	·095	·097	·098	64
65	·078	·080	·082	·083	·085	·086	·088	·090	·091	·093	·095	·096	·098	·100	·101	65
66	·080	·082	·084	·085	·087	·089	·090	·092	·094	·096	·097	·099	·101	·102	·104	66
67	·083	·084	·086	·088	·089	·091	·093	·095	·096	·098	·100	·102	·103	·105	·107	67
68	·085	·086	·088	·090	·092	·094	·095	·097	·099	·101	·102	·104	·106	·108	·109	68
69	·087	·089	·090	·092	·094	·096	·098	·100	·101	·103	·105	·107	·109	·110	·112	69
70	·089	·091	·093	·095	·096	·098	·100	·102	·104	·106	·108	·109	·111	·113	·115	70
71	·091	·093	·095	·097	·099	·101	·102	·104	·106	·108	·110	·112	·114	·116	·118	71
72	·093	·095	·097	·099	·101	·103	·105	·107	·109	·111	·113	·115	·117	·119	·120	72
73	·095	·097	·099	·101	·103	·105	·107	·109	·111	·113	·115	·117	·119	·121	·123	73
74	·097	·099	·102	·104	·106	·108	·110	·112	·114	·116	·118	·120	·122	·124	·126	74
75	.100	·102	·104	·106	·108	·110	·112	·114	·116	·118	·120	·122	·125	·127	·129	75
76	·102	·104	·106	·108	·110	·112	·114	·117	·119	·121	·123	·125	·127	·129	·131	76
77	·104	·106	·108	·110	·112	·115	·117	·119	·121	·123	·126	·128	·130	·132	·134	77
78	·106	·108	·110	·113	·115	·117	·119	·122	·124	·126	·128	·130	·133	·135	·137	78
79	·108	·110	·113	·115	·117	·119	·122	·124	·126	·128	·131	·133	·135	·137	·140	79
80	·110	·113	·115	·117	·119	·122	·124	·126	·129	·131	·133	·136	·138	·140	·143	80
81	·112	·115	·117	·119	·122	·124	·126	·129	·131	·134	·136	·138	·141	·143	·145	81
82	·114	·117	·119	·122	·124	·126	·129	·131	·134	·136	·138	·141	·143	·146	·148	82
83	·117	·119	·121	·124	·126	·129	·131	·134	·136	·139	·141	·143	·146	·148	·151	83
84	·119	·121	·124	·126	·129	·131	·134	·136	·139	·141	·144	·146	·149	·151	·154	84
85	·121	·123	·126	·128	·131	·133	·136	·139	·141	·144	·146	·149	·151	·154	·156	85
86	·123	·126	·128	·131	·133	·136	·138	·141	·144	·146	·149	·151	·154	·156	·159	86
87	·125	·128	·130	·133	·136	·138	·141	·143	·146	·149	·151	·154	·157	·159	·162	87
88	·127	·130	·133	·135	·138	·141	·143	·146	·149	·151	·154	·157	·159	·162	·165	88
89	·129	·132	·135	·137	·140	·143	·146	·148	·151	·154	·156	·159	·162	·165	·167	89
90	·131	·134	·137	·140	·142	·145	·148	·151	·153	·156	·159	·162	·164	·167	·170	90
91	·134	·136	·139	·142	·145	·148	·150	·153	·156	·159	·162	·165	·167	·170	·173	91
92	·136	·139	·141	·144	·147	·150	·153	·156	·158	·161	·164	·167	·170	·172	·175	92
93	.138	·141	·144	·147	·149	·152	·155	·158	·161	·164	·167	·170	·172	·175	·178	93
94	·140	·143	·146	·149	·152	·155	·157	·161	·163	·166	·169	·172	·175	·177	·180	94
95	·142	·145	·148	·151	·154	·157	·160	·163	·166	·169	·172	·175	·178	·180	·185	95
96	·144	·147	·150	·153	·156	·159	·162	·165	·168	·171	·174	·178	·181	·183	·183	96
97	·146	·149	·152	·156	·159	·162	·165	·168	·171	·174	·177	·180	·183	·186	·189	97
98	·148	·152	·155	·158	·161	·164	·167	·170	·173	·176	·179	·183	·186	·188	·191	98
99	·151	·154	·157	·160	·163	·166	·169	·173	·176	·179	·182	·185	·188	·191	·194	99
100	·153	·156	·159	·162	·165	·169	·172	·175	·178	·181	·184	·188	·191	·194	·197	100

TABLE II.

TABLE for reducing OBSERVATIONS of the BAROMETER to SEA LEVEL, CORRECTION additive.

(Barometer Reading at Sea Level, 30 inches.)

Height in Feet.	TEMPERATURE OF EXTERNAL AIR—DEGREES FAHRENHEIT.													Height in Feet.
	−20°	−10°	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	
10	·013	·013	·012	·012	·012	·012	·011	·011	·011	·011	·010	·010	·010	10
20	·026	·025	·025	·024	·023	·023	·023	·022	·022	·021	·021	·020	·020	20
30	·039	·038	·037	·036	·035	·034	·034	·033	·032	·032	·031	·030	·030	30
40	·052	·050	·049	·048	·047	·046	·045	·044	·043	·042	·041	·040	·040	40
50	·065	·063	·061	·060	·059	·058	·056	·055	·054	·053	·052	·051	·050	50
60	·077	·076	·074	·072	·070	·069	·068	·066	·065	·063	·062	·061	·059	60
70	·090	·088	·086	·084	·082	·081	·078	·077	·076	·074	·072	·071	·069	70
80	·103	·101	·098	·096	·094	·092	·090	·088	·086	·084	·082	·081	·079	80
90	·116	·113	·111	·108	·105	·104	·101	·099	·097	·095	·093	·091	·089	90
100	·129	·126	·123	·120	·117	·115	·112	·110	·108	·105	·103	·101	·099	100
110	·142	·139	·135	·132	·129	·126	·123	·121	·119	·116	·113	·111	·109	110
120	·155	·151	·148	·144	·140	·138	·134	·132	·129	·126	·124	·121	·119	120
130	·168	·164	·160	·156	·152	·149	·146	·143	·140	·137	·134	·131	·129	130
140	·181	·176	·172	·168	·164	·161	·157	·154	·151	·147	·144	·141	·139	140
150	·194	·189	·185	·180	·176	·172	·168	·165	·162	·158	·155	·152	·149	150
160	·206	·201	·197	·192	·187	·183	·179	·176	·172	·168	·165	·162	·158	160
170	·219	·214	·209	·204	·199	·195	·190	·187	·183	·179	·175	·172	·168	170
180	·232	·227	·222	·216	·211	·206	·202	·198	·194	·189	·185	·182	·178	180
190	·245	·239	·234	·228	·222	·218	·213	·209	·204	·200	·196	·192	·188	190
200	·258	·252	·246	·240	·234	·229	·224	·220	·215	·210	·206	·202	·198	200
210	·271	·264	·258	·252	·246	·240	·235	·231	·226	·221	·216	·212	·208	210
220	·284	·277	·270	·264	·257	·252	·246	·242	·236	·231	·227	·222	·218	220
230	·296	·289	·283	·276	·269	·263	·257	·253	·247	·242	·237	·232	·228	230
240	·309	·302	·295	·288	·281	·275	·269	·264	·258	·252	·248	·242	·238	240
250	·322	·314	·307	·300	·293	·286	·280	·275	·269	·263	·258	·253	·248	250
260	·335	·327	·319	·311	·304	·297	·291	·285	·279	·273	·268	·263	·257	260
270	·348	·339	·331	·323	·316	·309	·302	·296	·290	·284	·278	·273	·267	270
280	·360	·352	·344	·335	·328	·320	·314	·307	·301	·294	·288	·283	·277	280
290	·373	·364	·356	·347	·339	·332	·325	·318	·311	·305	·299	·293	·287	290
300	·386	·377	·368	·359	·351	·343	·336	·329	·322	·315	·309	·303	·297	300
310	·399	·389	·380	·371	·363	·354	·347	·340	·333	·326	·319	·313	·307	310
320	·412	·402	·392	·383	·374	·366	·358	·351	·343	·336	·329	·323	·317	320
330	·424	·414	·404	·395	·386	·377	·369	·362	·354	·347	·340	·333	·326	330
340	·437	·427	·416	·407	·397	·389	·380	·373	·365	·357	·350	·343	·336	340
350	·450	·439	·429	·419	·409	·400	·392	·384	·376	·368	·360	·353	·346	350
360	·463	·451	·441	·430	·421	·411	·403	·394	·386	·378	·370	·363	·356	360
370	·476	·464	·453	·442	·432	·423	·414	·405	·397	·389	·380	·373	·366	370
380	·488	·476	·465	·454	·444	·434	·425	·416	·408	·399	·391	·383	·375	380
390	·501	·489	·477	·466	·455	·446	·436	·427	·418	·410	·401	·393	·385	390
400	·514	·501	·489	·478	·467	·457	·447	·438	·429	·420	·411	·403	·395	400
410	·527	·513	·501	·490	·479	·468	·458	·449	·440	·430	·421	·413	·405	410
420	·539	·526	·513	·502	·490	·480	·469	·460	·450	·441	·431	·423	·415	420
430	·552	·538	·525	·513	·502	·491	·480	·470	·461	·451	·442	·433	·425	430
440	·565	·551	·537	·525	·513	·502	·491	·481	·471	·462	·452	·443	·434	440
450	·578	·563	·550	·537	·525	·513	·503	·492	·482	·472	·462	·453	·444	450
460	·590	·575	·562	·549	·537	·525	·514	·503	·493	·482	·472	·463	·454	460
470	·603	·588	·574	·561	·548	·536	·525	·514	·503	·493	·482	·473	·464	470
480	·616	·600	·586	·572	·560	·547	·536	·524	·514	·503	·493	·483	·474	480
490	·628	·613	·598	·584	·571	·559	·547	·535	·524	·514	·503	·493	·483	490
500	·641	·625	·610	·596	·583	·570	·558	·546	·535	·524	·513	·503	·493	500

TABLE II.—*continued.*

(Barometer Reading at Sea Level, 27 inches.)

Height in Feet.	TEMPERATURE OF EXTERNAL AIR—DEGREES FAHRENHEIT.													Height in Feet.
	−20°	−10°	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	
10	·012	·011	·011	·011	·011	·010	·010	·010	·010	·010	·009	·009	·009	10
20	·023	·023	·022	·022	·021	·021	·020	·020	·019	·019	·019	·018	·018	20
30	·035	·034	·033	·032	·032	·031	·030	·030	·029	·028	·028	·027	·027	30
40	·046	·046	·044	·043	·042	·041	·040	·040	·039	·038	·037	·036	·036	40
50	·058	·057	·056	·054	·053	·052	·051	·050	·049	·048	·047	·046	·045	50
60	·070	·068	·067	·065	·064	·062	·061	·059	·058	·057	·056	·055	·053	60
70	·081	·080	·078	·076	·074	·072	·071	·069	·068	·066	·065	·064	·062	70
80	·093	·091	·089	·086	·085	·082	·081	·079	·078	·076	·074	·073	·071	80
90	·104	·103	·100	·097	·095	·093	·091	·089	·087	·085	·084	·082	·080	90
100	·116	·114	·111	·108	·106	·103	·101	·099	·097	·095	·093	·091	·089	100
110	·128	·125	·122	·119	·116	·113	·111	·109	·107	·104	·102	·100	·098	110
120	·139	·137	·133	·130	·127	·124	·121	·119	·116	·114	·112	·109	·107	120
130	·151	·148	·144	·140	·137	·134	·131	·129	·126	·123	·121	·118	·116	130
140	·162	·159	·155	·151	·148	·144	·141	·139	·136	·133	·130	·127	·125	140
150	·174	·170	·166	·162	·158	·155	·152	·149	·146	·142	·139	·136	·134	150
160	·186	·182	·177	·173	·169	·165	·162	·158	·155	·152	·149	·146	·143	160
170	·197	·193	·188	·184	·179	·175	·172	·168	·165	·161	·158	·155	·152	170
180	·209	·204	·199	·194	·190	·185	·182	·178	·175	·171	·167	·164	·161	180
190	·220	·216	·210	·205	·200	·196	·192	·188	·184	·180	·177	·173	·170	190
200	·232	·227	·221	·216	·211	·206	·202	·198	·194	·190	·186	·182	·178	200
210	·244	·238	·232	·227	·221	·216	·212	·208	·204	·199	·195	·191	·187	210
220	·255	·249	·243	·237	·232	·227	·222	·218	·213	·209	·204	·200	·196	220
230	·267	·261	·254	·248	·242	·237	·232	·227	·223	·218	·214	·209	·205	230
240	·278	·272	·265	·259	·253	·247	·242	·237	·232	·228	·223	·218	·214	240
250	·290	·283	·276	·270	·263	·258	·252	·247	·242	·237	·232	·227	·223	250
260	·301	·294	·287	·280	·274	·268	·262	·257	·252	·246	·241	·236	·231	260
270	·313	·305	·298	·291	·284	·278	·272	·267	·261	·256	·250	·245	·240	270
280	·324	·317	·309	·302	·295	·288	·282	·276	·271	·265	·260	·254	·249	280
290	·336	·328	·320	·312	·305	·299	·292	·286	·280	·275	·269	·263	·258	290
300	·347	·339	·331	·323	·316	·309	·302	·296	·290	·284	·278	·272	·267	300
310	·359	·350	·342	·334	·326	·319	·312	·306	·300	·293	·287	·281	·276	310
320	·370	·361	·353	·344	·337	·329	·322	·316	·309	·303	·296	·290	·285	320
330	·382	·373	·364	·355	·347	·340	·332	·325	·319	·312	·306	·299	·294	330
340	·393	·384	·375	·366	·358	·350	·342	·335	·328	·322	·315	·308	·303	340
350	·405	·395	·386	·377	·368	·360	·352	·345	·338	·331	·324	·318	·312	350
360	·416	·406	·396	·387	·378	·370	·362	·355	·348	·340	·333	·327	·320	360
370	·428	·417	·407	·398	·389	·380	·372	·365	·357	·350	·342	·336	·329	370
380	·439	·429	·418	·409	·399	·391	·382	·374	·367	·359	·352	·345	·338	380
390	·451	·440	·429	·419	·410	·401	·392	·384	·376	·369	·361	·354	·347	390
400	·462	·451	·440	·430	·420	·411	·402	·394	·386	·378	·370	·363	·356	400
410	·473	·462	·451	·441	·430	·421	·412	·404	·395	·387	·379	·372	·365	410
420	·485	·473	·462	·451	·441	·431	·422	·413	·405	·397	·388	·381	·374	420
430	·496	·485	·473	·462	·451	·442	·432	·423	·414	·406	·398	·390	·382	430
440	·508	·496	·484	·472	·462	·452	·442	·433	·424	·415	·407	·399	·391	440
450	·519	·507	·495	·483	·472	·462	·452	·442	·433	·424	·416	·408	·400	450
460	·530	·518	·505	·494	·482	·472	·462	·452	·443	·434	·425	·417	·409	460
470	·542	·529	·516	·504	·493	·482	·472	·462	·452	·443	·434	·426	·418	470
480	·553	·541	·527	·515	·503	·493	·482	·472	·462	·452	·444	·435	·426	480
490	·565	·552	·538	·525	·514	·503	·492	·481	·471	·462	·453	·444	·435	490
500	·576	·563	·549	·536	·524	·513	·502	·491	·481	·471	·462	·453	·444	500

TABLE II.—*continued.*

(Barometer at Sea Level, 30 inches.)

Height in Feet.	TEMPERATURE OF EXTERNAL AIR—DEGREES FAHRENHEIT.													Height in Feet.
	−20°	−10°	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	
510	·654	·637	·622	·608	·594	·581	·569	·557	·545	·534	·523	·513	·503	510
520	·666	·650	·634	·620	·606	·593	·580	·568	·556	·545	·533	·523	·513	520
530	·679	·662	·646	·631	·617	·604	·591	·578	·566	·555	·544	·533	·522	530
540	·691	·675	·658	·643	·629	·615	·602	·589	·577	·565	·554	·543	·532	540
550	·704	·687	·670	·655	·640	·626	·613	·600	·587	·575	·564	·553	·542	550
560	·717	·699	·683	·667	·652	·638	·624	·611	·598	·586	·574	·563	·552	560
570	·729	·712	·695	·679	·663	·649	·635	·622	·608	·596	·584	·573	·562	570
580	·742	·724	·707	·690	·675	·660	·646	·632	·619	·606	·595	·583	·571	580
590	·754	·737	·719	·702	·686	·672	·657	·643	·629	·617	·605	·593	·581	590
600	·767	·749	·731	·714	·698	·683	·668	·654	·640	·627	·615	·603	·591	600
610	·780	·761	·743	·726	·709	·694	·679	·665	·650	·637	·625	·613	·601	610
620	·792	·774	·755	·738	·721	·705	·690	·675	·661	·648	·635	·623	·611	620
630	·805	·786	·767	·749	·732	·717	·701	·686	·671	·658	·645	·633	·620	630
640	·817	·798	·779	·761	·744	·728	·712	·697	·682	·668	·655	·643	·630	640
650	·830	·811	·791	·773	·755	·739	·723	·708	·692	·679	·666	·653	·640	650
660	·843	·823	·803	·785	·767	·750	·734	·718	·703	·689	·676	·662	·650	660
670	·855	·835	·815	·797	·778	·761	·745	·729	·713	·699	·686	·672	·660	670
680	·868	·847	·827	·808	·790	·773	·756	·740	·724	·709	·696	·682	·669	680
690	·880	·860	·839	·820	·801	·784	·767	·750	·734	·720	·706	·692	·679	690
700	·893	·872	·851	·832	·813	·795	·778	·761	·745	·730	·716	·702	·689	700
710	·905	·884	·863	·844	·824	·806	·789	·772	·755	·740	·726	·712	·698	710
720	·918	·896	·875	·855	·836	·817	·800	·782	·766	·751	·736	·722	·708	720
730	·930	·909	·887	·867	·847	·829	·811	·793	·776	·761	·746	·732	·718	730
740	·943	·921	·899	·879	·859	·840	·822	·804	·787	·771	·756	·742	·728	740
750	·955	·933	·911	·891	·870	·851	·833	·815	·797	·782	·767	·752	·738	750
760	·968	·945	·922	·902	·881	·862	·843	·825	·808	·792	·777	·761	·747	760
770	·980	·957	·934	·914	·893	·873	·854	·836	·818	·802	·787	·771	·757	770
780	·993	·970	·946	·926	·904	·885	·865	·847	·829	·812	·797	·781	·767	780
790	1·005	·982	·958	·937	·916	·896	·876	·857	·839	·823	·807	·791	·776	790
800	1·018	·994	·970	·949	·927	·907	·887	·868	·850	·833	·817	·801	·786	800
810	1·030	1·006	·982	·961	·938	·918	·898	·878	·860	·843	·827	·811	·796	810
820	1·043	1·018	·994	·972	·950	·929	·909	·889	·871	·854	·837	·821	·805	820
830	1·055	1·031	1·006	·984	·961	·940	·920	·900	·881	·864	·847	·831	·815	830
840	1·068	1·043	1·018	·995	·973	·951	·931	·911	·892	·874	·857	·841	·825	840
850	1·080	1·055	1·030	1·007	·984	·962	·942	·922	·902	·885	·867	·851	·835	850
860	1·093	1·067	1·041	1·019	·995	·974	·952	·932	·913	·895	·877	·860	·844	860
870	1·105	1·079	1·053	1·030	1·007	·985	·963	·943	·923	·905	·887	·870	·854	870
880	1·118	1·092	1·065	1·042	1·018	·996	·974	·954	·934	·915	·897	·880	·864	880
890	1·130	1·104	1·077	1·053	1·030	1·007	·985	·964	·944	·926	·907	·890	·873	890
900	1·143	1·116	1·089	1·065	1·041	1·018	·996	·975	·955	·936	·917	·900	·883	900
910	1·155	1·128	1·101	1·077	1·052	1·029	1·007	·986	·965	·946	·927	·910	·893	910
920	1·168	1·140	1·113	1·088	1·064	1·040	1·018	·996	·976	·956	·937	·920	·902	920
930	1·180	1·152	1·125	1·100	1·075	1·051	1·029	1·007	·986	·967	·947	·929	·912	930
940	1·193	1·164	1·137	1·111	1·086	1·062	1·040	1·017	·997	·977	·957	·939	·921	940
950	1·205	1·177	1·149	1·123	1·098	1·074	1·051	1·028	1·007	·987	·967	·949	·931	950
960	1·217	1·189	1·160	1·135	1·109	1·085	1·061	1·039	1·017	·997	·977	·959	·941	960
970	1·230	1·201	1·172	1·146	1·120	1·096	1·072	1·049	1·028	1·007	·987	·969	·950	970
980	1·242	1·213	1·184	1·158	1·131	1·107	1·083	1·060	1·038	1·018	·997	·978	·960	980
990	1·255	1·225	1·196	1·169	1·143	1·118	1·094	1·070	1·049	1·028	1·007	·988	·969	990
1,000	1·267	1·237	1·208	1·181	1·154	1·129	1·105	1·081	1·059	1·038	1·017	·998	·979	1,000

TABLE II.—*continued.*

(Barometer at Sea Level, 27 inches.)

Height in Feet.	TEMPERATURE OF EXTERNAL AIR—DEGREES FAHRENHEIT.													Height in Feet.
	−20°	−10°	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	
510	·587	·574	·560	·547	·534	·523	·512	·501	·490	·480	·471	·462	·453	510
520	·599	·585	·571	·557	·545	·533	·522	·510	·500	·490	·480	·471	·462	520
530	·610	·596	·582	·568	·555	·543	·532	·520	·509	·499	·489	·480	·470	530
540	·622	·607	·593	·578	·566	·553	·542	·530	·519	·508	·498	·489	·479	540
550	·633	·619	·604	·589	·576	·564	·552	·540	·528	·518	·508	·498	·488	550
560	·644	·630	·614	·600	·586	·574	·561	·549	·538	·527	·517	·506	·497	560
570	·656	·641	·625	·610	·597	·584	·571	·559	·547	·536	·526	·515	·506	570
580	·667	·652	·636	·621	·607	·594	·581	·569	·557	·545	·535	·524	·514	580
590	·679	·663	·647	·631	·618	·604	·591	·578	·566	·555	·544	·533	·523	590
600	·690	·674	·658	·642	·628	·614	·601	·588	·576	·564	·553	·542	·532	600
610	·701	·685	·669	·653	·638	·624	·611	·598	·585	·573	·562	·551	·541	610
620	·713	·696	·680	·663	·649	·634	·621	·607	·595	·583	·571	·560	·550	620
630	·724	·707	·690	·674	·659	·644	·631	·617	·604	·592	·580	·569	·558	630
640	·736	·718	·701	·684	·669	·654	·641	·627	·614	·601	·589	·578	·567	640
650	·747	·730	·712	·695	·680	·665	·651	·637	·623	·611	·599	·587	·576	650
660	·758	·741	·723	·706	·690	·675	·660	·646	·633	·620	·608	·596	·585	660
670	·770	·752	·734	·716	·700	·685	·670	·656	·642	·629	·617	·605	·594	670
680	·781	·763	·744	·727	·710	·695	·680	·666	·652	·638	·626	·614	·602	680
690	·793	·774	·755	·737	·721	·705	·690	·675	·661	·648	·635	·623	·611	690
700	·804	·785	·766	·748	·731	·715	·700	·685	·671	·657	·644	·632	·620	700
710	·815	·796	·777	·758	·741	·725	·710	·695	·680	·666	·653	·641	·629	710
720	·827	·807	·787	·769	·752	·735	·720	·704	·690	·676	·662	·650	·637	720
730	·838	·818	·798	·779	·762	·745	·729	·714	·699	·685	·671	·659	·646	730
740	·849	·829	·809	·790	·772	·755	·739	·723	·709	·694	·680	·668	·655	740
750	·861	·840	·820	·800	·783	·766	·749	·733	·718	·704	·690	·677	·664	750
760	·872	·851	·830	·811	·793	·776	·759	·743	·727	·713	·699	·685	·672	760
770	·883	·862	·841	·821	·803	·786	·769	·752	·737	·722	·708	·694	·681	770
780	·894	·873	·852	·832	·813	·796	·778	·762	·746	·731	·717	·703	·690	780
790	·906	·884	·862	·842	·824	·806	·788	·771	·756	·741	·726	·712	·698	790
800	·917	·895	·873	·853	·834	·816	·798	·781	·765	·750	·735	·721	·707	800
810	·928	·906	·884	·863	·844	·826	·808	·791	·774	·759	·744	·730	·716	810
820	·939	·917	·894	·874	·855	·836	·818	·800	·784	·768	·753	·739	·724	820
830	·951	·928	·905	·884	·865	·846	·827	·810	·793	·778	·762	·747	·733	830
840	·962	·939	·916	·895	·875	·856	·837	·819	·803	·787	·771	·756	·742	840
850	·973	·950	·927	·905	·886	·866	·847	·829	·812	·796	·780	·765	·751	850
860	·984	·960	·937	·916	·896	·876	·857	·839	·821	·805	·789	·774	·759	860
870	·995	·971	·948	·926	·906	·886	·867	·848	·831	·814	·798	·783	·768	870
880	1·007	·982	·959	·937	·916	·896	·876	·858	·840	·824	·807	·791	·777	880
890	1·018	·993	·969	·947	·927	·906	·886	·867	·850	·833	·816	·800	·785	890
900	1·029	1·004	·980	·958	·937	·916	·896	·877	·859	·842	·825	·809	·794	900
910	1·040	1·015	·991	·968	·947	·926	·906	·887	·868	·851	·834	·818	·803	910
920	1·051	1·026	1·001	·979	·957	·936	·916	·896	·878	·860	·843	·827	·811	920
930	1·063	1·037	1·012	·989	·968	·946	·925	·906	·887	·870	·852	·836	·820	930
940	1·074	1·048	1·023	1·000	·978	·956	·935	·915	·897	·879	·861	·845	·829	940
950	1·085	1·059	1·034	1·010	·988	·966	·945	·925	·906	·888	·870	·854	·838	950
960	1·096	1·069	1·044	1·020	·998	·976	·955	·935	·915	·897	·879	·862	·846	960
970	1·107	1·080	1·055	1·031	1·008	·986	·965	·944	·925	·906	·888	·871	·855	970
980	1·119	1·091	1·066	1·041	1·019	·996	·974	·954	·934	·916	·897	·880	·864	980
990	1·130	1·102	1·076	1·052	1·029	1·006	·984	·963	·944	·925	·906	·889	·872	990
1,000	1·141	1·113	1·087	1·062	1·039	1·016	·994	·973	·953	·934	·915	·898	·881	1,000

TABLE II.—*continued.*

(Barometer at Sea Level, 30 inches.)

Height in Feet.	TEMPERATURE OF EXTERNAL AIR—DEGREES FAHRENHEIT.													Height in Feet.
	−20°	−10°	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	
1,010	1·279	1·249	1·220	1·192	1·165	1·140	1·116	1·092	1·069	1·048	1·027	1·008	0·989	1,010
1,020	1·292	1·261	1·232	1·204	1·177	1·151	1·127	1·102	1·080	1·058	1·037	1·018	0·998	1,020
1,030	1·304	1·273	1·243	1·215	1·188	1·162	1·137	1·113	1·090	1·069	1·047	1·027	1·008	1,030
1,040	1·317	1·285	1·255	1·227	1·199	1·173	1·148	1·123	1·101	1·079	1·057	1·037	1·017	1,040
1,050	1·329	1·298	1·267	1·238	1·211	1·184	1·159	1·134	1·111	1·089	1·067	1·047	1·027	1,050
1,060	1·341	1·310	1·279	1·250	1·222	1·195	1·170	1·145	1·121	1·099	1·077	1·057	1·037	1,060
1,070	1·354	1·322	1·291	1·261	1·233	1·206	1·181	1·155	1·132	1·109	1·087	1·067	1·046	1,070
1,080	1·366	1·334	1·302	1·273	1·244	1·217	1·191	1·166	1·142	1·120	1·097	1·076	1·056	1,080
1,090	1·379	1·346	1·314	1·284	1·256	1·228	1·202	1·176	1·153	1·130	1·107	1·086	1·065	1,090
1,100	1·391	1·358	1·326	1·296	1·267	1·239	1·213	1·187	1·163	1·140	1·117	1·096	1·075	1,100
1,110	1·403	1·370	1·338	1·307	1·278	1·250	1·224	1·198	1·173	1·150	1·127	1·106	1·085	1,110
1,120	1·416	1·382	1·350	1·319	1·289	1·261	1·235	1·208	1·184	1·160	1·137	1·115	1·094	1,120
1 130	1·428	1·394	1·361	1·330	1·301	1·272	1·245	1·219	1·194	1·170	1·147	1·125	1·104	1,130
1,140	1·440	1·406	1·373	1·342	1·312	1·283	1·256	1·229	1·204	1·180	1·157	1·135	1·113	1,140
1,150	1·453	1·418	1·385	1·353	1·323	1·294	1·267	1·240	1·215	1·191	1·167	1·145	1·125	1,150
1,160	1·465	1·430	1·397	1·365	1·334	1·305	1·278	1 251	1·225	1·201	1·177	1·154	1·133	1,160
1,170	1·477	1·442	1·409	1·376	1·345	1·316	1·289	1·261	1·235	1·211	1·187	1·164	1·142	1,170
1,180	1·489	1·454	1·420	1·388	1·357	1·327	1·299	1·272	1·245	1·221	1·197	1·174	1·152	1,180
1,190	1·502	1·466	1·432	1·399	1·368	1·338	1·310	1·282	1·256	1·231	1·207	1·183	1·161	1,190
1,200	1·514	1·478	1·444	1·411	1·379	1·349	1·321	1·293	1·266	1·241	1·217	1·193	1·171	1,200
1,210	1·526	1·490	1·456	1·422	1·390	1·360	1·332	1·303	1·276	1·251	1·227	1·203	1·180	1,210
1,220	1·539	1·502	1·467	1·434	1·401	1·371	1·342	1·314	1·287	1·261	1·237	1·212	1·190	1,220
1,230	1·551	1·514	1·479	1·445	1·413	1·382	1·353	1·324	1·297	1·271	1·247	1·222	1·199	1,230
1,240	1·563	1·526	1·491	1·457	1·424	1·393	1·364	1·335	1·307	1·281	1·257	1·232	1·209	1,240
1,250	1·576	1·538	1·502	1·468	1·435	1·404	1·374	1·345	1·317	1·291	1·266	1·242	1·218	1,250
1,260	1·588	1·550	1·514	1·479	1·446	1·415	1·385	1·356	1·328	1·302	1·276	1·251	1·228	1,260
1,270	1·600	1·562	1·526	1·491	1·457	1·426	1·396	1·366	1·338	1·312	1·286	1·261	1·237	1,270
1,280	1·612	1·574	1·538	1·502	1·469	1·437	1·407	1·377	1·348	1·322	1·296	1·271	1·247	1,280
1,290	1·625	1·586	1·549	1·514	1·480	1·448	1·417	1·387	1·359	1·332	1·306	1·280	1·256	1,290
1,300	1·637	1·598	1·561	1·525	1·491	1·459	1·428	1·398	1·369	1·342	1·316	1·290	1·266	1,300
1,310	1·649	1·610	1·573	1·536	1·502	1·470	1·439	1·408	1·379	1·352	1·326	1·300	1·275	1,310
1,320	1·661	1·622	1·584	1·548	1·513	1·481	1·449	1·419	1·390	1·362	1·336	1·309	1·285	1,320
1,330	1·674	1·634	1·596	1·559	1·525	1·492	1·460	1·429	1·400	1·372	1·346	1·319	1·294	1,330
1,340	1·686	1·646	1·608	1·571	1·536	1·503	1·471	1·440	1·410	1·382	1·356	1·329	1·304	1,340
1,350	1·698	1·658	1·620	1·582	1·547	1·514	1·482	1·450	1·420	1·393	1·366	1·339	1·313	1,350
1,360	1·710	1·669	1·631	1·593	1·558	1·524	1·492	1·461	1·431	1·403	1·375	1·348	1·323	1,360
1,370	1·722	1·681	1·643	1·605	1·569	1·535	1·503	1·471	1·441	1·413	1·385	1·358	1·332	1,370
1,380	1·735	1·693	1·655	1·616	1·581	1·546	1·514	1·482	1·451	1·423	1·395	1·368	1·342	1,380
1,390	1·747	1·705	1·666	1·628	1·592	1·557	1·524	1·492	1·462	1·433	1·405	1·377	1·351	1,390
1,400	1·759	1·717	1·678	1·639	1·603	1·568	1·535	1·503	1·472	1·443	1·415	1·387	1·361	1,400
1,410	1·771	1·729	1·690	1·650	1·614	1·579	1·546	1·513	1·482	1·453	1·425	·397	1·370	1,410
1,420	1·783	1·741	·701	1·662	1·625	1·590	1·556	1·524	1·492	1·463	1·435	·406	1·380	1,420
1,430	1·796	1·753	1·713	1·673	1·636	1·601	1·567	1·534	1·503	1·473	1·444	1·416	1·389	1,430
1,440	1·808	1·765	1·724	1·685	1·647	1·612	1·577	1·545	1·513	1·483	1·454	1·426	1·399	1,440
1,450	1·820	1·777	1·736	1·696	1·658	1·623	1·588	1·555	1·523	1·493	1·464	1·436	1·408	1,450
1,460	1·832	1·788	1·748	1·707	1·670	1·633	1·599	1·565	1·533	1·503	1·474	1·445	1·418	1,460
1,470	1·844	1·800	1·759	1·719	1·681	1·644	1·609	1·576	1·543	1·513	1·484	1·455	1·427	1,470
1,480	1·857	1·812	1·771	1·730	1·692	1·655	1·620	1·586	1·554	1·523	1·493	1·465	1·437	1,480
1,490	1·869	1·824	1·782	1·742	1·703	1·666	1·630	1·597	1·564	1·533	1·503	1·474	1·446	1,490
1,500	1·881	1·836	1·794	1·753	1·714	1·677	1·641	1·607	1·574	1·543	1·513	1·484	1·456	1,500

TABLE II.—*continued.*

(Barometer at Sea Level, 27 inches.)

Height in Feet.	TEMPERATURE OF EXTERNAL AIR—DEGREES FAHRENHEIT.													Height in Feet.
	−20°	−10°	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°	
1,010	1·152	1·124	1·098	1·072	1·049	1·026	1·004	0·983	0·962	0·943	0·924	0·907	0·890	1,010
1,020	1·163	1·135	1·108	1·083	1·059	1·036	1·013	0·992	0·972	0·952	0·933	0·916	0·898	1,020
1,030	1·174	1·146	1·119	1·093	1·069	1·046	1·023	1·002	0·981	0·962	0·942	0·924	0·907	1,030
1,040	1·185	1·157	1·129	1·104	1·079	1·056	1·033	1·011	0·991	0·971	0·951	0·933	0·915	1,040
1,050	1·196	1·168	1·140	1·114	1·090	1·066	1·043	1·021	1·000	0·980	0·960	0·942	0·924	1,050
1,060	1·208	1·178	1·151	1·124	1·100	1·075	1·052	1·031	1·009	0·989	0·969	0·951	0·933	1,060
1,070	1·219	1·189	1·161	1·135	1·110	1·085	1·062	1·040	1·019	0·998	0·978	0·960	0·941	1,070
1,080	1·230	1·200	1·172	1·145	1·120	1·095	1·072	1·050	1·028	1·008	0·987	0·968	0·950	1,080
1,090	1·241	1·211	1·182	1·156	1·130	1·105	1·082	1·059	1·038	1·017	0·996	0·977	0·958	1,090
1,100	1·252	1·222	1·193	1·166	1·140	1·115	1·091	1·069	1·047	1·026	1·005	0·986	0·967	1,100
1,110	1·263	1·233	1·204	1·176	1·150	1·125	1·101	1·078	1·056	1·035	1·014	0·995	0·976	1,110
1,120	1·274	1·244	1·214	1·187	1·160	1·135	1·110	1·088	1·066	1·044	1·023	1·004	0·984	1,120
1,130	1·285	1·254	1·225	1·197	1·170	1·145	1·120	1·097	1·075	1·053	1·032	1·012	0·993	1,130
1,140	1·296	1·265	1·235	1·208	1·180	1·155	1·130	1·107	1·084	1·062	1·041	1·021	1·001	1,140
1,150	1·307	1·276	1·246	1·218	1·190	1·164	1·140	1·116	1·094	1·072	1·050	1·030	1·010	1,150
1,160	1·319	1·287	1·257	1·228	1·201	1·174	1·149	1·126	1·103	1·081	1·059	1·039	1·019	1,160
1,170	1·330	1·298	1·267	1·239	1·211	1·184	1·159	1·135	1·112	1·090	1·068	1·048	1·027	1,170
1,180	1·341	1·308	1·278	1·249	1·221	1·194	1·169	1·145	1·121	1·099	1·077	1·056	1·036	1,180
1,190	1·352	1·319	1·288	1·260	1·231	1·204	1·178	1·154	1·131	1·108	1·086	1·065	1·044	1,190
1,200	1·363	1·330	1·299	1·270	1·241	1·214	1·188	1·164	1·140	1·117	1·095	1·074	1·053	1,200
1,210	1·374	1·341	1·310	1·280	1·251	1·224	1·198	1·173	1·149	1·126	1·104	1·083	1·062	1,210
1,220	1·385	1·352	1·320	1·291	1·261	1·234	1·207	1·183	1·159	1·135	1·113	1·091	1·070	1,220
1,230	1·396	1·362	1·331	1·301	1·271	1·244	1·217	1·192	1·168	1·144	1·122	1·100	1·079	1,230
1,240	1·407	1·373	1·341	1·311	1·281	1·254	1·227	1·202	1·177	1·153	1·131	1·109	1·087	1,240
1,250	1·418	1·384	1·352	1·322	1·292	1·263	1·237	1·211	1·187	1·163	1·140	1·118	1·096	1,250
1,260	1·429	1·395	1·363	1·332	1·302	1·273	1·246	1·220	1·196	1·172	1·148	1·126	1·105	1,260
1,270	1·440	1·406	1·373	1·342	1·312	1·283	1·256	1·230	1·205	1·181	1·157	1·135	1·113	1,270
1,280	1·451	1·416	1·384	1·352	1·322	1·293	1·266	1·239	1·214	1·190	1·166	1·144	1·122	1,280
1,290	1·462	1·427	1·394	1·363	1·332	1·303	1·275	1·249	1·224	1·199	1·175	1·152	1·130	1,290
1,300	1·473	1·438	1·405	1·373	1·342	1·313	1·285	1·258	1·233	1·208	1·184	1·161	1·139	1,300
1,310	1·484	1·449	1·415	1·383	1·352	1·323	1·295	1·267	1·242	1·217	1·193	1·170	1·148	1,310
1,320	1·495	1·460	1·426	1·394	1·362	1·333	1·304	1·277	1·251	1·226	1·202	1·178	1·156	1,320
1,330	1·506	1·470	1·436	1·404	1·372	1·342	1·314	1·286	1·261	1·235	1·211	1·187	1·165	1,330
1,340	1·517	1·481	1·447	1·414	1·382	1·352	1·323	1·296	1·270	1·244	1·220	1·196	1·173	1,340
1,350	1·528	1·492	1·457	1·425	1·393	1·362	1·333	1·305	1·279	1·254	1·229	1·204	1·182	1,350
1,360	1·539	1·503	1·468	1·435	1·403	1·372	1·343	1·314	1·288	1·263	1·237	1·213	1·191	1,360
1,370	1·550	1·514	1·478	1·445	1·413	1·382	1·352	1·324	1·297	1·272	1·246	1·222	1·199	1,370
1,380	1·561	1·524	1·489	1·455	1·423	1·391	1·362	1·333	1·307	1·281	1·255	1·231	1·208	1,380
1,390	1·572	1·535	1·499	1·466	1·433	1·401	1·371	1·343	1·316	1·290	1·264	1·239	1·216	1,390
1,400	1·583	1·546	1·510	1·476	1·443	1·411	1·381	1·352	1·325	1·299	1·273	1·248	1·225	1,400
1,410	1·594	1·557	1·520	1·486	1·453	1·421	1·391	1·361	1·334	1·308	1·282	1·257	1·233	1,410
1,420	1·605	1·567	1·531	1·496	1·463	1·431	1·400	1·371	1·343	1·317	1·291	1·265	1·242	1,420
1,430	1·616	1·578	1·541	1·507	1·473	1·440	1·410	1·380	1·352	1·326	1·300	1·274	1·250	1,430
1,440	1·627	1·589	1·552	1·517	1·483	1·450	1·419	1·390	1·362	1·335	1·309	1·283	1·259	1,440
1,450	1·638	1·600	1·562	1·527	1·493	1·460	1·429	1·399	1·371	1·344	1·318	1·292	1·267	1,450
1,460	1·649	1·610	1·572	1·537	1·503	1·470	1·439	1·408	1·380	1·353	1·326	1·300	1·276	1,460
1,470	1·660	1·621	1·583	1·547	1·513	1·480	1·448	1·418	1·389	1·362	1·335	1·309	1·284	1,470
1,480	1·671	1·632	1·593	1·558	1·523	1·489	1·458	1·427	1·399	1·371	1·344	1·318	1·293	1,480
1,490	1·682	1·642	1·604	1·568	1·533	1·499	1·467	1·437	1·408	1·380	1·353	1·326	1·301	1,490
1,500	1·696	1·653	1·614	1·578	1·543	1·509	1·477	1·446	1·417	1·389	1·362	1·335	1·310	1,500

TABLE III.

COMPARISON of the METRIC and ENGLISH BAROMETER SCALES.

(1 Metre = 39·37079 Inches.)

Millimetres.	Tenths of a Millimetre.									
	0	1	2	3	4	5	6	7	8	9
	English Inches.									
705	27·756	27·760	27·764	27·768	27·772	27·776	27·780	27·784	27·788	27·792
6	·796	·800	·804	·808	·812	·815	·819	·823	·827	·831
7	·835	·839	·843	·847	·851	·855	·859	·863	·867	·871
8	·875	·878	·882	·886	·890	·894	·898	·902	·906	·910
9	27·914	27·918	27·922	27·926	27·930	27·934	27·938	27·941	27·945	27·949
710	27·953	27·957	27·961	27·965	27·969	27·973	27·977	27·981	27·985	27·989
1	27·993	27·997	28·001	28·004	28·008	28·012	28·016	28·020	28·024	28·028
2	28·032	28·036	·040	·044	·048	·052	·056	·060	·063	·067
3	·071	·075	·079	·083	·087	·091	·095	·099	·103	·107
4	28·111	28·115	28·119	28·123	28·126	28·130	28·134	28·138	28·142	28·146
715	28·150	28·154	28·158	28·162	28·166	28·170	28·174	28·178	28·182	28·186
6	·189	·193	·197	·201	·205	·209	·213	·217	·221	·225
7	·229	·233	·237	·241	·245	·249	·252	·256	·260	·264
8	·268	·272	·276	·280	·284	·288	·292	·296	·300	·304
9	28·308	28·312	28·315	28·319	28·323	28·327	28·331	28·335	28·339	28·343
720	28·347	28·351	28·355	28·359	28·363	28·367	28·371	28·375	28·378	28·382
1	·386	·390	·394	·398	·402	·406	·410	·414	·418	·422
2	·426	·430	·434	·438	·441	·445	·449	·453	·457	·461
3	·465	·469	·473	·477	·481	·485	·489	·493	·497	·501
4	28·504	28·508	28·512	28·516	28·520	28·524	28·528	28·532	28·536	28·540
725	28·544	28·548	28·552	28·556	28·560	28·564	28·567	28·571	28·575	28·579
6	·583	·587	·591	·595	·599	·603	·607	·611	·615	·619
7	·623	·627	·630	·634	·638	·642	·646	·650	·654	·658
8	·662	·666	·670	·674	·678	·682	·686	·689	·693	·697
9	28·701	28·705	28·709	28·713	28·717	28·721	28·725	28·729	28·733	28·737
730	28·741	28·745	28·749	28·752	28·756	28·760	28·764	28·768	28·772	28·776
1	·780	·784	·788	·792	·796	·800	·804	·808	·812	·815
2	·819	·823	·827	·831	·835	·839	·843	·847	·851	·855
3	·859	·863	·867	·871	·875	·878	·882	·886	·890	·894
4	28·898	28·902	28·906	28·910	28·914	28·918	28·922	28·926	28·930	28·934
735	28·938	28·941	28·945	28·949	28·953	28·957	28·961	28·965	28·969	28·973
6	28·977	28·981	28·985	28·989	28·993	28·997	29·001	29·004	29·008	29·012
7	29·016	29·020	29·024	29·028	29·032	29·036	·040	·044	·048	·052
8	·056	·060	·064	·067	·071	·075	·079	·083	·087	·091
9	29·095	29·099	29·103	29·107	29·111	29·115	29·119	29·123	29·127	29·130
740	29·134	29·138	29·142	29·146	29·150	29·154	29·158	29·162	29·166	29·170
1	·174	·178	·182	·186	·190	·193	·197	·201	·205	·209
2	·213	·217	·221	·225	·229	·233	·237	·241	·245	·249
3	·252	·256	·260	·264	·268	·272	·276	·280	·284	·288
4	29·292	29·296	29·300	29·304	29·308	29·312	29·315	29·319	29·323	29·327

TABLE III.—*continued.*

COMPARISON of the METRIC and ENGLISH BAROMETER SCALES.

(1 Metre = 39·37079 Inches.)

Millimetres.	Tenths of a Millimetre.									
	0	1	2	3	4	5	6	7	8	9
	English Inches.									
745	29·331	29·335	29·339	29·343	29·347	29·351	29·355	29·359	29·363	29·367
6	·371	·375	·378	·382	·386	·390	·394	·398	·402	·406
7	·410	·414	·418	·422	·426	·430	·434	·438	·441	·445
8	·449	·453	·457	·461	·465	·469	·473	·477	·481	·485
9	29·489	29·493	29·497	29·501	29·504	29·508	29·512	29·516	29·520	29·524
750	29·528	29·532	29·536	29·540	29·544	29·548	29·552	29·556	29·560	29·564
1	·567	·571	·575	·579	·583	·587	·591	·595	·599	·603
2	·607	·611	·615	·619	·623	·627	·630	·634	·638	·642
3	·646	·650	·654	·658	·662	·666	·670	·674	·678	·682
4	29·686	29·690	29·693	29·697	29·701	29·705	29·709	29·713	29·717	29·721
755	29·725	29·729	29·733	29·737	29·741	29·745	29·749	29·753	29·756	29·760
6	·764	·768	·772	·776	·780	·784	·788	·792	·796	·800
7	·804	·808	·812	·815	·819	·823	·827	·831	·835	·839
8	·843	·847	·851	·855	·859	·863	·867	·871	·875	·878
9	29·882	29·886	29·890	29·894	29·898	29·902	29·906	29·910	29·914	29·918
760	29·922	29·926	29·930	29·934	29·938	29·941	29·945	29·949	29·953	29·957
1	29·961	29·965	29·969	29·973	29·977	29·981	29·985	29·989	29·993	29·997
2	30·001	30·004	30·008	30·012	30·016	30·020	30·024	30·028	30·032	30·036
3	·040	·044	·048	·052	·056	·060	·064	·067	·071	·075
4	30·079	30·083	30·087	30·091	30·095	30·099	30·103	30·107	30·111	30·115
765	30·119	30·123	30·127	30·130	30·134	30·138	30·142	30·146	30·150	30·154
6	·158	·162	·166	·170	·174	·178	·182	·186	·190	·193
7	·197	·201	·205	·209	·213	·217	·221	·225	·229	·233
8	·237	·241	·245	·249	·253	·256	·260	·264	·268	·272
9	30·276	30·280	30·284	30·288	30·292	30·296	30·300	30·304	30·308	30·312
770	30·316	30·319	30·323	30·327	30·331	30·335	30·339	30·343	30·347	30·351
1	·355	·359	·363	·367	·371	·375	·379	·382	·386	·390
2	·394	·398	·402	·406	·410	·414	·418	·422	·426	·430
3	·434	·438	·441	·445	·449	·453	·457	·461	·465	·469
4	30·473	30·477	30·481	30·485	30·489	30·493	30·497	30·501	30·504	30·508
775	30·512	30·516	30·520	30·524	30·528	30·532	30·536	30·540	30·544	30·548
6	·552	·556	·560	·564	·567	·571	·575	·579	·583	·587
7	·591	·595	·599	·603	·607	·611	·615	·619	·623	·627
8	·630	·634	·638	·642	·646	·650	·654	·658	·662	·666
9	30·670	30·674	30·678	30·682	30·686	30·690	30·693	30·697	30·701	30·705
780	30·709	30·713	30·717	30·721	30·725	30·729	30·733	30·737	30·741	30·745
1	·749	·753	·756	·760	·764	·768	·772	·776	·780	·784
2	·788	·792	·796	·800	·804	·808	·812	·816	·819	·823
3	·827	·831	·835	·839	·843	·847	·851	·855	·859	·863
4	·867	·871	·875	·879	·882	·886	·890	·894	·898	·902
785	30·906	30·91	30·914	30·918	30·922	30·926	30·930	30·934	30·938	30·942

Parts.

Mill.	Inch.
1	0·0394
2	·0787
3	·1181
4	·1575
5	·1969
6	·2362
7	·2756
8	·3150
9	·3543
10	·3937

TABLE IV.

COMPARISON of the ENGLISH and METRIC BAROMETER SCALES.

(1 inch = 25·39954 millimetres.)

English Inches and Tenths.	Hundredths of an Inch.									
	0	1	2	3	4	5	6	7	8	9
27·0	685·79	686·04	686·30	686·55	686·80	687·06	687·31	687·57	687·82	688·07
·1	688·33	688·58	688·84	689·09	689·34	689·60	689·85	690·11	690·36	690·61
·2	690·87	691·12	691·38	691·63	691·88	692·14	692·39	692·65	692·90	693·15
·3	693·41	693·66	693·92	694·17	694·42	694·68	694·93	695·19	695·44	695·69
·4	695·95	696·20	696·46	696·71	696·96	697·22	697·47	697·73	697·98	698·23
·5	698·49	698·74	699·00	699·25	699·50	699·76	700·01	700·27	700·52	700·77
·6	701·03	701·28	701·54	701·79	702·04	702·30	702·55	702·81	703·06	703·31
·7	703·57	703·82	704·08	704·33	704·58	704·84	705·09	705·35	705·60	705·85
·8	706·11	706·36	706·62	706·87	707·12	707·38	707·63	707·89	708·14	708·39
·9	708·65	708·90	709·16	709·41	709·66	709·92	710·17	710·43	710·68	710·93
28·0	711·19	711·44	711·70	711·95	712·20	712·46	712·71	712·97	713·22	713·47
·1	713·73	713·98	714·24	714·49	714·74	715·00	715·25	715·51	715·76	716·01
·2	716·27	716·52	716·78	717·03	717·28	717·54	717·79	718·04	718·30	718·55
·3	718·81	719·06	719·31	719·57	719·82	720·08	720·33	720·58	720·84	721·09
·4	721·35	721·60	721·85	722·11	722·36	722·62	722·87	723·12	723·38	723·63
·5	723·89	724·14	724·39	724·65	724·90	725·16	725·41	725·66	725·92	726·17
·6	726·43	726·68	726·93	727·19	727·44	727·70	727·95	728·20	728·46	728·71
·7	728·97	729·22	729·47	729·73	729·98	730·24	730·49	730·74	731·00	731·25
·8	731·51	731·76	732·01	732·27	732·52	732·78	733·03	733·28	733·54	733·79
·9	734·05	734·30	734·55	734·81	735·06	735·32	735·57	735·82	736·08	736·33
29·0	736·59	736·84	737·09	737·35	737·60	737·86	738·11	738·36	738·62	738·87
·1	739·13	739·38	739·63	739·89	740·14	740·40	740·65	740·90	741·16	741·41
·2	741·67	741·92	742·17	742·43	742·68	742·94	743·19	743·44	743·70	743·95
·3	744·21	744·46	744·71	744·97	745·22	745·48	745·73	745·98	746·24	746·49
·4	746·75	747·00	747·25	747·51	747·76	748·02	748·27	748·52	748·78	749·03
·5	749·29	749·54	749·79	750·05	750·30	750·56	750·81	751·06	751·32	751·57
·6	751·83	752·08	752·33	752·59	752·84	753·10	753·35	753·60	753·86	754·11
·7	754·37	754·62	754·87	755·13	755·38	755·64	755·89	756·14	756·40	756·65
·8	756·91	757·16	757·41	757·67	757·92	758·18	758·43	758·68	758·94	759·19
·9	759·45	759·70	759·95	760·21	760·46	760·72	760·97	761·22	761·48	761·73

TABLE IV.—*continued.*

COMPARISON of the ENGLISH and METRIC BAROMETER SCALES.

(1 inch = 25·39954 millimetres.)

English Inches and Tenths.	Hundredths of an Inch.									
	0	1	2	3	4	5	6	7	8	9
30·0	761·99	762·24	762·49	762·75	763·00	763·26	763·51	763·76	764·02	764·27
·1	764·53	764·78	765·03	765·29	765·54	765·80	766·05	766·30	766·56	766·81
·2	767·07	767·32	767·57	767·83	768·08	768·34	768·59	768·84	769·10	769·35
·3	769·61	769·86	770·11	770·37	770·62	770·88	771·13	771·38	771·64	771·89
·4	772·15	772·40	772·65	772·91	773·16	773·42	773·67	773·92	774·18	774·43
·5	774·69	774·94	775·19	775·45	775·70	775·96	776·21	776·46	776·72	776·97
·6	777·23	777·48	777·73	777·99	778·24	778·50	778·75	779·00	779·26	779·51
·7	779·77	780·02	780·27	780·53	780·78	781·04	781·29	781·54	781·80	782·05
·8	782·31	782·56	782·81	783·07	783·32	783·58	783·83	784·08	784·34	784·59
·9	784·85	785·10	785·35	785·61	785·86	786·12	786·37	786·62	786·88	787·13
31·0	787·39	787·64	787·89	788·15	788·40	788·66	788·91	789·16	789·42	789·67
·1	789·93	790·18	790·43	790·69	790·94	791·20	791·45	791·70	791·96	792·21
·2	792·47	792·72	792·97	793·23	793·48	793·74	793·99	794·24	794·50	794·75
·3	795·01	795·26	795·51	795·77	796·02	796·28	796·53	796·78	797·04	797·29
·4	797·55	797·80	798·05	798·31	798·56	798·82	799·07	799·32	799·58	799·83

Inch.	Mill.
1	25·400
2	50·799
3	76·199
4	101·598
5	126·998
6	152·397
7	177·797
8	203·196
9	228·596
10	253·995

Thousandths of an Inch.								
1	2	3	4	5	6	7	8	9
0·03	0·05	0·08	0·10	0·13	0·15	0·18	0·20	0·23

TABLE V.

Comparison of the Old French and English Barometers.

(1 Paris Line = 0·088814 English Inch.)

French or Paris Lines.	Tenths of a Line.									
	0	1	2	3	4	5	6	7	8	9
25 inches.	Eng. in.	Eng. in.	Eng. in.	Eng. in.	Eng. in.	Eng. in.	Eng. in.	Eng. in.	Eng. in.	Eng. in.
300	26·644	26·653	26·662	26·671	26·680	26·689	26·697	26·706	26·715	26·724
301	26·733	26·742	26·751	26·760	26·769	26·777	26·786	26·795	26·804	26·813
302	26·822	26·831	26·840	26·848	26·857	26·866	26·875	26·884	26·893	26·902
303	26·911	26·920	26·928	26·937	26·946	26·955	26·964	26·973	26·982	26·991
304	26·999	27·008	27·017	27·026	27·035	27·044	27·053	27·062	27·071	27·079
305	27·088	27·097	27·106	27·115	27·124	27·133	27·142	27·150	27·159	27·168
306	27·177	27·186	27·195	27·204	27·213	27·221	27·230	27·239	27·248	27·257
307	27·266	27·275	27·284	27·293	27·301	27·310	27·319	27·328	27·337	27·346
308	27·355	27·364	27·372	27·381	27·390	27·399	27·408	27·417	27·426	27·435
309	27·444	27·452	27·461	27·470	27·479	27·488	27·497	27·506	27·515	27·523
310	27·532	27·541	27·550	27·559	27·568	27·577	27·586	27·595	27·603	27·612
311	27·621	27·630	27·639	27·648	27·657	27·666	27·674	27·683	27·692	27·701
26 inches.										
312	27·710	27·719	27·728	27·737	27·745	27·754	27·763	27·772	27·781	27·790
313	27·799	27·808	27·817	27·825	27·834	27·843	27·852	27·861	27·870	27·879
314	27·888	27·896	27·905	27·914	27·923	27·932	27·941	27·950	27·959	27·968
315	27·976	27·985	27·994	28·003	28·012	28·021	28·030	28·039	28·047	28·056
316	28·065	28·074	28·083	28·092	28·101	28·110	28·119	28·127	28·136	28·145
317	28·154	28·163	28·172	28·181	28·190	28·198	28·207	28·216	28·225	28·234
318	28·243	28·252	28·261	28·269	28·278	28·287	28·296	28·305	28·314	28·323
319	28·332	28·341	28·349	28·358	28·367	28·376	28·385	28·394	28·403	28·412
320	28·420	28·429	28·438	28·447	28·456	28·465	28·474	28·483	28·492	28·500
321	28·509	28·518	28·527	28·536	28·545	28·554	28·563	28·571	28·580	28·589
322	28·598	28·607	28·616	28·625	28·634	28·643	28·651	28·660	28·669	28·678
323	28·687	28·696	28·705	28·714	28·722	28·731	28·740	28·749	28·758	28·767
27 inches.										
324	28·776	28·785	28·793	28·802	28·811	28·820	28·829	28·838	28·847	28·856
325	28·865	28·873	28·882	28·891	28·900	28·909	28·918	28·927	28·936	28·944
326	28·953	28·962	28·971	28·980	28·989	28·998	29·007	29·016	29·024	29·033
327	29·042	29·051	29·060	29·069	29·078	29·087	29·095	29·104	29·113	29·122
328	29·131	29·140	29·149	22·158	29·167	29·175	29·184	29·193	29·202	29·211
329	29·220	29·229	29·238	29·246	29·255	29·264	29·273	29·282	29·291	29·300
330	29·309	29·318	29·326	29·335	29·344	29·353	29·362	29·371	29·380	29·389
331	29·397	29·406	29·415	29·424	29·433	29·442	29·451	29·460	29·468	29·477
332	29·486	29·495	29·504	29·513	29·522	29·531	29·540	29·548	29·557	29·566
333	29·575	29·584	29·593	29·602	29·611	29·619	29·628	29·637	29·646	29·655
334	29·664	29·673	29·682	29·691	29·699	29·708	29·717	29·726	29·735	29·744
335	29·753	29·762	29·770	29·779	29·788	29·797	29·806	29·815	29·824	29·833
28 inches.										
336	29·842	29·850	29·859	29·868	29·877	29·886	29·895	29·904	29·913	29·921
337	29·930	29·939	29·948	29·957	29·966	29·975	29·984	29·992	30·001	30·010
338	30·019	30·028	30·037	30·046	30·055	30·064	30·072	30·081	30·090	30·099
339	30·108	30·117	30·126	30·135	30·143	30·152	30·161	30·170	30·179	30·188

TABLE V.—*continued.*

Comparison of the Old French and English Barometers.

(1 Paris Line = 0·088814 English Inch.)

French or Paris Lines.	Tenths of a Line.									
	0	1	2	3	4	5	6	7	8	9
28 inches.	Eng. in.	Eng. in.	Eng. in.	Eng. in.	Eng. in.	Eng. in.	Eng. in.	Eng. in.	Eng. in.	Eng. in.
340	30·197	30·206	30·215	30·223	30·232	30·241	30·250	30·259	30·268	30·277
341	30·286	30·294	30·303	30·312	30·321	30·330	30·339	30·348	30·357	30·366
342	30·374	30·383	30·392	30·401	30·410	30·419	30·428	30·437	30·445	30·454
343	30·463	30·472	30·481	38·490	30·499	30·508	30·516	30·525	30·534	30·543
344	30·552	30·561	30·570	30·579	30·588	30·596	30·605	30·614	30·623	30·632
345	30·641	30·650	30·659	30·667	30·676	30·685	30·694	30·703	30·712	30·721
346	30·730	30·739	30·747	30·756	30·765	30·774	30·783	30·792	35·801	30·810
347	30·818	30·827	30·836	30·845	30·854	30·863	30·872	30·881	30·890	30·898
29 inches.										
348	30·907	30·916	30·925	30·934	30·943	30·952	30·961	30·969	30·978	30·987

	Hundredths of a Line.								
	1	2	3	4	5	6	7	8	9
	·0009	·0018	·0027	·0036	·0044	·0053	·0062	·0071	·0080

TABLE VI.

Conversion of Centigrade Degrees into Degrees of Fahrenheit.

Centigrade Degrees.	Tenths of Degrees.									
	0	1	2	3	4	5	6	7	8	9
°										
−39	−38·2	−38·4	−38·6	−38·7	−38·9	−39·1	−39·3	−39·5	−39·6	−39·8
38	36·4	36·6	36·8	36·9	37·1	37·3	37·5	37·7	37·8	38·0
37	34·6	34·8	35·0	35·1	35·3	35·5	35·7	35·9	36·0	36·2
36	32·8	33·0	33·2	33·3	33·5	33·7	33·9	34·1	34·2	34·4
35	31·0	31·2	31·4	31·5	31·7	31·9	32·1	32·3	32·4	32·6
34	29·2	29·4	29·6	29·7	29·9	30·1	30·3	30·5	30·6	30·8
33	27·4	27·6	27·8	27·9	28·1	28·3	28·5	28·7	28·8	29·0
32	25·6	25·8	26·0	26·1	26·3	26·5	26·7	26·9	27·0	27·2
31	23·8	24·0	24·2	24·3	24·5	24·7	24·9	25·1	25·2	25·4
30	22·0	22·2	22·4	22·5	22·7	22·9	23·1	23·3	23·4	23·6
29	20·2	20·4	20·6	20·7	20·9	21·1	21·3	21·5	21·6	21·8
28	18·4	18·6	18·8	18·9	19·1	19·3	19·5	19·7	19·8	20·0
27	16·6	16·8	17·0	17·1	17·3	17·5	17·7	17·9	18·0	18·2
26	14·8	15·0	15·2	15·3	15·5	15·7	15·9	16·1	16·2	16·4
25	13·0	13·2	13·4	13·5	13·7	13·9	14·1	14·3	14·4	14·6
24	11·2	11·4	11·6	11·7	11·9	12·1	12·3	12·5	12·6	12·8
23	9·4	9·6	9·8	9·9	10·1	10·3	10·5	10·7	10·8	11·0
22	7·6	7·8	8·0	8·1	8·3	8·5	8·7	8·9	9·0	9·2
21	5·8	6·0	6·2	6·3	6·5	6·7	6·9	7·1	7·2	7·4
20	4·0	4·2	4·4	4·5	4·7	4·9	5·1	5·3	5·4	5·6
19	2·2	2·4	2·6	2·7	2·9	3·1	3·3	3·5	3·6	3·8
18	−0·4	−0·6	−0·8	−0·9	−1·1	−1·3	−1·5	−1·7	−1·8	2·0
17	+1·4	+1·2	+1·0	+0·9	+0·7	+0·5	+0·3	+0·1	0·0	−0·2
16	3·2	3·0	2·8	2·7	2·5	2·3	2·1	1·9	+1·8	+1·6
15	5·0	4·8	4·6	4·5	4·3	4·1	3·9	3·7	3·6	3·4
14	6·8	6·6	6·4	6·3	6·1	5·9	5·7	5·5	5·4	5·2
13	8·6	8·4	8·2	8·1	7·9	7·7	7·5	7·3	7·2	7·0
12	10·4	10·2	10·0	9·9	9·7	9·5	9·3	9·1	9·0	8·8
11	12·2	12·0	11·8	11·7	11·5	11·3	11·1	10·9	10·8	10·6
10	14·0	13·8	13·6	13·5	13·3	13·1	12·9	12·7	12·6	12·4
9	15·8	15·6	15·4	15·3	15·1	14·9	14·7	14·5	14·4	14·2
8	17·6	17·4	17·2	17·1	16·9	16·7	16·5	16·3	16·2	16·0
7	19·4	19·2	19·0	18·9	18·7	18·5	18·3	18·1	18·0	17·8
6	21·2	21·0	20·8	20·7	20·5	20·3	20·1	19·9	19·8	19·6
5	23·0	22·8	22·6	22·5	22·3	22·1	21·9	21·7	21·6	21·4
4	24·8	24·6	24·4	24·3	24·1	23·9	23·7	23·5	23·4	23·2
3	26·6	26·4	26·2	26·1	25·9	25·7	25·5	25·3	25·2	25·0
2	28·4	28·2	28·0	27·9	27·7	27·5	27·3	27·1	27·0	26·8
1	30·2	30·0	29·8	29·7	29·5	29·3	29·1	28·9	28·8	28·6
−0	+32·0	+31·8	+31·6	+31·5	+31·3	+31·1	+30·9	+30·7	+30·6	+30·4

TABLE VI.—*continued.*

Conversion of Centigrade Degrees into Degrees of Fahrenheit.

Centigrade Degrees.	Tenths of Degrees.									
	0	1	2	3	4	5	6	7	8	9
°										
+ 0	+32·0	+32·2	+32·4	+32·5	+32·7	+32·9	+33·1	+33·3	+33·4	+33·6
1	33·8	34·0	34·2	34·3	34·5	34·7	34·9	35·1	35·2	35·4
2	35·6	35·8	36·0	36·1	36·3	36·5	36·7	36·9	37·0	37·2
3	37·4	37·6	37·8	37·9	38·1	38·3	38·5	38·7	38·8	39·0
4	39·2	39·4	39·6	39·7	39·9	40·1	40·3	40·5	40·6	40·8
5	41·0	41·2	41·4	41·5	41·7	41·9	42·1	42·3	42·4	42·6
6	42·8	43·0	43·2	43·3	43·5	43·7	43·9	44·1	44·2	44·4
7	44·6	44·8	45·0	45·1	45·3	45·5	45·7	45·9	46·0	46·2
8	46·4	46·6	46·8	46·9	47·1	47·3	47·5	47·7	47·8	48·0
9	48·2	48·4	48·6	48·7	48·9	49·1	49·3	49·5	49·6	49·8
10	50·0	50·2	50·4	50·5	50·7	50·9	51·1	51·3	51·4	51·6
11	51·8	52·0	52·2	52·3	52·5	52·7	52·9	53·1	53·2	53·4
12	53·6	53·8	54·0	54·1	54·3	54·5	54·7	54·9	55·0	55·2
13	55·4	55·6	55·8	55·9	56·1	56·3	56·5	56·7	56·8	57·0
14	57·2	57·4	57·6	57·7	57·9	58·1	58·3	58·5	58·6	58·8
15	59·0	59·2	59·4	59·5	59·7	59·9	60·1	60·3	60·4	60·6
16	60·8	61·0	61·2	61·3	61·5	61·7	61·9	62·1	62·2	62·4
17	62·6	62·8	63·0	63·1	63·3	63·5	63·7	63·9	64·0	64·2
18	64·4	64·6	64·8	64·9	65·1	65·3	65·5	65·7	65·8	66·0
19	66·2	66·4	66·6	66·7	66·9	67·1	67·3	67·5	67·6	67·8
20	68·0	68·2	68·4	68·5	68·7	68·9	69·1	69·3	69·4	69·6
21	69·8	70·0	70·2	70·3	70·5	70·7	70·9	71·1	71·2	71·4
22	71·6	71·8	72·0	72·1	72·3	72·5	72·7	72·9	73·0	73·2
23	73·4	73·6	73·8	73·9	74·1	74·3	74·5	74·7	74·8	75·0
24	75·2	75·4	75·6	75·7	75·9	76·1	76·3	76·5	76·6	76·8
25	77·0	77·2	77·4	77·5	77·7	77·9	78·1	78·3	78·4	78·6
26	78·8	79·0	79·2	79·3	79·5	79·7	79·9	80·1	80·2	80·4
27	80·6	80·8	81·0	81·1	81·3	81·5	81·7	81·9	82·0	82·2
28	82·4	82·6	82·8	82·9	83·1	83·3	83·5	83·7	83·8	84·0
29	84·2	84·4	84·6	84·7	84·9	85·1	85·3	85·5	85·6	85·8
30	86·0	86·2	86·4	86·5	86·7	86·9	87·1	87·3	87·4	87·6
31	87·8	88·0	88·2	88·3	88·5	88·7	88·9	89·1	89·2	89.4
32	89·6	89·8	90·0	90·1	90·3	90·5	90·7	90·9	91·0	91·2
33	91·4	91·6	91·8	91·9	92·1	92·3	92·5	92·7	92·8	93·0
34	93·2	93·4	93·6	93·7	93·9	94·1	94·3	94·5	94·6	94·8
35	95·0	95·2	95·4	95·5	95·7	95·9	96·1	96·3	96·4	96·6
36	96·8	97·0	97·2	97·3	97·5	97·7	97·9	98·1	98·2	98·4
37	98·6	98·8	99·0	99·1	99·3	99·5	99·7	99·9	100·0	100·2
38	100·4	100·6	100·8	100·9	101·1	101·3	101·5	101·7	101·8	102·0
+39	+102·2	+102·4	+102·6	+102·7	+102·9	+103·1	+103·3	+103·5	+103·6	+103·8

TABLE VII.

Conversion of Degrees of Fahrenheit into Centigrade Degrees.

Degrees of Fah.	Tenths of Degrees.									
	0	1	2	3	4	5	6	7	8	9
−36°	−37·8	−37·8	−37·9	−37·9	−38·0	−38·1	−38·1	−38·2	−38·	−37·7
35	37·2	37·3	37·3	37·4	37·4	37·5	37·6	37·6	37·7	38·3
34	36·7	36·7	36·8	36·8	36·9	36·9	37·0	37·1	37·1	37·2
33	36·1	36·2	36·2	36·3	36·3	36·4	36·4	36·5	36·6	36·6
32	35·6	35·6	35·7	35·7	35·8	35·8	35·9	35·9	36·0	36·1
31	35·0	35·1	35·1	35·2	35·2	35·3	35·3	35·4	35·4	35·5
30	34·4	34·5	34·6	34·6	34·7	34·7	34·8	34·8	34·9	34·9
29	33·9	33·9	34·0	34·1	34·1	34·2	34·2	34·3	34·3	34·4
28	33·3	33·4	33·4	33·5	33·6	33·6	33·7	33·7	33·8	33·8
27	32·8	32·8	32·9	32·9	33·0	33·1	33·1	33·2	33·2	33·3
26	32·2	32·3	32·3	32·4	32·4	32·5	32·6	32·6	32·7	32·7
25	31·7	31·7	31·8	31·8	31·9	31·9	32·0	32·1	32·1	32·2
24	31·1	31·2	31·2	31·3	31·3	31·4	31·4	31·5	31·6	31·6
23	30·6	30·6	30·7	30·7	30·8	30·8	30·9	30·9	31·0	31·1
22	30·0	30·1	30·1	30·2	30·2	30·3	30·3	30·4	30·4	30·5
21	29·4	29·5	29·6	29·6	29·7	29·7	29·8	29·8	29·9	29·9
20	28·9	28·9	29·0	29·1	29·1	29·2	29·2	29·3	29·3	29·4
19	28·3	28·4	28·4	28·5	28·6	28·6	28·7	28·7	28·8	28·8
18	27·8	27·8	27·9	27·9	28·0	28·1	28·1	28·2	28·2	28·3
17	27·2	27·3	27·3	27·4	27·4	27·5	27·6	27·6	27·7	27·7
16	26·7	26·7	26·8	26·8	26·9	26·9	27·0	27·1	27·1	27·2
15	26·1	26·2	26·2	26·3	26·3	26·4	26·4	26·5	26·6	26·6
14	25·6	25·6	25·7	25·7	25·8	25·8	25·9	25·9	26·0	26·1
13	25·0	25·1	25·1	25·2	25·2	25·3	25·3	25·4	25·4	25·5
12	24·4	24·5	24·6	24·6	24·7	24·7	24·8	24·8	24·9	24·9
11	23·9	23·9	24·0	24·1	24·1	24·2	24·2	24·3	24·3	24·4
10	23·3	23·4	23·4	23·5	23·6	23·6	23·7	23·7	23·8	23·8
9	22·8	22·8	22·9	22·9	23·0	23·1	23·1	23·2	23·2	23·3
8	22·2	22·3	22·3	22·4	22·4	22·5	22·6	22·6	22·7	22·7
7	21·7	21·7	21·8	21·8	21·9	21·9	22·0	22·1	22·1	22·2
6	21·1	21·2	21·2	21·3	21·3	21·4	21·4	21·5	21·6	21·6
5	20·6	20·6	20·7	20·7	20·8	20·8	20·9	20·9	21·0	21·1
4	20·0	20·1	20·1	20·2	20·2	20·3	20·3	20·4	20·4	20·5
3	19·4	19·5	19·6	19·6	19·7	19·7	19·8	19·8	19·9	19·9
2	18·9	18·9	19·0	19·1	19·1	19·2	19·2	19·3	19·3	19·4
1	18·3	18·4	18·4	18·5	18·6	18·6	18·7	18·7	18·8	18·8
−0	17·8	17·8	17·9	17·9	18·0	18·1	18·1	18·2	18·2	18·3
+0	17·8	17·7	17·7	17·6	17·6	17·5	17·4	17·4	17·3	17·3
1	17·2	17·2	17·1	17·1	17·0	16·9	16·9	16·8	16·8	16·7
2	16·7	16·6	16·6	16·5	16·4	16·4	16·3	16·3	16·2	16·2
3	16·1	16·1	16·0	15·9	15·9	15·8	15·8	15·7	15·7	15·6
+4	−15·6	−15·5	−15·4	−15·4	−15·3	−15·3	−15·2	−15·2	−15·1	−15·1

TABLE VII.—*continued.*

Conversion of Degrees of Fahrenheit into Centigrade Degrees.

Degrees of Fah.	Tenths of Degrees.									
	0	1	2	3	4	5	6	7	8	9
+5	−15·0	−14·9	−14·9	−14·8	−14·8	−14·7	−14·7	−14·6	−14·6	−14·5
6	14·4	14·4	14·3	14·3	14·2	14·2	14·1	14·1	14·0	13·9
7	13·9	13·8	13·8	13·7	13·7	13·6	13·6	13·5	13·4	13·4
8	13·3	13·3	13·2	13·2	13·1	13·1	13·0	12·9	12·9	12·8
9	12·8	12·7	12·7	12·6	12·6	12·5	12·4	12·4	12·3	12·3
10	12·2	12·2	12·1	12·1	12·0	11·9	11·9	11·8	11·8	11·7
11	11·7	11·6	11·6	11·5	11·4	11·4	11·3	11·3	11·2	11·2
12	11·1	11·1	11·0	10·9	10·9	10·8	10·8	10·7	10·7	10·6
13	10·6	10·5	10·4	10·4	10·3	10·3	10·2	10·2	10·1	10·1
14	10·0	9·9	9·9	9·8	9·8	9·7	9·7	9·6	9·6	9·5
15	9·4	9·4	9·3	9·3	9·2	9·2	9·1	9·1	9·0	8·9
16	8·9	8·8	8·8	8·7	8·7	8·6	8·6	8·5	8·4	8·4
17	8·3	8·3	8·2	8·2	8·1	8·1	8·0	7·9	7·9	7·8
18	7·8	7·7	7·7	7·6	7·6	7·5	7·4	7·4	7·3	7·3
19	7·2	7·2	7·1	7·1	7·0	6·9	6·9	6·8	6·8	6·7
20	6·7	6·6	6·6	6·5	6·4	6·4	6·3	6·3	6·2	6·2
21	6·1	6·1	6·0	5·9	5·9	5·8	5·8	5·7	5·7	5·6
22	5·6	5·5	5·4	5·4	5·3	5·3	5·2	5·2	5·1	5·1
23	5·0	4·9	4·9	4·8	4·8	4·7	4·7	4·6	4·6	4·5
24	4·4	4·4	4·3	4·3	4·2	4·2	4·1	4·1	4·0	3·9
25	3·9	3·8	3·8	3·7	3·7	3·6	3·6	3·5	3·4	3·4
26	3·3	3·3	3·2	3·2	3·1	3·1	3·0	2·9	2·9	2·8
27	2·8	2·7	2·7	2·6	2·6	2·5	2·4	2·4	2·3	2·3
28	2·2	2·2	2·1	2·1	2·0	1·9	1·9	1·8	1·8	1·7
29	1·7	1·6	1·6	1·5	1·4	1·4	1·3	1·3	1·2	1·2
30	1·1	1·1	1·0	0·9	0·9	0·8	0·8	0·7	0·7	0·6
31	−0·6	−0·5	−0·4	−0·4	−0·3	−0·3	−0·2	−0·2	−0·1	−0·1
32	+0·0	+0·1	+0·1	+0·2	+0·2	+0·3	+0·3	+0·4	+0·4	+0·5
33	0·6	0·6	0·7	0·7	0·8	0·8	0·9	0·9	1·0	1·1
34	1·1	1·2	1·2	1·3	1·3	1·4	1·4	1·5	1·6	1·6
35	1·7	1·7	1·8	1·8	1·9	1·9	2·0	2·1	2·1	2·2
36	2·2	2·3	2·3	2·4	2·4	2·5	2·6	2·6	2·7	2·7
37	2·8	2·8	2·9	2·9	3·0	3·1	3·1	3·2	3·2	3·3
38	3·3	3·4	3·4	3·5	3·6	3·6	3·7	3·7	3·8	3·8
39	3·9	3·9	4·0	4·1	4·1	4·2	4·2	4·3	4·3	4·4
40	4·4	4·5	4·6	4·6	4·7	4·7	4·8	4·8	4·9	4·9
41	5·0	5·1	5·1	5·2	5·2	5·3	5·3	5·4	5·4	5·5
42	5·6	5·6	5·7	5·7	5·8	5·8	5·	5·9	6·0	6·1
43	6·1	6·2	6·2	6·3	6·3	6·4	6·4	6·5	6·6	6·6
44	6·7	6·7	6·8	6·8	6·9	6·9	7·0	7·1	7·1	7·2
45	7·2	7·3	7·3	7·4	7·4	7·5	7·6	7·6	7·7	7·7
46	7·8	7·8	7·9	7·9	8·0	8·1	8·1	8·2	8·2	8·3
47	8·3	8·4	8·4	8·5	8·6	8·6	8·7	8·7	8·8	8·8
48	8·9	8·9	9·0	9·1	9·1	9·2	9·2	9·3	9·3	9·4
+49	+9·4	+9·5	+9·6	+9·6	+9·7	+9·7	+9·8	+9·8	+9·9	+9·9

TABLE VII.—*continued.*

Conversion of Degrees of Fahrenheit into Centigrade Degrees.

Degrees of Fah.	Tenths of Degrees.									
	0	1	2	3	4	5	6	7	8	9
+50°	+10·0	+10·1	+10·1	+10·2	+10·2	+10·3	+10·3	+10·4	+10·4	+10·5
51	10·6	10·6	10·7	10·7	10·8	10·8	10·9	10·9	11·0	11·1
52	11·1	11·2	11·2	11·3	11·3	11·4	11·4	11·5	11·6	11·6
53	11·7	11·7	11·8	11·8	11·9	11·9	12·0	12·1	12·1	12·2
54	12·2	12·3	12·3	12·4	12·4	12·5	12·6	12·6	12·7	12·7
55	12·8	12·8	12·9	12·9	13·0	13·1	13·1	13·2	13·2	13·3
56	13·3	13·4	13·4	13·5	13·6	13·6	13·7	13·7	13·8	13·8
57	13·9	13·9	14·0	14·1	14·1	14·2	14·2	14·3	14·3	14·4
58	14·4	14·5	14·6	14·6	14·7	14·7	14·8	14·8	14·9	14·9
59	15·0	15·1	15·1	15·2	15·2	15·3	15·3	15·4	15·4	15·5
60	15·6	15·6	15·7	15·7	15·8	15·8	15·9	15·9	16·0	16·1
61	16·1	16·2	16·2	16·3	16·3	16·4	16·4	16·5	16·6	16·6
62	16·7	16·7	16·8	16·8	16·9	16·9	17·0	17·1	17·1	17·2
63	17·2	17·3	17·3	17·4	17·4	17·5	17·6	17·6	17·7	17·7
64	17·8	17·8	17·9	17·9	18·0	18·1	18·1	18·2	18·2	18·3
65	18·3	18·4	18·4	18·5	18·6	18·6	18·7	18·7	18·8	18·8
66	18·9	18·9	19·0	19·1	19·1	19·2	19·2	19·3	19·3	19·4
67	19·4	19·5	19·6	19·6	19·7	19·7	19·8	19·8	19·9	19·9
68	20·0	20·1	20·1	20·2	20·2	20·3	20·3	20·4	20·4	20·5
69	20·6	20·6	20·7	20·7	20·8	20·8	20·9	20·9	21·0	21·1
70	21·1	21·2	21·2	21·3	21·3	21·4	21·4	21·5	21·6	21·6
71	21·7	21·7	21·8	21·8	21·9	21·9	22·0	22·1	22·1	22·2
72	22·2	22·3	22·3	22·4	22·4	22·5	22·6	22·6	22·7	22·7
73	22·8	22·8	22·9	22·9	23·0	23·1	23·1	23·2	23·2	23·3
74	23·3	23·4	23·4	23·5	23·6	23·6	23·7	23·7	23·8	23·8
75	23·9	23·9	24·0	24·1	24·1	24·2	24·2	24·3	24·3	24·4
76	24·4	24·5	24·6	24·6	24·7	24·7	24·8	24·8	24·9	24·9
77	25·0	25·1	25·1	25·2	25·2	25·3	25·3	25·4	25·4	25·5
78	25·6	25·6	25·7	25·7	25·8	25·8	25·9	25·9	26·0	26·1
79	26·1	26·2	26·2	26·3	26·3	26·4	26·4	26·5	26·6	26·6
80	26·7	26·7	26·8	26·8	26·9	26·9	27·0	27·1	27·1	27·2
81	27·2	27·3	27·3	27·4	27·4	27·5	27·6	27·6	27·7	27·7
82	27·8	27·8	27·9	27·9	28·0	28·1	28·1	28·2	28·2	28·3
83	28·3	28·4	28·4	28·5	28·6	28·6	28·7	28·7	28·8	28·8
84	28·9	28·9	29·0	29·1	29·1	29·2	29·2	29·3	29·3	29·4
85	29·4	29·5	29·6	29·6	29·7	29·7	29·8	29·8	29·9	29·9
86	30·0	30·1	30·1	30·2	30·2	30·3	30·3	30·4	30·4	30·5
87	30·6	30·6	30·7	30·7	30·8	30·8	30·9	30·9	31·0	31·1
88	31·1	31·2	31·2	31·3	31·3	31·4	31·4	31·5	31·6	31·6
89	31·7	31·7	31·8	31·8	31·9	31·9	32·0	32·1	32·1	33·2
90	32·2	32·3	32·3	32·4	32·4	32·5	32·6	32·6	32·7	32·7
91	32·8	32·8	32·9	32·9	33·0	33·1	33·1	33·2	33·2	33·3
92	33·3	33·4	33·4	33·5	33·6	33·6	33·7	33·7	33·8	33·8
93	33·9	33·9	34·0	34·1	34·1	34·2	34·2	34·3	34·3	34·4
+94	+34·4	+34·5	+34·6	+34·6	+34·7	+34·7	+34·8	+34·8	+34·9	+34·9

TABLE VII.—*continued.*

Conversion of Degrees of Fahrenheit into Centigrade Degrees.

Degrees of Fah.	Tenths of Degrees.									
	0	1	2	3	4	5	6	7	8	9
+97°	+35·0	+35·1	+35·1	+35·2	+35·2	+35·3	+35·3	+35·4	+35·4	+35·5
95	35·6	35·6	35·7	35·7	35·8	35·8	35·9	35·9	36·0	36·1
96	36·1	36·2	36·2	36·3	36·3	36·4	36·4	36·5	36·6	36·6
98	36·7	36·7	36·8	36·8	36·9	36·9	37·0	37·1	37·1	37·2
99	37·2	37·3	37·3	37·4	37·4	37·5	37·6	37·6	37·7	37·7
100	37·8	37·8	37·9	37·9	38·0	38·1	38·1	38·2	38·2	38·3
101	38·3	38·4	38·4	38·5	38·6	38·6	38·7	38·7	38·8	38·8
102	38·9	38·9	39·0	39·1	39·1	39·2	39·2	39·3	39·3	39·4
103	39·4	39·5	39·6	39·6	39·7	39·7	39·8	39·8	39·9	39·9
104	40·0	40·1	40·1	40·2	40·2	40·3	40·3	40·4	40·4	40·5
105	40·6	40·6	40·7	40·7	40·8	40·8	40·9	40·9	41·0	41·1
106	41·1	41·2	41·2	41·3	41·3	41·4	41·4	41·5	41·6	41·6
107	41·7	41·7	41·8	41·8	41·9	41·9	42·0	42·1	42·1	42·2
108	42·2	42·3	42·3	42·4	42·4	42·5	42·6	42·6	42·7	42·7
109	42·8	42·8	42·9	42·9	43·0	43·1	43·1	43·2	43·2	43·3
110	43·3	43·4	43·4	43·5	43·6	43·6	43·7	43·7	43·8	43·8
111	43·9	43·9	44·0	44·1	44·1	44·2	44·2	44·3	44·3	44·4
112	44·4	44·5	44·6	44·6	44·7	44·7	44·8	44·8	44·9	44·9
113	45·0	45·1	45·1	45·2	45·2	45·3	45·3	45·4	45·4	45·5
114	45·6	45·6	45·7	45·7	45·8	45·8	45·9	45·9	46·0	46·1
115	46·1	46·2	46·2	46·3	46·3	46·4	46·4	46·5	46·6	46·6
116	46·7	46·7	46·8	46·8	46·9	46·9	47·0	47·1	47·1	47·2
117	47·2	47·3	47·3	47·4	47·4	47·5	47·6	47·6	47·7	47·7
118	47·8	47·8	47·9	47·9	48·0	48·1	48·1	48·2	48·2	48·3
119	48·3	48·4	48·4	48·5	48·6	48·6	48·7	48·7	48·8	48·8
120	48·9	48·9	48·9	49·1	49·1	49·2	49·2	49·3	49·3	49·4
121	49·4	49·5	49·6	49·6	49·7	49·7	49·8	49·8	49·9	49·9
+122	+50·0	+50·1	+50·1	+50·2	+50·2	+50·3	+50·3	+50·4	+50·4	+50·5

TABLE VIII.

Conversion of Degrees of Reaumur into Degrees of Fahrenheit.

Degrees of Reaumur.	Tenths of Degrees.									
	0	1	2	3	4	5	6	7	8	9
°										
−39	−55·8	−56·0	−56·2	−56·4	−56·7	−56·9	−57·1	−57·3	−57·6	−57·8
38	53·5	53·7	54·0	54·2	54·4	54·6	54·9	55·1	55·3	55·5
37	51·3	51·5	51·7	51·9	52·2	52·4	52·6	52·8	53·1	53·3
36	49·0	49·2	49·5	49·7	49·9	50·1	50·4	50·6	50·8	51·0
35	46·8	47·0	47·2	47·4	47·7	47·9	48·1	48·3	48·6	48·8
34	44·5	44·7	45·0	45·2	45·4	45·6	45·9	46·1	46·3	46·5
33	42·3	42·5	42·7	42·9	43·2	43·4	43·6	43·8	44·1	44·3
32	40·0	40·2	40·5	40·7	40·9	41·1	41·4	41·6	41·8	42·0
31	37·8	38·0	38·2	38·4	38·7	38·9	39·1	39·3	39·6	39·8
30	35·5	35·7	36·0	36·2	36·4	36·6	36·9	37·1	37·3	37·5
29	33·3	33·5	33·7	33·9	34·2	34·4	34·6	34·8	35·1	35·3
28	31·0	31·2	31·5	31·7	31·9	32·1	32·4	32·6	32·8	33·0
27	28·8	29·0	29·2	29·4	29·7	29·9	30·1	30·3	30·6	30·8
26	26·5	26·7	27·0	27·2	27·4	27·6	27·9	28·1	28·3	28·5
25	24·3	24·5	24·7	24·9	25·2	25·4	25·6	25·8	26·1	26·3
24	22·0	22·2	22·5	22·7	22·9	23·1	23·4	23·6	23·8	24·0
23	19·8	20·0	20·2	20·4	20·7	20·9	21·1	21·3	21·6	21·8
22	17·5	17·7	18·0	18·2	18·4	18·6	18·9	19·1	19·3	19·5
21	15·3	15·5	15·7	15·9	16·2	16·4	16·6	16·8	17·1	17·3
20	13·0	13·2	13·5	13·7	13·9	14·1	14·4	14·6	14·8	15·0
19	10·8	11·0	11·2	11·4	11·7	11·9	12.1	12·3	12·6	12·8
18	8·5	8·7	9·0	9·2	9·4	9·6	9·9	10·1	10·3	10·5
17	6·3	6·5	6·7	6·9	7·2	7·4	7·6	7·8	8·1	8·3
16	4·0	4·2	4·5	4·7	4·9	5·1	5·4	5·6	5·8	6·0
15	− 1·8	− 2·0	− 2·2	2·4	2·7	2·9	3·1	3·3	3·6	3·8
14	+ 0·5	+ 0·3	+ 0·1	− 0·2	− 0·4	− 0·6	− 0·9	− 1·1	− 1·3	− 1·5
13	2·8	2·5	2·3	+ 2·1	+ 1·9	+ 1·6	+ 1·4	+ 1·2	+ 1·0	+ 0·7
12	5·0	4·8	4·6	4·3	4·1	3·9	3·7	3·4	3·2	3·0
11	7·3	7·0	6·8	6·6	6·4	6·1	5·9	5·7	5·5	5·2
10	9·5	9·5	9·1	8·8	8·6	8·4	8·2	7·9	7·7	7·5
9	11·8	11·5	11·3	11·1	10·9	10·6	10·4	10·2	10·0	9·7
8	14·0	13·8	13·6	13·3	13·1	12·9	12·7	12·4	12·2	12·0
7	16·3	16·0	15·8	15·6	15·4	15·1	14·9	14·7	14·5	14·2
6	18·5	18·3	18·1	17·8	17·6	17·4	17·2	16·9	16·7	16·5
5	20·8	20·5	20·3	20·1	19·9	19·6	19·4	19·2	19·0	18·7
4	23·0	22·8	22·6	22·3	22·1	21·9	21·7	21·4	21·2	21·0
3	25·3	25·0	24·8	24·6	24·4	24·1	23·9	23·7	23·5	23·2
2	27·5	27·3	27·1	26·8	26·6	26·4	26·2	25·9	25·7	25·5
1	29·8	29·5	29·3	29·1	28·9	28·6	28·4	28·2	28·0	27·7
− 0	32·0	31·8	31·6	31·3	31·1	30·9	30·7	30·4	30·2	30·0
+ 0	32·0	32·2	32·5	32·7	32·9	33·1	33·4	33·6	33·8	34·0
1	34·3	34·5	34·7	34·9	35·2	35·4	35·6	35·8	36·1	36·3
2	36·5	36·7	37·0	37·2	37·4	37·6	37·9	38·1	38·3	38·5
3	38·8	39·0	39·2	39·4	39·7	39·9	40·1	40·3	40·6	40·8
+ 4	+41·0	+41·2	+41·5	+41·7	+41·9	+42·1	+42·4	+42·6	+42·8	+43·0

TABLE VIII.—*continued.*

Conversion of Degrees of Reaumur into Degrees of Fahrenheit.

Degrees of Reaumur.	Tenths of Degrees.									
	0	1	2	3	4	5	6	7	8	9
°										
+5	+43·3	+43·5	+43·7	+43·9	+44·2	+44·4	+44·6	+44·8	+45·1	+45·3
6	45·5	45·7	46·0	46·2	46·4	46·6	46·9	47·1	47·3	47·5
7	47·8	48·0	48·2	48·4	48·7	48·9	49·1	49·3	49·6	49·8
8	50·0	50·2	50·5	50·7	50·9	51·1	51·4	51·6	51·8	52·0
9	52·3	52·5	52·7	52·9	53·2	53·4	53·6	53·8	54·1	54·3
10	54·5	54·7	55·0	55·2	55·4	55·6	55·9	56·1	56·3	56·5
11	56·8	57·0	57·2	57·4	57·7	57·9	58·1	58·3	58·6	58·8
12	59·0	59·2	59·5	59·7	59·9	60·1	60·4	60·6	60·8	61·0
13	61·3	61·5	61·7	61·9	62·2	62·4	62·6	62·8	63·1	63·3
14	63·5	63·7	64·0	64·2	64·4	64·6	64·9	65·1	65·3	65·5
15	65·8	66·0	66·2	66·4	66·7	66·9	67·1	67·3	67·6	67·8
16	68·0	68·2	68·5	68·7	68·9	69·1	69·4	69·6	69·8	70·0
17	70·3	70·5	70·7	70·9	71·2	71·4	71·6	71·8	72·1	72·3
18	72·5	72·7	73·0	73·2	73·4	73·6	73·9	74·1	74·3	74·5
19	74·8	75·0	75·2	75·4	75·7	75·9	76·1	76·3	76·6	76·7
20	77·0	77·2	77·5	77·7	77·9	78·1	78·4	78·6	78·8	79·0
21	79·3	79·5	79·7	79·9	80·2	80·4	80·6	80·8	81·1	81·3
22	81·5	81·7	82·0	82·2	82·4	82·6	82·9	83·1	83·3	83·5
23	83·8	84·0	84·2	84·4	84·7	84·9	85·1	85·3	85·6	85·8
24	86·0	86·2	86·5	86·7	86·9	87·1	87·4	87·6	87·8	88·0
25	88·3	88·5	88·7	88·9	89·2	89·4	89·6	89·8	90·1	90·3
26	90·5	90·7	91·0	91·2	91·4	91·6	91·9	92·1	92·3	92·5
27	92·8	93·0	93·2	93·4	93·7	93·9	94·1	94·3	94·6	94·7
28	95·0	95·2	95·5	95·7	95·9	96·1	96·4	96·6	96·8	97·0
29	97·3	97·5	97·7	97·9	98·2	98·4	98·6	98·8	99·1	99·3
30	99·5	99·7	100·0	100·2	100·4	100·6	100·9	101·1	101·3	101·5
31	101·8	102·0	102·2	102·4	102·7	102·9	103·1	103·3	103·6	103·8
32	104·0	104·2	104·5	104·7	104·9	105·1	105·4	105·6	105·8	106·0
33	106·3	106·5	106·7	106·9	107·2	107·4	107·6	107·8	108·1	108·3
34	108·5	108·7	109·0	109·2	109·4	109·6	109·9	110·1	110·3	110·5
35	110·8	111·0	111·2	111·4	111·7	111·9	112·1	112·3	112·6	112·8
36	113·0	113·2	113·5	113·7	113·9	114·1	114·4	114·6	114·8	115·0
37	115·3	115·5	115·7	115·9	116·2	116·4	116·6	116·8	117·1	117·3
38	117·5	117·7	118·0	118·2	118·4	118·6	118·9	119·1	119·3	119·5
+39	+119·8	+120·0	+120·2	+120·4	+120·7	+120·9	+121·1	+121·3	+121·6	+121·8

TABLE IX.—Rainfall Table.

Conversion of Millimetres to English Inches.

(1 Millimetre = 0·03938203 inch.)

Millimetres.	Equivalent in English Inches.	Millimetres.	Equivalent in English Inches.	Millimetres.	Equivalent in English Inches.	Millimetres.	Equivalent in English Inches.	Millimetres.	Equivalent in English Inches.	Millimetres.	Equivalent in English Inches.
0	0·000	40	1·575	80	3·151	120	4·726	160	6·301	200	7·876
1	0·039	41	1·615	81	3·190	121	4·765	161	6·341	201	7·916
2	0·079	42	1·654	82	3·228	122	4·805	162	6·380	202	7·955
3	0·118	43	1·693	83	3·269	123	4·844	163	6·419	203	7·995
4	0·158	44	1·733	84	3·308	124	4·883	164	6·459	204	8·034
5	0·197	45	1·772	85	3·347	125	4·923	165	6·498	205	8·073
6	0·236	46	1·812	86	3·387	126	4·962	166	6·537	206	8·113
7	0·276	47	1·851	87	3·426	127	5·002	167	6·577	207	8·152
8	0·315	48	1·890	88	3·466	128	5·041	168	6·616	208	8·191
9	0·354	49	1·930	89	3·505	129	5·080	169	6·656	209	8·231
10	0·394	50	1·969	90	3·544	130	5·120	170	6·695	210	8·270
11	0·433	51	2·008	91	3·584	131	5·159	171	6·734	211	8·310
12	0.473	52	2·048	92	3·623	132	5·198	172	6·774	212	8·349
13	0·512	53	2·087	93	3·663	133	5·238	173	6·813	213	8·388
14	0·551	54	2·127	94	3·702	134	5·277	174	6·852	214	8·428
15	0·591	55	2·166	95	3·741	135	5·317	175	6·892	215	8·467
16	0·630	56	2·205	96	3·781	136	5·356	176	6·931	216	8·507
17	0·669	57	2·245	97	3·820	137	5·395	177	6·971	217	8·546
18	0·709	58	2·284	98	3·859	138	5·435	178	7·010	218	8·585
19	0·748	59	2·324	99	3·899	139	5·474	179	7·049	219	8·625
20	0·787	60	2·363	100	3·938	140	5·513	180	7·089	220	8·664
21	0·827	61	2·402	101	3·978	141	5·553	181	7·128	221	8·703
22	0·866	62	2·442	102	4·017	142	5·592	182	7·167	222	8·743
23	0·906	63	2·481	103	4·056	143	5·632	183	7·207	223	8·782
24	0·945	64	2·520	104	4·096	144	5·671	184	7·246	224	8·822
25	0·985	65	2·560	105	4·135	145	5·710	185	7·286	225	8·861
26	1·024	66	2·599	106	4·174	146	5·750	186	7·325	226	8·900
27	1·063	67	2·639	107	4·214	147	5·789	187	7·364	227	8·940
28	1·103	68	2·678	108	4·253	148	5·829	188	7·404	228	8·979
29	1·142	69	2·717	109	4·293	149	5·868	189	7·443	229	9·018
30	1·181	70	2·757	110	4·332	150	5·907	190	7·483	230	9·058
31	1.221	71	2·796	111	4·371	151	5·947	191	7·522	231	9·097
32	1·260	72	2·836	112	4·411	152	5·986	192	7·561	232	9·137
33	1·300	73	2·875	113	4·450	153	6·025	193	7·601	233	9·176
34	1·339	74	2·914	114	4·490	154	6·065	194	7·640	234	9·215
35	1·378	75	2·954	115	4·529	155	6·104	195	7·679	235	9·255
36	1·418	76	2·993	116	4·568	156	6·144	196	7·719	236	9·294
37	1·457	77	3·032	117	4·608	157	6·183	197	7·758	237	9·334
38	1·497	78	3·072	118	4·647	158	6·222	198	7·798	238	9·372
39	1·536	79	3·111	119	4·686	159	6·262	199	7·837	239	9·412
										240	9·452

TABLE X.—Rainfall Table.

Conversion of English Inches and Tenths to Millimetres.

(1 inch = 25·392 millimetres.)

English Inches.	Tenths of an Inch.									
	0	1	2	3	4	5	6	7	8	9
0	0·0	2·5	5·1	7·6	10·2	12·7	15·2	17·8	20·3	22·9
1	25·4	27·9	30·5	33·0	35·6	38·1	40·6	43·2	45·7	48·2
2	50·8	53·3	55·9	58·4	60·9	63·5	66·0	68·6	71·1	73·6
3	76·2	78·7	81·3	83·8	86·3	88·9	91·4	94·0	96·5	99·0
4	101·6	104·1	106·6	109·2	111·7	114·3	116·8	119·3	121·9	124·4
5	127·0	129·5	132·0	134·6	137·1	139·7	142·2	144·7	147·3	149·8
6	152·4	154·9	157·4	160·0	162·5	165·0	167·6	170·1	172·7	175·2
7	177·7	180·3	182·8	185·4	187·9	190·4	193·0	195·5	198·1	200·6
8	203·1	205·7	208·2	210·8	213·3	215·8	218·4	220·9	223·5	226·0
9	228·5	231·1	233·6	236·1	238·7	241·2	243·8	246·3	248·8	251·4
10	253·9	256·5	259·0	261·5	264·1	266·6	269·2	271·7	274·2	276·8
11	279·3	281·9	284·4	286·9	289·5	292·0	294·5	297·1	299·6	302·2
12	304·7	307·2	309·8	312·3	314·9	317·4	319·9	322·5	325·0	327·6
13	330·1	332·6	335·2	337·7	340·3	342·8	345·3	347·9	350·4	353·0
14	355·5	358·0	360·6	363·1	365·6	368·2	370·7	373·3	375·8	378·3
15	380·9	383·4	386·0	388·5	391·0	393·6	396·1	398·7	401·2	403·7
16	406·3	408·8	411·4	413·9	416·4	419·0	421·5	424·0	426·6	429·1
17	431·7	434·2	436·7	439·3	441·8	444·4	446·9	449·4	452·0	454·5
18	457·1	459·6	462·1	464·7	467·2	469·8	472·3	474·8	477·4	479·9
19	482·5	485·0	487·5	490·1	492·6	495·1	497·7	500·2	502·8	505·3
20	507·8	510·4	512·9	515·5	518·0	520·5	523·1	525·6	528·2	530·7
	0	1	2	3	4	5	6	7	8	9

Hundredths of an Inch.

1	2	3	4	5	6	7	8	9
0·25	0·51	0·76	1·02	1·27	1·52	1·78	2·03	2·29

Stations of Se

Form 19.

187 { Latit ea Level,
Long „ „
e Ground,

Day of the Month.		9 P.M.				
		Wind.				
		Direction.	Force (0-12).	Amount (0-10).	RKS.	

INSTRUMENTS IN USE.

Barometer No.
Dry Bulb, No.
Wet „ No.
Maximum, No.
Minimum, No.
Rain gauge, No.

APPENDIX III.

CIRCULAR addressed to VOLUNTEER OBSERVERS in connexion with the METEOROLOGICAL OFFICE.

Meteorological Office, 116, Victoria Street, S.W.,
187 .

DEAR SIR,

IT has been resolved by the Meteorological Committee to make a commencement of publication of Data from other stations besides their Self-recording Observatories.

I have therefore been looking specially into the observations which are furnished to this Office by various volunteer observers, and in so doing have examined carefully those so kindly supplied by you.

I find it will be necessary, before attempting to publish any results, to obtain a more detailed statement as to the position of your instruments, and your method of observing them, than has hitherto been supplied to us, and for this purpose I venture to request you to fill up the accompanying form, and return it to me at your earliest convenience.

At the end of the form you will find some notes specially applicable to your own observations, to which I invite your kind attention.

On your returning this form filled up I shall forward a card containing the necessary corrections for facilitating the reduction of the Barometrical Readings to 32° F. and to Mean Sea Level, and I must request you to use this table, in preference to any other, in order to ensure absolute uniformity in the methods of reduction.

Yours very faithfully,

Director.

To_____

NOTES

As to the Instruments employed, and their Exposure at _____

Barometer.

Is the tube enclosed in a frame-work of brass?
What is the maker's name?
Has it been compared with any recognised standard?
If so, give a copy of the correction certificate in the following Form.

No. of Instrument and Maker's Name.	Corrections at							Where and when Compared.
	27·5	28·0	28·5	29·0	29·5	30·0	30·5	

Is the instrument suspended in a good light? but beyond the reach of Solar rays? or any very sudden change of temperature?
Does it hang quite freely, so as to be perfectly vertical?
Have you any reason to suppose the instrument to be "sluggish," or otherwise defective?
What is the height of the cistern above the Mean Sea Level? and how was the value obtained?

Thermometers.

Have those in use been compared with any recognised Standard?
If so, give a copy of their corrections below.

No. of Instrument.	Corrections at							Where, and when Compared.
	32°	42°	52°	62°	72°	82°	92°	
Dry bulb -								
Wet bulb -								
Maximum -								
Minimum -								
Solar Radiation								
Terrestrial do.								

At what height above the ground are the instruments placed?
On, or in, what form of screen are the shaded thermometers exposed?

(*Note.*—If the name of the screen is not known, give a sketch and description of it.)

Have you a Solar Radiation Thermometer (*blackened bulb in vacuo*)?
If so, how is it exposed? and at what height from the ground?

At what hour* do you set your Maximum and Minimum Thermometers?
Give a rough plan of the enclosure in which the thermometers are exposed. marking the heights of the surrounding walls, fences, or trees; and showing where the instruments are placed.

Rain Gauge.

What form of gauge is in use?
If the name is not known, give a rough sketch of it.
What is the diameter of the funnel?
What is the height of the rim { above the ground? ,, Mean Sea Level?
Should the gauge be on the roof of any building, be good enough to note the height of the rim above the roof.
Is the ground about your station level?
If not, say in what directions, and to about what extent, it slopes.

Wind.

How are the direction and force obtained?
Is the direction *true*, as distinguished from *magnetic?*
Is the force estimated by the Beaufort Scale, 0–12?
If an anemometer is used, describe its size and construction, and say how it is exposed.

Clouds.

According to what system do you classify the *form* of clouds?
Is the *amount* estimated by the scale, "0 = quite clear, 10 = entirely overcast?"

[In giving the direction of clouds the point *whence* they are moving should be recorded.]

Weather.

Is this recorded by the Beaufort scale, viz.:—b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency w. dew?

Special Notes with respect to the Observations already received from _____

* At the Vienna Congress it was decided that these instruments should be read at the latest observing hour of the day, and the observations put down to the day on which they are taken.

APPENDIX IV.

THE following List of Works of Reference may be useful, although it necessarily excludes a great number of Treatises on Meteorology:

BUCHAN, A. Handy Book of Meteorology, 2nd ed. London and Edinburgh, Blackwood & Sons, 1868.
[A 3rd edition of this work has been announced for a long time.]

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SIMMONDS, G. H. Meteorological Tables. London, Williams & Strahan, 1861.

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