

BRITISH RAINFALL,
1895.

LONDON :

G. SHIELD, 29, CADOGAN GARDENS, CHELSEA ; & LANCELOT PLACE, BROMPTON.

—
1896.

THE OLD GAUGE AT SEATHWAITE.



A.—LOOKING W.N.W. ACROSS THE GARDEN AND COTTAGE TO GREY KNOTTS.



GAUGE I.

IV.

VII.

B.—VIEW IN GARDEN, LOOKING N.E.

Frontispiece.

BRITISH RAINFALL, 1895.

ON

THE DISTRIBUTION OF RAIN

OVER THE

BRITISH ISLES,

DURING THE YEAR

1895,

AS OBSERVED AT MORE THAN 3000 STATIONS IN
GREAT BRITAIN AND IRELAND,

WITH ARTICLES UPON VARIOUS BRANCHES OF RAINFALL WORK.

COMPILED BY

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Member Sanitary Institute.*

LONDON:

EDWARD STANFORD, COCKSPUR STREET, S.W.
1896.

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ERRATA IN BRITISH RAINFALL, 1894.

- Page [34]. The entry on lines 5 and 6 *should have been* placed in October—
the real date being October 23rd to November 15th.
- ,, [182]. Dunsfold.—A figure has disappeared ; the altitude *should be* 166,
not 66 ft.
- ,, [200]. Chedington.—The altitude *should be* 604 ft.
- ,, [204]. Radstock (High Littleton).—Authority *should have been* Rev.
A. M. Foster.
- ,, [217].—Accrington (Milnshaw)—The total *should be* 41·31 in.

BRITISH RAINFALL, 1895.

WHEN writing that which is generally the last written and the first read, I always feel both anxiety and relief—anxiety as to the possibility of any errors having escaped detection, relief in feeling that, for good or for bad, the work of compilation is over. And a consolation also usually arises in looking at the Errata for the previous year, which, thanks to my colleagues' "infinite capacity for taking pains," is generally a curiosity as regards smallness.

It is one thing to write, and to print a book ; it is quite another to induce persons to read it. I do not think that it is conceit which makes me believe that much of it is very interesting ; and I am sure that if all my observers would read it, they would benefit by it, and would be even more ready to help me than they are now, which in many cases might be supposed to be an impossibility.

G. J. SYMONS.

62, CAMDEN SQUARE, N.W.,

July 18th, 1896.

R E P O R T.

General Work.—In *British Rainfall*, 1894, we devoted the first three pages to an epitome of the method of preparing these annual volumes, therefore we need say nothing upon that subject this year. A well-designed organization should have growth, but very rarely any important change, and that has been the characteristic of our rainfall work for nearly forty years. Almost all the printed forms now in use are practically identical with those prepared in 1859 and 1860, and everything that it is possible to do is done to ensure accuracy and uniformity. As to our success, it is not for us to write ; nor even to quote the appreciative notices which we sometimes see. But the labour and correspondence necessary to secure approximately perfect accuracy for the millions of figures which we have published, can be fully realized only by those who have shared in it. For a generation at least we have heard much of the spread of education, but to write legibly, to make figures so neatly that they cannot be mistaken, and to add up correctly, are not more the custom now than they were thirty years ago. When they become universal, this volume can easily appear a month or two earlier than at present. One thing which has added much to the labour of checking and of compilation, is the great increase in the number of correspondents who send the rainfall record of every day in the year, and not merely monthly abstracts. We are very glad that they do so, it leads to the detection of many errors, and in various ways materially improves the quality of our work.

Monthly and Seasonal Rainfall.—This annual report is, in one respect, a sad one ; it too often refers to work which ought to be done, which we desire to do, which we hope to do, but for which it is impossible to find time. We mentioned the above subject in *British Rainfall*, 1892, but have not yet been able to attack it.

Rain Gauges Overflowing.—At last this evil seems to be disappearing. Observers are beginning to believe in the expediency

of having rain gauges large enough to hold at least six inches, and the result is that overflows are very rare ; we do not remember one instance in 1895.

Old Observations.—It is very strange how few persons seem to realize that old observations are valuable. We are not likely to deprecate recent records, but the ordinary observer seems to consider his own record of last year far more important than any which he or his relatives made 10, 20, 30, or 100 years before. The truth is exactly the reverse, because in the olden time there was not one observer for ten or twenty at the present time, and old observations are the only possible source of information as to the relation of the rainfall of the present to that of previous centuries. Therefore, anyone who can find any old returns, and will notify their existence, will be doing good service.

New Observers.—Another droll misconception is the idea that it is unnecessary to tell us of new observers, and that it is needless to keep a record properly, because someone a few miles off does so, and the rainfall at the two places is generally alike. There are here nearly as many fallacies as there are words : (1). Although rainfall observers are very long-lived they must die, and if we are to have no new ones, who is to supply the needed information ? (2). If no one reports new observers, how are we to hear of them ? (3). An amusing illustration of the weakness of the argument that stations near to others are unnecessary has just occurred—An observer (Mr. X) reported that he did not keep his record carefully because Mr. Y did so ; we pointed out that local storms required study. Within a week, Mr. X, Mr. Y, and a third unknown observer, Mr. Z, had a TS, and they differed *by inches*. We believe that reports from all three will appear in *British Rainfall*, 1896.

Absolute Maxima in each Year.—See page 40.

Percolation Experiments at Apsley Mills, Hertfordshire.—See page 26.

Wiltshire Rainfall Association.—We regret having to announce the winding up of the above. The Rev. T. A. Preston, when residing in Marlborough in 1878, decided on attempting to collect and publish at his own cost the daily fall of rain at all Wiltshire stations. After a few years he naturally felt the expense too great, and we believe that some of the observers assisted in defray-

ing it. Then he left the county, and several persons in succession have undertaken the duties of hon. secretary, the cost of printing being defrayed by local subscription ; but owing to illness and various causes, the issues dropped behind, and finally they ceased entirely with November, 1894. We were afraid that this collapse might seriously interfere with the completeness of our own returns for the county ; but there are only four of the observers of the Wilts Association who have not, in response to our applications, forwarded copies of their records—those at Alton Barnes ; The Priory, Malmesbury ; Wolf Hall, Burbage ; and Wootton Bassett.

We are sorry to lose even these, but still have 45 stations in the county, which, as its area is only 1354 square miles, gives one gauge to each 30 square miles.

Finance.—We are thankful to be able to report a little improvement in this respect, we wish that it were possible to say a “great improvement,” for then we might get an additional assistant, which is a pressing need. Our other necessity—a permanent travelling inspector of stations—we have given up hoping for.

LIST OF ALL SUMS OF £1 AND UPWARDS RECEIVED IN PAYMENT
FOR BOOKS, DIAGRAMS, &c., OR AS CONTRIBUTIONS TO THE
GENERAL EXPENSES OF RAINFALL INVESTIGATIONS IN 1896.

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Aire and Calder Navigation Company	1 6 0
Blackburn Corporation	1 1 0
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Bradford "	1 1 0
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Hull Corporation.....	1 1 0
Leeds "	1 16 0
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Manchester "	1 1 0
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Phipps, Messrs. P., & Co.	1	10	0	Stanton, Miss R.	1	0	0
Pike, L. W., Esq.	1	0	0	Stevenson & Burstall, Messrs.	1	1	0
Pitt-Rivers, Gen., F.R.S.	1	0	0	Stewart, Sir Mark J., Bt., M.P.	1	1	0
Plater, Rev. C. E.	1	0	0	Rev. W. E.	1	1	0
Plenderleath, Rev. W. C.	1	11	0	Stirling, Colonel	1	0	0
Pleydell, J. C. M., Esq.	1	3	6	Stone, W. H., Esq.	1	10	0
Pocklington, Miss	1	2	0	Straker, J. H., Esq.	1	0	0
Poulter, H. J., Esq.	5	0	0	Stubbs, Peter, Esq.	1	1	0
Preston, A. W., Esq.	1	0	0	Sturge, R. F., Esq.	1	1	0
Prince, C. L., Esq.	1	10	0	Sturt, Col.	2	0	0
Prior, R. C. A., Esq., M.D.	1	0	0	Gen.	2	0	0
Rankin, J., Esq., M.P.	1	1	0	Styring, F., Esq.	1	5	0
Ransom, F., Esq.	1	0	0	Sutton, Martin J., Esq.	1	1	0
Rathbone, Mrs. S. J.	2	1	0	Swan, R., Esq.	1	1	0
Ravenshaw, T. E., Esq.	1	11	0	Swindells, R., Esq., C.E.	1	0	0
Rawlings, E., Esq.	1	10	0	Tabor, H. S., Esq.	1	0	0
Rayner, F., Esq., C.E.	1	1	0	Tatton, T. Egerton, Esq.	1	18	0
Read, R., Esq., C.E.	1	0	0	Tawney, Miss	1	0	0
Reade, T. Melland, Esq., C.E. ...	1	2	6	Taylor, Captain E. R.	2	13	0
Reid J. R., Esq.	1	0	0	F., Esq.	1	0	0
Reynolds, L. W., Esq.	1	1	0	Sons & Crimp, Messrs.	1	1	0
R., Esq.	1	0	0	Thomson, G. Rodie, Esq.	3	0	0
Ridout, Rev. G.	1	1	0	Timms, H. A., Esq.	1	0	0
Roberts, Dr. I., F.R.S.	1	10	0	Tuckett, F. F., Esq.	1	5	0
J. F., Esq.	1	1	0	Turner, E. R., Esq., C.E.	1	5	0
Robinson, Prof. H., C.E.	1	1	0	Tyndall, W. H., Esq.	1	1	0
J., Esq.	1	11	0	Vaughan, Cedric, Esq., C.E.	1	17	0
Rofe, H., Esq., C.E.	1	11	0	Venables, Mrs. Lister	1	1	0
Rogers, J. T., Esq.	1	0	0	Waddingham, T. J., Esq.	1	1	0
Rolle, The Hon. Mark	3	3	0	Walker, A. O., Esq.	1	0	0
Ross, D. J., Esq., C.E.	1	1	0	Ward, H., Esq.	1	6	0
Rev. J. C.	1	15	0	Wardale, Rev. J.	1	0	0
Rowcliffe, E. S., Esq.	1	0	0	Waring, Colonel, M.P.	1	0	0
Rylands, T. Glazebrook, Esq. ...	1	1	0	Watkins, Mr. H.	1	5	0
Ryves, Rev. G. T.	1	0	0	J., Esq.	1	0	0
Scoles, Rev. J., S.J.	2	2	6	Weller, G., Esq.	1	0	0
Scott, Gen. A. de C.	1	0	0	Westminster, The Duke of	1	0	0
B., Esq.	1	1	0	Weston, J., Esq.	1	1	0
J. W., Esq.	1	1	0	Whitaker, B. I., Esq.	1	0	0
Searle, G. von U., Esq.	1	2	6	Wilkin, F., Esq.	2	0	0
Senhouse, H. P., Esq.	1	1	0	Wilkinson, W. King, jun., Esq.	1	1	0
Shaw, A. W., Esq.	1	0	0	Williams, Dr. Theodore	1	5	0
Shelford, W., Esq., C.E.	1	1	0	J. A. B., Esq., C.E.	1	1	0
Shepherd, J. W., Esq.	1	0	0	Williamson, late B., Esq.	1	7	6
Shuldhams, Col.	1	2	6	Wilson, A., Esq.	1	0	0
Sibly, T. D., Esq.	1	1	0	J. M., Esq.	1	1	0
Sidebotham, Dr. E. J.	1	0	0	Wood, Rev. J. Cooper	1	1	0
Sidebottom, Col., M.P.	1	0	0	J. G., Esq.	1	1	0
Sidney, late Hon. H.	1	0	0	T. Travers, Esq.	1	1	0
Silver, S. W., Esq.	2	2	0	Woodd, C. H. B., Esq.	1	0	0
Sing, Joshua, Esq.	1	0	0	Woodhouse, A. J., Esq.	1	1	0
Single, Stanley, Esq.	1	2	0	Wortham, H., Esq.	1	15	0
Slade, F., Esq., C.E.	1	1	0	Wright, Col. I.	1	1	0
Smart, F. G., Esq.	2	0	0	Yool, G. A., Esq.	2	7	0
Smith, B. Woodd, Esq.	1	1	0	Young, F. C., Esq.	1	1	0
Harold, Esq.	2	2	0	W. B., Esq.	1	5	0
Hon. W. F., M.P.	3	0	0	Younger, H. J., Esq.	1	10	0

[Subsequent receipts will be acknowledged monthly in the *Meteorological Magazine*. Cheques should be crossed National Bank, and Post Office Orders drawn on Camden Rd., London, N.W.]

SEATHWAITE'S JUBILEE, 1845-94.

This event ought properly to have been announced in our last volume, but it was impossible to prepare the tables in time.

In *British Rainfall*, 1867, I wrote an article of nine pages (with a map) on the "Origin, progress, and present state of our knowledge of the rainfall in the Lake District." That article need not be reprinted, but, as those early volumes are scarce, will be quoted from, rather than referred to.

Another preliminary remark : Seathwaite was but one of Dr. Miller's stations ; in considering the rainfall at Seathwaite, we are naturally tempted to refer to that at surrounding stations ; but to discuss all the Lake District observations would be a heavy task, and therefore this year's notice will be limited to the record of what has been done in the little hamlet of Seathwaite.

HISTORY OF THE STATION.

It is not now possible to ascertain the whole details with precision.

Dr. J. Fletcher Miller, F.R.S., resided at Whitehaven, and in 1833 began to keep a meteorological register. Ten years later he became specially interested in the distribution of rainfall ; in November, 1843, he started a gauge in Ennerdale. It broke down, and in June of the following year he renewed it, and established six other stations ; and in January of 1845 we have the first return for Seathwaite, commencing the record which is now in its 52nd year.

Most probably the reason for the starting of this record, was the residence there of Mr. John Dixon, who was the agent for the Borrowdale Plumbago Mine, and in the garden of whose cottage the gauge has remained the whole time.

Dr. Miller's mountain gauges were abandoned in 1853, he himself died in 1856, and at that time few took any interest in the rainfall of the district except Mr. Dixon, who went on with the Seathwaite record until a revival took place about 1863 ; and to the time of his death in 1866 rainfall owes much to the interest taken in it by Mr. Dixon. Since about 1863, there have been several observers, and small payments have been made in consideration of extra observations and of additional work.

HISTORY OF THE GAUGES.

No. I.—*Original Gauge.*—The original gauge was a 5 in. one of zinc, with a can somewhat like the engraving, with the rim too flat, *i.e.*, not so sharp and nearly vertical, as experience has proved to be desirable. It was sunk through a hole in a stone about a foot square, the rim being about 6 inches above the stone, and about a foot above the general level of the ground. It was used continuously until 1893, when it became too dilapidated and was replaced by a Snowdon pattern gauge like No. VII. The station was first inspected on August 12th, 1862, by Mr. G. Harvey Simmonds, who found that the measuring glass then in use had the following errors—

At	.1	.2	.3	.4	.5
	+ .001	+ .003	- .002	.000	+ .001

It was therefore practically correct.

I first visited the station on August 16th, 1866, and found that the old glass had been broken, and a new one obtained which was rather too large, *i.e.*, it made the fall slightly too small, the error being

.1	.2	.3	.4	.5
- .002	- .005	- .002	- .007	- .001

a new jar was therefore divided and supplied, and the old one was not used after October, 1866.

I visited the station in 1873, in 1884, and in 1895, and on each occasion found all in good order.

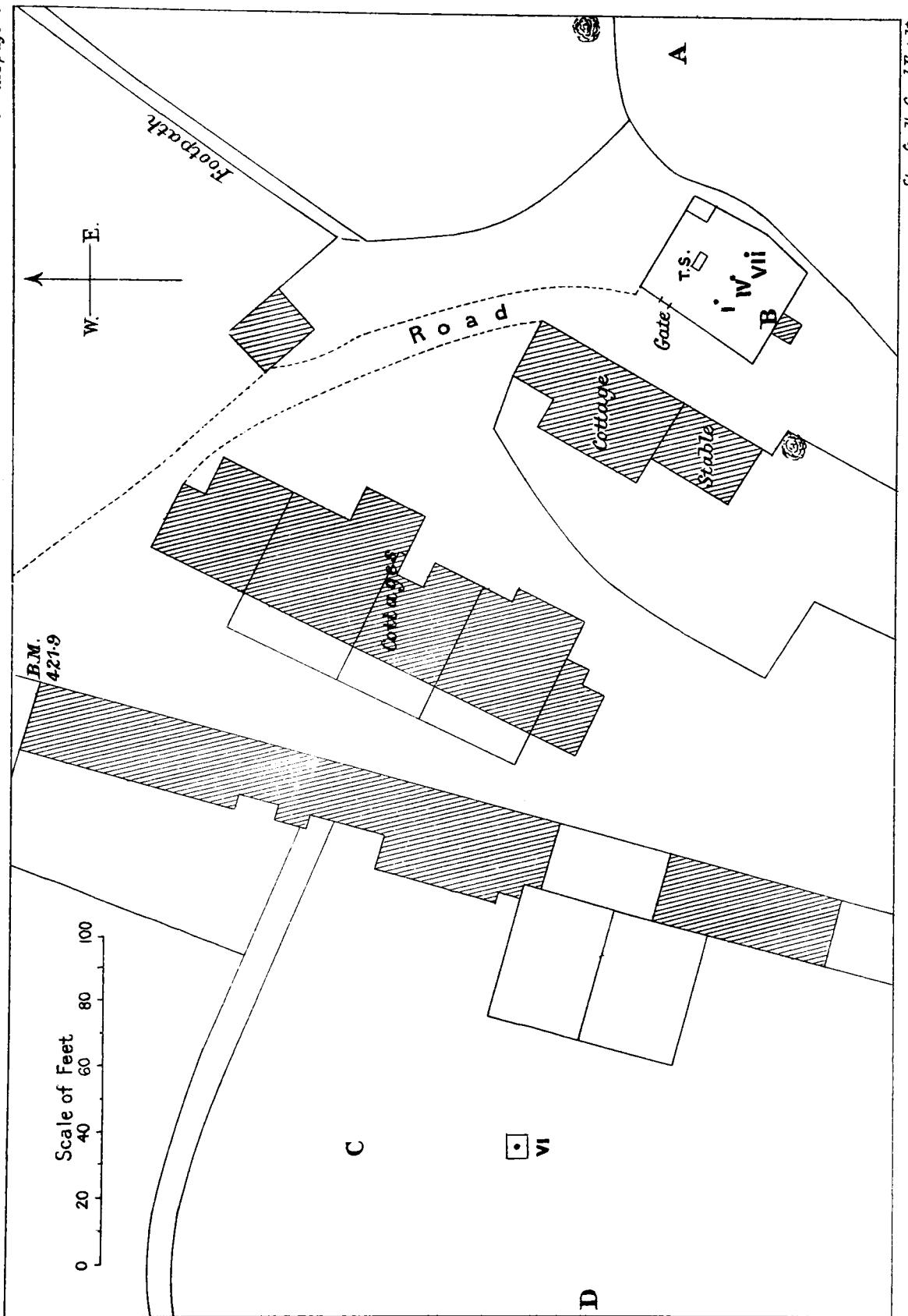
Having become a station of the Royal Meteorological Society, it is now inspected every two or three years by the Assistant Secretary, Mr. W. Marriott.

During the first five years (1845–49) Gauge I. was said to be six inches above the ground (perhaps the six inches was the height above the stone), but it was afterwards said to be ten inches, or 1 foot, which it certainly has been for 34 years out of the 50. The height above sea has been variously given, but has always been 422 feet.

Nos. II and III.—*Seathwaite Field.*—Of these gauges or this gauge, for it may have been one gauge moved in January, 1850, I can find no information. The name is not sufficiently definite to fix the position, and it (or they) may have been a little N. of the standard gauge, or near Mr. Marshall's gauge, No. VI. Gauge No. II. is said to have been 1 ft. 6 in., and No. III. 1 ft. 10 in., above the ground.

No. IV.—*Fletcher's Gauge.*—In the autumn of 1863, Mr. Isaac Fletcher, M.P., F.R.S., a relative of Dr. Fletcher Miller, decided upon obtaining fresh records from some of the positions where

SEATHWAITE



Dr. Miller had had gauges about 10 years previous. He instructed Messrs. Cook, of York, to construct a dozen 4 in. gauges with stout iron cases and heavy copper containers of the pattern shown; and (for comparison) he placed one of these gauges in the garden at Seathwaite at the end of 1864, and (with imperfections in 1870 and 1872) it has been observed ever since.

No. V.—*Symons's Float Gauge*.—In the autumn of 1866, I put down in various parts of the Eastern portion of the Lake District about a dozen 8 in. gauges of the pattern shown, and (with the same object as Mr. Fletcher) put one of these in the Seathwaite garden. The observer in 1872 was not so careful as his predecessors, and so No. V., like No. IV., was not properly attended to. Eventually when Mr. John Birkett left Seathwaite to go to Rosthwaite he took this gauge with him, and sent records from it until his death.

No. VI.—*Marshall's Gauge*.—Near the end of 1875, there was a change of tenant, and for a time it looked as if the Seathwaite record must be given up. Mr. Crosthwaite, F.S.A., however, kindly drove down from Keswick, and succeeded in preventing any breach of continuity. Still it was not pleasant to have any uncertainty on the point, so the late Mr. H. C. Marshall, of Derwent Island, who has land within 100 yards or so of the Seathwaite garden, procured from Casella a verified copper 5 in. gauge of the pattern designed by Mr. A. R. Binnie, C.E., for the Bradford Water Works, and had it placed in a level field, surrounded by an iron rail fence 3 ft. 3 in. high, and 6 ft. by 7 ft., and observed by one of his tenants. His son and grandson have had the observations continued, and long may they last. The existence of this record renders improbable (and futile) any attempt at extortion similar to that of 1875.

No. VII.—*Royal Meteorological Society's Gauge*.—At the end of 1880, the Royal Meteorological Society decided that it was expedient that a complete climatological station should be started at Seathwaite, and the Assistant Secretary (Mr. W. Marriott) took down the necessary instruments, as well as a Stevenson screen. There were thence in the same garden gauges I., IV., and the new copper one belonging to the Society, No. VII.

All these patterns of gauge are represented by engravings facing page 22.

DESCRIPTION OF THE STATION.

We have tried by various illustrations to render this as nearly complete as possible.

In case any person desires to find the spot on a map, we give the precise latitude and longitude of the garden in which the standard gauge (No. I.) has always been—viz., $54^{\circ} 29' 55''$ N., and $3^{\circ} 10' 50''$ W. The height above sea level is 422 ft.

The tinted map represents about 30 square miles, with Seathwaite nearly in the centre, in a valley running northwards, and then north-eastwards towards Derwentwater. The valley runs nearly due south (narrowing and rising) for about a mile south of the Hamlet, and at about three-quarters of a mile south of the Hamlet is entered from the south-west by a glen, down which Taylor's Gill discharges the water from Sty Head Tarn. The heavy rainfall at Seathwaite has been explained as follows (and most of the details can be traced on the map) :—Wastwater is just outside the map, S.S.W. of Seathwaite. The rainbearing clouds are supposed to be driven over Wastwater, and their only exit is by passing over Lingmell Beck and over Sty Head Pass ; they are thus lifted to about 1500 ft. above sea level, and condense on passing the summit (at The Sty) and in the Seathwaite valley beyond.

The plan of the Hamlet is on a large scale, so as to show the details of the little garden, and its freedom from trees—the nearest one being 60 ft. away. It may be well to state that repeated measurement has shown that no object in or near the garden subtends an angle of 30° above the gauge. This point is stated distinctly, because in non-stereoscopic photographs it is not easy to judge of the distance of objects one behind another.

The four views (two of which form the frontispiece) show respectively the surroundings of the old gauges, I., IV. and VII., and of Mr. Marshall's gauge, No. VI. The sites (or directions) whence the several views were taken are indicated on the large scale plan by the letters A, B, C, D, which are also attached to the views. For the photographs, whence these interesting blocks have been prepared, we are indebted to Mr. W. Marriott.

HILLS AND VALLEYS AROUND SEATHWAITE.

To face p 18.



Scale, 1 Inch to a Mile.

1

London: Edward Stanford.

Stanford's Geog^t Estab^t

THE RESULTS.

Gauge I.

Monthly Fall.—On page 24 is given the monthly fall shown by this gauge during the 50 years. In order to economise space, the totals for the year are not given, but they will be found in the second column of the table on page 25.

The principal facts in the monthly table are as follows:—

Jan.	Feb.	Mar.	Apr.	May	Jun.	July	Aug.	Sept.	Oct.	Nov.	Dec.
16·07	12·60	10·25	6·71	Mean 7·12	Monthly 7·76	9·68	Fall. 11·41	11·99	14·34	13·90	15·48
1·26	1·29	·98	·74	Least— ·89	Amount and Year. 1·11	1·75	2·68	·59	3·30	2·55	1·21
1881	1855	1852	1852	1853	1889	1870	1870	1894	1880	1867	1890
32·14	30·55	27·24	17·26	17·30	16·38	21·04	26·99	25·62	32·13	35·41	32·83
1872	1848	1868	1862	1884	1881	1882	1891	1892	1862	1861	1852

Yearly Fall.—We now come to the yearly totals and remarks thereupon.

The second column on p. 25 gives the total by the old gauge at Seathwaite from 1845 to 1894, both inclusive.*

The means for the decades are as follows:—

1845—1854 = 140·85 in.	1850—9 = 126·98 in.
1855—1864 = 137·50 ,,	1860—9 = 154·05 ,,
1865—1874 = 145·09 ,,	1870—9 = 134·95 ,,
1875—1884 = 132·03 ,,	1880—9 = 129·00 ,,
1885—1894 = 131·02 ,,	
Mean, 1845—1869, 25 years = 140·85 in.	
,, 1870—1894, 25 ,,, = 133·77 ,,,	
,, whole period, 50 ,,, = 137·31 ,,,	

At first sight the wetness of the period 1860—69 looks suspicious, and the fall in the years 1861, 1862 and 1863 appears excessive,

* This is not rigorously correct. As already explained, there are now at Seathwaite Gauges I., IV., and VII. Gauges I. and VII. are identical in construction, and naturally very often give identical readings. The observer noticed this, and saved himself the trouble of reading two in 1894, for he sent the same figures to the Royal Meteorological Society and to Camden Square. I explained to him that though they might often read alike, they could not always do so, but he was positive that they never differed, and as I did not wish to provoke any unpleasantness, and knew that the matter was not important, I did not press it further. No. I. is now read weekly, No. VII. daily.

but on turning to the table on page 19 of *British Rainfall*, 1867, they are amply confirmed by the old-established records at Troutbeck and Keswick, so that their accuracy can hardly be questioned. Moreover they followed shortly after the driest four consecutive years in the whole record. The four years, 1855-58, had a mean of 106.26 in., and the four years, 1860-1863, of 167.16 in., or more than half as much more. One four years is 31.05 inches below the average, and the other 22.85 inches above it, so that the eight years give a mean within an inch of that for the whole fifty years.*

Fluctuation of Yearly Rainfall.—We have been obliged to touch upon this subject in the previous section; we now proceed to consider it fully, and to compare the Seathwaite results with previous investigations respecting other stations.

Column 3 on p. 25 gives the ratio which the fall of every year at Seathwaite bore to the mean for the 50 years, e.g. :—

Fall in 1844 = 151.87 ; Mean of 50 years, 137.31.

Then $\frac{151.87}{137.31} = 1.11$, which, to avoid decimals, is written 111 (the average being taken as 100).

The essential features as to fluctuation are those which will occur in one year, in two consecutive years, and in three consecutive years. The following are the values for Seathwaite :—

	1 year.	2 years.	3 years.
Driest	64	71	75
Wettest	133	129	128
Fluctuation	69	58	53

In *British Rainfall*, 1883, pp. 29-32, there is an article “On the limits of fluctuation of total Rainfall,” which shows that on the average of 45 stations (only one, however, exceeding 70 inches of mean fall) the values corresponding with the above are—

	1 year.	2 years.	3 years.
Driest	66	74	79
Wettest	145	—	—
Fluctuation	79	—	—

As the values for the dry extremes in the above-mentioned article

* Confirmation respecting each of these extremes will be found in the following papers :—

DAVY, DR. JOHN, F.R.S. On an unusual drought in the Lake District in 1859. *Edinb. Phil. Soc. Trans.* xxii., 1861, pp. 313-318.

DAVY, DR. JOHN, F.R.S. On the rainfall of the Lake District in 1861. *Edinb. Phil. Soc. Trans.* xxiii., 1861, pp. 53-66.

MR. MARSHALL'S GAUGE AT SEATHWAITE.



C.—LOOKING NEARLY DUE S. AT GAUGE NO. VI.



D.—LOOKING ABOUT N.E. AT GAUGE NO. VI.

appear to be independent of the mean rainfall, it seems to prove that the period 1855 to 1857 in the Lake District was exceptionally dry—and this is confirmed by the table on p. 19 of *British Rainfall*, 1867, where the ratios for the three years at Troutbeck are respectively for 1 year 60, for 2 years 65, for three years 66, or +, 6, and 9 per cent. below even the Seathwaite values.

As regards the one wettest year, the average of the 45 stations gave a ratio of 145 against the above 133 for Seathwaite. As already mentioned, there were few wet stations among the 45, but on the whole we expressed the opinion that "At wet stations the extremes both of wetness and of dryness are less pronounced than at dry ones." The present investigation of the Seathwaite records confirms this as regards wetness, but negatives it as regards dryness.

Heavy Falls in 24 hours.—On our last visit to Seathwaite we were surprised to find that a previous observer had taken away the old MS. observation books; we at once wrote to ask for them, and were told in reply that, as they were supposed to be of no use, they had all been burned! Fortunately we have the whole of the monthly totals for all the gauges, but we have not the daily fall for the early years. However, it is useless to lament, and much more sensible to put on record what we have, hence the following table, which is perfect for 24 years and for a few earlier ones:—

Greatest Daily Rainfall at Seathwaite in each year.

		in.			in.
1845	Nov. 26.....	6·62	1878	Feb. 28.....	3·32
1861	Nov. 26.....	7·52	1879	Dec. 27.....	4·02
1864	Dec. 5.. ...	6·47*	1880	Nov. 13.....	4·75
1865	May 30.....	6·41	1881	June 30.....	4·99
1866	Nov. 16.....	6·38	1882	May 24.....	4·51
1867	April 14	3·56	1883	Mar. 29.....	3·95
1868	Unknown.		1884	May 8.....	6·78
1869	Nov. 13.....	6·70	1885	Feb. 26.....	4·62
1870	Unknown.		1886	Jan. 3.....	4·00
1871	Dec. 18	3·88	1887	Feb. 22.....	3·20
1872	Jan. 17.....	5·82	1888	Oct. 27.....	4·57
1873	Oct. 9.....	4·20	1889	Dec. 19.....	3·86
1874	Oct. 6.....	5·14	1890	Sept. 30.....	6·79
1875	Dec. 20.....	3·19	1891	Aug. 24	6·14
1876	Aug. 2.....	3·36	1892	Sept. 18.....	5·80
1877	Sept. 13.....	4·78	1893	Feb. 13.....	4·96
			1894	Jan. 26.....	4·36
			1895	Mar. 23.....	4·46

* This was the last of three wet days; the fall was on the 3rd 3·10 in., on the 4th 5·95 in., and on the 5th 6·47 in., making 15·52 in. in three days; 21·77 in. fell in 10 days.

OTHER GAUGES AT SEATHWAITE.

I wish to direct particular attention to the double rule separating the first three columns on p. 25 from the others, because anyone who looks at that table without attending to that double rule, and without reading the following sentence, is sure to be confused and to think that there is some mistake.

The fact is, that the first three columns are devoted to the record of Gauge I., the standard record ; the subsequent columns are to be considered solely as confirmatory—and for that purpose the ratios in the latter columns have nothing to do with the relative wetness or dryness of the years, but express the ratio of the amount collected in each year by each gauge to the amount collected by Gauge I.—e.g., Gauge I. in 1847 collected 129·24 in., but Gauge II. collected only 126·80 in., which was 98 per cent. of the amount collected by Gauge I.—and so of all the other values given on that side of the double rule.

Gauge II.—It will be remembered that at first Gauge I. was said to be only 6 inches above the ground ; Gauge II. was 1 ft. 6 in. above it, and therefore it should have collected slightly less.

Gauge III.—This was 1 ft. 10 in. above the ground, and therefore the same argument applies as with reference to Gauge II.

Gauge IV.—This gauge is, as regards the collection of snow, so badly designed that I do not understand why, from 1872 to 1894, it has practically collected as much as Gauge I. ; the deficiency, as shown by the first few years, seems more probable, and the sudden change at the beginning of 1872 is very puzzling. Of course, the same arithmetical result would follow if the readings of Gauge I. for the years 1865–71 were too high, but there does not seem to be any reason to accept that explanation.

Gauge V.—This gauge shows rather less than I expected ; perhaps its position in the garden was slightly sheltered.

Gauge VI.—This gauge is practically perfect, and in an excellent position ; it shows a mean deficiency of 5·2 per cent. as compared with Gauge I.

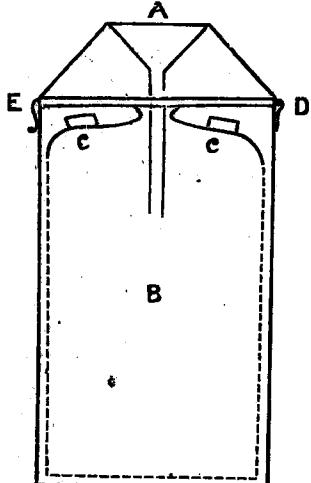
Gauge VII.—This gauge is close to Gauge I., and (as already explained) has practically supplanted it. It is therefore satisfactory to find that it agrees with Gauge I. within less than 2 per cent.

PATTERNS OF RAIN GAUGE USED AT SEATHWAITE.

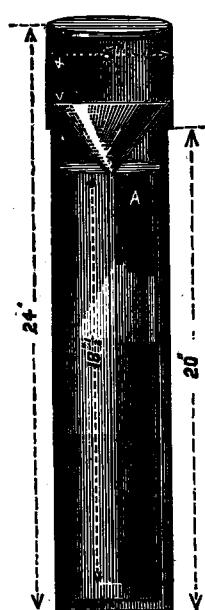
I.



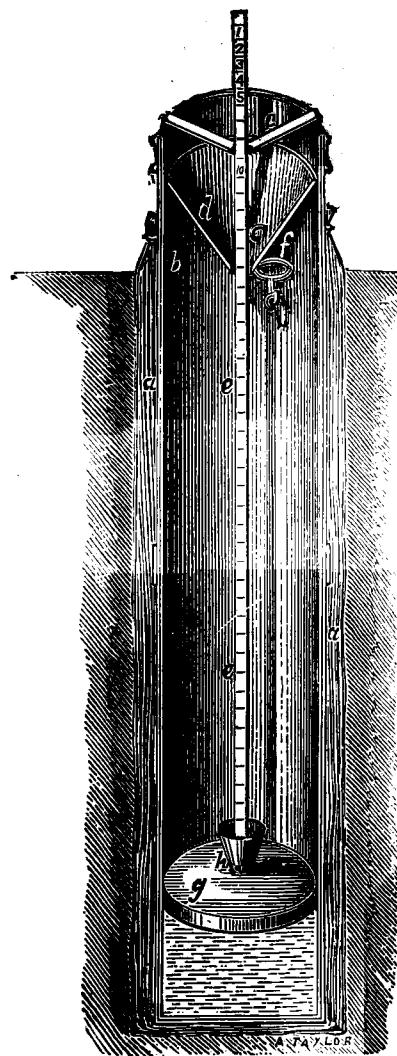
IV.



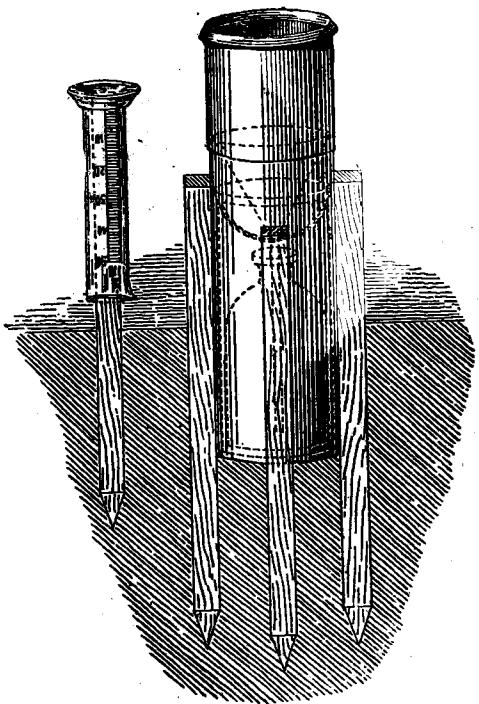
VI.



V.



VII.



Finally, by applying the mean ratios against Gauges II. to VII., we can get the computed mean value for each, if each had gone on for the whole 50 years, and the values would be as follows :—

Gauge	I.....	Old gauge....	Mean Ratio.	Computed Mean for 50 years.
	II.....	Field, 18 in.....	100·0 = 97·7	137·31 in. = 134·18 ,,
	III.....	22 „	97·0	= 133·12 „,
	IV.....	Fletcher's 4 in.	97·8	= 134·29 „,
	V.....	Symons's 8 „	95·4	= 130·99 „,
	VI.....	Marshall's	94·8	= 130·17 „,
	VII.....	R.Met.Soc.	98·6	= 135·39 „,

I am inclined to regard the mean by the old Gauge I., 137·31 in., as rather too high (partly because it is greater than Gauge VII., partly because its flat rim would tend to make it show rather too much), and regard 135 as the most probable true value.

It may be convenient to epitomize the final conclusions :—

- (1) The rainfall in the garden at Seathwaite is on the average 135 inches a year.
- (2) In the wettest year it has exceeded 182 inches, and may possibly reach 190 inches.
- (3) In the driest year it has fallen to 88 inches, and will probably never be less.
- (4) In one month (November, 1861) more than 35 inches fell.
- (5) In September, 1894, very little more than half an inch fell.
- (6) There are nine recorded cases of more than 6 inches falling on one day—probably there have been about a dozen—the heaviest recorded was 7·52 inches on Nov. 26th, 1861.

Monthly Rainfall at Seathwaite for 50 years (Gauge No. I.)

January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
1845	16.81	3.48	13.21	10.57	4.57	8.25	8.65	15.61	9.77	15.17	20.84
1846	17.07	11.51	17.85	7.70	4.40	6.41	20.80	10.58	4.60	25.43	10.46
1847	6.29	8.27	2.53	6.81	8.08	7.27	3.32	10.48	13.28	20.52	21.85
1848	9.67	+30.55	11.36	4.19	3.05	11.30	17.76	13.91	7.00	17.32	14.07
1849	24.96	7.55	5.51	3.88	6.52	3.97	16.64	9.92	4.08	16.14	18.75
1850	7.34	22.58	4.13	15.62	7.14	6.83	11.20	16.22	5.85	12.94	22.60
1851	28.63	15.33	9.36	6.08	4.53	11.63	14.47	13.16	4.30	20.38	3.74
1852	27.65	20.05	—	.98	.74	11.59	12.33	7.65	12.37	4.64	8.44
1853	23.12	3.84	4.59	12.67	—	.89	4.07	19.67	10.47	10.42	13.25
1854	19.61	11.26	10.13	3.04	8.29	13.98	6.98	10.63	12.24	14.62	9.84
1855	4.11	—	1.29	9.19	5.64	3.99	8.05	5.62	10.82	3.67	20.00
1856	9.96	14.30	1.61	6.98	5.26	12.66	6.31	7.61	8.39	8.61	6.03
1857	15.12	14.94	10.37	5.02	5.02	8.15	9.09	5.25	7.97	7.25	7.93
1858	13.72	2.39	10.50	7.85	8.75	2.19	7.57	7.82	18.39	15.60	4.24
1859	23.40	15.80	20.84	12.71	1.04	5.95	3.33	13.38	15.32	8.27	13.55
1860	23.79	9.23	17.15	5.04	9.80	15.87	3.21	13.91	6.68	23.70	4.76
1861	9.88	18.27	26.08	.82	4.61	7.70	14.50	25.20	17.42	9.07	+35.41
1862	16.78	5.50	10.30	+17.26	8.28	15.62	13.67	12.81	6.38	+32.13	5.14
1863	20.65	14.25	8.31	10.94	13.30	11.01	2.82	9.79	25.03	14.86	24.75
1864	13.23	10.11	12.14	3.04	4.53	11.62	7.57	9.72	16.55	6.37	16.10
1865	13.84	10.94	6.44	4.31	16.72	1.25	7.08	13.06	7.19	11.78	13.83
1866	25.99	19.17	13.05	5.97	5.06	6.57	11.18	12.69	21.35	9.62	23.08
1867	15.66	17.05	8.32	16.92	5.25	4.90	10.43	13.05	12.47	13.67	—
1868	13.54	19.90	+27.24	8.95	6.98	3.47	2.32	13.70	5.77	18.30	9.43
1869	17.43	23.13	3.21	10.26	3.16	5.13	8.30	4.51	24.09	9.95	23.19
1870	14.08	13.67	9.51	6.50	14.49	6.41	—	1.75	2.68	12.70	24.17
1871	11.95	15.99	10.26	6.36	2.63	2.82	12.57	9.10	5.53	6.24	9.91
1872	+32.14	17.53	11.23	5.08	9.54	12.30	5.90	9.34	20.85	19.13	18.64
1873	28.64	3.05	7.30	1.76	5.58	7.78	16.96	18.73	13.70	21.23	10.06
1874	20.82	10.50	14.24	4.72	2.82	3.02	7.20	18.60	16.06	30.18	13.29
1875	22.88	3.45	5.66	4.53	7.80	10.90	5.15	7.87	14.45	10.08	12.10
1876	10.91	16.21	12.80	6.04	2.05	8.34	6.05	9.77	8.23	7.32	8.00
1877	25.65	14.42	7.74	5.43	10.92	10.51	15.45	11.79	8.98	22.92	28.47
1878	17.06	11.74	8.06	4.19	9.30	6.13	3.11	9.51	15.06	16.16	5.82
1879	3.34	7.93	12.14	4.76	4.67	9.93	13.60	12.99	16.67	8.03	3.87
1880	4.77	17.07	7.16	9.89	6.62	9.68	10.05	4.15	9.51	—	3.30
1881	—	1.26	10.27	15.52	3.75	13.31	+16.38	13.04	13.53	5.05	6.82
1882	11.40	14.07	13.78	10.08	8.48	13.66	+21.04	9.05	8.18	9.14	18.52
1883	21.92	18.20	6.77	5.00	6.44	8.09	6.18	11.33	13.37	15.62	19.84
1884	22.51	14.96	13.98	4.15	+17.30	1.47	10.01	3.36	11.97	10.80	6.70
1885	11.36	26.05	14.86	9.45	6.30	6.15	11.90	8.36	18.90	12.79	10.35
1886	15.79	3.72	9.93	6.82	8.10	4.70	10.69	8.72	20.70	11.27	14.78
1887	12.11	9.51	4.52	9.22	5.55	2.20	10.04	4.75	15.58	7.89	8.62
1888	8.32	2.97	9.62	7.35	8.17	2.35	11.21	9.30	5.77	14.51	22.87
1889	12.36	9.53	8.88	5.64	5.79	—	1.11	5.78	11.92	8.31	13.77
1890	21.80	3.74	12.73	4.55	7.96	13.59	13.43	9.79	15.88	11.64	25.48
1891	11.34	2.60	8.35	7.63	5.46	3.08	5.82	+26.99	20.86	15.92	13.89
1892	14.44	5.15	3.29	3.91	12.13	8.01	8.39	15.57	+25.62	12.11	11.82
1893	6.90	20.99	8.67	1.59	5.75	6.11	10.46	13.58	13.91	18.63	11.54
1894	21.46	25.91	11.24	4.29	8.17	7.19	8.08	13.10	—	13.84	18.23

The + and — respectively indicate the extremes for each month.

Mean 16.07 12.60 10.25 6.71 7.12 7.76 9.68 11.41 11.99 14.34 13.90 15.48

Annual Rainfall at Seathwaite, 1845–94.

	I. in.	II.	III.	IV.	V. in.	VI. in.	VII. in.
1845	151·87	<i>111</i>					
1846	143·51	<i>104</i>	in.	II.			
1847	129·24	<i>94</i>	126·80	98			
1848	160·89	<i>117</i>	157·22	98			
1849	125·47	<i>91</i>	121·57	97			
1850	143·96	<i>105</i>	III.	III.			
1851	139·60	<i>102</i>	135·86	97			
1852	156·74	<i>114</i>	150·88	96			
1853	113·69	<i>83</i>	111·61	98			
1854	143·48	<i>104</i>					
1855	88·31	<i>64</i>					
1856	105·52	<i>77</i>					
1857	116·60	<i>85</i>					
1858	114·61	<i>83</i>					
1859	147·29	<i>107</i>					
1860	142·20	<i>103</i>					
1861	182·58	<i>133</i>					
1862	170·03	<i>124</i>					
1863	173·84	<i>127</i>					
1864	134·67	<i>98</i>	IV.	IV.			
1865	117·49	<i>86</i>	106·61	91	V.		
1866	179·12	<i>131</i>	166·71	93			
1867	133·31	<i>97</i>	115·96	87	122·50	92	
1868	157·11	<i>115</i>	138·33	88	142·50	91	
1869	150·11	<i>109</i>	133·03	89	140·00	93	
1870	121·20	<i>88</i>			113·00	93	
1871	115·15	<i>84</i>	(103·25)	90	109·75	95	
1872	182·05	<i>133</i>	(186·25)	102	(176·00)	97	
1873	146·53	<i>107</i>	143·23	98			
1874	148·79	<i>108</i>	148·29	100	145·00	97	VI.
1875	118·80	<i>86</i>	120·05	<i>101</i>	115·75	97	
1876	114·03	<i>83</i>	114·58	100	113·50	100	104·25
1877	180·40	<i>131</i>	181·56	<i>101</i>			91
1878	111·88	<i>81</i>	110·96	<i>99</i>	110·25	99	169·19
1879	110·70	<i>81</i>	112·26	<i>101</i>			94
1880	120·12	<i>87</i>	120·32	<i>100</i>			103·75
1881	130·58	<i>95</i>	129·33	<i>99</i>			93
1882	149·69	<i>109</i>	152·46	<i>102</i>			99·70
1883	147·68	<i>108</i>	146·83	<i>100</i>			90
1884	136·43	<i>99</i>	139·03	<i>102</i>			112·52
1885	144·01	<i>105</i>	145·31	<i>101</i>			95
1886	133·84	<i>101</i>	135·93	<i>102</i>			124·18
1887	101·57	<i>74</i>	97·27	<i>96</i>			96
1888	119·89	<i>87</i>	118·19	<i>99</i>			143·70
1889	106·24	<i>77</i>	105·37	<i>97</i>			95
1890	141·80	<i>103</i>	141·64	<i>100</i>			139·64
1891	147·19	<i>107</i>	145·55	<i>99</i>			95
1892	129·50	<i>94</i>	126·95	<i>98</i>			140·97
1893	140·66	<i>102</i>	139·30	<i>99</i>			96
1894	145·52	<i>106</i>	147·53	<i>101</i>			100

For the explanation of the figures in italics see p. 22.

PERCOLATION EXPERIMENTS
AT APSLEY MILLS, HEMEL HEMPSTEAD.

THE first person to work really systematically, and for a long series of years, the percolation gauge suggested by Dr. Dalton was the late Mr. John Dickinson, of Nash Mills, Hemel Hempstead, where the records have been continued to the present time by his nephew, Sir John Evans, F.R.S., and by Messrs. John Dickinson & Co., Limited. In *British Rainfall*, 1890, p. 19 *et seq.* we gave an epitome of the results. Since then we have been favoured with abstracts of the observations at Apsley Mills (belonging to the same firm), with a series of gauges most carefully installed on a levelled portion of a very gently sloping grass field, the gauges being sunk so flush with the rest of the ground that only a light protecting fence, and at a short distance the steps to the underground measuring chamber, indicate where they are.

There are in all seven gauges, each 2 ft. in diameter—

One is for the measurement of rain.

One	,	,	the percolation through sand	3 ft.	3 in.	deep.
One	"	"	"	"	5 ft.	2 in.
One	"	"	"	chalk	3 ft.	3 in.
One	"	"	"	"	5 ft.	2 in.
One	"	"	"	earth	3 ft.	3 in.
One	"	"	"	"	5 ft.	2 in.

The monthly values for the twelve years 1884—95 are set out in the tables at the end of this paper.

These tables are made out for the calendar year, and give the values for every month of the twelve years ; and they are followed by one giving the mean for the whole period by each gauge for each month.

But it has been usual to tabulate the Nash Mills records in half years, beginning for the summer with April, and for the winter with October. We have therefore tabulated the Apsley Mills records in the same manner, beginning with April, 1883,* and give here the results :—

* Therefore the entries in the first line are for April to September, 1883, and October, 1883, to March, 1884, and so on—nine months belonging to the year named, and three to the following civil year.

ABSTRACT OF PERCOLATION EXPERIMENTS, APSLEY MILLS, 1883-94 (arranged in Seasons).

	RAIN.		SAND, 3 ft.		SAND, 5 ft. 2 in.		CHALK, 3 ft. 3 in.		CHALK, 5 ft. 2 in.		EARTH, 3 ft. 3 in.		EARTH, 5 ft. 2 in.		
	Summer.	Year.	Summer.	Year.	Summer.	Year.	Summer.	Year.	Summer.	Year.	Summer.	Year.	Summer.	Year.	
1883	13.77	12.86	26.63	4.25	12.07	16.32	3.46	12.39	15.85	1.23	11.13	12.36	.46	11.24	11.70
1884	9.81	14.06	23.87	2.07	12.39	14.46	1.66	11.98	13.64	.11	8.26	8.37	.04	8.46	8.50
1885	13.83	14.58	28.41	5.41	15.04	20.45	5.89	14.79	20.68	2.60	11.92	14.52	2.67	10.55	13.22
1886	11.79	16.05	27.84	4.05	15.36	19.41	4.90	14.41	19.31	2.58	10.79	13.37	3.19	11.01	14.20
1887	9.48	11.58	21.06	2.92	10.57	13.49	3.48	10.42	13.90	.89	5.83	6.72	1.06	5.33	6.39
1888	14.37	12.67	27.04	5.61	11.19	16.80	6.09	11.09	17.18	3.50	10.79	14.38	4.31	10.65	14.96
1889	15.75	10.33	26.08	6.02	8.53	14.55	6.33	8.78	15.11	3.51	7.75	11.26	3.53	8.24	11.77
1890	11.90	7.65	19.55	2.30	6.67	8.97	3.08	7.12	10.20	.90	6.95	7.85	1.21	6.26	7.47
1891	14.91	16.63	31.54	4.88	16.46	21.34	4.77	16.02	20.79	2.59	16.09	18.68	3.02	16.25	19.27
1892	14.57	13.29	27.86	6.01	13.38	19.39	3.77	13.75	17.52	1.17	13.05	14.22	1.63	12.21	13.84
1893	7.48	16.73	24.21	.37	14.11	14.48	.59	15.00	15.59	.01	8.69	8.70	.00	8.09	8.09
1894	12.94	15.68	28.62	2.99	14.83	17.82	3.20	15.12	18.32	2.80	13.79	16.59	2.53	14.72	17.25
12 yrs.	12.55	13.51	26.06	3.91	12.55	16.46	3.94	12.57	16.51	1.83	10.42	12.25	1.97	10.25	12.22
Evaporation.....	8.64	-	-	9.60	8.61	-	.94	9.55	10.72	3.09	13.81	10.58	3.26	13.84	11.01

We have now to see what can be learned from these carefully kept records, taking first the foregoing seasonal abstract :—

	SAND.		CHALK.		EARTH.	
	3 ft.	5 ft.	3 ft.	5 ft.	3 ft.	5 ft.
Rain	26.06	26.06	26.06	26.06
Percolation	16.46	16.51	12.25	12.22
Evaporated or run off	<u>9.60</u>	<u>9.55</u>	<u>13.81</u>	<u>13.84</u>
	9.58			13.83		
					13.31	<u>13.50</u>
						13.41

Evidently all the rain which falls must either (1) percolate, (2) evaporate, or (3) run off the surface ; we believe this third disposal to be very trifling. However, we know *a* the amount of rain, and (1) the amount of percolation, then, *a*—(1) must give the total of (2) and (3).

The first conclusion which may be drawn from the above is that the extra 2 ft. of depth is of very little consequence ; in fact, in the sand and earth there was a trifle more percolation through the 5 ft. than through the 3 ft., but for all practical purposes the gauges may be regarded as duplicates 4 ft. deep.

One would have expected the percolation through the chalk to be greater than through the earth, but it is nearly equal, with a slight excess through the earth.

In fact, with no inaccuracy reaching 2 per cent. we may state the result to be, that with a rainfall of 26 inches, 16 inches percolate through 5 ft. of sand and 10 inches are evaporated from it, and that 12 inches soak through 5 ft. of chalk or earth, and the other 14 inches either evaporate or run off the surface.

As regards the sand, the percolation is, of course, greatest, because the water having run rapidly through into the collectors, there is less to evaporate : 63 per cent. percolates, and there is only 37 per cent. available for evaporation.

Turning now to the Abstract on p. 35,* we see that the loss follows very nearly the same monthly variation as that from a water surface, but is decidedly less. We have already pointed out that this must be so, because the sand allows the rain to pass through so rapidly that the vegetation becomes parched, and therefore there is little moisture on it to evaporate. The loss is greater on the chalk

* These means do not agree absolutely with those on p. 27, because the periods are not absolutely identical ; but the closeness of the agreement shows that there can be no error in the conclusions.

and on the earth because they hold the water, and return it to the surface by capillarity.

If now we look back to the epitome of the Nash Mills observations in *British Rainfall*, 1890, page 19, we find a startling difference :—

	RAINFALL.		PERCOLATION.				
	in.		3 ft. of Chalk.	3 ft. of Earth.	in.	per cent.	
	in.	per cent.	in.	per cent.	in.	per cent.	
Nash Mills	27·84	10·65	38	...	6·52	23
Apsley Mills	26·06	12·25	47	...	12·75	49

On p. 20 of *British Rainfall*, 1890, when commenting on the Nash Mills observations, we said that “it may perhaps be assumed that about 15 in. evaporate, and about 2 in. to 6 in. run off the surface; but this is purely imaginary, and the actual values should, if possible be ascertained.”

The following table epitomizes all the percolation observations known to us :—

Station and Period.	Percolating Material.	Rain-fall.	Percolation.		Evaporation or Loss.	
			in.	in. per cent.	in.	per cent.
Nash Mills, Herts, 1854-83	{ 3ft. of soil grassed	27·84	6·52	23	21·32	77
	{ 3ft. of chalk , ,	27·84	10·65	38	17·19	62
Lee Bridge, Essex, 1860-73	{ 3ft. of sand , ,	25·72	21·41	83	4·31	17
	{ 3ft. of soil , ,	25·72	7·58	30	18·14	70
Rothamstead, Herts, 1871-80	{ 20in. of bare soil.....	31·45	14·04	45	17·41	55
	{ 60in. of , ,	31·45	13·24	42	18·21	58
Apsley Mills, Herts, 1883-94	{ 3ft. 3in. of sand grassed	26·06	16·46	63	9·60	37
	{ 5ft. 2in. of , ,	26·06	16·51	63	9·55	37
	{ 3ft. 3in. of chalk , ,	26·06	12·25	47	13·81	53
	{ 5ft. 2in. of , ,	26·06	12·22	47	13·84	53
	{ 3ft. 3in. of soil , ,	26·06	12·75	49	13·31	51
	{ 5ft. 2in. of , ,	26·06	12·56	48	13·50	52

The differences due to thickness of the percolating layer not being important, the above may be put compactly as follows :—

	Rain.	Percolation through about 3ft. of				
		Sand.	Chalk.	Soil.		
	in.	in.	in.	in.		
Nash Mills	27·8	—	10·7	6·5
Lee Bridge	25·7	21·4	—	7·6
Rothamstead	31·4	—	—	13·6
Apsley Mills	26·1	16·5	12·2	12·6

This is by no means satisfactory, and tends to confirm our remark in *British Rainfall*, 1890, as to the difficulty of ensuring that the materials used in percolating gauges were of their natural density. We should have considered that the chalk and soil at Aspley Mills had not been packed tightly enough, but the Rothamstead value agrees closely with those from Apsley Mills.

In *British Rainfall*, 1894, p. 22, we showed that the evaporation from a water surface in the S.E. of England is about 18 inches a year. Evidently it will be much less from a surface of sand, which would often be dry, and this is what the Apsley Mills observations show, for they give—

Rainfall	26·1 in.
Percolation through sand	16·5 ,,
Evaporation	9·6 ,,

It is, however, most unsatisfactory to have four stations, two indicating almost precisely double what the others do.

POSTSCRIPT.

Since writing the above, our attention has been called to a paper by Mr. R. H. Middleton, M.Inst.C.E., "On the Relative Value of Percolation Gauges," read before the Society of Engineers on October 7th, 1895, and to the discussion thereupon, which together occupy 28 pages of the *Transactions* of the Society for 1895.

It is impossible for us to do much more than to call attention to this important contribution to the subject. The author and nearly all the speakers seem to have been impressed with the inconsistency of the records, and in this we quite agree with them. We may, however, point out that the explanation of some of the inconsistencies lies in obviously wrong measurements. On p. 157 Mr. Middleton writes:—"Perhaps the most remarkable evidence of discrepancy is to be found in a comparison of the gauges at Lea Bridge and Old Ford, for these gauges are situated only some $2\frac{1}{2}$ miles apart. They are presumably exactly similar in construction, yet the differences, both as regards the percentage of rainfall which percolated, and the rainfall itself, as shown in Table VI., are remarkable." Yes, very. What happened we do not know, but somehow, the rain gauge at Old Ford, which about 1877 showed 4 inches more than the one at Lea Bridge, became worse and worse, until in 1886 it showed

14·67 in. more than the one at Lea Bridge.* No wonder that the differences were "remarkable"; the astonishing thing is that such errors escaped detection. Perhaps we may be forgiven for mentioning, in self-defence, that neither of these records appeared in *British Rainfall*.

* The fact is that in 1886 the Lea Bridge rain gauge showed about $3\frac{1}{2}$ inches too little, and the Old Ford one about 11 inches too much!

Rain.

	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895
Jan.	in.											
Jan.	2·70	3·06	3·43	2·44	.83	1·31	1·60	2·38	.97	1·93	2·69	2·44
Feb.	1·62	3·11	.69	.94	1·35	2·13	.73	.03	1·29	3·24	1·98	.17
Mar	1·83	1·41	1·57	1·80	3·19	1·94	2·45	1·32	1·26	.52	2·45	1·77
Apr	1·47	2·26	1·77	1·25	2·35	2·64	1·57	1·00	.82	.15	1·92	1·51
May	.67	3·51	4·21	2·27	1·52	3·50	1·35	3·38	1·72	1·02	2·01	.77
J'ne	2·34	2·12	1·35	.76	2·18	.86	2·38	1·29	2·53	.90	1·99	.47
J'ly	2·23	.45	1·97	.83	4·26	4·49	3·62	3·13	2·91	2·12	1·99	4·94
Aug	1·35	1·17	.98	1·22	3·38	2·73	2·15	4·71	3·88	2·18	3·01	3·47
Sep.	1·75	4·32	1·51	3·15	.68	1·53	.83	1·40	2·71	1·11	2·02	1·06
Oct.	1·45	4·27	4·29	1·38	1·38	2·78	1·40	6·91	4·00	4·59	3·63	3·02
Nov	1·83	3·62	2·51	3·09	4·38	1·33	2·43	2·18	2·00	2·52	5·30	4·68
Dec.	3·20	1·00	4·07	1·74	1·53	1·44	.09	4·02	1·60	2·50	2·37	2·20
Yr.	22·44	30·30	28·35	20·87	27·03	26·68	20·60	31·75	25·69	22·78	31·36	26·50
Max	3·20	4·32	4·29	3·15	4·38	4·49	3·62	6·91	4·00	4·59	5·30	4·94
Min	.67	.45	.69	.76	.68	.86	.09	.03	.82	.15	1·92	.17

Percolation through grass-covered SAND, 3 ft. 3 in. deep.

	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895
Jan.	1.61	2.16	4.52	5.31	.52	1.25	1.06	1.99	1.37	1.38	2.08	3.78
Feb	1.98	3.56	1.22	.63	1.87	2.84	.96	.90	1.36	3.12	1.79	.20
Mar	1.89	1.45	.96	.86	3.05	1.64	1.92	1.58	1.09	1.20	2.54	1.16
Apr	.13	.80	1.59	.65	1.75	1.02	.27	.56	.37	.10	.14	.53
May	.12	1.83	1.95	.11	.27	1.89	.10	1.00	.19	.06	.08	.36
J'ne	.78	.69	.35	.72	.05	.33	.06	.43	.25	.05	.75	.06
J'ly	.12	.11	.11	.05	1.28	2.00	1.69	.47	1.56	.03	.52	2.41
Aug	.03	.03	.03	...	1.66	.55	.14	1.80	2.03	.03	.88	1.72
Sep.	.89	1.95	.02	1.39	.60	.23	.04	.62	1.61	.10	.62	.31
Oct.	.29	3.41	2.06	.53	.02	1.81	...	6.60	3.49	2.79	2.44	1.76
Nov	1.06	3.74	2.97	2.54	3.46	1.37	1.85	1.90	2.28	2.29	5.46	4.46
Dec.	3.87	1.19	3.53	2.06	1.98	1.41	.35	4.14	1.91	2.62	1.79	2.33
Yr.	12.77	20.92	19.31	14.85	16.51	16.34	8.44	21.99	17.51	13.77	19.09	19.08
Max	3.87	3.74	4.52	5.31	3.46	2.84	1.92	6.60	3.49	3.12	5.46	4.46
Min	.03	.03	.02	.00	.02	.23	.00	.43	.19	.03	.08	.06

Percolation through grass-covered SAND, 5 ft. 2 in. deep.

	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895
Jan.	1.18	1.22	3.23	5.51	.52	1.63	1.29	1.37	1.28	.93	1.89	3.65
Feb	2.35	4.20	2.12	.72	1.58	2.81	1.08	1.55	1.34	3.03	2.14	.55
Mar	1.86	1.61	.94	.64	2.92	1.59	2.11	2.26	1.30	1.98	3.04	.69
Apr	.63	.79	1.94	1.10	2.25	1.17	.60	.53	.60	.26	.31	.99
May	...	1.76	1.73	.25	.69	1.72	.21	.70	.21	.12	.13	.49
J'ne	.17	.80	.82	.62	.18	.68	.27	.89	.15	.07	.80	.25
J'ly	.35	.47	.41	.27	.34	1.47	1.57	.29	.42	.05	.46	1.92
Aug	.0825	2.14	.73	.33	1.24	1.10	.04	.94	2.66
Sep.	.43	2.0799	.49	.56	.10	1.12	1.29	.05	.56	.23
Oct.	.26	3.20	1.28	.26	.21	1.23	.04	6.31	3.16	3.09	2.13	.71
Nov	1.00	3.28	3.42	3.16	2.74	1.73	1.28	2.06	2.56	2.05	6.40	3.71
Dec	3.69	2.02	2.84	1.98	2.11	1.34	.62	3.73	2.09	2.79	1.70	2.33
Yr.	12.00	21.42	18.73	15.75	16.17	16.66	9.50	22.05	15.50	14.46	20.50	18.18
Max	3.69	4.20	3.42	5.51	2.92	2.81	2.11	6.31	3.16	3.09	6.40	3.71
Min	.00	.00	.00	.25	.18	.56	.04	.29	.15	.04	.13	.23

Percolation through grass-covered CHALK, 3 ft. 3 in. deep.

	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895
Jan.	2.20	2.40	4.35	4.14	.55	1.35	.71	2.49	1.24	1.68	2.37	2.85
Feb.	1.66	3.16	.89	.70	1.35	2.63	.84	.45	1.40	3.48	1.79	.04
Mar.	1.37	1.21	1.19	1.05	3.13	1.61	1.96	1.66	1.09	.76	2.33	1.42
Apr.	.11	.58	1.24	.38	1.63	1.22	.17	.37	.0128	.44
May	...	1.72	1.30	...	1.13	.07	.8303	.02
J'ne30	.04	.51	..	.02	..	.0595	...
J'ly59	.81	.6615
Aug.	1.25	.33	..	1.09	.0487	.38
Sep.1225	.97	.01	.67	...
Oct.90	1.55	..	6.30	3.34	...	2.44	.75
Nov.	...	3.37	1.42	...	3.44	1.23	1.25	1.98	2.04	...	5.12	4.08
Dec	1.49	1.22	3.48	.80	1.76	1.46	.20	4.08	1.75	2.20	1.92	2.13
Yr.	6.83	14.86	13.91	7.58	13.82	13.34	5.86	19.55	12.03	8.13	18.77	12.11
Max	2.20	3.37	4.35	4.14	3.44	2.63	1.96	6.30	3.34	3.48	5.12	4.08
Min	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Percolation through grass-covered CHALK, 5 ft. 2 in. deep.

	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895
Jan.	2.05	2.28	3.97	3.85	.51	1.36	.68	2.10	1.27	1.21	2.18	3.10
Feb.	1.76	3.25	.04	.75	1.18	2.14	.98	.62	1.37	3.16	1.78	.08
Mar.	1.66	1.29	1.12	.85	2.95	1.65	2.00	1.77	1.12	.89	2.48	1.39
Apr.	.04	.58	1.36	.42	1.82	1.18	.19	.45	.0728	.48
May	...	1.78	1.7506	1.82	.12	.7907	.10
J'ne31	.08	.64	..	.08	..	.1791	...
J'ly85	.11	.90
Aug.	1.33	.34	..	1.20	.4661	.31
Sep.2541	1.1066	...
Oct.80	1.65	..	6.40	3.32	...	2.59	.65
Nov.	...	3.43	1.99	...	3.57	1.45	1.46	1.97	2.03	...	5.59	3.83
Dec	1.64	1.19	3.57	.69	1.93	1.48	.31	4.12	1.60	1.65	1.97	2.17
Yr.	7.15	14.91	13.88	7.20	14.45	13.26	6.64	20.00	12.34	6.91	19.12	12.11
Max	2.05	3.43	3.97	3.85	3.57	2.14	2.00	6.40	3.32	3.16	5.59	3.83
Min	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Percolation through grass-covered EARTH, 3 ft. 3 in. deep.

	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895
Jan.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Jan.	1.95	2.38	4.55	4.52	.60	1.23	.65	2.29	1.28	1.42	2.30	2.90
Feb.	1.62	3.15	1.01	.87	1.65	3.06	.86	1.69	1.31	2.83	1.67	.13
Mar.	1.66	1.28	1.19	.92	3.28	1.56	1.88	1.63	1.01	.88	2.32	1.23
Apr.	.01	.51	1.24	.40	1.60	.99	.11	.45	.1401	.45
May	...	1.52	1.5806	1.60	.10	.7114
J'ne36	.11	.20141907	...
J'ly46	.30	.6319
Aug.	1.15	.22	.02	1.12	.0627	1.25
Sep.21	.0432	.8159	...
Oct.	...	2.58	.21	1.33	...	5.95	3.27	...	2.46	.22
Nov.	...	4.09	2.83	2.24	3.41	1.42	.92	1.91	1.99	2.03	5.38	4.33
Dec.	2.73	1.25	3.69	1.89	2.09	1.40	.25	4.04	1.76	2.54	1.69	1.91
Yr.	7.97	17.12	16.41	11.04	14.51	13.29	5.42	19.30	11.63	9.70	16.76	12.75
Max	2.73	4.09	4.55	4.52	3.41	3.06	1.88	5.95	3.27	2.83	5.38	4.33
Min	'00	'00	'00	'00	'00	'04	'00	'00	'00	'00	'00	'00

Percolation through grass-covered EARTH, 5 ft. 2 in. deep.

	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895
Jan.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
Jan.	1.76	2.22	4.37	4.82	.56	1.29	.83	2.08	1.37	1.17	2.14	3.00
Feb.	1.74	3.28	1.17	.67	1.51	2.71	.87	.87	1.33	2.94	1.85	.29
Mar.	1.79	1.39	1.07	.84	3.28	1.57	1.89	1.84	1.10	1.16	2.55	1.11
Apr.	.15	.63	1.44	.65	1.72	.90	.26	.52	.34	.09	.16	.77
May	.06	1.36	1.55	.01	.29	1.57	.17	.48	.07	.01	.09	.44
J'ne	.02	.47	.34	.29	.05	.37	.06	.41	.0103	.06
J'ly10	.07	.06	.11	.01	.29	.10	.0102	.04
Aug.01	1.23	.17	.09	.5101	1.62
Sep.44	.165309
Oct.	...	2.6906	1.36	...	6.02	3.04	...	1.79	.53
Nov.	...	3.60	2.72	1.36	3.31	1.39	.82	1.90	1.94	1.26	5.45	4.28
Dec.	2.56	1.28	3.54	2.03	1.72	1.40	.38	4.03	1.64	2.54	1.75	2.19
Yr.	8.08	17.03	16.27	10.73	14.28	12.90	5.66	19.29	10.85	9.17	15.84	14.42
Max	2.56	3.60	4.37	4.82	3.31	2.71	1.89	6.02	3.04	2.94	5.45	4.28
Min	'00	'00	'00	'00	'05	'01	'00	'10	'00	'00	'00	'04

Monthly Means for the 12 years 1884-95.

RAIN.	PERCOLATION THROUGH						Loss.	
	SAND.			CHALK.		EARTH.	EARTH.	
	3ft. 3in.	5ft. 2in.	3ft. 3in.	5ft. 2in.	3ft. 3in.	5ft. 2in.	3ft. 2in.	5ft. 2in.
January	in. 2·15	in. 2·25	in. 1·97	in. 2·19	in. 2·05	in. 2·17	in. 2·13	in. .10
February	1·44	1·70	1·96	1·53	1·43	1·65	1·60	+.26
March	1·79	1·61	1·75	1·57	1·60	1·57	1·63	-.04
April	1·56	.66	.93	.54	.57	.49	.64	-.90
May	2·16	.66	.67	.43	.54	.48	.51	-.150
June	1·60	.38	.47	.16	.18	.09	.18	-.122
July	2·74	.86	.67	.18	.16	.13	.07	-.188
August	2·52	.74	.79	.33	.35	.34	.30	-.178
September	1·84	.70	.66	.17	.20	.16	.10	-.114
October	3·26	2·10	1·82	1·27	1·28	1·34	1·29	-.116
November	2·99	2·78	2·78	1·99	2·11	2·55	2·34	-.21
December	2·15	2·27	2·27	1·87	1·86	2·10	2·09	+.12
YEAR	26·20	16·71	16·74	12·23	12·33	13·07	12·88	-.946

EXPERIMENTS ON EVAPORATION AT SOUTHAMPTON WATER WORKS, AND AT CAMDEN SQUARE.

THERE is only one thing which calls for special notice respecting the returns on the following pages, that—whereas the Camden Square record has gone on almost precisely upon the old lines, and the result is merely to bring the average up again to about what it was before 1894 ; and the Southampton record also holds much its usual relation to Camden Square—in November, 1895, when, for some reason which neither Mr. Matthews nor we can definitely *prove*, the tank frequently showed an excess. Mr. Matthews noticed it when the returns were sent to him, at the end of the month, and questioned the Superintendent (who took the readings) closely about it, but with no result. As the excesses were almost wholly on days upon which there was rain, we are sure that for some reason, the rain gauge and the tank did not collect corresponding quantities of rain,—the month was very wet and squally, and apparently the large surface of the tank collected more relatively than the rain gauge. As there are three rain gauges at the works, and their totals bear about the usual proportion one to another (and two of them are monthly gauges) it does not seem probable that any error was made in reading the rain gauge ; and as the evaporation records are verified by special checking at the end of the month any error in them would have been detected. We believe that in that month the tank collected half-an-inch more rain than the rain gauge ; why it did so in that month only, we are not sure, though we believe it to have been due to the joint action of wind and rain—and we cannot tell whether the tank or the rain gauge was nearest to the truth.

We add abstracts of the results at each station down to the end of 1895.

ABSTRACT OF EVAPORATION RESULTS.

Camden Square, 1885—95.

	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
1885.	.20	.38	.86	1.71	1.98	2.77	3.29	2.25	1.13	.77	.17	.11	15.62
1886.	.23	.13	.53	1.59	1.78	2.93	3.12	1.86	1.46	.63	.27	.12	14.65
1887. + .07	.29	.76	1.72	1.79	3.68	3.76	2.54	1.25	.78	.21	.07	.16	16.78
1888.	.07	.37	.48	1.16	2.71	2.24	1.44	1.90	1.17	.60	.43	.03	12.60
1889.	.03	.18	.62	1.07	1.76	2.97	2.34	1.96	1.52	.42	.29	+ .13	13.03
1890.	.08	.19	.50	1.44	2.63	2.14	2.33	2.02	1.27	.79	.31	.04	13.74
1891.	.03	.16	.73	1.35	1.66	2.83	2.34	1.67	1.00	.62	.20	.22	12.81
1892.	.05	.09	.60	1.88	2.65	3.05	2.84	2.20	1.01	.36	.02	.20	14.95
1893. + .03	.01	.92	2.33	3.06	3.62	3.12	2.85	1.48	.70	.11	.01	.18	18.18
1894. + .04	.28	.83	1.17	2.10	2.48	2.49	1.91	.97	.37	.20	.11	.12	12.87
1895.	.14	.64	.36	1.26	3.06	3.31	3.07	2.12	1.27	.54	.19	.07	16.03
Mean	.06	.24	.65	1.52	2.29	2.91	2.74	2.12	1.23	.60	.22	.08	14.66

Otterbourne, 1892—95.

1892. (.10)	.53	1.20	2.94	3.47	3.25	3.39	2.90	1.59	.87	.22	.08	.08	20.54
1893. + .08	.57	1.56	3.21	3.70	4.03	3.64	3.33	2.13	1.03	.22	.02	.02	23.36
1894. + .17	.58	1.52	1.92	3.03	3.24	2.92	2.67	1.69	.70	.44	.09	.09	18.63
1895.	.34	.11	1.00	1.77	3.73	4.09	2.75	2.92	2.28	.47	+ .28	.13	19.31
Mean	.05	.45	1.32	2.46	3.48	3.65	3.18	2.95	1.92	.77	.15	.08	20.46

**DAILY EVAPORATION AT OTTERBOURNE WATERWORKS
PUMPING STATION.**
(Near SHAWFORD, HANTS.)

Lat., $51^{\circ} 0' 28''$ N.; Long., $1^{\circ} 19' 55''$ W.; Tank, 6' 0" square, 2' 0" deep;
Edge, 3" above ground; Ground level, 111 $\frac{1}{2}$ ft. above Ordnance datum.

1895.

1896.

Date.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.	June.
	in.	in.	in.									
1	.02	.07	.07	.02	.02	.06	+ .07	{ .05	+ .02	.06	.08	.15
2	.08	.13	.04	.02	.01	.02	.03	+ .06	.03	.13	.12	
3	.11	+ .01	.08	.07	+ .04	.01	.02	{ .06	.05	.11	.13	
4	.05	.10	.13	.04	+ .09	.00	.02	+ .01	.05	.04	.11	.09
5	.09	.10	.13	+ .08	+ .05	.03	.02	.02	.02	.03	.10	.18
6	.09	.06	.04	.06	+ .04	.05	.01	.01	.02	.07	.09	.05
7	.13	.07	.12	.04	+ .10	{ .03	.02	.00	+ .07	.06	.16	.15
8	.18	.08	.07	+ .12	+ .10	{ .03	{ .03	+ .01	.08	.14	.14	
9	.16	.11	.08	.03	.02	+ .02	{ .02	.02	.02	.07	.18	.03
10	.14	.07	.08	.07	+ .03	.01	{ .04	.00	.06	.04	.22	.05
11	.18	.10	.09	.02	.04	+ .08	{ .00	.00	.01	.12	.15	.06
12	.17	.06	.08	.04	.03	.05	{ .01	.04	.15	.14	.14	
13	.19	.11	.09	.03	.00	.04	{ .04	.01	.04	+ .02	.12	.15
14	.19	.17	.06	.03	.04	.05	+ .02	.02	+ .01	.05	.13	.14
15	.13	.09	.04	+ .03	+ .06	+ .04	.02	.02	.00	.07	.11	.10
16	.09	.10	.07	.07	+ .06	+ .02	.01	.02	.10	.03	.09	.22
17	.07	.11	.07	.05	.04	.04	{ .01	{ .04	+ .07	.07	.07	.05
18	.02	.15	.06	.04	.05	.00	{ .02	{ .04	+ .03	+ .01	.12	.17
19	.02	.10	.05	.05	.03	.03	{ .01	+ .01	.06	.07	.18	.11
20	.06	.08	.09	.03	+ .09	{ .01	{ .01	.00	+ .06	.10	.20	.15
21	.04	.05	.09	+ .02	.00	{ .01	{ .00	.01	.03	.09	.06	.16
22	.12	.07	.09	+ .01	.05	{ .05	{ .01	{ .01	.02	.11	.04	.19
23	.02	.09	.05	{ .05	{ .05	{ .05	{ .00	{ .06	.06	.06	.12	.07
24	.01	.11	.07	{ .07	{ .00	{ .04	{ .21	{ .00	.05	.16	.15	
25	.04	.21	.06	+ .01	.06	+ .08	+ .04	{ .09	.06	.11	.03	
26	.00	.05	.05	+ .01	{ .05	.05	.00	{ .00	.07	.09	.08	
27	.01	.07	.08	{ .09	{ .03	{ .05	{ .15	{ .06	.17	.18		
28	.02	.07	.10	{ .06	+ .09	{ .01	{ .00	{ .03	.11	.12	.16	
29	.14	.09	.10	{ .07	+ .01	{ .01	{ .01	{ .16	.15	.16	.16	
30	.07	.14	.05	{ .03	.04	+ .01	{ .02	{ .07	.12	.13	.20	
31	.11	.120002	{ .05	{ .11		
Total	2.75	2.92	2.28	.47	+ .28	.13	.10	.42	.81	2.04	3.90	3.76

NOTE.—Water level kept at about ground level. Observations at 9 a.m.
Totals for each month checked from first and last reading. Rain-
fall and water added or subtracted during the month.

When days are bracketed the tank was frozen, or contained floating
ice, in which case no reading is taken. Sign + indicates condensation.

WM. MATTHEWS, C.E.,
Southampton.

DAILY EVAPORATION AT CAMDEN SQUARE, LONDON.

Lat., $51^{\circ} 32' 40''$ N.; Lon., $0^{\circ} 8' 0''$ W.; Tank, 6' 0" square, 2' 0" deep;
Edge, 3" above ground; Ground level, $111\frac{1}{2}$ ft. above Ordnance datum.

1895.

1896.

Date.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.	June.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
1	.11	.05	.04	.03	.02	+.01	.00	.02	.01	.04	.09	.09
2	.12	.06	.08	.10	.01	.00	.00	.01	.02	.03	.07	.10
3	.10	.02	.03	.04	.00	.01	.01	+.01	.01	.02	.08	.03
4	.08	.09	.08	.01	+.01	.02	.01	.00	.01	+.01	.08	.10
5	.07	.05	.07	.00	+.01	.02	.03	+.01	.02	.02	.10	.13
6	.12	.06	.02	.01	.00	.05	.01	.00	.03	.03	.07	.12
7	.09	.08	.03	.01	+.03	.05	.01	.01	+.01	.06	.10	.06
8	.17	.04	.06	+.01	+.01	.03	.01	.01	.01	.05	.10	.13
9	.14	.08	.04	.03	.01	+.02	.01	.01	.01	.06	.15	.05
10	.19	.09	.05	.03	.00	+.01	.01	.00	.01	.05	.14	.00
11	.14	.10	.09	.04	.03	.00	.00	.00	.01	.07	.13	.10
12	.19	.06	.07	.03	.00	.01	.00	.03	.05	.09	.13	.11
13	.20	.02	.06	.03	.02	.02	+.01	.02	.03	.07	.11	.13
14	.19	.07	.02	.01	.00	.00	+.01	.02	.02	.01	.10	.12
15	.11	.04	.02	.01	+.01	+.02	.02	.03	+.01	.04	.11	.14
16	.06	.02	.02	.03	.05	.00	.00	.01	.06	.00	.10	.15
17	.09	.09	.04	.02	.00	+.01	.01	.02	+.01	.07	.05	.06
18	.04	.08	.05	.02	.02	.01	.00	.01	.02	.02	.05	.16
19	.10	.07	.03	.01	+.01	.01	.03	+.01	.03	.07	.16	.16
20	.01	.08	.04	.01	.00	.02	+.01	+.01	.00	.07	.09	.15
21	.05	.05	.06	.02	.00	.00	.01	.01	.01	.07	.08	.15
22	.08	.08	.03	.00	.01	.00	.00	.03	.01	.07	.00	.11
23	.12	.12	.01	.03	.03	.01	.00	.00	.03	.06	.07	.09
24	.04	.12	.00	.01	.04	+.01	.01	.03	.01	.03	.13	.05
25	.04	.06	.01	.02	.01	.01	+.01	.00	.02	.03	.08	.11
26	.06	.03	.03	.00	.02	+.01	+.01	.00	.09	.08	.10	.12
27	.09	.06	.04	.01	+.02	.02	.00	+.01	.03	.06	.14	.07
28	.00	.07	.04	.00	.00	+.01	.02	.00	.05	.14	.13	.17
29	.09	.09	.07	.01	.00	+.01	.00	.02	.00	.08	.14	.12
30	.06	.11	.04	.00	.02	+.02	.0004	.09	.07	.13
31	.12	.08	..	+.0201	.010311	...
Total	3.07	2.12	1.27	.54	.19	.07	.16	.24	.64	1.57	3.06	3.21

WHAT PERCENTAGE OF THE AVERAGE YEARLY RAINFALL MAY BE EXPECTED ON THE WETTEST DAY OF EACH YEAR?

WE raised this question two years ago, and showed that at Camden Square the greatest fall in 36 years had been 3·28 in., which was 12·8 per cent. of the average ; and that the yearly mean M* was 1·37 in., or 5·3 per cent. We invited those who had long unbroken records to send us a list of their M, in order that, by tabulating and discussing them, we might ascertain whether similar proportions prevailed in different parts of the country, or, if not what modifications existed.

Owing perhaps to our not issuing prepared blank forms, we have received *only two* series.

In order to draw further attention to the subject, we reproduce part of the Camden Square and of the Seathwaite records, and so get four records each for 21 years. We have given the percentages only to the nearest unit, as the following is merely a type. We must have many more records, and preferably longer ones, before dealing with the subject seriously ; but the following table shows that there is more to be learned.

Roughly, the particulars respecting the stations are :—

	STATION.			
	Camden Sq. London.	Acrise, Kent.	Pedmore, Worcester.	Seathwaite, Cumberland.
Mean rainfall	25 in. ...	37 in. ...	29 in. ...	135 in.
No. of times M = 2 per cent....	0 ...	0 ...	1 ...	4 ...
" " 3 " "	1 ...	5 ...	6 ...	11 ...
" " 4 " "	3 ...	11 ...	7 ...	4 ...
" " 5 " "	6 ...	2 ...	3 ...	2 ...
" " 6 " "	7 ...	2 ...	2 ...	0 ...
" " 7 " "	3 ...	1 ...	1 ...	0 ...
" " 8 " "	0 ...	0 ...	1 ...	0 ...
" " 13 " "	1 ...	0 ...	0 ...	0 ...
Average percentage	—	—	—	—
	6	4	4	3
No. of times M under 1 in.	1 ...	0 ...	7 ...	0 ...
" " 1 to 1·5 in.	15 ...	11 ...	9 ...	0 ...
" " 1·5 " 2·0 "	4 ...	7 ...	3 ...	0 ...
" " 2·0 " 2·5 "	0 ...	2 ...	2 ...	0 ...
" " 2·5 and above... .	1 ...	1 ...	0 ...	21 ...
Average amount of M	1·47 in.	1·56 in.	1·25 in.	4·59 in.

* M denotes the Maximum fall on any rainfall day in a civil year.

From this it seems clear that though the M are greater in amount at wet than at dry stations, they are not so great proportionally to the increase in total yearly rainfall. For instance, a 13 per cent. M (like Camden Square) would require a fall in one day at Seathwaite of 17.55 in., or twice as much as has ever been recorded there; and to equal the 8 per cent. at Pedmore, Seathwaite must have nearly 11 inches in one day. Again, the Seathwaite rainfall is about $5\frac{1}{2}$ times that of London; the mean M at London being 1.47 in. (1.47×5.5), Seathwaite to keep the same proportion should have a mean M of 8.09 in., whereas it is a little more than half thereof—4.59 in. only.

YEAR.	Camden Square London.		Acrise, Kent.		Pedmore, Worcester.		Seathwaite, Cumberland.	
	M		M		M		M	
1875	1.29	... 5	2.66	... 7	1.33	... 5	3.19	... 2
1876	1.61	... 6	1.30	... 4	.84	... 3	3.36	... 2
1877	.88	... 3	1.64	... 4	2.43	... 8	4.78	... 3
1878	3.28	... 13	1.37	... 4	1.09	... 4	3.32	... 2
1879	1.49	... 6	1.60	... 4	1.69	... 6	4.02	... 3
1880	1.33	... 5	2.16	... 6	1.24	... 4	4.75	... 3
1881	1.08	... 4	2.36	... 6	1.24	... 4	4.99	... 4
1882	1.08	... 4	1.57	... 4	1.50	... 5	4.51	... 3
1883	1.43	... 6	1.10	... 3	1.69	... 6	3.95	... 3
1884	1.47	... 6	1.37	... 4	1.40	... 5	6.78	... 5
1885	1.48	... 6	1.33	... 4	.95	... 3	4.62	... 3
1886	1.82	... 7	1.21	... 3	2.01	... 7	4.00	... 3
1887	1.44	... 6	1.23	... 3	.94	... 3	3.20	... 2
1888	1.39	... 5	1.25	... 3	1.26	... 4	4.57	... 3
1889	1.08	... 4	1.04	... 3	1.27	... 4	3.86	... 3
1890	1.67	... 7	1.53	... 4	.68	... 2	6.79	... 5
1891	1.44	... 6	1.63	... 4	.78	... 3	6.14	... 4
1892	1.71	... 7	1.69	... 5	.84	... 3	5.80	... 4
1893	1.16	... 5	1.40	... 4	1.06	... 4	4.96	... 4
1894	1.35	... 5	1.96	... 5	1.13	... 4	4.36	... 3
1895	1.24	... 5	1.40	... 4	.92	... 3	4.46	... 3

COMPARISON OF GERMAN & ENGLISH RAIN GAUGES,
AND OF
MR. SIDEBOTTOM'S SNOW GAUGE
AT CAMDEN SQUARE, N.W.

DETAILS respecting the above instruments will be found in *British Rainfall*, 1892 and 1893, and no change whatever has been made during 1894 or 1895. The table also is identical in form with previous years, except that the totals since the observations began have been added at the foot.

1895	Ordinary English 8 in. gauge, reduced by 4 per cent.	DR. HELLMANN'S GAUGES.				SIDEBOTTOM'S SNOW GAUGE.		
		No. 1, with x	No. 2.	Difference from reduced English.		Ordinary 8 in. gauge reduced by 2 per cent.	Snow & Rain Gauge	
				No. 1, with x	No. 2.		Total.	Diff.
		in.	in.	in.	in.	in.	in.	in.
Jan.	1.88	1.94	1.98	+ .06	+ .10	1.92	1.91	— .01
Feb.	.11	.09	.10	— .02	— .01	.12	.12	.00
Mar.	1.36	1.26	1.33	— .10	— .03	1.39	1.26	— .13
April	1.29	1.19	1.25	— .10	— .04	1.31	1.25	— .06
May	.33	.23	.24	— .10	— .09	.33	.29	— .04
June	.29	.16	.17	— .13	— .12	.30	.27	— .03
July	3.28	3.14	3.22	— .14	— .06	3.35	3.30	— .05
Aug.	2.97	2.89	2.99	— .08	+ .02	3.03	2.94	— .09
Sep.	1.23	1.32	1.28	+ .09	+ .05	1.26	1.25	— .01
Oct.	2.73	2.78	2.85	+ .05	+ .12	2.78	2.72	— .06
Nov.	3.04	3.00	3.08	— .04	+ .04	3.11	2.97	— .14
Dec.	2.10	2.05	2.13	— .05	+ .03	2.14	2.03	— .11
1895	20.61	20.05	20.62	— .56	+ .01	21.04	20.31	— .73
1894	26.84	26.01	27.11	— .83	+ .27	27.44	26.48	— .96
1893	18.99	18.22	18.82	— .77	— .17	19.42	18.58	— .84
1892	21.71	21.30	21.81	— .41	+ .10			

RAINFALL AT THE ROYAL OBSERVATORY, GREENWICH.

Lat., $51^{\circ} 28' 38''$ N. Long., $0^{\circ} 0' 0''$ Communicated by W. H. M. CHRISTIE, Esq., M.A., F.R.S.,
Astronomer Royal.

1895	No. of days on which rain fell.	MONTHLY AMOUNT OF RAIN COLLECTED IN EACH GAUGE.							
		Osler's Anemometer		On roof of Octagon Room.	On roof of Magnetic House.	On roof of Photo-graphic Thermometer Shed.	Gauges partly sunk in the ground.		
		Self-registering Gauge.	Second Gauge.						
Height above Ground.	...	50ft. 8in.	50ft. 8in.	38ft. 4in.	21ft. 6in.	10ft. 0in.	5in.	5in.	5in.
Height above Mean Sea Level.	...	205ft.	205ft.	193ft.	176ft.	165ft.	155ft.	155ft.	155ft.
January	19	in. 0·773	in. 0·777	in. 1·131	in. 1·165	in. 1·445	in. 1·617	in. 1·636	in. 1·593
February	4	0·109	0·101	0·157	0·220	0·228	0·222	0·236	0·254
March	19	0·736	0·717	1·084	1·192	1·367	1·428	1·402	1·472
April	12	0·920	0·859	1·084	1·130	1·226	1·251	1·197	1·253
May	6	0·269	0·244	0·356	0·430	0·455	0·454	0·452	0·461
June	8	0·108	0·103	0·163	0·215	0·220	0·207	0·208	0·218
July	16	2·601	2·594	3·007	3·240	3·370	3·388	3·347	3·391
August	15	1·701	1·580	1·841	2·021	2·125	2·142	2·137	2·162
September	5	0·706	0·666	0·748	0·880	0·969	0·930	0·929	0·962
October	15	1·794	1·616	2·225	2·574	2·687	2·691	2·705	2·750
November	20	1·941	1·740	2·179	2·449	2·764	2·889	2·860	2·934
December	19	1·763	1·715	1·963	2·196	2·364	2·506	2·453	2·440
Sums.....	158	13·421	12·712	15·938	17·712	19·220	19·725	19·562	19·890
No. of Gauge	1	2	3	4	5	6	7	8

The monthly record terminates at midnight on the last day of the month.

A rainy day is considered to be one on which 0·005 in., or more, is collected in gauge No. 6. Of the ground gauges 6, 7, and 8, No. 6 is taken as standard, No. 7 is the old monthly gauge, and No. 8 is a gauge added in 1881.

(On 1894, November 6, gauge No. 8 was shifted 61 feet eastwards.)

W. H. M. CHRISTIE.

1896, February 20.

THE STAFF OF OBSERVERS.

IT is of course very gratifying to find that far from there being any sign of falling off, the number of perfect returns for 1895 exceeds that of any previous year.

The actual figures are as under :—

Number of perfect rainfall records published in the volumes of British Rainfall for the undermentioned years.

Years.	England.	Wales.	Scotland.	Ireland.	Gross Total.	Increase over previous year.
1860...	163	...	5	...	168	...
1861...	334	...	9	...	472	...
1871...	1038	...	88	...	1504	...
1881..	1548	...	131	...	2145	...
1891...	2091	...	168	...	2799	...
1892...	2113	...	178	...	2850	...
1893...	2205	...	193	...	2987	...
1894...	2269	...	184	...	3043	...
1895...	2304	...	196	...	3084	...

Difference from 1894.—

Increase	35	...	12	...	3	...	—	...	50	...	41
Decrease	—	...	—	...	—	...	9	...	9	...	9

Very satisfactory as this is in some respects, we wish to see a radical change in it. We have dwelt repeatedly upon the small number of stations in Wales, Scotland and Ireland, relatively, to the areas of those countries, and Scotland would look much worse if we adopted a course which we have long contemplated, viz. : ceased to quote the records from the gauges maintained by the Board of Northern Lights. Some of them, in some years, are doubtless correct, and, if we rejected them all, we should have for Caithness,

Orkney, and Shetland, only six records instead of nineteen. On the other hand, we strongly object to inserting returns upon which, as we have often said, suspicion rests, and we equally object to quoting some and rejecting others, merely upon the grounds that they "seem wrong." If we could obtain private observers in Scotland to even half the extent that we have them in England, we should not hesitate; but with 2,304 private observers for England we ought to have 1,350 Scotch,—there are, even including the Lighthouses, only 398, not much over one quarter of its proper number.

Ireland, also, is below its proportionate number. It does not need stations as close as its more hilly and more densely populated sister Island, but its observers decreased by five in 1894, and by eight in 1895, so there, also, some steps must be taken to improve our staff.

In these days, when we are all inundated with circulars, it is, perhaps, unreasonable to complain that requests for observations seem to be frequently consigned to the waste paper basket, but the following pages show that for 57 absent records, the reason is "no reply." As every such entry represents the result of three applications, it shows that much labour, some money, and nearly 200 circulars have produced "no reply." If any neighbours can give us information respecting any of the missing returns, it will be very useful. Probably some of the observers are travelling, they cannot be "dead," or "gone away," or the Post Office should have returned the applications. But if they could all have been induced to report, what a welcome addition it would have been to our staff.

MIDDLESEX (72).

ABSENT RECORDS.	INSERTIONS.
Isleworth (Warkworth House)— <i>No reply.</i>	Ealing (Castle Bar Road).
London (Savile Row, W.)— <i>Observer ill.</i>	Kensington Museum.
„ (Hamilton Ter , N. W.) <i>No observtins.</i>	London (Randolph Gardens, W.)
„ (West Hampstead, N. W.)— <i>Obsr. dead.</i>	Willesden Green (Strode Road).
Highgate (Northwood Road)— <i>Observer moved.</i>	Crouch End (Aubrey Road).
East Finchley (Elmhurst)— <i>Observer dead.</i>	„ „ (Fairfield Road).grdn. „ „ „ „ „ tennis ct.

SURREY (122).

Camberley (Heathcote)—*Observer dead.*
 Epsom College—*Record imperfect.*
 Weybridge Heath (Netherfield)—*Obsr. dead.*
 Virginia Water (Portnall Park)—*No reply.*

Chiddingfold. M.
 Witley (King Edward's School).
 Cranleigh (Winterfold).
 Bramley (Cloverlea).
 Reigate (Aldersyde).
 Walton Heath (The Hermitage).
 Merstham (Rockshaw).
 Horsley (Woodcote Lodge).
 Pirbright Camp.
 Chaldon Rectory.
 Chipstead (Shabden Park).
 Kenley (Hazelea).
 Woking (Lindisaye). M.
 Camberley (Brackendale).
 Windlesham (Woodside).
 West Molesey.
 South Norwood (Apsley Road).
 Streatham (Woodfield Avenue).
 Putney Vale Cemetery.
 Clapham Park (New Park Road).

KENT (112).

Wittersham.—*No reply.*
 Dover (Castle Knowle W.W.)—*Rec. imperfect.*
 Maidstone (The Mote)—*No reply.*
 West Malling (Hardres)—*Observer abroad.*
 Canterbury (Sewage Works)—*No reply.*
 Seven Oaks (River Hill)—*Record imperfect.*
 „ „ (Chevening Gardens)—*Rec. imp.*
 Chislehurst (Abbey Lodge)—*Record ceased.*
 Bromley (Ivy Dene)—*Record ceased.*
 „ „ (Widmore Road)—*Observer dead.*
 Gravesend (Park Place)—*Record ceased.*

Folkestone (Cherry Gardens).
 Dover (Dover College).
 Acerise Place.
 Ashurst (Stone Ness).
 Chiddingstone Rectory.
 Wye (Bilting).
 Maidstone (Bearsted Green).
 Chislehurst (The Oaks).

WEST SUSSEX (33).

Chichester (North Pallant)—*No observations.*
 „ (Selhurst Park)—*No reply.*
 Horsham (Brighton Road)—*No reply.*

Petworth Park.
 Ruper Rectory.

EAST SUSSEX (56).

Conyborough—*No reply.*
 Ditchling—*Record ceased.*

Iford (Swanborough).
 Horsted Place.
 Heathfield (Spring Lodge).
 Playden (Springfield).
 Cross in Hand (Heatherden).
 Buxted Park.
 Sheffield Park.
 Crowborough.
 Forest Row (Harbury).

HAMPSHIRE (81).

Niton (St. Catherine's House)— <i>Observer dead.</i>	Totland Bay.
Ryde (St. John's Park)— <i>Record imperfect.</i>	Parkhurst (Brookfield).
Bournemouth (Lansdowne Road).— <i>Rec. ceased.</i>	Botley (Beachcroft, Curdridge).
Christchurch School— <i>No reply.</i>	Petersfield (Steep Vicarage).
Lymington (Pennington)— <i>Record imperfect.</i>	Alresford (Itchen Stoke Rectory).
Alresford House— <i>No reply.</i>	Strathfieldsaye Gardens.
Alton (The Wakes, Selborne)— <i>Observer moved.</i>	
Winchester (The Hermitage, Wyke)— <i>No reply.</i>	
Heckfield Place— <i>No reply.</i>	

BERKS (41).

Yattendon Court— <i>No reply.</i>	Arborfield Rectory.
	Winkfield (Elm Lodge).
	Old Windsor (Beaumont College).
	Twyford (Haines Hill).
	Temple House [Marlow].
	Abingdon.

HERTS (47).

Watford (Oaklands)— <i>Record imperfect.</i>	King's Langley (Laurel Bank).
(Kytes)— <i>Observer dead.</i>	Tring (New Mill).
Cheshunt College— <i>Observer moved.</i>	Sawbridgeworth (Cowicks).
Hoddesdon (Fielde's Weir)— <i>No reply.</i>	

BUCKS (24).

Marlow.
Bulbourne [Tring].
Waddesdon Manor.

OXFORD (36).

Garsington— <i>Record unreliable.</i>	Thame (Tythrop House).
Bicester (Stratton Audley Pk.)— <i>Record imp.</i>	Witney (Lynton House).
Banbury (Bloxham)— <i>No reply.</i>	

NORTHAMPTON (52).

Northampton (Hazlewood Road)— <i>Return imp.</i>	Blisworth.
Rushden— <i>Record imperfect.</i>	Northampton (Gold Street).
Apethorpe Lodge— <i>Return imperfect.</i>	„ (Adnitt Road).
	Hazelbeech.
	East Carlton.
	Stamford (Collyweston).
	„ („).
	Barnack (Walcot Park).

HUNTS (8).

| Yaxley (Norman Cross).

BEDFORD (17).

Ampthill (Maulden)—*Gauge burst by frost.* |
 Biggleswade (Brooke House)—*Observer moved.* |

CAMBRIDGE (32).

Wisbech (Tydd St. Giles)— <i>No reply.</i>	Carlton Hall.
	Cambridge (Fulbourne Asylum).
	Stanground Sluice.

ESSEX (57).

Shoeburyness—5 in. <i>gauge moved.</i>	Grays.
Woodford (Brancepeth Ho.)— <i>Record ceased.</i>	Orsett.
Layer Breton Rectory— <i>Observer moved.</i>	Walthamstow (Ferry Lane).
Thorpe le Soken (Landermere)— <i>No reply.</i>	Havering Grange.
	Chingford Mill.
	Maldon.
	Writtle.
	Hatfield Peverel (Cardfields).
	Witham.
	Dunmow (Saling Grove).
	Manningtree Vicarage.

SUFFOLK (41).

Bury St. Edmunds (Orchard St.)— <i>Obsvr. dead.</i>	Hollesley (Shingle Street).
Belton [Yarmouth]— <i>Record ceased.</i>	Ipswich (Burwood).
	Ixworth (Barningham).
	Beccles (Sotterley Hall).

NORFOLK (62).

Yarmouth (Market Place). o. g.— <i>Rec. ceased.</i>	Ellingham [Beccles].
Honingham— <i>Return imperfect.</i>	Emneth.
South Walsham— <i>Not received.</i>	Holkham. 2nd gauge.
Terrington— <i>Observer dead.</i>	
Felthorpe— <i>Record imperfect.</i>	
Holt (Letheringsett Hall)— <i>No reply.</i>	
Hunstanton Hall— <i>No reply.</i>	

WILTS (45).

Trowbridge (Lovemead)— <i>No reply.</i>	Salisbury (St. Nicholas).
Devizes (Southgate House)— <i>Record ceased.</i>	Highworth (Hannington Hall).
Alton Barnes Rectory— <i>No reply.</i>	
Burbage (Wolfhall)— <i>No reply.</i>	
Broad Hinton— <i>Observer moved.</i>	
Wootton Bassett— <i>No reply.</i>	
Malmesbury (The Priory)— <i>No reply.</i>	

DORSET (36).

Corfe Castle (Smedmore)— <i>Observer dead.</i>	Winterbourne St. Martin.
Swanage (The Bank)— <i>Observer moved.</i>	Bere Regis Vicarage.
Godmanstone Manor— <i>Observer moved.</i>	Blackdown House.
Blandford St. Mary— <i>Record ceased.</i>	Buckhorn Weston.

DEVON (94.)

Kingsbridge— <i>No reply.</i>	Ivybridge (Blackadon Asylum).
Paignton (The College)— <i>No reply.</i>	Paignton (Sarsden Lodge).
Tavistock (West Street)— <i>Record ceased.</i>	Sheepstor (Burrator).
Princetown— <i>Return imperfect.</i>	Dartmoor (Siward's Cross).
,, (North Hessary Tor) M— <i>Rec. imp.</i>	Kingskerswell (Fluder).
Exeter (Lyndhurst Road)— <i>Record ceased.</i>	Branscombe (Hazlewood).
Tiverton (Broomhill)— <i>No reply.</i>	
Witheridge (Bradford Cottage)— <i>Rec. ceased.</i>	
Tiverton (Cove House)— <i>No reply.</i>	
Backenford (Cruwyshaye)— <i>Observer dead.</i>	
South Molton (Rose Ash)— <i>Record ceased.</i>	

CORNWALL (40).

Land's End— <i>Return imperfect.</i>	Falmouth (Gellyngvase).
,, (Carclew).	
Taunton— <i>Return imperfect.</i>	Fowey (Menabilly).
,, (Norton Fitzwarren)— <i>Observer moved.</i>	Liskeard (Wadeland Terrace).
Langport (Huish Episcopi)— <i>No reply.</i>	Stratton (Trelana, Poughill) 2 nd g.

SOMERSET (66).

Wellington (Sunnyside)— <i>Observer moved.</i>	Glastonbury (Portway, Street).
Taunton— <i>Return imperfect.</i>	Bridgwater (Enmore Park).
,, (Norton Fitzwarren)— <i>Observer moved.</i>	Shepton Mallet (Charlton).
Langport (Huish Episcopi)— <i>No reply.</i>	Minehead.
Wells. 2 gauges— <i>No reply.</i>	Axbridge (Cross).
Brent Knoll— <i>No reply.</i>	Weston-super-Mare (Beaufort Rd.)
Bath (Ensleigh, Lansdowne)— <i>Observer abroad.</i>	Bath (Bathwick).
	Bristol (Coronation Road).
	Wraxall.

GLOUCESTER (81).

Dennel Hill [Chepstow]— <i>Record ceased.</i>	Bristol (Hampton Lodge).
Lydney— <i>Record ceased.</i>	Dursley (Farnley).
Northleach (Yanworth)— <i>Observer moved.</i>	Lechlade (Southrop).

Stonehouse.

HEREFORD (28).

Hereford (Hampton Bishop)— <i>No reply.</i>	Wyastone Leys [Monmouth].
“— <i>Observer dead.</i>	Malvern Hills (Upper Wych).
Stoke Bliss— <i>Record ceased.</i>	Brinsop Vicarage.

SHROPSHIRE (29).

Dowles [Bewdley]— <i>No reply.</i>	Bridgnorth (Coton Hall) <i>2nd gauge.</i>
Much Wenlock (Larden Hall)— <i>Observer moved.</i>	Market Drayton (Fernleigh).
Pontesbury (The Villa)— <i>Observer moved.</i>	
Oswestry (Hengoed)— <i>Observer dead.</i>	

STAFFORD (39).

Wombourne (The Bratch).
Walsall (Wednesbury Sewage Wks.)
Wolverhampton (Tettenhall).
Alstonfield Vicarage.

WORCESTER (34).

Evesham (The Drift)— <i>Observer dead.</i>	Leigh Lodge.
Worcester (Fort Royal)— <i>No reply.</i>	Tenbury (Rochford).

WARWICK (33).

Kineton (Fenny Compton)— <i>No observations.</i>	Rugby (Dunchurch Hall).
Snitterfield— <i>Observer moved.</i>	Witton Reservoir.
Coventry (Ryton on Dunsmore)— <i>Obsrvr. dead.</i>	Sutton Coldfield (Ladywood).
Birmingham (Sparkbrook)— <i>Observer moved.</i>	Atherstone.
Nuneaton (Caldecot Hall)— <i>No reply.</i>	

LEICESTER (23).

Swithland (Broombiggs Hill)— <i>Record ceased.</i>	Lutterworth (Walcote).
Loughborough (Nan Panton)— <i>No reply.</i>	Ratcliffe-on-Wreake Rectory.
Bottesford— <i>Observer dead.</i>	Belvoir Castle. <i>2nd gauge.</i>

RUTLAND (5).

Ketton (The Holmes)— <i>Observer moved.</i>	
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LINCOLN (64).

Stamford (Colly Weston Rd.)— <i>To Northamptn.</i>	Fulbeck.
Bourne (Wytham-on-the-Hill)— <i>Rec. unreliable.</i>	Carlton-le-Moorland.
„ (Edenham)— <i>Record imperfect.</i>	Horncastle (Louth Road).
Lincoln (Moorlands, Skellingthorpe)— <i>Not received.</i>	Wroot Engine.
	Horkstow.

NOTTS (36).

Nottingham (Woodthorpe Grange)— <i>Rec. ceased.</i>	Nottingham (Carisbrooke House).
Newark (Shelton Rectory)— <i>Record ceased.</i>	Gonalston Rectory.
Southwell (Oxton Hall)— <i>Record unreliable.</i>	Newark (Averham Rectory).
„ (Grants)— <i>Record ceased.</i>	

DERBY (43).

Brimington Hall— <i>Observer dead.</i>	Winshill [Burton].
Glossop (Spire Hollin)— <i>Observer moved.</i>	Chellaston.
	Duffield.
	Codnor (Cross Hill).
	Chesterfield (Linacre Res.) 2nd g.
	Glossop Hall.

CHESHIRE (69).

Siddington (Thornycroft Hall)— <i>Record imp.</i>	Nantwich (Rease Heath Hall).
Thurstaston (Dawpool)— <i>Return unreliable.</i>	Macclesfield.
Altringham (Norman's Place)— <i>Observer moved.</i>	Mottram.
Birkenhead (Oxton)— <i>No reply.</i>	
Hadfield (Millbrook) 2nd g.— <i>Record ceased.</i>	

LANCASHIRE (159).

Warrington (Fever Hospital)— <i>No reply.</i>	Gateacre (The Nook).
Liverpool (Hope Street)— <i>Record ceased.</i>	Warrington (The Cemetery).
Manchester (Lady Barn, Fallowfield)— <i>Obs. mord.</i>	Liverpool (St. John's Gardens) 2 gs.
St. Helens (Eccleston Hill)— <i>Record imperfect.</i>	Over Darwen (Hoddlesden).
Bolton (Heaton) <i>Old gauge</i> — <i>Record ceased.</i>	„ „ (Pickup Bank) No. 2.
Chorley (Whittle le Woods Vic.)— <i>Rec. ceased.</i>	Blackburn (Water Works Office).
Blackburn (Samlesbury)— <i>Return unreliable.</i>	Hawkshead (Esthwaite, Strickland Ease).
Overton Vicarage— <i>Record imperfect.</i>	
Hest Bank— <i>Record imperfect.</i>	
Colton— <i>Record imperfect.</i>	

YORKSHIRE—WEST RIDING (239).

Wath-upon-Dearne (Bierlow, Brampton)—No [<i>reply.</i>	Sheffield (Redmires Fairthorne Ldg.)
Doncaster (Burghwallis Rec.) 2 gs.— <i>Obs. dead.</i>	Wentworth Woodhouse.
Honley (Northgate House)— <i>Observer ill.</i>	Hoyland (King Street).
Wakefield (Alverthorpe Hall)— <i>Observer dead.</i>	Dunford Bridge (Up Windleden) M.
Goole (Swinfleet)— <i>Return unreliable.</i>	„ „ (Dearden Res.) M.
Bradford (Leeming Res.)— <i>Record imperfect.</i>	Barnsley (Beckett Square).
	Mytholmroyd (Ewood Hall).
	Hebden Bridge (Falling Royd) 2nd g. (Summerfield).
	Bradford (Bowling Dyeworks). (Stairs Top).
	Leeds (Knostrop).
	Adel (Lawns Wood).
	Bolton Abbey Estate Office.
	Burnsall.
	Austwick (Crow Nest).
	Nidderdale (East Gill Head)

YORKSHIRE—EAST RIDING (28).

Brough (Brantinghamthorpe)— <i>Observer dead.</i>	Cherry Burton.
Malton (Norton)— <i>Observer moved.</i>	Middleton-on-the-Wolds.

Driffield (Highfield).

YORKSHIRE—NORTH RIDING (36).

Masham (Aldburgh Hall)— <i>Record ceased.</i>	Malton.
Leyburn (Grove House)— <i>Observer dead.</i>	Terrington (Wigganthonpe).
Scarborough (South Cliff)— <i>No reply.</i>	Thirsk (Sowerby).
Hawes (Hardrow Vicarage)— <i>Record ceased.</i>	Boltby.
Robin Hood Bay (Fylingdales Vic.)— <i>Rec. imp.</i>	Cloughton (Burneston).
Saltburn— <i>Record ceased.</i>	

DURHAM (42).

Barnard Castle (Whorlton)— <i>Record ceased.</i>	Stockton (Norton).
Durham (Ushaw College)— <i>Record imperfect.</i>	West Hartlepool.
	Weardale W. W. (Tunstall).
	„ „ (Waskerley).
	„ „ (Smiddy Shaw).
	Shotley Bridge.
	Sunderland.

NORTHUMBERLAND (47).

Haydon Bridge (Beltingham)— <i>Obsrv. moved.</i>	Newcastle.
Morpeth (Bothalhaugh Gardens) M— <i>Gauge</i> [burst by frost.	Angerton Hall.
Alnwick (Glanton Pyke)— <i>Observer moved.</i>	
Ilderton (Lilburn Tower)— <i>Record unreliable.</i>	

CUMBERLAND (65).

Cleator Moor— <i>Observer moved.</i>	Melmerby.
Keswick (The Beeches)— <i>Observer dead.</i>	Carlisle (Stanwix).
Penrith (Culgaith Vic.)— <i>Observer dead.</i>	
Skelton Rectory— <i>No reply.</i>	
Alston (Love Lady Shield)— <i>No observations.</i>	
Carlisle (Burgh-by-Sands— <i>Record imperfect.</i>	

WESTMORELAND (30).

Kendal (Hill Top)— <i>No reply.</i>	
Patterdale (Greenside Mine)— <i>Observer dead.</i>	
Shap (Church View)— <i>No observations.</i>	
Appleby— <i>Observer dead.</i>	

WALES.

MONMOUTH (26).

Newport (Clytha Park)— <i>Record ceased.</i>	Newport (Friar Street Yard).
„ „	(Ynis-y-bro).
„ „	Ynysddu (W. W. Pontllanfraith).
„ „	Monmouth (School House).

GLAMORGAN (36).

Pontypridd (The Woodlands)— <i>No reply.</i>	Barry.
„ „	Cardiff (Lisvane).
„ „	Ystalyfera (Tanyrallt).

CARMARTHEN (4).

PEMBROKE (7).

St. Bride's Bay (Hilton)— <i>Observer moved.</i>	
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CARDIGAN (5).

BRECKNOCK (30).

Crickhowell (Gwernvale)— <i>Observer dead.</i>	Taff Fechan (Neuadd Res.)	No. 4
"	"	No. 2
"	"	No. 5
"	"	No. 7
"	"	No. 8
"	"	No. 3
"	"	No. 9
"	"	No. 6
Brecknock (Cantref Rec.)	<i>New g.</i>	
,, (Llandefaelog-fach)	<i>New g.</i>	

RADNOR (15).

Rhayader (Tyrmynydd).
Knighton.

MONTGOMERY (11).

Meifod (Tan-y-fron).

FLINT (8).

St. Asaph (Maes Elwy)—*Transferred to Denbigh* |

DENBIGH (16).

Chirk (Brynkinalt)— <i>No reply.</i>	Trefnant (Maes Elwy).
Wrexham (Brymbo)— <i>No reply.</i>	

MERIONETH (4).

Arenig (Bodrennig)— <i>No reply.</i>	
Corwen (Rhug Gardens)— <i>Record unreliable.</i>	

CARNARVON (14).

Carnarvon (North Road).

ANGLESEA (4).

ISLE OF MAN (9).	
Bishop's Court— <i>Record imperfect.</i>	Santon Vicarage.

ISLES OF SCILLY (2).

JERSEY (2).

St. Saviour's (The Ainges)—*Record ceased.* |

GUERNSEY (3).

SCOTLAND.

WIGTON (5).

Newton Stewart (Corsbie)—*No reply.* |

KIRKCUDBRIGHT (17).

Kirkcudbright (Balmae)— <i>Return not received.</i>		Dalry (Glendarroch).
Dalbeattie (Station Road)— <i>Return unreliable.</i>		„ (Old Garroch).
		Glenhead of Trool.

DUMFRIES (12).

Canobie (Byreburnfoot)—*No reply.* |

ROXBURGH (13).

Melrose (Abbey Gate)—*Observer dead.* |

SELKIRK (3).

PEEBLES (4).

Peebles (Kailzie)—*Observer dead.* |

BERWICK (5).

HADDINGTON (6).

| North Berwick (Fidra).

EDINBURGH (26).

Portobello (Joppa)— <i>Observer dead.</i>	Moorfoot Hills (Bowbaste).
Edinburgh (Roy. Obsy.) 2nd g. <i>Record ceased.</i>	Dalkeith.
,, (Streatham Ho.)— <i>Ret. not received.</i>	

LINLITHGOW (4).

Bo'ness (Grange)— <i>Record unreliable.</i>	Linlithgow (Nether Parkley).
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LANARK (15).

Douglas (Newmains)— <i>No reply.</i>	Uddingston (View Park).
Carmichael House— <i>No reply.</i>	Glasgow (Green Park).
	„ (Alexandra Park).
	„ (Kelvin Grove Park).
	„ (Springburn Park).

AYR (19).

RENFREW (30).

| Glasgow (Maxwell Park).

DUMBARTON (6).

Helensburgh (Dalglenan)— <i>Observer moved.</i>	
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STIRLING (17).

Killearn (Old Ballikinrain)— <i>Record imperfect.</i>	Banton by Bonnybridge (Craigdouffie)
	Duntreath.
	St. Ninians (Faughlin).

BUTE (5).

ARGYLL, MAINLAND (16).

Tayvallick (Taynish)— <i>Record ceased.</i>	Oban (The Corran).
Lochgilphead (Poltalloch)— <i>2nd g. Record imp.</i>	
Loch Awe (Ederline)— <i>No reply.</i>	
Inverary— <i>Record ceased.</i>	
Ardgour House— <i>No reply.</i>	
Ardnamurchan (Achateny)— <i>No reply.</i>	

ARGYLL, INSULAR (15).

Islay (Eallabus)— <i>Record imperfect.</i>	Islay (Gruinart School House).
Coll (The Manse)— <i>No reply.</i>	

CLACKMANNAN (3).

KINROSS (3).

FIFE (11).

Culross (West Grange)— <i>Record unreliable.</i>	Inchkeith.
Kennoway (Kilmux)— <i>Observer abroad.</i>	Isle of May.

PERTH (27).

Cromlix Gardens— <i>No observations.</i>	Braco (Nether Cambushinnie).
Pitlochry (Fasganevin)— <i>Record ceased.</i>	Dunkeld (Inverbraan).

FORFAR (27).

Broughty Ferry (Corona Gardens).
Arbroath (Waterworks) Tower. M.
Montrose (Melville Gardens).
,, (Kinnaber W.W.)

KINCARDINE (4).

Fettercairn— <i>Record imperfect.</i>	Girdleness.
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ABERDEEN (18).

Midmar (Dun Echt Observatory)— <i>Rec. ceased.</i>
New Pitsligo.— <i>Return imperfect.</i>

BANFF (4).

ELGIN OR MORAY (6).

NAIRN (3).

| Cawdor (Budgate).

WEST ROSS (12).

| Loch Torridon (Shieldaig).
| Isle of Lewis (Stornoway).

EAST ROSS (9).

Contin (Kinnahaird)—*Record unreliable.* | Fearn (Geanies Mains).

WEST INVERNESS (18).

Rona—*Record imperfect.* | Moidart (Roshven, Glenmutchkin).
| Skye (Kilmuir).

EAST INVERNESS (7).

Cawdor [Nairn]—*Transferred to Nairn.* |

SUTHERLAND (7).

CAITHNESS (6).

ORKNEY (10).

| Shapinsay (Balfour Castle).

SHETLAND (5).

| Bressay.

IRELAND.

CORK (11).

Fermoy (Gas Works)—*No reply.* | Cork (Queen's College).
| „ (The Palace).
| Mallow (Longueville).

KERRY (7).

Dingle—*No reply.*
 Ballyheigue—*Record imperfect.*

|

WATERFORD (8).

TIPPERARY (8).

Tipperary (Henry Street)—*Record ceased.*
 Fethard (Mobarname)—*Record ceased.*

|

LIMERICK (5).

Newcastle West (Churchtown)—*Obs. moved.* | Limerick (Victoria Terrace).

CLARE (6).

WEXFORD (7).

Wexford (Bann-aboo)—*Record imperfect.* | Templeudigan (Ballindoney).

KILKENNY (4).

Kilkenny Castle—*Record imperfect.*

|

WICKLOW (3).

CARLOW (2).

QUEEN'S COUNTY (1).

Maryborough (Meelick House)—*No reply.*

|

KING'S COUNTY (3).

Meelick Lock—*Record unreliable.*

|

KILDARE (1).

DUBLIN (10).

MEATH (6)

| Aclare House. 2nd gauge.

WESTMEATH (3).

| Street [Edgeworthstown].

LOUTH (4).

LONGFORD (2).

GALWAY (9).

Ballinasloe (Garbally)—*No reply.* | Woodpark [Scariff].

ROSCOMMON (2).

MAYO (4).

SLIGO (5).

LEITRIM (3).

CAVAN (9).

Baileboro (The Laurels)—*Return imperfect.* |
Killeshandra (Cas. Hamilton)—*Return imp.* |
Belturbet (Quivvy)—*Not received.*

FERMANAGH (1).

Newtownbutler (Crom Castle)—*Return imp.* |
Enniskillen (Florence Court)—*Return imp.*

MONAGHAN (2).

Monaghan (Bellinode)—*Record unreliable.* |
Glaslough House—*Record ceased.*

ARMAGH (6).**DOWN (12).**

Holywood Water Works—*Record unreliable.* | Mourne Mountains (Windy Gap).

ANTRIM (16).

Antrim (The Manse)—*Observer dead.* |

LONDONDERRY (8).

| Londonderry (The Asylum).

TYRONE (7).**DONEGAL (11).**

Glen Alla—*Record ceased.* | Bloody Foreland (Ardnadrean).

O B I T U A R Y.

WE believe that this year we have lost our oldest observer—Mr. Clarkson, of Alverthorpe Hall, Wakefield, who was in his 95th year,—but we know that we still have some over 90 years of age, and though we have lost more young observers than usual, the mean age at death has been 68, about 7 years below the average.

We have lost one other (Mr. Beesley, F.C.S.) of the few survivors of the 168 observers who contributed to English Rainfall, 1860, and we have learned that another (Mr. Mackrell) died nearly ten years since, so that the survivors are now reduced to 20,—the majority of whom are still contributing observations to the work which they first helped 36 years ago.

It is always difficult to mention any of our losses individually, because it seems to suggest that others are not important. The contrary is the case, for many observers are personal friends, and besides that, every death involves the obtaining of a substitute to carry on the observations, and, where observers have also been subscribers, it involves also loss of income—£30 or £40 per annum.

However, there are three names in the list which cannot be passed without special mention,—the Rev. C. H. Griffith, of Strathfield Turgiss, who, after taking over the care of Colonel Ward's experimental rain gauges, undertook the observation of twenty-one patterns of evaporator, including records of the temperature of the water in them, and in a river about a quarter of a mile distant—the whole series being, we believe, the most important and the best organized up to the present time. Indeed, as regards the majority of patterns these experiments have rendered unnecessary any further trials,—they were shown to be utterly misleading.

Another loss is that of the Rev. W. Clement Ley, but he was known rather for his studies of clouds than for his rainfall work, or for any experimental researches.

The last is a very serious loss, that of the veteran observer Colonel McInroy, of The Burn, Brechin, leaving the long record of 53 years. Scotch observers are so scarce that we regret to lose one, and *à fortiori*, such a station as The Burn.

Observers Deceased to July, 1896.

NAMES AND STATIONS.	DATE.	PERIOD OF OBSERVATION.	
		Perfect Yearly Records.	
Adam, A. M., Esq., M.D., Bargate Lodge, Boston, Lincolnshire	C 1864-72 imp T	7	
Amyot, T. E., Esq., Diss, Norfolk	C 1870 imp -95 T	25	
Atkinson, Rev. G. W., Culgaith, Penrith	1876-94 T	19	
Banks, Rev. G. W., Worth Rectory, Crawley, Sussex	1874-94	21	
Barton, Rev. E. Wigmore, Kingsland, Hereford ...	{ 1874-78, 85 imp { { -87 imp-89 {	7	
*Beesley, T., Esq., F.C.S., Banbury	{ C 1851 imp -57 T, { { C 1860-87 imp T {	33	
Black, Capt., of Kailzie, Kailzie, Peebles, N.B. ...	C 1889 -94.....	6	
Bond, George, Esq., C.E., Brimington Hall, Cheshire.....	C 1891 imp -94.....	3	
Bond, W. M., Esq., Derrygally, Moy, Tyrone	1872-95	24	
Bradley, G. M., Esq., The Hollies, Curdridge, Botley	1893-95	3	
Brett, A. T., Esq., M.D., Watford House, Watford	1881-83 imp -89	8	
Cadogan, A. H., Esq., Brinkburn High House, Morpeth	1888-95	8	
Cameron, A., Esq., Highfield, Elgin, N.B.	1874-94 C	21	
Campbell, C. D. H., Esq. { NewtownLimavady,Lond'derry Coleraine, Londonderry	1879-95 T	{ 36	
Clark, Miss M. E. { St. Leonards Road { Lyndhurst Road... } Exeter	1879-87 T	{ 36	
Clarkson, H., Esq., Alverthorpe Hall, Wakefield...	C 1883imp-85imp-89impT 1891-94 T	{ 8	
Denison, The Ven. Archdeacon, E. Brent, Somerset	1879-94 T	16	
Devon, H. C., Esq., Cruwyshaye, Backenford, Devon	1880-88	9	
Dodds, Mr. A. B., Abbey Gate, Melrose, N.B.	1894 T	1	
Dore, H. J., Esq., St. Catherine's House, Niton, Isle of Wight	C 1871 imp -95 imp T	23	
Foord, Rev. R. H., Foxholes, Ganton, York.....	1892-95 imp T	3	
Frew, Forrest, Esq., Lyleston, Cardross, Dumbarton	C 1875 imp -84 T, { { C 1887-89 {	12	
Grieve, Mr. P. { Culford, Bury St. Edmunds..... Orchard Street, Bury St. Edmunds	C 1870 imp -95.....	25	
Griffith, Rev. C. H., Strathfield Turgiss, Winchfield Copy Hill, Shap, Westmoreland	C 1858 imp -79	{ 26	
Hoggarth, Mr. { Sleddale, " " " Swindale, " " " Tailbert Beck, " "	1890-95 imp T	{ 26	
Horsman, Mrs., Kytes, Watford	C 1862-96 imp C	34	
Huddlestone, Col., Llynderw, Welshpool	C 1874 imp -91 imp T	16	
Jones, J. Harvey, Esq., Montpelier, Bristol	C 1880 imp -91 imp T	10	
Ley, Rev. W. Clement, Sellack Vic., Ross, Hereford	C 1880 imp -91 imp T	10	
*Mackrell, T., Esq., Barnstaple	C 1880 imp -86 imp T	5	
Mansel, Col., Smedmore, Corfe Castle, Dorset	C 1889 imp -94	5	
Margary, P. J., Esq., C.E., Charlton Villa, Dawlish, Devon	C 1893	1	
Mayo, C. T., Esq., Corsham, Wilts	1893-95	{ 3	
McInroy, Col., The Burn, Brechin, N.B.	C 1862-66 T, C 1868-77 C 1857-79	15	
	1890-94	{ 5	
	C 1857-68 T	12	
	72-85 imp -94 imp T	21	
	C 1843-95	53	

Observers Deceased to July, 1896—(continued).

NAMES AND STATIONS.	DATE.	PERIOD OF OBSERVATION.	
			Perfect Yearly Records.
Mills, M. F., Esq., Tapton Grove, Chesterfield.....	1890-95	6	
Monk, Mr., Moor Hall, Harlow, Essex	C 1888 imp -94 imp ..	5	
Munro, Mr. H., Clevelands, Lyme Regis	1891-94 C	4	
Neame, E., Esq., Harefield, Selling, Faversham ...	C 1866 imp -94 C ..	28	
Neve, A. Curteis, Esq., Hole Park, Rolvenden, Kent	1888-95	8	
Owen, D., Esq., Ash Hall, Cowbridge.....	C 1872 imp -95 C ..	23	
Parr, Gen. { The Wakes, Selborne, Alton } Hants	C 1884 imp -91 T ..	9	
Peel, Rev. F. W., Burghwallis, Doncaster... ..	C 1893-94 C		
Phillott, Rev. Canon, Hereford.....	1882-94 T	13	
Robertson, Dr. J. D., The Friarage, Penrith.....	C 1888 imp -94 T ..	6	
{ Beulah Hill, Upper Norwood...	1875, 1877	2	
Scott, S. R., Esq. { Sherwood,	C 1872-74 T		
{ Widmore Road, Bromley, Kent	C 1876-82 T	11	
Sidney, The Hon. H. { Ingleby Manor, Middleboro'	C 1894 T		
Slack, H. J., Esq., Ashdown Cottage, Forest Row	1884-95	22	
Stopford, Hon. E. S., Borris, Co. Carlow	C 1872 imp -92 T ..	20	
Taylor, T., Esq., Greenside Mine, Patterdale,	1890-93 imp T ..	3	
Westmoreland	C 1872 imp -94 ..	22	
Thomas, Mr. W., The Park, Wolverhampton	1882-94 C	13	
Troyte, Col., Huntsham Court, Devon	C 1873 imp -95 ..	22	
Weeks, T.S., Esq., C.E. { Torquay W. Wks., Christow	1887-94	22	
{ " " " Chudleigh	1881-94		
Wharton, H. T., Esq., Acol Road. West Hamp-	1892-95 imp T ..	3	
stead	C 1890-95	6	
Williamson, B., Esq., Old Dromore, Mallow, Cork...	1887-95 imp	8	
Wilson, Rev. W., Stoke Bruerne, Towcester.....	{ C 1863-65 imp T,		
Wray, G. W., Esq., Leyburn, Bedale	C 1868 imp -94 T }	27	

NOTE.—C indicates commencement of record and also its continuation, T its termination.

**RAINFALL AND METEOROLOGY
OF
1895.**

SYMBOLS EMPLOYED.

<i>H.R.S.</i>	- - -	Highland Railway Station.
H		Hail.
L	- - -	Lightning.
R	- - -	Rainfall.
S		Snow.
T	- - -	Thunder.
TS		Thunderstorm.
TSS	- - -	Thunderstorms.

ON THE METEOROLOGY OF 1895.
WITH NOTES ON SOME OF THE PRINCIPAL PHENOMENA.

[These Notes should be read in conjunction with those on Heavy Rains in 1895.]

JANUARY.

- 1st—7th.—*St. Albans, The Grange* (III). S daily.
- 2nd.—*Llandovery* (XI). H, T, and L.—*Abergwesyn Vic.* (XI). H, S, and T.—*Watten, H.R.S.* (XIX). S 3 to 4 inches deep, and much drifted.
- 3rd and 4th.—*Tavistock, Rose Villa* (V). L.
- 6th.—*Oxford, St. Giles* (III). About 3 inches of S.—*Ashburton, Druid* (V). TS and S showers.—*St. Columb, Cornwall* (V). Church struck by L and belfry damaged, about 6.30 p.m.—*Stronvar* (XVI). Gale and 8 inches of S.
- 8th.—*Melrose, Abbey Gate* (XII). S $4\frac{1}{2}$ inches deep.
- 11th.—*Ross, The Graig* (VI). Max. temp. $23^{\circ}5$.—*Llanfrechfa Grange* (XI). Rime on trees $\frac{1}{2}$ an inch thick.
- 12th.—*Horsell* (II). S yielding .18 in.—*Emsworth, Redlands* (II). Blizzard from 8 p.m. to 2 a.m. on 13th, unequalled for severity and depth of drifts since 1881.—*Maidenhead, Castle Hill House* (II). Heavy S storm.—*Farringdon, The Elms* (II). S estimated to yield .45 in., but it was drifted to a depth of $3\frac{1}{2}$ feet over the rain gauge.—*St. Albans, The Grange* (III). S yielding .25 in.—*Great Glenham* (IV). S 4 inches deep.—*Diss* (IV). N.E. gale in evening and night with much S.—*Alderbury* (V). S yielding .38 in.—*Ashburton, Druid* (V). S 6 inches deep.—*Stowell Rectory* (V). Average depth of S 8 inches, and deep drifts.—*Stoke Bliss* (VI). Average depth of S 10 inches, but much drifted.—*Ludlow, Ashford* (VI). Heavy S yielding .79 in.—*Llanfrechfa Grange* (XI). Six inches of S.—*Llanvihangel Court* (XI). Depth of S 11 inches.—*Douglas, Victoria Road* (XI). Whole gale from E., and tremendous sea.

12th and 13th.—*Wakefield, Stanley Grange* (IX). S storm, drifts in places 2 to 3 feet deep.—*Knaresborough, Farnham* (IX). Drifting S.

13th.—*Berkhampstead* (III). S $3\frac{1}{2}$ inches deep.—*Blandford, Whatcombe* (V). S.W. wind and heavy S storm.—*Ross, The Graig* (VI). S lying to a depth of $6\frac{1}{2}$ inches, followed by R, sleet, and rapid thaw.—*Pembroke, Marston* (VI). S 12 inches deep.—*Leominster, Farm* (VI). S 10 inches deep.—*Handsworth* (VI). S 7 inches deep, yielding 1.95 in.—*Horn castle, Bucknall* (VII). Deep snowdrifts.—*Chelford, Astle Hall* (VIII). Blowing very hard from S.E. and snowing all morning, causing drifts 3 or 4 feet deep in the roads.—*Thixendale* (IX). A blizzard; roads blocked with S.—*Brampton, Denton House* (X). A blizzard for 5 or 6 hours.—*Corwen, Rhug* (XI). S and heavy drifts.—*Douglas, Victoria Road* (XI). Blizzard from N.E.—*Colmonell* (XIV). About 2 inches of S.

18th.—*St. Bride's Bay* (XI). TS.

20th.—*Moseley, Woodstock Road* (VI). Heavy R, 1.30 in., and being preceded by .41 in. on 19th, caused much flooding.

20th—27th.—*Cookham Vicarage* (III). Flood.

21st.—*Ross, The Graig* (VI). Flood on *Wye*, 12 feet 6 inches.

22nd.—*Horsell* (II). S yielding 10 in.—*Ditchling* (II). S 2 inches deep.—*Berkhampstead* (III). S $2\frac{1}{2}$ inches deep.—*Easton-on-the-Hill* (III). T, H and S.—*Nottingham, Beeston Fields* (VII). Large flood in the *Trent Valley*.

23rd.*—*Ealing, Gordon Road* (I). S and TS.—*Kensington, Addison Gardens* (I). Heavy squall, with T, L, R and S, at 10 a.m.—*Capel, The Cottage* (II). Almost sudden darkness at 10 a.m., with S, T and L.
Abinger Hall (II). Severe S storm, accompanied by one terrific clap of T.—*Wallington* (II). Severe TS.—*Croydon, Duppas House* (II). T, H, R and S.—*Hythe* (II). Dense darkness and a blizzard of S at 10.20 a.m.—*Sheppen, Leysdown* (II). Squall, with H, L, and T.—*St. Albans, The Grange* (III). TS.—*Manor Park, Albany Road* (IV). T, L, and sleet.—*Diss* (IV). Heavy S.W. gale all day and night.—*Abergwesyn Vicarage* (XI). H, R and distant T.

24th.—*Southport, Hesketh Park* (VIII). Distant L.

25th—Feb. 28th.—*Finchley, Etchingham Park* (I). Partial drought for 35 days, with .33 in. of R.

26th.—*Penzance, Trevean* (V). Heavy fall of S.—*Colmonell* (XIV). Two-and-three-quarter inches of S.

* See also *Met. Mag.*, February, 1895, p. 1.

27th.—*Horncastle, Bucknall* (VII). Deep snowdrifts.—*Southport, Hesketh Park* (VIII). Heavy soft H and some S in morning, with L and T.—*Knaresborough, Farnham* (IX). Four inches of S.—*Mealsgate, Uldale* (X). Six inches of S on the ground.—*Buncrana, Rockfort* (XXIII). S 4 inches deep.

27th—Feb. 28th.—*Muswell Hill* (I). Partial drought for 32 days, with 23 in. of R.

28th.—*Oakley Quarries* (XI). About 20 inches of S on the ground.—*New Galloway, Glenlee* (XII). Five inches of S.—*Colmonell* (XIV). One inch of S.

29th.—*Stowell Rectory* (V). S 5 inches deep.—*Glastonbury, High Street* (V). About 4 inches of S.—*Chelford, Asile Hall* (VIII). S all day, depth 3 inches.—*Southport, Hesketh Park* (VIII). Three-and-a-half inches of S, making the depth on ground 5 inches.

31st.—*Hungerford, Kintbury* (II). Blizzard.—*Berkhampstead* (III). S $2\frac{1}{2}$ inches deep.—*Ross, The Graig* (VI). S 4 inches deep.—*Rotherby Hall* (VII). Four inches of S.—*Nottingham, Beeston Fields* (VII). S 6 inches deep, and very compact.

FEBRUARY.

1st.—*Tavistock, Rose Villa*. (V). Parhelia from 8.45 to 9.25 a.m.

1st—21st.—*Borden Wood* (II). Absolute drought.

1st—23rd.—*Emsworth, Redlands* (II). Absolute drought.—*Okehampton* (V). Continuous frost.

1st—28th.—*Pool Quay Vicarage* (XI). Partial drought.

1st—March 1st.—*St. Peter's Port, Beaulieu* (XI). Partial drought.

2nd—17th.—*Oxford, Elsfield* (III). Absolute drought for 16 days.

2nd—19th.—*Tean Vicarage* (VI). Absolute drought for 18 days.

2nd—21st.—*Southport, Hesketh Park* (VIII). Absolute drought.

2nd—23rd.—*Hedson* (III). Absolute drought for 22 days.—*Watlington, Pyrton Manor* (III). Absolute drought for 22 days.—*Weobley, Dilwyn* (VI). Absolute drought.—*Leamington, The Parade* (VI). Absolute drought.—*Bolton, The Park* (VIII). Absolute drought.—*Pool Quay Vicarage* (XI). Absolute drought for 22 days.

2nd—24th.—*Chiddingtonfold* (II). Absolute drought for 22 days.—*Handsworth* (VI). Absolute drought.

4th and 5th.—*Tavistock, Rose Villa* (V). Solar halos.

5th.—*Bamburgh* (X). S 5 inches deep.—*Cockermouth, Whinfell Hall* (X). Violent blizzard.

5th—9th.—*South Petherton, Bridge* (V). For five days the temp. in stand was below 32°.

5th—14th.—*Wakefield, Stanley Grange* (IX). Intensely cold, average min. in screen for the ten days, 9°·2.

6th.—*Seathwaite Vicarage* (VIII). Average depth of S 11 inches.—*Ulpha Vicarage* (X). About 10 inches of S on ground.—*Eskdale* (X). Violent S storm; railways blocked.—*Brampton, Denton House* (X). Gale, with S.—*Douglas, Victoria Road* (XI). S 20 inches deep; railways and roads blocked, no inland mails.—*Ballinluig* (XVI). Blizzard at night, with 4½ inches of S—*Dundee, Dens Works* (XVI). Great blizzard and S storm.—*Nenagh, Castle Lough* (XX). S, which drifted a few days after it fell and did not finally disappear till the middle of March.

6th and 7th.—*New Galloway, Glenlee* (XI). Snowing all day; total depth 28 inches.—*Garliestown, Galloway House* (XII). Great S storm, with severe frost.—*Colmonell* (XIV). Fourteen inches of S on 6th, and 10 inches on 7th, with very strong wind causing severe blizzard.

6th—10th.—*Buntingford, Hamels Park* (III). Very hard frost.

6th—23rd.—*Finchley, Etchingham Park* (I). Absolute drought for 18 days.—*Penrith, Edenhall Vicarage* (X). Absolute drought for 16 days.

7th.—*Ely, Stretham* (III). Ice on drain 5½ inches thick.—*Armagh Observatory* (XXIII). Min. temp. 4°·9, the lowest ever registered here (since 1843).

7th and 8th.—*Wem, Clive Vicarage* (VI). Min. temp. —2°·0 on both nights.

8th.—*Burton, Hoar Cross* (VI). Temp. 3° below zero.—*Melbourne Vicarage* (VII). Verified min. in Stevenson screen fell to —2°·5.—*Meltham, Harewood Lodge* (IX). Min. in shade, 0°·5; the lowest recorded in 17 years.—*Edinburgh, Blacket Place* (XIII). Min. temp. 11°·9, the lowest in February since 1823.

9th.—*Southport, Hesketh Park* (VIII). Ice and S floating around the pier in large quantities.—*Nun Monkton* (IX). The *Ouse* frozen over.—*Garvagh, Moneydig* (XXIII). A min. thermometer laid on the snow fell to —8°.

10th.—*Penzance, Trevean* (V). Heavy fall of S.—*Southport, Hesketh Park* (VIII). Solar and lunar halos.—*Cork, Clarence Place* (XX). S 5 inches deep.—*Clonmel, Bruce Villa* (XX). Great S storm; some roads blocked for weeks with the drifts.—*Kilkenny, Sion Villa* (XXI). A blizzard of S, raging the entire day. S 8 inches deep.

10th and 11th.—*Cork, Clarence Place* (XX). Owing to strong E. wind, the lower parts of the city were flooded during high water of spring tide.

11th—March 1st.—*St. Peter's Port, Beaulieu* (XI). Absolute drought.

14th.—*Watten* (XIX). Gale, and S drifts blocking road and rail.

15th.—*Drumnadrochit* (XVIII). Magnificent aurora seen from 8 p.m. till 8.45 p.m.

16th.—*Old Garroch* (XII). Extreme frost, ($-1^{\circ}5$), which killed old laurels down to the ground.

MARCH.

1st—4th.—*St. Albans, The Grange* (III). S daily.

2nd.—*Oxford, Elsfield* (III). Partial drought for 37 days, with 31 in. of R, ended.—*Colmonell* (XIV). About 1 inch of S.

3rd.—*Ashburton, Druid* (V). Four inches of S on ground.

3rd and 4th.—*Epping, The Hemnalls* (IV). S.

4th.—*Southport, Hesketh Park* (VIII). Parhelia and solar and lunar halos.

5th.—*Lexden, Hill House* (IV). Partial drought for 32 days, with 26 in. of R, ended.

8th.—*Weobley, Dilwyn* (VI). Partial drought for 36 days, with 31 in. of R, ended.

10th.—*Batheaston* (V). T and H in afternoon.

13th.—*Tavistock, Rose Villa* (V). Bright aurora.—*Nottingham, Beeston Fields* (VII). Aurora.—*Thixendale* (IX). Aurora from 8 p.m. to 10 p.m.—*Brampton, Denton House* (X). Very fine display of aurora borealis.—*Edinburgh. Blacket Place* (XIII). Very fine aurora.

14th.—*Brampton, Denton House* (X). S disappeared in garden, having lain 11 weeks.

19th.—*Hedsor* (III). Partial drought ended ; 47 days with 45 in. of R.

23rd.—*Miltown Malbay* (XX). S.W. gale and heavy R.

23rd and 24th.—*Kilkenny, Sion Villa* (XXI). N.W. gale ; on 24th the bar. dropped from 29.61 in. to 28.98 in. in six hours.

24th.*—*Keston Tower* (II). Heavy S.W. gale.—*Sheppey, Leysdown* (II). S.W. gale in morning, L between 7 p.m. and 8 p.m.—*Broxbourne* (III). Very heavy S.W. gale, doing great damage.—*Kensworth* (III). Tremendous gale, much damage to buildings and trees.—*Hedsor*

* See also *Met. Mag.*, April, 1895, p. 41, and May, 1896, p. 49.

(III). Strong W.S.W. gale.—*Culham Vicarage* (III). Violent gale at midday.—*Oxford, Magdalen College* (III). Blowing a hurricane at midday.—*Bloxham Grove* (III). Tremendous S.W. gale, at its height about 1.30 p.m., doing immense injury to timber, ricks and buildings.—*Easton Mauduit Vicarage* (III). Hurricane from W.S.W., uprooting trees and damaging roofs.—*Kettering, Headlands* (III). A gale swept across this district, and for about ten minutes, at 2.30 p.m., when at its height great havoc was played with chimneys, roofs, walls and trees ; H and L followed.—*Maxey Vicarage* (III). A tremendous gale from 2 p.m. to 5 p.m.—*Biggleswade, Old Warden* (III). Very severe gale, uprooting many old and fine trees.—*Ely, Stretham* (III). Violent hurricane, doing an immense amount of damage.—*Ipswich, Bishop's Hill* (IV). Great S.W. gale between 2 p.m. and 4.30 p.m.—*Rendlesham Hall* (IV). Moderate gale after 1.30 p.m., developing into full S.W. to N.W. gale between 3 p.m. and 6 p.m. ; many trees down.—*Hawkedon Rectory* (IV). Terrible hurricane, doing great damage to trees and buildings, and a pair of the Rectory chimneys was blown down.—*Bury St. Edmunds, Orchard Street* (IV). Terrible S.W. gale, and great destruction of property.—*Diss* (IV). S.W. gale, changing to a hurricane at 2.15 p.m., which raged till 4.15 p.m., doing immense damage, walls and trees thrown down and one life lost at a village seven miles to N.E., where a chapel collapsed, fatally injuring the preacher. During the height of the storm it was curious to see big tiles flying horizontally past the window like butterflies or autumn leaves. The sun shone brilliantly through the whole disturbance.—*Denver* (IV). Fearful storm of wind ; Denver church spire blown down and trees uprooted in all directions.—*Aylsham, Woodgate* (IV). Terrific gale, when thousands of trees were blown down, whole woods of Scotch fir being levelled with the ground.—*Mildenhall* (V). S.W. gale.—*Tavistock, Rose Villa* (V). Heavy W. gale at midday.—*Cheltenham, Southam Villa* (VI). Terrible gale. L.—*Pembridge, Marston* (VI). Very bad gale, many trees blown down.—*Middleton-in-Chirbury* (VI). S.W. hurricane, doing much damage.—*Handsworth* (VI). Terrific gale for about half-an-hour.—*Burton, Hoar Cross* (VI). Furious gale, blowing down 15 trees near this station.—*Bedivorth Cemetery* (VI). Violent storm from 2 p.m. to 4 p.m., doing the greatest amount of damage remembered.—*Ketton Hall* (VII.) Destructive gale from 2 p.m. Although of short duration, the damage done was very great, many buildings with slated and thatched roofs were almost stripped, and large trees uprooted. T and

L at 9 p.m.—*Nottingham, Beeston Fields* (VII). S.W. gale, at its height at 2.45 p.m.—*Findern, The Longlands* (VII). Extraordinary storm of wind from 2 p.m. to 2.45 p.m. L in evening.—*Chester, Christleton Hall* (VIII). Hurricane with H, doing extensive damage.—*Chelford, Astle Hall* (VIII). T, L, H and R.—*Southport, Hesketh Park* (VIII). Gale, with heavy H, L and T.—*Seathwaite Vicarage* (VIII). T and L.—*Wath-on-Dearne, Chapel Street* (IX). T and L.—*Wakefield Prison* (IX). Storms of wind and R, with T and L.—*Wakefield, Stanley Grange* (IX). Remarkable TS, with gale, the temperature fell from 57° to 37° between 1 p.m. and 2.50 p.m.—*Knaresborough, Farnham* (X). T, L, H and R.—*Thixendale* (IX). T and L. Aurora.—*Brampton, Denton House* (X). T.—*Llanvihangel Court* (XI). Violent S.W. gale.—*Ballingarry, Hazelfort* (XX). T, L, H and high wind.—*Miltown Malbay* (XX). T, H and R.—*Athlone, Twyford* (XXI). T, L and H.

24th and 25th.—*Broadford, Hurdlestow* (XX). T and L at night on the former, and at 11 a.m. on the latter day.

24th—26th.—*Nun Monkton* (IX). Floods.—*Glenaladale* (XVIII). S on the hills.

25th.—*Clifton, Pembroke Road* (VI). T, S and H.—*Cheltenham, Southam Villa* (VI). TS.—*Ballinluig* (XVI). Fresh S on the hills.

28th.—*Brampton, Denton House* (X). T.—*New Galloway, Glenlee* (XII). L at 8 p.m.—*Lilliesleaf, Riddell* (XII). An inch of S on the ground.

29th.—*Sheppey, Leysdown* (II). Squally, with T.

30th.—*Chelford, Astle Hall* (VIII). Heavy H storms.

APRIL.

1st.—*Ketton Hall* (VII). T and H at 2 p.m.—*Wath-on-Dearne, Chapel Street* (IX). T, L, H, and R.

3rd.—*Melmerby* (X). S.

4th.—*Douglas, Victoria Road* (XI). Bitterly cold, with S.—*New Galloway, Glenlee* (XII). Lunar halo.

5th.—*Craigend Castle* (XV). S and R.

6th.—*Llanfrechfa Grange* (XI). Heavy S.W. Gale.

8th.—*Drumnadrochit* (XVIII). Very remarkable double lunar rainbow at 10.30 p.m., the red and green were distinct but none of the other colours could be distinguished; the outer bow was visible throughout its length.

10th.—*Colchester, Surrey Villa* (IV). TS, with .69 in. of R.

11th.—*New Galloway, Glenlee* (XII). Aurora.—*Ballinluig* (XVI). Aurora.

17th.—*Ealing, Gordon Road* (I). In 45 minutes .51 in. of R fell.—*Ealing, Fennymere* (I). In 20 minutes .45 in. of R fell.—*Kensington, Addison Gardens* (I). TS.—*Wallington* (II). TS.—*Hedson* (III). Sultry, with distant T and L.—*Oxford, Magdalen College* (III). Heavy TS in evening.—*Oxford, St. Giles* (III). TS between 7 p.m. and 8 p.m.—*Bury St. Edmunds, Orchard Street* (IV). T at night.—*Mere Down* (V). T commenced about 1 p.m., R at 1.15 p.m. and fell in torrents at 1.30 p.m., T following close on the L; by 2 p.m. .71 in. of R had fallen. Two hours of sunshine followed, and shortly after 4 p.m. the storm recommenced, with H about the size of peas, the interval between L and T not exceeding 3 seconds; by 5 p.m. .98 in. more had fallen, and by 6 p.m. another .40 in. Total for 24 hours, 2.12 in.—*Taunton, Halse* (V). The worst TS for many years; T very loud, and L extremely vivid, accompanied by R and H, of which 1.20 in. fell in an hour-and-a-half. The H stones were of great size.—*Taunton, Cothelstone House* (V). About noon distant T was heard. The storm worked round to the W. and about 2.30 p.m. burst with the fury of a tornado. H and R with vivid L and heavy T continued for a little over half-an-hour, the H covering the ground to the depth of an inch and in places it was washed up against walls and rails to the depth of two feet. In this short time 1.70 in. of R and H fell. Great damage was done to roads and crops, and cottages were flooded. Tons of soil were carried from the fields on to the roads.—*Batheaston* (V). T and H in afternoon.—*Clifton, Pembroke Road* (VI). Two TSS between 3 p.m. and 7 p.m.—*Further Barton* (VI). TS with hardly any R, but much fell at Fairford and Lechlade.—*Great Barrington* (VI). Heavy TS.—*Ross, The Graig* (VI). TS from 7 p.m. to 9 p.m.—*Worcester, Diglis Lock* (VI.) TSS.

18th.—*Newry, Edward Street Station* (XXIII). S.

22nd.—*Seathwaite Vicarage* (VIII). T and steady R, 1.13 in.

24th.—*Axminster, Great Trill* (V). At night, 1.08 in. of R fell.—*Southport, Hesketh Park* (VIII). L and T at 5 p.m.—*Melmerby* (X). TS.—*Uldale Rectory* (X). TS at 5.30 p.m.—*Cork, Clarence Place* (XX). Heavy R, H, and T in afternoon, .28 in. fell in 20 minutes.—*Miltown Malbay* (XX). T, L, and heavy and large H, .85 in. falling in 1 hour and 20 minutes.

25th.—*Bury St. Edmunds, Orchard Street* (IV). T, S, and H.—*West Bromwich* (VI). In 90 minutes, ·40 in. of R fell.

27th.—*Kensington, Addison Gardens* (I). TS.

27th—May 30th.—*St. Peter's Port, Beaulieu* (XI). Absolute drought.

28th—May 11th.—*Colchester, Hill House, Lexden* (IV). Absolute drought for 14 days.

30th.—*Douglas, Victoria Road* (XI). R and S.W. gale at night.

30th—May 30th.—*Petersfield, Compton* (II). Partial drought, R only ·16 in.

MAY.

1st—17th.—*Chiddington* (II). Absolute drought for 16 days.

1st—24th.—*Wellington, Windwhistle House* (V). No measurable R.

2nd—16th.—*St. Albans, The Grange* (III). Absolute drought for 15 days.—*Hedsor* (III). Absolute drought for 15 days.—*Oxford, Elsfield* (III). Absolute drought for 15 days.—*Leamington, The Parade* (VI). Absolute drought for 15 days.

2nd—June 9th.—*Ross, The Graig* (VI). Partial drought, 39 days with only ·26 in. of R.

3rd—18th.—*Amersham, The Plantation* (III). Absolute drought.

3rd—28th.—*Stowell Rectory* (V). The longest absolute drought observed in May.

8th.—*Melmerby* (X). Slight TS—*Stronvar* (XVI). T at 6 p.m.

9th.—*Chelford, Astle Hall* (VIII). Distant TS.—*Dalnaspidal* (XVI). T.

12th.—*Colchester, Surrey Villa* (IV). TS.—*Saffron Walden* (IV). TS.—*Rendlesham Hall* (IV). T and L.—*Stronvar* (XVI). T and L from 3.30 p.m. to 4 p.m.

16th—*Berkhampstead, Fairhill* (III). S.—*Woodbridge, The Cedars* (IV). Violent H storms.—*Bury St. Edmunds, Orchard Street* (IV). S and sleet.—*Diss* (IV). Gale and H, the latter doing much mischief to foliage and bloom, leaving trees blackened as if by salt.—*Dalnaspidal* (XVI). Frost and S.

16th—18th.—*Hedsor* (III). Bitter N.E. winds and frost on ground.

17th.—*Capel, The Cottage* (II). S at 6 a.m.—*Wallington* (II). Slight S.—*Croydon, Duppas House* (II). S.—*Wadhurst, Lower Cousley Wood* (II). S.—*St. Albans, The Grange* (III). Slight S between 4 a.m. and 7 a.m.—*Easton-on-the-Hill* (III). R and S.—*Nottingham, Beeston Fields* (VII). S at 6 a.m.—*Chelford, Astle Hall* (VIII). S in the early morning—*Bolton, The Park* (VIII). Slight S at 5 a.m.—*Wath-on-*

Dearne, Chapel Street (IX). S.—Melmerby, Baldersby (IX). S.—Aysgarth Vicarage (IX). S.—Ballinluig (XVI). S. on Ben Vrackie.

18th.—*Oxford, St. Giles (III).* A few flakes of S.

19th.—*Glenaladale (XVIII).* S. on high hills.

22nd.—*Mildenhall (V).* Meadow grass cut ; the earliest date within memory in this parish.—*Broadford, Hurdlestow (XX).* Severe H showers.—*Miltown Malbay (XX).* T.

22nd—25th.—*Drumnadrochit (XVIII).* Distant T daily.—*Invershin (XIX).* T,

23rd.—*Keston Tower (II).* Heavy TS in afternoon.—*Oxford, St. Giles (III).* T.—*Bloxham Grove (III).* Heavy T.—*Saffron Walden (IV).* TS.—*Ross, The Graig (VI).* TS.—*Edinburgh, Blacket Place (XIII).* T and heavy R at 1.10 p.m.—*Forres (XVII).* TS from 2 p.m. to 3 p.m.

23rd.—Much damage by L. Three horses killed in a field near *Hatfield, Herts.* At *Pirton*, near *Hitchin*, a house was struck, and it and three adjoining houses were burned down ; in the same parish, six men sheltered against a wheat stack, it was struck, one man was killed and another seriously injured. At *Melbourne*, near *Royston*, a cottage was struck and burned down. At *Chatteris* a tree was struck and two men just passing were slightly injured. At *Baddeley Edge, Milton, Stoke-upon-Trent*, a man was killed while sitting in front of his cottage fire. An elm tree was struck at *Fillongley*, near *Coventry*, two houses in *Leicester*, and two bullocks sheltering under a tree in the neighbouring village of *Whetstone*. At *Barnack*, near *Stamford*, a man who had left his coat under a tree was picking it up, when the tree was struck and the man injured. Near *Spalding*, six sheep were killed and one or two houses struck. At *Bourne, Lincoln*, a horse was killed about 4 p.m. A girl who was carrying a tin milk can at *Carluke, Lanarkshire*, and a tramp who had been sheltering under a beech trees at *Waterbeech, Ecclefechan*, were killed.

23rd and 24th.—*Clifton, Pembroke Road (VI).* TSS.—*Craigend Castle (XV).* TSS.

23rd—25th.—*Llanvihangel Court (XI).* T daily. —*Dalnaspidal (XVI).* T, L and R.

24th.—*Alton, Hill House (II).* TS covering an area about 16 miles long by 3 miles wide. 2·43 in. of R fell in less than an hour-and-a-half. The lower part of the town was flooded, and the road after the storm was a foot under water for about 250 yards.—*Bishops Cannings (V).* TS.—*Long Ashton (V).* Heavy TS.—*Abbots Leigh (V).*

In 1 hour 30 minutes, 1·15 in. of R fell.—*Cirencester, Further Barton* (VI). TS unequalled for duration and intensity for many years. T was first heard at 2.30 p.m., and at 3.30 p.m. was literally incessant and the L very vivid. Heavy R did not begin till 4.10 p.m. and ceased at 5.20 p.m. (·79 in.), the storm being nearly over by 5.35 p.m. Several trees were struck, and a shed at Cirencester workhouse was fired. At *Ashton Keynes* a heifer was killed, and large H fell. The G. W. R. between *Minety* and *Kemble* was flooded to a depth of 2 feet.—*Hodsock Priory* (VII). A local TS, apparently much heavier near *Blyth* where the water running down the hills did much damage to fields and roads.—*Wath-on-Dearne, Chapel Street* (IX). L and T.—*Doncaster, Magdalens* (IX). TS.—*Meltham, Harewood Lodge* (IX). Rather severe TS.—*Ulpha Vicarage* (X). TS at 1.15 p.m.—*Cockermouth, Whinfell Hall* (X). A TS commenced at 2 p.m. T for the first half-hour almost continuous ; R very heavy, and for two or three minutes a violent discharge of large H stones beating down thousands of young oak leaves. The R ceased within the hour, 1·24 in. having fallen.—*Uldale Rectory* (X). TS in afternoon.—*Treherbert, Tyn-y-waun* (XI). T and L.—*Abergwesyn Vic.* (XI). TS.—*Edinburgh, Blacket Place* (XIII). TS at 1.35 p.m.—*Stronvar* (XVI). T and L from 2 p.m. to 3 p.m.—*Kilkenny, Sion Villa* (XXI). Loud T followed by heavy R.

24th and 25th.—*Bolton, The Park* (VIII). T and L.—*Dowlais, Gwernllwyn* (XI). L and T.—*New Galloway, Glenlee* (XII). T and L, and heavy R and H.—*Melrose, Abbey Gate* (XII). T and L.—*Colmonell* (XIV). T and L.—*Inverary, Newtown* (XV). TSS.

25th.—*Ashburton, Druid* (V). TS, with torrents of R ; 1·02 in. between noon and 4 p.m.—*Rochdale, Fieldhead* (VIII). In 2½ minutes ·15 in. of R fell.—*Leeds, Elmet Hall* (IX). TS.—*Forres* (XVII). TS between 3 p.m. and 5 p.m.

25th.—Violent TS in *Huntingdonshire*. Farm buildings struck and burned at *Covington*, a man killed at *Stilton*, and a cow at *Caldecot*.

25th—June 29th.—*Amersham, The Plantation* (III). Partial drought. R only ·21 in.

26th.—*Wath-on-Dearne, Chapel Street* (IX). Severe TS.

29th.—*Muswell Hill* (I). Partial drought for 32 days, with ·18 in. of R, ended.—*Finchley, Etchingham Park* (I). Partial drought for 32 days, with ·23 in. of R, ended.

30th.—*Camden Square* (I). Max. in shade 86°·2, the hottest in May for half a century except May 19th, 1868, when it rose to 87°·6.—*Capel, The Cottage* (II). T and L,—*Wallington* (II). L.—

Emsworth, Redlands (II). T and L.—*Maidenhead, Castle Hill House* (II). Slight TS.—*Hedson* (III). T with intense heat.—*Oxford, Mag. Coll.* (III). Vivid L during evening but no T.—*Oxford, St. Giles* (III.) L.—*Bloxham* (III). Vivid L and heavy peals of T at 10 p.m., and for about two hours afterwards a magnificent display of sheet L.—*Rendlesham Hall* (IV). TS.—*Bedworth Cemetery* (VI). TS.—*Southport, Hesketh Park* (VIII). Max. temp. 80°·7, the highest in May since 1884. TS in evening.—*Bolton, The Park* (VIII). T and L.—*Seathwaite Vicarage* (VIII). Heavy TS.—*Ulpha Vicarage* (X). TS.—*Melmerby* (X). TS towards night.—*Melrose, Abbey Gate* (XII). T and L.—*Edinburgh, Blacket Place* (XIII). Vivid L from 10 p.m. to 11 p.m.—*Miltown Malbay* (XX). T and L.

30th.—Seven sheep killed by L at *Lambden Greenlaw, Berwick*, a horse at *Reston*, and a cow at *Westruther* were also killed.

30th and 31st.—*Ketton Hall* (VII). T and L.

31st.—*Easton-on-the-Hill* (III). T and L.—*Findern, The Longlands* (VII). Halos and three mock moons from 9 p.m. to 11 p.m.—*Pool Quay Vicarage* (XI). Partial drought for 30 days, ended.—*Dalnaspidal* (XVI). T and L.

JUNE.

1st.—*Birchington, Thor* (II). T and L.—*Easton-on-the-Hill* (III). T and L.—*Horncastle, Hemingby* (VII). TS in morning.—*Killarney, Woodlawn* (XX). At 6.20 p.m. ·32 in. of R was measured; nearly all of which fell in 20 minutes.

1st.—There were violent TSS in several parts of *Essex*, between 3 and 4 p.m., with, in some cases, heavy R. A whirlwind passed over *Maldon* wrecking a builder's shed and carrying 15 of the sheets of corrugated iron roofing (10 ft. × 2 ft. 3 in.) "so high in the air that they looked like tiles." The roofs were stripped from several buildings, and one house had both its attic windows blown in.

2nd—19th.—*Chiddington* (II). Absolute drought for 17 days.

2nd—21st.—*Clifton, Pembroke Road* (VI). Absolute drought for 20 days.

3rd.—*Itchen Stoke Rectory* (II). In just under an hour ·78 in. of R fell. It was very dark, but no T was heard.

10th—17th.—*Dalnaspidal* (XVI). S, sleet and frost.

12th.—Three labouring men were walking along a rather exposed road at *Helpsingham*, near *Sleaford, Lincoln*, in the evening, when all were struck down by a flash of L; a man following them saw them

fall. One of the three was killed, his clothes being burst off in all directions ; the other two were much injured, but not fatally.

13th.—*Newcastle* (X). Sharp frost ; the fields were covered with rime, potato haulms were blackened, and a good deal of damage was done to vegetation generally.—*Drumnadrochit* (XVIII). Severe frost, bracken and potatoes blackened.

14th.—*Findern, The Longlands* (VII). Sharp frost, cutting potatoes.—*Burnley, Gawthorpe Hall* (VIII). Sharp frost, cutting down potatoes, peas, and beans.—*Pool Quay Vicarage* (XI). Frost on ground.

14th.—TS at *Bungay, Suffolk*—a cottage struck and the inmates damaged.

14th and 15th.—*Southport, Hesketh Park* (VIII). Sharp frost on grass, doing much damage to crops.—*Abergwesyn Vicarage* (X). Frost.

15th.—*Cheltenham, Southam Villa* (VI). Sharp ground frost.—*Chelford, Astle Hall* (VIII). Sharp frost, killing many plants.—*Seathwaite Vicarage* (VIII). Sharp frost, damaging potatoes and bracken.—*Burgh by Sands Vicarage* (X). Potatoes, French beans and marrows cut by frost.—*Carrigaholt* (XX). Some heavy heat drops fell about midday, when a number of small fishes, about $1\frac{1}{2}$ inches long, fell in the pleasure ground.

15th and 16th.—*Bolton, The Park* (VIII). Hoar frost.

17th and 18th.—*Abergwesyn Vicarage* (X). Frost.

18th.—*Dalnaspidal* (XVI). T, L, H and R.

19th.—*Bolton, The Park* (VIII). Hoar frost.—*Edinburgh, Blacket Place* (XIII). TSS. ·53 in. of R fell in 39 minutes, of which ·40 in. fell in 21 minutes.—*Stronvar* (XVI). T from 11 a.m. to 1 p.m.—*Ballinluig* (XVI). TS.—*Forres* (XVII). T and L.

The above-mentioned rain caused the death of two men who were in the Edinburgh sewer and were carried away by the rush of water. There was also damage by L in other parts of Scotland. In Edinburgh, the Guthrie Memorial Church was struck and ignited ; at Alloa, a factory chimney was demolished and two other buildings were injured ; at Clackmannan, the church was struck, and so was the observatory on Ben Nevis.

20th.—*Birchington, Thor* (II). T and L.—*Rendlesham Hall* (IV). T.—*Balbriggan, Laragh* (XXI). T and L.

21st.—*Chester, Christleton Hall* (VIII). TS and heavy R from 3.30 p.m. to 5 p.m. A waterspout seen off Walmer at 1 p.m.

24th.—*Oxford, Elsfield* (III). Partial drought for 58 days, with ·33 in. of R, ended.

25th.—*Weobley, Dilwyn* (VI). Partial drought for 59 days, with ·58 in. of R ended.—*Milton Malbay* (XX). L.

26th.—*Finchley, Etchingham Park* (I). T between 3 p.m. and 4 p.m., and L in W. about 10.15 p.m.—*Hungerford, Kintbury* (II). Violent TS; an oak in the garden struck by L.—*Abingdon, Boar's Hill* (III). Violent TS, with heavy R and H, the latter as large as filberts; 1·30 in. fell in one hour, from 2.10 p.m. This R terminated a partial drought of 59 days, with ·29 in. of R.—*Oxford, Magdalen College* (III). Terrific TS from 1.30 p.m. to 3 p.m., and heavy T and vivid L again in evening—*Oxford, St. Giles* (III). TS from 2 p.m. to 5.45 p.m., and a severe one at 9 p.m. A marquee struck by L at *Headington Hill*, and a tree at *Yarnton*.—*Bloxham Grove* (III). TS.—*Swaffham* (IV). Severe TS.—*Marlborough* (V). Terrific TS, 2·71 in. of R fell between 3 p.m. and 3.50 p.m.—*Mildenhall* (V). R, ·97 in. in half-an-hour.—*Wickwar Rectory* (VI). R, 1·71 in. in two hours.—*Cheltenham, Southam Villa* (VI). TS.—*Ross, The Graig* (VI). The hottest night but one recorded in June, min. 62°5.—*Bodenham Vicarage* (VI). The severest TS remembered, raged all the afternoon. A house was fired, and a tree struck by L.—*Weobley, Dilwyn* (VI). The heaviest R on record, 1·77 in. falling in about 4 hours, and ·86 in. in about 20 minutes.—*Pembridge, Marston* (VI). Bad TS.—*Ludlow, Ashford* (VI). Severe TS. T very loud and incessant for about 3 hours, most of the R (·88 in.) fell between 2.45 and 5.15.—*Middleton-in-Chirbury* (VI). TS.—*Diglis Lock* (VI). Terrific TS between 4 p.m. and 5 p.m., 2·75 in. of R falling in the hour.—*Worcester, Belmont Road* (VI). TS, with 2·26 in. of R in about an hour-and-a-half. T and L almost continuous for 2 hours.—*Ketton Hall* (VII). Very heavy TS, ·55 in. of R fell in about 40 minutes, accompanied by very large H stones.—*Findern, The Longlands* (VII). TSS from 5.30 p.m. to 7 p.m.—*Chesterfield, Linacre Reservoir* (VII). Severe TS.—*Malpas, Edge Hill* (VIII). The most severe TS experienced in 70 years commenced about 4 p.m., and it is estimated that more than 1,000 flashes of L occurred before 5 p.m., soon after which the storm ceased; within a mile 15 oaks and 1 ash were struck. At *Thorneycroft Hall* 2·40 in. of R fell in less than an hour.
Eccleston (VIII). TS and heavy R, 1·48 in. falling between 3.15 p.m. and 5.30 p.m.—*Macclesfield, The Park* (VIII). The most violent TS remembered. 2·37 in. of R fell in three hours from 2·45 p.m.—*Bolton, The Park* (VIII). Severe TS from 3 p.m. to 7.30 p.m.—*Rochdale, Deeplish Hill* (VIII). R 1·87 in., of which 1·38 in. fell

between 5.20 p.m. and 6.20 p.m. during a TS ; probably all of the 1·87 in. fell in an hour-and-three-quarters.—*Rochdale, Fieldhead* (VIII). TS, and 1·61 in. of R in 55 minutes.—*Southport, Hesketh Park* (VIII). TS in evening.—*Meltham, Harewood Lodge* (IX). Very severe TS, with the most torrential R recorded in 15 years. In 25 minutes, from 4.40 p.m., 1·13 in. fell with H stones half-an-inch in diameter ; at *Slaithwaite*, 3 miles N.W., they are said to have been large enough to cover a crown piece. At *Royd Edge*, nearly a mile S.S.W., the fall was barely half as much.—*Sowerby Bridge, Haugh End* (IX). Violent TS, 3·61 in. of R fell between 4 p.m. and 6.30 p.m., and immense damage was done.—*Halifax, Public Library* (IX). Between 4.30 p.m. and 7.30 p.m. 3·04 in. of R fell.—*Leeds, Methley Park* (IX). TS.—*Hebden Bridge* (IX). TS, with an inch of R in one hour.—*Knaresborough, Farnham* (IX). Severe TS.—*Middleton-on-the-Wolds* (IX). R 1·83 in., of which 1·73 in. fell from 5.30 p.m. to 9.30 p.m.—*Thixendale* (IX). Heavy TS from 5·30 p.m. to 8 p.m. Ewe and lamb killed by L.—*Baldersby* (IX). TS.—*East Layton* (IX). Severe TS.—*West Hartlepool* (X). Very heavy TS.—*Knighton, Ystrad House* (XI). Between 2 p.m. and 6 p.m. one of the heaviest TSS remembered. The storm was divided into two parts, from 2 p.m. to 3.50 p.m. and from 5.10 p.m. to 6 p.m. In the first fall no less than 2·38 in. of H and R fell ; in the second 1·01 in., making a total of 3·39 in. in four hours.—*Churchstoke, Mellington Hall* (XI). TS, with torrential R and H, the storm began at 2 p.m. and ceased at 4 p.m., 4·80 in. of R having fallen in the 2 hours. Two horses were killed and 7 trees struck in the Home Park.—*New Galloway, Glenlee* (XII). T and L.—*Colmonell* (XIV). T and L.—*Glasgow, Queen's Park* (XIV). T.—*Craigend Castle* (XV). T, L and H.—*Inverary, Newtown* (XV). T.—*Stronvar* (XVI). T and L from 3.30 p.m. to 5.30 p.m., with H at 5 p.m.—*Coupar Angus* (XVI). Severe TS, with 1·59 in. of R in three hours, during which there was incessant L.—*Dalnaspidal* (XVI). T, L and R.—*Forres* (XVII). T and L between 4 p.m. and 5 p.m., and severe TS between 7 p.m. and 8 p.m.—*Invershin* (XIX). T.—*Watten* (XIX). TS in evening.—*Cork, Clarence Place* (XX). Distant T and L.—*Killarney, Woodlawn* (XX). TS.—*Caher, Duneske* (XX). T. 26th.—*Worcester*. Heavy TS, several buildings damaged. At *Burton-on-Trent*, violent TS about 5 p.m. ; many buildings struck by L and damage also caused by great R. At *Malpas, Cheshire*, violent TS with H and heavy R ; at *Crewe*, factory and other chimneys struck, and H as large as marbles fell. At *Macclesfield* many sewers burst and

houses were flooded 3 feet deep. Two houses and a flagstaff were struck by L. *Harpurhey, Manchester*. Six men were overtaken in a sewer and washed off their feet ; all were recovered, but all were more or less damaged, and one had his arm broken. Two miners were killed by L near *Normanton, Yorks.* About 5 p.m., a TS burst over *Sheffield*, and much damage was done both by L and by flooding. At *Wakefield*, the Bishop's house was struck. At *Halifax*, one house was struck by L and much damage done by flooding. Several stacks struck by L at *Pontefract*, and the gable end of the hotel at *Purston* knocked out. *Hull*. Violent TS at 7 p.m., several buildings struck. *Leeds*. Cottage at *Armley* struck by L. At *Darlington*, about 5 p.m., five men were sheltering under a tree which was struck ; two of the men were killed and the others injured. At *Portlaw, Waterford*, a man was killed by L.

26th and 27th.—*Easton-on-the-Hill* (III). T, L, H, and R.—*Diss* (IV). Distant TSS.—*York, Burton Croft* (IX). L, T, and heavy R.—*Middleton-on-the-Wolds* (IX). R 4·02 in.

26th—28th.—*Balbriggan, Laragh* (XXI). T and L.

26th—30th.—*Chelford, Astle Hall* (VIII). TSS daily, exceptionally severe on 26th lasting from 3 p.m. to 7 p.m.—*Frodsham, Dunsdale* (VIII). T daily.

27th.—*St. Albans, The Grange* (III). Partial drought for 35 days, with 33 in. of R, ended.—*Hedsor* (III). Partial drought ended ; 61 days with 44 in. of R.—*Pitsford, Sedgebrook* (III). TS.—*Ketton Hall* (VII). T and L.—*Spilsby, Hagnaby Priory* (VII). TS.—*Middleton-on-the-Wolds* (IX). R 2·19 in., of which 2·00 in. fell between 1.30 p.m. and 2 p.m.—*Scots Gap, Rothley Lake* (X). Very heavy R, more like a waterspout, accompanied by violent T and L ; 3·25 in. fell in three-and-a-half hours ending 6.30 p.m. This house was flooded.—*Llanvihangel Court* (XI). Partial drought for 63 days, with 55 in. of R, ended.—*Gresford, Trewythen* (XI). R 1·73 in., nearly all in 45 minutes.—*Melrose, Abbey Gate* (XII). T, L, and R.—*Fermoy, Gas Works* (XX). T.—*Kilkenny, Sion Villa* (XXI). T and heavy R all afternoon.

27th and 28th.—*Bolton, The Park* (VIII). TSS.—*Leeds, Elmet Hall* (IX). TSS.—*Lilliesleaf, Riddell* (XVI). TSS.

28th.—*Ross, The Graig* (VI). Partial drought for 58 days, with 47 in. of R, ended. The driest corresponding period since 1844, when the drought terminated on June 25th, after lasting 100 days.—*Glasgow, Queen's Park* (XIV). T and R.

28th and 29th.—*Rendlesham Hall* (IV). T.

29th.—*Clifton, Pembroke Road* (VI). About 5.10 p.m. there was sudden darkness and a tremendous squall of R and wind with distant T; about .40 in. of R fell in 10 or 15 minutes.—*Cheltenham, Southam Villa* (VI). TS.—*West Bromwich* (VI). In one hour .40 in. of R fell.—*Edinburgh, Blacket Place* (XIII.). TS.—*Colmonell* (XIV). T and L.—*Inverary, Newtown* (XV). T.—*Stronvar* (XVI). T and L from 3 p.m. to 5 p.m.—*Dalnaspidal* (XVI). T, L and R.—*Invershin* (XIX). T.—*Fermoy, Gas Works* (XX). T.

29th and 30th.—*Kilkenny, Sion Villa* (XXI). T.

30th.—*Lexden, Home Farm* (IV). Partial drought for 64 days, with .60 in. of R, ended.—*Scarborough, South Cliff* (IX). In 27 minutes, during a TS, .75 in. of R fell.—*Llanvihangel Court* (XI). Slight TS.—*Ballinluig* (XVI). TS and H.

JULY.

1st.—*Kensington, Addison Gardens* (I). TS.—*Hythe* (II). T.—*Tavistock, Rose Villa* (V). TS and heavy R.—*Bolton, The Park* (VIII). T and L at 5 p.m.—*Southport, Hesketh Park* (VIII). L and T.—*Ulpha Vicarage* (X). TSS.—*Eskdale* (X). TS.—*Stronvar* (XVI). T and L 6 to 7.30 p.m.—*Broadford, Hurdlestow* (XX). T.

1st and 2nd.—*Uldale Rectory* (X). TSS.—*Edinburgh, Blacket Place* (XIII). TSS.—*Craigend Castle* (XV). T and L.

2nd.—*Capel* (II). TS.—*Easton-on-the-Hill* (III). T and L.—*Lexden, Hill House* (IV). Partial drought for 51 days with .46 in. of R ended.—*Kirkpatrick Durham, Glenlair* (XII). TS, a tree struck.—*New Galloway, Glenlee* (XII). T and L.—*Lesmahagow* (XIV). Much L and T all round and much H, the stones truncated cones $\frac{3}{4}$ inch diameter at bottom, $\frac{1}{8}$ inch at top and $\frac{5}{8}$ inch high, perfectly clear ice.—*Blairingone Manse* (XVI). TS with large H and heavy R, the ground white for several hours.—*Ballinluig* (XVI). TS.

3rd.—*Spilsby, Hagnaby Priory* (VII). TS.

3rd and 4th.—*Bury St. Edmunds, Orchard Street* (IV). TSS.

11th.—*Broadford, Hurdlestow* (XX). T and L at 9.30 p.m.

17th.—*Bishops Cannings* (V). Much T.

18th.—*Farnham, Bourne Vicarage* (II). R began about 8.30 p.m. and at 9 a.m. 1.16 in. was measured.—*Emsworth, Redlands* (II). R 1.32 in. from 7 p.m. to about midnight.—*St. Albans, The Grange* (III). TS followed by H about 1.30 a.m. (19th); R 1.25 in.—*Berkhamstead, Rosebank* (III). Between 7.30 p.m. and 8 a.m. on 19th 1.27 in.

of R fell, or nearly as much as in the previous 12 weeks; exactly ·70 in. was deposited during the hour ending 0·30 a.m. and ·29 in. in 15 minutes ending midnight.

18th and 19th.—*Kensworth* (III). From 8.45 p.m. to 1.15 a.m. 1·70 in. of R fell.

19th.—*Capel* (II). TS.—*Oxford, St. Giles'* (III). T, H and R.—*Pitsford, Sedgebrook* (III). TS.—*Diss* (IV). S.W. gale at midday.—*Tavistock, Rose Villa* (V). TS and 1·19 in. of R.—*Liskeard, Wadeland Terrace* (V). TS at 11 a.m. and ·70 in. of R.—*Stowell Rectory* (V). Violent TS with ·57 in. of R between 11 a.m. and 1 p.m.—*Cheltenham, Southam Villa* (VI). T and H.—*Alcester, Ragley Gardens* (VI). Heavy H storm at midday damaging apples—*Meltham, Harewood Lodge* (IX). Very heavy R, ·48 in. in 26 minutes.—*Leeds, Elmet Hall* (IX). TS.—*Thixendale* (IX). Terrific T and L.—*Broadford, Hurdlestow* (XX). T and L at 5 p.m.

20th.—*Birchington, Thor* (II). Heavy S.W. gale.

21st.—*Kensington, Addison Gardens* (I). TS.—*Capel* (II). TS.—*Dorking, Abinger Hall* (II). Heavy showers with vivid L and T.—*Pirbright Camp* (II). In two hours ending 11 a.m. ·50 in. of R fell.—*Hedsor* (III). TS.—*Easton-on-the-Hill* (III). T, L, H and R.—*Abington Pigotts* (III). Between 9 a.m. and noon ·80 in. of R fell.—*Grays* (IV). In one hour ·50 in. of R fell.—*Woodbridge, The Cedars* (IV). Between 11 a.m. and 1 p.m. ·99 in. of R fell.—*Cheltenham, Southam Villa* (VI). TS.—*Ross The Graig* (VI). T and L at 2.30 p.m.—*Ketton Hall* (VII). T and heavy R at 3 p.m.—*Chester, Christleton Hall* (VIII). H storm from 2.40 p.m. to 3 p.m. doing much damage to foliage.—*Bolton, The Park* (VIII). T and L at 1 p.m.—*Southport, Hesketh Park* (VIII). L and T.—*Meltham, Harewood Lodge* (IX). TSS.—*Knaresborough, Farnham* (IX). Heavy TS.—*Sunderland, W. Hendon House* (X). Between 2.9 p.m. and 4.15 p.m. 1·38 in. of R fell, at least an inch falling in 41 minutes ending 2.50 p.m.—*Lesmahagow* (XIV). L and T.—*Belfast, Springfield* (XXIII). Continuous T and L for nearly 5 hours and 1·17 in. of R between 10 a.m. and 11 a.m.

21st and 22nd.—*Rendlesham Hall* (IV). T.

22nd.—*Tenterden* (II). TS.—*Hythe* (II). TS with H.—*Odsey* (III). TS and H.—*Diss* (IV). Sharp TS in early afternoon.—*West Bromwich* (VI). In 10 minutes ·15 in. of R fell.—*Spilsby, Hagnaby Priory* (VII). TS.—*Leeds, Elmet Hall* (IX). TS.—*Edinburgh, Blacket Place* (XIII). At 11 a.m. ·06 in. of R fell in two minutes.

23rd.—*Hedsor* (III). TS.

23rd—25th.—*Miltown Malbay* (XX). Continuous R 2·30 in.

24th.—*Broughton-in-Furness* (VIII). The springs began to rise after the great drought.

24th—27th.—*Nun Monkton* (IX). High flood.—*Loch Maddy* (XVIII). Continuous easterly gale.

25th.—*Birchington, Thor* (II). T and L.—*Broughton-in-Furness* (VIII). T and 2·42 in. of R.—*Meltham, Harewood Lodge* (IX). TS from 4 p.m. to 6 p.m. and at midnight and much R after; 2·38 in. in 24 hours.—*Wakefield, Walton Hall* (IX). R 2·32 in.; the greatest fall in 20 years.—*Wakefield, Stanley Grange* (IX). Five severe TSS between 8 a.m. and 10 p.m., R 2·15 in. In 6 minutes ending 8·13 p.m. 35 in. fell.—*Oughtershaw Hall* (IX). Exceptional R, 3·23 in. in 24 hours.—*Aysgarth Vicarage* (IX). R 2·97 in., the heaviest fall ever recorded in summer, causing heavy floods on 26th which carried away many acres of hay.—*Forcett Park* (IX). The wettest day on record; R 2·15 in.—*Witton-le-Wear, Witton Tower* (X). R 2·33 in.; the greatest fall in 24 hours during 12 years.—*Penrith, Edenhall Vicarage* (X). R 1·70 in., the heaviest fall since the record began in 1884.—*Carlisle, Rose Castle* (X). R 1·75 in., the heaviest fall in 4 years, and 1·09 in. fell on the following day.—*Irongray, Drum Park* (XII). In 24 hours 2·50 in. of R fell.—*Melrose Asylum* (XII). R 1·65 in. a fall exceeded only twice in 14 years.

25th and 26th.—*Grange, Pit Farm* (VIII). Heavy thunder showers. In 24 hours ending at 8 p.m. on the 26th 4·02 in. fell.

From 8 p.m. 25th to 8 a.m. 26th	...	1·69 in. fell.
„ 8 a.m. 26th to 1·35 p.m. 26th	...	·69 „
„ 1·35 p.m. 26th to 1·55 p.m. 26th	...	1·25 „
„ 2 p.m. 26th to 2·8 p.m. 26th	...	·34 „

Very vivid L accompanied the two latter storms.

25th—27th.—*Edinburgh, Blacket Place* (XIII). In 44 hours 2·81 in. of R fell.

26th.—*Hythe* (II). T L and R.—*Chelford, Astle Hall* (VIII). Heavy TS in evening.—*Bolton, The Park* (VIII). T and L at 9 p.m.—*Cartmel Fell Vicarage* (VIII). Severe TS from 1·30 p.m. to 2·30 p.m. with 1·50 in. of R in the hour.—*Seathwaite Vicarage* (VIII). TS.—*Ackworth, Nostell Priory* (IX). Heavy T showers; R 2·70 in.—*Scarborough* (IX). TS and ·76 in. of R in 27 minutes.—*Uldale Rectory* (X). T and heavy R 1·22 in.—*Melmerby* (X). Heavy TS.—*Cork, Clarence Place* (XX). Much L at night.—*Miltown Malbay* (XX). L.

26th and 27th.—*Melrose, Abbey Gate* (XII). R 3·05 in. in two days and T and L on the 27th.

26th—28th.—*Lilliesleaf, Riddell* (XII). Very heavy and continuous R, 2·86 in.

27th.—*Leeds, Elmet Hall* (IX). TS.

AUGUST.

1st.—*Emsworth, Redlands* (II). Solar halo at 2 p.m.

1st—14th.—*Chiddingfold* (II). R for 14 consecutive days.

2nd.—*Lyss, Lingwood* (II). T and L.—*Pitsford, Sedgebrook* (III). TS.—*Easton-on-the-Hill* (III). T and L.—*Diss* (IV). TSS from S.—*Ashburton, Druid House* (V). T and heavy shower at 1 p.m.—*Tavistock, Rose Villa* (V). TS at noon.—*Nottingham, Beeston Fields* (VII). TS at 3 p.m.—*Llandover* (XI). H.

3rd.—*Odsey* (III). TS and H.—*Glastonbury, High Street* (V). R 1·73 in.—*Buncrana, Rockfort* (XXIII). R 1·69 in., the largest fall in 24 hours ever recorded at Buncrana.

4th.—*Finchley, Etchingham Park* (I). L and T between 5.30 p.m. and 6 p.m.—*Oxford, Mag. Coll.* (III). TS at 2 p.m.—*Rendlesham Hall* (IV). T and L.—*Clifton, Pembroke Road* (VI). TS at 7 p.m.—*Knaresborough, Farnham* (IX). T and L.

4th.—Between 3 and 4 p.m., a species of waterspout burst over the hills above *Callaly Castle, Northumberland*, causing a sudden flooding of the upper parts of the *Aln* and the *Coquet*, and the tearing up of some of the roadway and the flooding of much more.

5th.—*Pawston [Coldstream]* (X). R 1·90 in., the heaviest fall in 24 hours since September 14th, 1880 when 2·57 in. fell.—*Lilliesleaf, Riddell* (XII). T and heavy R.—*Watten* (XIX). Heavy and prolonged TS to the W.

6th.—*Ealing, Fennymere* (I). In two hours, .96 in. of R fell.—*Wallington* (II). TS.—*Birchington, Thor* (II). T and L.—*Sheppey, Leysdown* (II). TS.—*Manor Park, Albany Road* (IV). T and L.—*Edinburgh, Blacket Place* (XIII). T.—*Stronvar* (XVI). T at 2 p.m.—*Cork, Clarence Place* (XX). In ten minutes, 1·13 in. of R fell.

7th.—*Penzance, Trevean* (V). Heavy T shower about 1.30 p.m., .52 in. of R fell in 10 minutes.

8th.—*York, Bootham* (IX). Slight TS at mid-day.

9th.—*New Galloway, Glenlee* (XII). T and L.—*Lesmahagow* (XIV). Heavy TS.

10th.*—*Finchley, Etchingham Park* (I). Almost incessant L between 9.25 p.m. and 9.50 p.m., but very little T.—*Capel* (II). L and T.—*Wallington* (II). TS and heavy R.—*Tenterden* (II). TSS.—*Hythe* (II). Sharp TSS; 16 in. of R fell in 25 minutes from 4.20 p.m.—*Birchington, Thor* (II). T and L.—*Sheppen, Leysdown* (II). TS.—*Emsworth, Redlands* (II). T and L, 8 to 9 p.m.—*Lyss, Lingwood* (II). Stormy, with intermittent sheet L in the evening.—*St. Albans, The Grange* (III). TS 9 p.m. to 10.30 p.m., R 95 in.—*Welwyn, Datchworth Rectory* (III). Violent TS with torrents of R.—*Bloxham Grove* (III). T and L at 9 p.m.—*Pitsford, Sedgebrook* (III). TSS.—*Manor Park, Albany Road* (IV). TS at 10 p.m.—*Rendlesham Hall* (IV). T and L.—*Diss* (IV). TS from S.W. in evening.—*Horncastle, Hemingby* (VII). TSS in night.—*York, Bootham* (IX). Prolonged rather than heavy TS from 8 p.m. to 10.30 p.m.—*Douglas, Victoria Road* (XI). A succession of violent TSS with strong N.E. winds and torrential R between 7 p.m. and 11.30 p.m.; R 2·05 in.—*New Galloway, Glenlee* (XII). T, L and 1·67 in. of R.—*Melrose, Abbey Gate* (XII). L.—*Colmonell* (XIV). L.—*Broadford, Hurdlestow* (XX). TS at 6 p.m.

10th—13th.—*Dalnaspidal* (XVI). T and L daily.

11th.—*Diss* (IV). Heavy S.W. Gale.—*Melrose, Abbey Gate* (XII). T.—*Glasgow, Queen's Park* (XIV). TS.—*Stronvar* (XVI). T from 11.45 a.m. to 7.30 p.m., and 1·41 in. of R.

12th.—*Diss* (IV). H, L, and T at mid-day.—*Swaffham* (IV). TS.—*Belfast, Springfield* (XXIII). In three-quarters-of-an-hour 88 in. of R fell.

12th—14th.—*Rendlesham Hall* (IV). T daily, and L also on the 14th.—*Invershin* (XIX). T and heavy R.

13th.—*Maidenhead, Castle Hill House* (II). TS.—*Hawkedon Rectory* (IV). A passing TS in a rainy day, only three loud claps of T, but the church tower was struck and the L, when it left the tower, made a hole in the churchyard about six inches in diameter and 18 inches deep.—*Diss* (IV). Heavy R, 1·50 in. fell between 1.15 p.m. and 4.45 p.m.—*Salhouse* (IV). R 2·26 in., being the greatest fall on any day in 25 years, 1·50 in. fell in rather less than two hours ending 7 p.m.—*Worstead* (IV). R 2·75 in., the wind backing from S. to N.—*Forres* (XVII). T.

13th and 14th.—*Glasgow, Queen's Park* (XIV). T.—*Stronvar* (XVI). T.

14th.—*York, Bootham* (IX). TS.—*Thixendale* (IX). Very heavy

* See also *Met. Mag.*, September, 1895, p. 117.

TS.—*East Layton* (IX). Violent TS.—*Irongray, Drum Park* (XII). In 50 minutes 1·30 in. of R fell.—*Edinburgh, Blacket Place* (XIII). TS.—*Watten* (XIX). T.

14th.—Excessive R in *Annandale, Dumfriesshire* flooding roads and fields, and stopping traffic on the Caledonian Railway at *Nethercleugh*.

17th.—*Bedworth Cemetery* (VI). L.

20th.—*Pitsford, Sedgebrook* (III). TS.

21st.—*Oxford, Mag. Coll.* (III). Heavy TS in night.—*Swaffham* (IV). TS.—*Fairford, Kempsford* (VI). Remarkable H storm, ·81 in. falling in about 20 minutes. The storm did not extend more than a mile in breadth and travelled from S.W. to N.E.—*Worcester, Diglis Lock* (VI). TSS.—*Horncastle, Hemingby* (VII). TS in night.

21st and 22nd.—*Finchley, Etchingham Park* (I). TSS with 1·16 in. of R in 15 hours.—*Playden, Springfield* (II). Long continued TS.—*Odsey* (III). TSS.

21st to 23rd.—*Easton-on-the-Hill* (III). T. and L.

22nd.—*Ealing, Fennymerne* (I). In one hour ·90 in. of R fell.—*Maida Vale* (I). TSS.—*Hampstead, Branch Hill* (I). TS in morning, with ·32 in. of R, and a severe storm in evening, with ·74 in. Ball lightning is believed to have fallen through a tree at the corner of *Heath Street* and *Elm Row*, bursting with a tremendous crack before reaching the ground. Some branches and leaves were scorched.—*Barnet, Dancers Hill* (I). The most severe TS remembered, the L for a time so frequent that it was difficult to count the flashes. A fine Turkey oak was splintered from top to bottom, and splinters of wood 12 feet long were hurled 30 feet to 40 feet from the tree; 4 other oaks and an elm, within a radius of one mile, were also struck, but not so much shattered.—*Chiddingtonfold* (II). Terrific TS from 7.45 p.m. to 8 p.m.; the L intensely brilliant, but very little R; awful T about 7.50 p.m. and 7.52 p.m., the latter only half-a-second after a blinding flash.—*Capel, The Cottage* (II). Destructive TSS.—*Dorking, Abinger Hall* (II). Severe TSS in morning and evening,—*Wallington* (II). TS.—*Pirbright Camp* (II). TS, L very vivid from 7 p.m. to 10 p.m.—*Birchington, Thor* (II). T and L. The church spire at *Sandwich* struck.—*Emsworth, Redlands* (II). T and L from 7 p.m. to 9 p.m.—*Hungerford, Kintbury* (II). Fearful TS, L setting fire to a barn in the village.—*Maidenhead, Castle Hill House* (II). TSS at 7 a.m. and in evening.—*St. Albans, The Grange* (III). TSS and H.—*Hedsor* (III). TSS.—*Henley, Assenton* (III). TS from 1.45 a.m. to 3.15 a.m., with 2·10 in. of R and heavy H, which broke strong glass.—*Bloxham Grove*

(III). Severe TS from 1.30 a.m. to 4.30 a.m. ; towards the latter part of the storm the L was incessant.—*Manor Park, Albany Road* (IV). T and L about 9 p.m.—*Sudbury, Friars Street* (IV). TS.—*Hawkedon Rectory* (IV). TS at 1.45 a.m., one half of the heavens being a heavy-looking thick mass, with continual fork L, yet not a drop of R, and the whole of the Eastern half of the sky quite clear and bright. The T continued for 21 hours.—*Diss* (IV). TSS from W. at 5 a.m. and in evening.—*Ross, The Graig* (VI). TS. Mean temp. above 70°.—*Bedworth Cemetery* (VI). Very vivid L and loud T at 3 a.m.—*Ketton Hall* (VII). TS at 3.30 a.m.—*Normanton-on-the-Wolds* (VII). In 7 minutes .19 in. of R fell.—*Edinburgh, Blacket Place* (XII). In 52 minutes, from 4.15 a.m., .86 in. of R fell.—*Cork, Clarence Place* (XX). L at night.

22nd and 23rd.—*Wath-on-Dearne, Chapel Street* (IX). L and T.—*Broadford, Hurdlestow* (XX). TSS.

23rd.—*Sheppey, Leysdown* (II). Distant TS.—*Rendlesham Hall* (IV). T and L.—*Wellington, Windwhistle Ho.* (V). In 10 minutes .12 in. of R fell.—*Spilsby, Hagnaby Priory* (VII). TS.—*Disley, Lyme Park* (VIII). Severe TS, with .73 in. of R in about two hours. The filter-keeper's cottage was struck by L.—*Bolton, The Park* (VIII). Slight T and L at noon.—*Rochdale, Fieldhead* (VIII). In two minutes .09 in. of R fell.—*Baldersby* (IX). TS at 7 p.m.—*Edinburgh, Blacket Place* (XIII). TS.—*Ardee, Lissrenny* (XXI). Severe TS, and 1.19 in. of R in three hours.—*Ballinrobe, Cranmore* (XXII). Between 3 a.m. and 10 a.m. 2.66 in. of R fell.

23rd and 24th.—*Hythe* (II). TSS.—*Knaresborough, Farnham* (IX). Terrific TSS. Farnham church struck.

24th.—*St. Albans, The Grange* (III). TS after noon.

26th.—*Bolton, The Park* (VIII). R 1.17 in., and floods at *Darcy Lever*.—*Cockermouth, Higham* (X). R 2.47 in., being the heaviest fall since the record began in 1864.

27th.—*Cheadle, The Heath House* (VI). In about 35 minutes, from 11.30 a.m., .55 in. of R fell.—*Normanton-on-the-Wolds* (VII). Very violent, but brief, TS.—*Findern, The Longlands* (VII). TSS.—*Bolton, The Park* (VIII). T, L and H at 5 p.m., followed by a brilliant rainbow, and by sheet L through the night.—*Wath-on-Dearne, Chapel Street* (IX). L and T.—*New Galloway, Glenlee* (XII). T.—*Caher, Duneske* (XX). L at night.

27th—29th.—*Maryport, Netherhall* (X). R 3.30 in. ; more than an inch falling on each of the three days.

29th.—*Dalnaspidal* (XVI). L.—*Blairingone Manse* (XVI). Between 3 a.m. and 3 p.m. 1·80 in. of R fell.

29th—31st.—*Douglas, Victoria Road* (XI). S.W. gale and high seas. Cross Channel steamers delayed.

SEPTEMBER.

1st.—*Bloxham Grove* (III). T.—*Llanvihangel Court* (XI). T.

3rd.—*Oxford, Mag. Coll.* (III). Slight TS in afternoon.—*Diss* (IV). T and L in afternoon.—*Bishops Cannings* (V). T from 2 p.m. to 4 p.m.—*Ashburton, Druid House* (V). T.—*Great Barrington* (VI). T and L.—*Cheltenham, Southam Villa* (VI). TS.—*Knaresborough, Farnham* (IX). T and L.

4th.—*Seathwaite Vicarage* (VIII). Slight T.

6th.—*Kensington, Edith Road* (I). TS with 1·19 in. of R.—*Abinger Hall* (II). TS.—*Dorking, High Ashurst* (II). In half-an-hour ending 5.15 a.m. ·53 in. of R fell.—*Tunbridge Wells, Etherton Hill* (II). Violent TS.—*Birchington, Thor* (II). TS at 2 a.m.—*Emsworth, Redlands* (II). L and distant T from 9 p.m. to 3 a.m. on 7th.—*Sunningdale, Lynwood* (II). R 1·57 in., all falling in a few hours.—*Broxbourne* (III). TS.—*Oxford, Mag. Coll.* (III). Heavy TS in night.—*Pitsford, Sedgebrook* (III). TS.—*Mildenhall* (V). T and L.—*Stowell Rectory* (V). TS.—*Batheaston* (V). Heavy TS in night.—*Long Ashton* (V). Heavy TS.—*Clifton, Pembroke Road* (VI). TS.—*Great Barrington* (VI). Heavy TS at night.—*Monmouth, The Hendre* (XI). TSS at night.

6th and 7th.—*Capel, The Cottage* (II). T and L.—*Colchester, Lexden* (IV). Three TSS in night with 1·03 in. of R; ·15 in. fell in 4 minutes, ·26 in. fell in 8½ minutes, and ·34 in. in 13½ minutes.—*Tavistock, Rose Villa* (V). TSS.

7th.*—*Staines, Cherry Orchard* (I). TS in the morning with 1·52 in. of R.—*London, Westbourne Grove* (I). Severe TS with continuous L.—*Muswell Hill* (I). Much L and T between 4 a.m. and 8 a.m.—*Finchley, Etchingham Park* (I). Almost continuous L between 4.20 a.m. and 5 a.m., and L and T between 7 a.m. and 8 a.m.—*Chiddingfold* (II). Tropical TS from 4.20 a.m. to 4.35 a.m., L incessant and extremely brilliant.—*Windlesham, Erlwood* (II). TS at 2.30 a.m., and 1·53 in. of R, nearly all in two hours.—*Pirbright Camp* (II). Severe TS, very vivid L all night with heavy R and H from 3.30 a.m. to 5 a.m.—

* See also *Met. Mag.*, September, 1895, p. 124.

Hythe (II). Severe TS at 2 a.m. with continuous L and heavy R, .47 in. falling in about an hour.—*Keston Tower* (II). TS with heavy R at 4.30 a.m.—*Sheppen, Leysdown* (II). TS in early morning.—*Monk Sherborne* (II). A TS broke over this place about 1.30 a.m., and the R by 9 a.m. was 2.04 in. About a mile N.W. the H was violent and the stones were very large.—*Strathfield Turgiss* (II). Between 2 a.m. and 7 a.m. 1.78 in. of R fell during a TS.—*Twyford, Haines Hill* (II). Heavy TS and very large H stones. A tree struck by L.—*Maidenhead, Castle Hill House* (II). Severe TS from 1 a.m. to 5 a.m.; 1.05 in. of R fell in less than 4 hours. Several places struck by L.—*St. Albans, The Grange* (III). TS 4.30 a.m. to 5.30 a.m.—*Slough, Upton* (III). TS and 1.21 in. of R.—*Hedsor* (III). Severe TS at night with .84 in. of R in a few hours.—*Henley, Assenton* (III). TS from 2 a.m. to 4 a.m.—*Dorchester* (III). Great TS. Heavy R and T was first heard at 3 a.m. and continued till just after 7 a.m., when 1.40 in. was measured. A chimney stack at *Burcote* was struck about 7 a.m. and the grate forced into the room.—*Bloxham Grove* (III). T, vivid L, and heavy R. .75 in. of R fell in less than an hour.—*Manor Park, Albany Road* (IV). Vivid L, T, and heavy R between 4 a.m. and 9 a.m.—*Bradwell-on-Sea* (IV). TS with H and R; 1.27 in.—*Sudbury, Friars Street* (IV). TS and heavy R in early morn.—*Ipswich, Bishop's Hill* (IV). TS.—*Rendlesham Hall* (IV). T, L, and heavy R from 5.45 to 9.30 a.m.—*Diss* (IV). Sharp but distant TS at 5 a.m.—*Alderbury* (V). TS, and 1.21 in. of R.—*Bishops Cannings* (V). TS at 2.30 a.m.—*Hamworthy* (V). Tropical TS; a tree struck and a cow killed by L.—*Wellington, Windwhistle House* (V). Severe TS.—*Cheltenham, Southam Villa* (VI). TS.

9th.—*Douglas, Victoria Road* (XI). S.W. gale from midnight on 9th, lasting 42 hours.—*New Galloway, Glenlee* (XII). Severe T and L.
Edinburgh, Blacket Place (XIII). Vivid L at night.—*Colmonell* (XIV). T and L.—*Coupar Angus* (XVI). Severe TS.—*Ballinluig* (XVI). Heavy TS from 11 p.m. till 1 a.m., the L exceptionally frequent.

10th.—*Glasgow, Queen's Park* (XIV). Great TS.—*Dalnaspidal* (XVI). T, L and heavy R.—*Forres* (XVII). T and L between 11 p.m. and 1 a.m.—*Watten* (XIX). T.

10th—30th.—*Wymondham* (IV). Absolute drought for 21 days.

11th—24th.—*Borden Wood* (II). Absolute drought.

11th—30th.—*Muswell Hill* (I). Absolute drought for 20 days.—*Finchley, Etchingham Park* (I). Absolute drought for 20 days.—*Lexden, Hill House* (IV). Absolute drought for 20 days.

12th—30th.—*Diss* (IV). Absolute drought for 19 days.—*Wetwang* (IX). Absolute drought for 19 days.

14th.—*Poole, Hamworthy* (V.) Tropical TS, with scarcely any R; a tree struck and a cow killed by L.

20th.—*Dalnaspidal* (XVI). Aurora.

20th—22nd.—*Builth, Abergwesyn Vicarage* (XI). Frost.

22nd.—*Miltown Malbay* (XX). T and L.

22nd and 23rd.—*Ashburton, Druid House* (V). L.

23rd.—*Cork, Clarence Place* (XX). Much T and L between 6 p.m. and 9 p.m.—*Killarney* (XX). L.—*Nenagh, Castle Lough* (XX). T and L.—*Broadford, Hurdlestow* (XX). T, L and R at 9 p.m.; a horse and cattle were killed, and a hay-rick was burned by L.—*Galway, Queen's College* (XXII). Much L and T from 6 p.m. to 9 p.m.

23rd and 24th.—*Llanfrechfa Grange* (XI). T and L.—*Monmouth, The Hendre* (XI). TSS at night.—*Llanvihangel Court* (XI). TSS at night.

24th.—*Chiddington* (II). Severe TS in evening.—*Emsworth, Redlands* (II). T, L and R from 9.30 p.m. to 0.30 a.m. on 25th.—*Hitchin, The Firs* (III). Max. temp. $82^{\circ}5$, the highest recorded in September since 1849, when the record began.—*Bishops Cannings* (V). L from 8 p.m. to 10 p.m.—*Clifton, Pembroke Road* (VI). TS.—*Ross, The Graig* (VI). TS from 10.55 p.m. to 11.15 p.m.—*Bedworth Cemetery* (VI). Vivid L.

25th.—*Ryde, Thornbrough* (II). T. *Blandford, Whatcombe* (V). T.—*Stowell Rectory* (V). TS at 5 a.m.

26th.—*Axminster, Great Trill* (V). Heavy TSS.—*Tavistock, Rose Villa* (V). TS.—*Ballinluig* (XVI). L.

27th.—*Kilkenny, Sion Villa* (XXI). Very bright sheet L in evening.

29th.—*Wakefield, Stanley Grange* (IX). For the week ending this date the mean max. temp. was $76^{\circ}2$, 17° above the average.

OCTOBER.

1st.—*West Bromwich* (VI). In 5 minutes 1·16 in. of R fell.—*Worcester, Diglis Lock* (VI). TSS.—*Chester, Parkgate Road* (VIII). Between midnight and 7 a.m. 1·14 in. of R fell.—*Knaresborough, Farnham* (IX). T and L.—*Baldersby* (IX). TS at 5 p.m.—*Eskdale* (X). Heavy storm of T and R.—*Ballinluig* (XVI). T.—*Invershin* (XIX). T.

1st and 2nd.—On the night of the 1st heavy TS and R in the North of Scotland and S on most of the mountains.

1st—3rd.—*Douglas, Victoria Road* (XI). S.W. gales, and 2·48 in. of R in the three days.

1st—4th.—*Dalnaspidal* (XVI). S daily.

2nd.—*Emsworth, Redlands* (II). L and distant T at 6 p.m.—*Tavistock, Rose Villa* (V). TS.—*Ashburton, Druid House* (V). L at 9.30 p.m.—*Long Ashton* (V). Heavy TS.—*Southport, Hesketh Park* (VIII). W. gale with H, L and T.—*Seathwaite Vicarage* (VIII). T, H, and cold R.—*Keswick, Shu-le-Crow* (X). First winter S on *Skiddaw*.—*Broadford, Hurdlestow* (XX). T at 10 a.m.—*Galway, Queen's College* (XXII). H and S, with heavy squalls.

3rd.—*Bolton, The Park* (VIII). T, L, and H.—*Knaresborough, Farnham* (IX). T and L.—*Uldale Rectory* (X). Heavy H and distant T.—*Monmouth, The Hendre* (XI). T at night.—*Abergwesyn Vicarage* (XI). T.—*Killarney* (XX). Swallows seen.—*Miltown Malbay* (XX). T and L.

4th.—*Rendlesham Hall* (IV). T.—*Diss* (IV). TS in afternoon.—*Long Ashton* (V). Heavy TS.

5th.—*Maidenhead, Castle Hill House* (II). Heavy R, 1·28 in. in about 10 hours.—*West Bromwich* (VI). In 15 minutes 1·15 in. of R fell.

9th.—*Emsworth, Redlands* (II). L at 10 p.m.—*Tavistock, Rose Villa* (V). L.

12th.—*Sudbury, Friars Street* (IV). Aurora.

16th.—*Birchington, Thor* (II). Strong N.W. gale.

20th—25th.—*Dalnaspidal* (XVI). S daily.

20th—27th.—*Drumnadrochit* (XVIII). S daily.

21st.—*Clifton, Pembroke Road* (VI). S covering the ground, the first fall in October for many years.—*Gloucester, Maisemore Lock* (VI). S storms.—*Ross, The Graig* (VI). S.—*Middleton, Chirbury* (VI). Boughs of trees broken by S.—*Invershin* (XIX). S on hills.

21st and 22nd.—*Monmouth, The Hendre* (XI). S.

21st—29th.—*Abergwesyn Vicarage* (XI). S daily.

22nd.—*Minsterley, Hampton Hall* (VI). Three to six inches of S on the higher ground; the ash and oak trees being still in leaf were much broken.—*Melmerby* (X). S on hills.—*Uldale Rectory* (X). Skiddaw white with S.—*Abergwngy* (XI). S about 4 inches deep.—*Douglas, Victoria Road* (XI). Hills covered with S.—*Kilkenny, Sion Villa* (XXI). Gale with S and sleet.

23rd.—*Thixendale* (IX). S.

23rd and 24th.—*Bolton, The Park* (VIII). S.

23rd—25th.—*Ulpha Vicarage* (X). S.

23rd—29th.—*Wakefield, Stanley Grange* (IX). Frost on seven consecutive nights ; a record for October.

24th.—*Wallington* (II). L between 10 p.m. and 11 p.m.—*Inverbraan* (XVI). S.

24th and 25th.—*Douglas, Victoria Road* (XI). T, L, and H.—*New Galloway, Glenlee* (XII). L.

24th—26th.—*Chelford, Astle Hall* (VIII) Heavy falls of S.—*Edinburgh, Blacket Place* (XIII). S daily.

24th—28th.—*Rhiwbryfdyr* (XI). S.—*Crossmolina, Enniscoe* (XXII). H daily.

25th.—*Ashburton, Druid House* (V). L in evening.—*Axminster, Great Trill* (V). S showers and sharp frost.—*Stowell Rectory* (V). S.—*Southport, Hesketh Park* (VIII). L, T, and H.—*Broughton-in-Furness* (VIII). S.—*Borrowdale, Grange* (X). S.—*Killarney* (XX). S, which remained on the mountains to the end of the month.—*Broadford, Hurdlestow* (XX). A little S.—*Miltown Malbay* (XX). S.—*Athlone, Twyford* (XXI). Slight S.—*Killybegs* (XXIII). Heavy S, yielding .55 in., laying for several days.

25th—27th.—*Tavistock, Rose Villa* (V). L daily.

26th.—*Cirencester, Further Barton* (VI). S.—*Ross, The Graig* (VI). S.—*Waltham le-Wolds* (VII). Nearly 3 inches of S, yielding .23 in.—*Horncastle, Bucknall* (VII), Heavy S.—*Hemingby* (VII). S, H, and R.—*Knaresborough, Farnham* (IX). S $1\frac{1}{2}$ inches deep.—*Thixendale* (IX). S.—*Uldale Rectory* (X). Two inches of S at night.—*New Galloway, Glenlee* (XII). S.—*Glasgow, Queen's Park* (XIV). One-and-a-half inches of S.—*Ballinluig* (XVI). S.—*Dunmanway, Coolkelure* (XX). Ground white with S.—*Cork, Clarence Place* (XX). S.—*Miltown Malbay* (XX). T, L, and H.

26th and 27th.—*Monmouth, The Hendre* (XI). S.—*Douglas, Victoria Road* (XI). S.—*Ennis* (XX). S showers.

26th—29th.—*Tavistock, Rose Villa* (V). S daily.

27th.—*Weston Park [Shifnal]* (VI). S.

28th.—*Capel, The Cottage* (II). L.—*Hailsham* (II). T and L.—*Lilliesleaf, Riddell* (XII). S.—*Forres* (XVII). S.

29th.—*Swaffham* (IV). S.—*Tavistock, Rose Villa* (V). Mock sun.—*Haverfordwest* (XI). Heavy H storms ; notably one at 3.10 p.m. which lasted for about half-an-hour, and covered the ground to the depth of half-an-inch. The storm was accompanied by T and L, and five waterspouts are reported to have been seen on St. Bride's Bay.

30th.—*Thixendale* (IX). Streets a sheet of ice.—*Douglas, Victoria Road* (XI). TS.

31st.—*Tavistock, Rose Villa* (V). Mock sun.

NOVEMBER.

5th.—*Hedsor* (III). S.W. gale.—*Clifton, Pembroke Road* (VI). S.W. gale.—*Llanfrechfa Grange* (XI). S.W. gale all night.—*Monmouth, School House* (XI). T, L and an inch of R.—*Monmouth, The Hendre* (XI). T, vivid L and heavy R.—*Kilkenny, Sion Villa* (XXI). Strong S.W. gale, with torrents of R from noon to 3 p.m. ·80 in. fell in the three hours.

5th.—Heavy R fell in *Bristol*, many streets flooded about 7 p.m.

5th—11th.—*Cheltenham* (VI). R 3·14 in., an amount only exceeded in two weeks during 18 years. Serious floods have frequently occurred with much less R.

6th.—*Baldersby* (IX). T and L at 4.30 p.m.—*Dowlais, Gwernllwyn* (XI). Very stormy, with 1·77 in. of R.

8th—10th.—*Coolkelure* (XX). Continuous R, yielding 3·22 in.

9th.—*Birchington, Thor* (II). Bright aurora from 7 p.m. to 9 p.m.—*St. Albans, The Grange* (III). Aurora,—*Southport, Hesketh Park* (VIII). Bright aurora.—*Edinburgh, Blacket Place* (XIII). Very fine aurora.—*Drumnadrochit* (XVIII). Grand display of aurora.

9th—16th.—*Keswick, Shu-le-Crow* (X). A continuous S.W. to W.N.W. gale, with frequent T, 6·07 in. of R falling in this time, and 2·12 in. on the 10th. The River *Greta* rose to the highest flood for some years.

10th—*Hedsor* (III). S.S.W. gale.—*Diss* (IV). Heavy S.W. gale.—*Tavistock, Rose Villa* (V). In 5 hours 40 minutes 1·05 in. of R fell, causing floods in the valleys.—*Axminster, Great Trill* (V). Heavy W.S.W. gale.—*Wellington, Windwhistle House* (V). Southerly gale; 1·40 in. of R, chiefly between 8 p.m. 10th and 3 a.m. on 11th.—*Ross, The Graig* (VI). Gale, heavy R and T.—*Llanfrechfa Grange* (XI). Heavy S.W. gale all day.—*Dowlais, Gwernllwyn* (XI). R 3·18 in.—*Tregaron Vicarage* (XI). The greatest flood for many years.—*Abergwesyn Vicarage* (XI). Very stormy, with 2·29 in. of R.—*Stronvar* (XVI). Gale and heavy R, 2·13 in.—*Ballinluig* (XVI). Very wet and stormy, 1·04 in. of R.—*Dalnaspidal* (XVI). Fog, R, sleet and S, 1·60 in.—*Drumnadrochit* (XVIII). Two peals of T at 1.10 a.m.—*Cork, Clarence Place* (XX). Great gale from S.W.

10th and 11th.—*Emsworth, Redlands* (II). S.W. gale and violent squalls.—*Douglas, Victoria Road* (XI). Violent S.E. gale from 10.30 p.m. to 0.30 a.m. 11th, the squalls of almost hurricane force.

11th.—*Capel, The Cottage* (II). T and L.—*Hythe* (II). Very violent

squall of R and H for five minutes, with L and T, at 1.45 p.m.—*Birchington, Thor* (II). Vivid L in evening.—*St. Bride's Bay, Pen-y-cwm* (XI). H and T.—*Abergwesyn Vicarage* (XI). T.—*Killarney, Woodlawn* (XX). T and L.—*Miltown Malbay* (XX). L and H.

11th and 12th.—*Broxbourne, Stafford House* (III). T.—*Tavistock, Rose Villa* (V). L and T.—*Cork, Clarence Place* (XX). T and L.

12th.—*Southport, Hesketh Park* (VIII.) L in evening.

14th.—*Pembrey, Marston* (VI). Heavy TS.—*West Bromwich* (VI). In 30 minutes 22 in. of R fell.—*Ulpha Vicarage* (X). T, L and H.

15th.—*Thixendale* (IX). Hurricane with R from S.E.

15th and 16th.—*Emsworth, Redlands* (II). S. to S.W. gale and strong squalls.—*Bloxham Grove* (III). Heavy S.W. gale with torrents of R.—*Diss* (IV). Southerly gales.

16th.—*Birchington, Thor* (II). Gale and S.—*Easton Mauduit Vicarage* (III). S.S.W. gale, doing much mischief.—*Killarney, Woodlawn* (XX). S on mountains.

16th.—*Bacup, Lancashire*. The floods are reported to have been the greatest for 20 years, and much damage was caused by floods at *Todmorden*, and in the adjoining valleys, the greatest since July 9th, 1870.

17th.—*Pitsford, Sedgebrook* (III). Squalls, with T.

23rd.—*Rendlesham Hall* (IV). H and R storms with gale all night.

24th.—*Diss* (IV). N.E. gale at night.—*Ross, The Graig* (VI). Strong N.E. gale.

24th and 25th.—*Bloxham Grove* (III). Heavy N.E. gale.

DECEMBER.

4th.—*Pirbright Camp* (II). Severe W. gale.

4th—6th.—*Meltham, Harewood Lodge* (IX). Continuous severe gale from noon on 4th to 9 a.m. on 7th. T, L and S on 6th.

5th.—*Hedsor* (III). N.W. gale.—*Easton Mauduit Vic.* (III). W.S.W. gale, very high from noon to 4 p.m.; two large trees torn up by the roots.—*Ross, The Graig* (VI). Violent W. gale.—*Nottingham, Beeston Fields* (VII). Furious W. gale.—*Brampton, Denton House* (X). L and T.—*Llanfrechfa Grange* (XI). Heavy S.W. gale.—*Drumnadrochit* (XVIII). N.W. gale with S and T.

5th—7th.—*Abergwesyn Vicarage* (XI). H daily.—*New Galloway, Glenlee* (XII). H, S, T and L.—*Watten, H.R.S.* (XIX). Gale from N. with S, H, R and sleet.

6th.—*Ashburton, Druid* (V). L in evening.—*Ross, The Graig* (VI).

Sharp H storm at 2.45 a.m.—*Chelford, Astle Hall* (VIII). Heavy gale from N.W. with R, H and S., and a TS about 3 p.m.—*Southport, Hesketh Park* (VIII). H and L at intervals.—*Doncaster, Magdalens* (IX). TS.—*Wakefield, Stanley Grange* (IX). TS accompanied by S and strong wind.—*Baldersby* (IX). Strong gale and cover of S.—*Ulpha Vicarage* (X). H, S, T and L.—*Eskdale Vicarage* (X). Severe S storms.—*Melmerby* (X). N.W. gales with S, H, T and L.—*Uldale Rectory* (X). N.W. gales with S and sleet, the ground white on 7th.—*Douglas, Victoria Road* (XI). N.W. gale and L.—*Cargen [Dumfries]* (XII). Somewhat severe S storm and T.—*Stronvar* (XVI). Gale with H, sleet and two inches of S.

6th and 7th.—*Coventry, Coundon* (VI). S.

7th.—*Ashburton, Druid* (V). S, hills white.—*Chelford, Astle Hall* (VIII). Blowing hard from N.W. with S and TSS.—*Southport, Hesketh Park* (VIII). Bright aurora.—*Douglas, Victoria Road* (XI). S, H and R all day, L in evening.—*Colmonell* (XIV). S, T and L.

12th.—*Henley, Assenton* (III). TS at 5 p.m. with heavy R and H.—*Hatfield Peverel* (IV). Heavy TS and gale.—*Colchester, Lerden* (IV). L and T in evening.—*Ashburton, Druid* (V). Heavy H and S at night.—*Cheltenham* (VI). T, L and H.—*Ross, The Graig* (VI). Violent TS with H between 3.30 and 4 p.m.—*Newport, The Castle* (XI). In 5 minutes, 41 in. of R fell.—*Llanvihangel Court* (XI). TS at 4 p.m.—*Llandovery* (XI). T, L and H.—*Abergwesyn Vicarage* (XI). H, S and T.—*New Galloway, Glenlee* (XII). Heavy H showers and L.

13th—High flood at *Cullen, Banffshire*, but not quite equal to those of December, 1855, and October, 1872, which are recorded on brass plate on *Cullen House* bridge; at *Fraserburgh*, it was higher than any flood since 1863.

16th.—*Killarney* (XX). S on the mountains

16th—31st.—*Meltham, Harewood Lodge* (IX) Absolutely sunless.

17th and 18th.—*Ashburton, Druid* (V). Torrents of R and H; and T and L on 18th. A man killed at *Brixham*.

18th.—*Kingskerswell* (V). T at 10 a.m. and 11.30 p.m.

21st—25th.—*Cork, Queen's College* (XX). In 5 consecutive days, 8.35 in. of R fell.

23rd—25th.—*Killarney* (XX). In the 3 days 4.46 in. of R fell, causing very high floods on the river *Flesk*.

23rd—26th.—*Keswick, Shu-le-Crow* (X). A fierce gale from S.E. to E.S.E.

24th.—*Aysgarth Vicarage*. (IX). Heavy S storm.

24th and 25th.—*Douglas, Victoria Road* (XI). Whole gale and tremendous sea. Mail boats stopped.

24th—26th.—*St. Albans, The Grange* (III). S daily.—*Inverary, Newtown* (XV). Great gales from E.

25th.—*Llandovery* (XI). S and H.

25th and 26th.—*Great Barrington* (VI). S.—*Ross, The Craig* (VI). Ground covered with S.—*Kilkenny, Sion Villa* (XXI). Heavy gales.

25th—26th.—Excessive floods at *Cork, Mallow, Fermoy*, and other towns in the S. of Ireland.

26th.—*Cheltenham* (VI). Ground white with S.—*Halifax, Public Library* (IX). Heavy TS.

28th.—*Meltham, Harewood Lodge* (IX). Silver thaw.—*Edinburgh, Blacket Place* (XIII). Heavy S from 1 to 4 p.m.—*Glasgow, Queen's Park* (XIV). Four inches of S.—*Stronvar* (XVI). Three inches of S.

OBSERVERS' NOTES ON THE MONTHS.

JANUARY.*

I. *Finchley, Etchingham Park.* R between 4 and 5 per cent. above the average, S on 21 days. The middle of the month was the wettest.

II. *Wallington.* Cold and sunless with R .75 in. less than the average, and no S to speak of till the end of the month. Amount of cloud the highest in ten years.—*Hythe.* A very severe month throughout.—*Keston Tower.* A very cold month with frequent S storms. Skating during the last 8 days.—*Birchington, Thor.* Snow from 1st to 12th, then R and thaw and mild up to the 22nd, followed by continuous frost to the end with frequent S.—*Lewes, Saxonbury.* S and sleet till 12th, heavy R with S.E. gale on 19th, afterwards S, and gales on 30th and 31st.—*Emsworth, Redlands.* Frost, S, and strong N.E. to S.E. winds up to the blizzard on the 12th, then hard frost and S to the end. The storm of the 12th exceeded in severity any since 1881, roads being blocked by deep drifts.—*Maidenhead, Castle Hill House.* The first part of the month was rather mild; the last part cold. A good deal of high wind, prevailing direction N.E. and S.E.

III. *Broxbourne, Stafford House.* A very cheerless month. S fell on 19 days; fog on 5 days; frost on grass every night but two.—*Slough, Upton.* Almost total absence of visible sunshine. Movement of air much above the average; S on 8 days.—*Hedsor.* Very cold except from 15th to 20th, when the weather was mild and wet. Frost on 23 nights. Frequent S.—*Abingdon, Culham.* A cold month with very sharp frosts at times and several falls of S, but of no great depth.—*Oxford, St. Giles'.* Very cold, with S nearly every day in the last week. Mean temp. $5^{\circ}4$ below the average of 7 years.—*Banbury, Bloxham Grove.* With the exception of four fine days in the first week and two in the second, the month was gloomy and overcast,

* See also *Met. Mag.*, March, 1895, p. 21; April, 1895, p. 37; May, 1895, p. 53.

with heavy falls of R and S, with driving and bitter winds. Frost on 25 days, at times severe.—*Pitsford, Sedgebrook.* R 1·08 in. more than the average of 10 years.

IV. *Sudbury, Friars Street.* A cold seasonable month with S at the commencement and end.—*Ipswich, Bishop's Hill.* A cold, typical month, with frequent small S storms. R 28 in. above the average.—*Woodbridge, The Cedars, Melton.* Very severe with frequent S storms.—*Rendlesham.* A great deal of S fell and was much drifted by strong winds and the frost was very severe, the temp. falling below 22° on 14 days.—*Diss.* Very cold and cheerless, with S on 21 days and R on 5 days. Frost frequently very severe and skating good.—*Swaffham.* The heaviest R for January in 16 years' observations, 3·20 in., the nearest approach being 2·63 in. in 1885 ; S on 13 days.

V. *Poole, Parkstone.* The coldest January since 1881. Mean temp. 34°·0 ; frost in shade on 23 days. S on 8 days, greatest depth, 6 to 8 inches, on 13th.—*Tavistock, Rose Villa.* Very wet and cold, R or S fell on every day but 4, and there were only two nights without frost on grass.—*South Petherton, Bridge.* A very cold month, especially at night, with E. winds.—*Stowell Rectory.* Cold and snowy ; mean temp. 6°·5 below average.

VI. *Clifton, Pembroke Road.* S fell on 8 days, and the ground was covered from 6th to 18th and 25th to 31st.—*Cirencester, Further Barton.* Extremely cold, with frequent light falls of S, except from the 13th to the 21st, when a slow thaw took place.—*Great Barrington.* Severe, with a large amount of S.—*Cheltenham, Southam Villa.* The coldest January since 1881 the mean temp. being 5°·3 below the average of 18 years, but many days were bright and sunny and the direct solar temp. was 9°·2 above the average. R 1·25 in. above the average, the heaviest recorded except 1886.—*Ross, The Graig.* The coldest January since 1859 excepting 1861, 1879 and 1881, the R was much heavier (3·65 in. fell in 9 days) this year than in the other cold Januaries, and the aggregate depth of S equalled that of January 1881.

VII. *Rotherby Hall.* R 3·71 in. (chiefly S), the largest fall in January since 1868 ; ·91 in. fell on 20th causing a large flood along the valley of the Wreake. Frost on 29 nights.—*Ketton Hull [Stamford].* Very wintry throughout, with heavy S on the 12th and 31st and continuous R on the 19th and 20th, which caused floods ; frost was very prevalent and severe ; garden spring (after being quite dry for six months) at the end of the month ran two gallons in

four seconds.—*Worksop, Hodsock Priory.* The coldest January since 1881 and the wettest for at least 20 years. Most of the downfall was S, but a good deal of R fell between the 18th and 20th, though the thaw was never complete and the frost soon returned.

VIII. *Bolton, The Park.* Unsettled throughout, with frequent S storms and low temp.; frost on 25 nights, and R, S or H on 24 days. Amount of bright sunshine more than usual. Mean temp. the lowest on record for January.—*Southport, Hesketh Park.* Exceptionally cold and wintry, with keen winds and much S and H. The coldest January since 1881, the mean temp. being 6° below the average of 23 years, and the absolute max. the lowest in any month since the record began in 1871; frost was registered in screen on 22 days, and on grass on 30 days. Average precipitation; total depth of S 7 inches. Lake covered with ice throughout.—*Duddon Valley, Seathwaite Vicarage.* A dryish month, with a succession of rather heavy snows and intense frosts.

IX. *Wakefield, Walton Hall.* The coldest January since 1881, and the wettest for 20 years; the R being more than twice the average.—*High Harrogate.* Bitterly cold in the first half, the frost being exceptionally severe from the 10th to 13th. Somewhat milder weather followed, with frequent R, S and fog, but frost occurred again from the 26th to the close.—*East Layton.* A real hard winter month, with frost every night.

XI. *Douglas, Victoria Road.* A bitter month, the coldest since 1881. Frost occurred almost daily, and S fell on 11 days and lay, even on the low lands, throughout the month. Strong winds prevailed, chiefly N. and N.E., reaching the force of a gale on about six days. There were, however, several brilliantly fine and almost calm days, with much sunshine and hard frost in shade. The temp. of the last week was nearly 8° below the average.

XII. *Lilliesleaf, Riddell.* A cold, snowy, disagreeable month.—*Melrose, Abbey Gate.* Extremely cold, with frost every night, and the temp. below zero three times. Mean temp. 8° below the average of 23 years.

XIII. *Edinburgh, Blacket Place.* Very cold, S falling on 10 days, but the greatest depth on ground was only 2½ inches. The absolute max., 41°, is the lowest experienced in any month during 55 years, although in February, 1855, the same low max. was recorded.

XVI. *Coupar Angus Station.* So low a mean temp. (28°0), for January, had not been experienced for over 20 years. R 49 in. less

than the average, chiefly S and sleet.—*Ballinluig*. A very cold month, S covered the ground throughout, the greatest depth being 6 inches on the 7th. Mean temp. $7^{\circ}7$ lower than that of January, 1894.

XVIII. *Loch Shiel, Glenaladale*. Very cold, with occasionally very high winds. Heavy S.—*Drumnadrochit*. S deep on the ground throughout, and the keenest frost since the winter of 1879–80.

XIX. *Scourie*. Frost and S almost the entire month.—*Watten*. One series of gales and S storms, blocking roads and ways. Keen frosts of short duration.

XX. *Cork, Clarence Place*. R an inch more than the average. A few light showers of S, and several gales. Mean temp. $5^{\circ}5$ below the average.—*Fermoy*. Very stormy, with little S and R. Hard, cold E. winds prevailed throughout.—*Castle Lough*. Latter part cold, with frost and S.—*Broadford, Hurllestown*. Cold and severe, but dry on the whole. R .83 in., and rainy days 1, below the average of 10 years. *Miltown Malbay*. Very cold and stormy. Excepting the S storm on 12th, the R and S were trifling, but the cold, intensified by stormy winds, was severe and trying.

XXI. *Ballindoney*. A wet month. S fell heavily on the 10th, 11th and 12th.—*Kilkenny, Sion Villa*. Very wet, stormy and severe throughout ; heavy falls of S, and much hard frost.

XXIII. *Belfast, Springfield*. Very variable. Severe frost till the 12th, followed by heavy S, sleet, R and frost, then occasional thaws till the 24th, and most severe frost again till the end.

FEBRUARY.*

I. *Muswell Hill*. The driest February during 23 years, with the exception of February, 1891, when no R or S fell. R only .14 in., or less than one-twelfth of the average of 23 years.—*Finchley, Etchingham Park*. R .12 in. on three days ; only about one-sixteenth of the average, and less than in any February, excepting 1891, since the gauge was started in 1886.

II. *Haslemere, Grayswood Hill*. Very dry and cold ; mean temp. $27^{\circ}5$, but the lowest temp. was 11° on the 8th.—*Abinger Hall*. One of the coldest months remembered ; on the 6th, 7th and 8th the temp. fell to 0° , 2° and 4° respectively. N. and N.E. winds prevailed.

* See also *Met. Mag.*, March, 1895, p. 21 ; April, 1895, p. 37 ; May, 1895 p. 53.

—*Reigate, Ringley Mews.* Very cold ; frost penetrated 3 feet below the surface of the ground. Min. temp. 5° on the 6th.—*Wallington.* Extraordinarily cold, apparently the coldest February since 1855. R also extremely small, being less than one-fourth of the average of five years. Humidity, max. and min. in shade, min. on grass and mean temp. all the lowest for February since the record commenced in 1885.—*Keston Tower.* The coldest month on record. The frost, which began shortly after Christmas and continued throughout January, lasted the entire month, with greatly increased severity, the ther. falling to 2° on the night of the 6th. Very little S and no R.—*Birchington, Thor.* A month to be remembered in *Thanet*. The ther. was below 32° from January 26th to February 21st, when a thaw set in. The sharpest days were the 3rd, 8th, and 10th, when the temp. fell to 10° , 6° and 9° .—*Sheppey, Leysdown.* Very cold for three weeks, but less so towards the end of the month. Frost more or less every day and night, with strong winds and gales, generally N.E.—*Lewes, Saxonbury.* The frost, which began on January 22nd, continued throughout, there being not one night without frost on grass.—*Emsworth, Redlands.* Frost, more or less severe, occurred every night except three (20th, 21st and 28th). Strong winds throughout from N.E. to N.W. Absolute drought for the first 23 days.—*Maidenhead, Castle Hill House.* Very cold, but dry. R a good deal less than the average, none falling from 4th to 17th inclusive. Wind N.E., except on 5 days.

III. *Broxbourne.* Very low temp. all the month, with frost every night. S occasionally, but no R.—*St. Albans, The Grange.* Air very dry and sky bright. R only 18 in. Mean temp. $28^{\circ}0$.—*Hedsor.* Intensely cold, and very dry. Frost on 22 nights. Mean temp. 28° .—*Culham.* A very cold month. Frost every night except 21st and 28th ; coldest from 5th to 8th. Slight S on 1st and 18th, and R only on 24th.—*Bloxham Grove.* Remarkable for the very small amount of R and for the intense frost that prevailed throughout. After the 18th the max. temp. was above freezing point, but with the exception of the 24th the min. was always below it.—*Sedgebrook.* Bitterly cold throughout. Min. temp. $2^{\circ}0$ on 8th. R 1·88 in. less than the average of 10 years.

IV. *Sudbury, Friars Street.* Very severe up to the 21st, unusually low temp. being recorded.—*Ipswich, Bishop's Hill.* Very cold, with many sharp frosts, the temp. in screen falling to 9° . R 1·88 in. less than the average, and all S or sleet.—*Woodbridge, The Cedars.* S and

frost nearly the whole month. All green vegetables and evergreen shrubs damaged or destroyed.—*Rendlesham Hall*. The coldest February remembered, with frost every night, and cold winds from N.W. to E. Min. temp. $0^{\circ}5$ on 9th.—*Denver*. Very dry and very cold. Remarkable persistence of frost, considering the power of the sun

V. *Salisbury, Alderbury*. R fell on only one day, .10 in. on 28th. The 21st was the only night with the min. temp. above 32° , and it fell to or below 20° on 15 nights.—*Bishops Cannings*. R only .26 in. on 3 days; being 1.79 in., and 11 days, less than the average. Skating from January 29th to February 26th. The ice on the canal was $8\frac{1}{2}$ inches thick; the frost had penetrated $14\frac{1}{2}$ inches in grass land, and 12 inches into garden ground.—*Wimborne Minster, Chalbury*. Rainless, but bitterly cold. Average max. temp. $32^{\circ}6$, and min. $23^{\circ}5$.—*Taristock, Rose Villa*. Fine, sunny, very dry and cold. Mean temp. $31^{\circ}7$. R .11 in. on 3 days, the least in any month during 24 years, with the exception of February, 1891. Absolute drought from 1st to 23rd. Gales caused great S drifts on *Dartmoor*, which remained all the month.—*Mamhead Rectory*. No R except a bare .01 in. on the 24th.—*Arminster, Great Trill*. Very cold and dry all through, the temp. falling to 11° .—*South Molton, East Street*. R only .23 in. on 2 days.—*South Petherton, Bridge*. Cold, with brilliant sunshine. Frost in shade on 26 nights.—*Stowell Rect.* Extremely dry and cold. Mean shade temp. ($27^{\circ}8$) $11^{\circ}5$ below the average.

VI. *Clifton, Pembroke Road*. The driest February during 39 years with the single exception of 1891 when the amount was nil. S on ground till the 22nd.—*Further Barton*. Extremely cold with intense frost till the 17th when it moderated slightly. No S after the 1st. Many sunny days and remarkably little fog. Absolute drought from 2nd to 23rd.—*Ross, The Graig*. By far the coldest February since 1855 and nearly as dry as February, 1891. R only .04 in. on 2 days of which .02 in. fell after midnight on the 28th.

Mean Max. temp. $35^{\circ}2$ $11^{\circ}0$ below the average of 34 years.
 " Min. " $19^{\circ}8$ $14^{\circ}6$ " " "

The *Wye* was frozen over and there was S on the ground most of the month. The ground was frozen to a depth of quite two feet. The 59 days ending February 28th had nearly the same mean temp. as 59 days ending January 22nd, 1891. No other period so long and severe has occurred since 1814.—*Cleobury Mortimer, The College*. Exceptionally dry and very cold.—*Market Drayton, Fern-*

leigh. R only 1·14 in. on 3 days ; 22 consecutive days were absolutely rainless.—*Stratford-on-Avon.* Rainless, but S fell on 2 days yielding 10 in. ; twice the fall of February, 1891.—*Coventry, Coundon.* For 13 consecutive days ending on 17th the temp. never rose above freezing point.

VII. *Ketton Hall.* Severe weather throughout ; the first half being the most severe remembered by old persons. The shade temp. fell below zero on four nights, three in succession. Laurels and many other shrubs killed and several large trees cracked in the solid trunk. R 1·47 in. below the average.—*Little Ponton Rectory.* The severest cold remembered, the temp. falling below zero.—*Horncastle, Hemingby.* The lowest temp. since a Stevenson screen was started in 1881 was —3°·7 on the 8th and —9°·0 on the S, the mean temp. is 11° lower than the average of 7 years. The extreme cold was accompanied by cloudless skies day and night.—*Hodsock Priory.* The coldest month for at least 20 years (mean temp. 28°·1) and the driest with the exception of February, 1891. The only other month with a mean temp. below 30° was January, 1881.

VIII. *Bolton, The Park.* The R has only once been less in February, and for dryness of air and prevalence of E. winds this month is without precedent. Mean temp. 8°·5 below the average of 8 years. R or S fell on 6 days, being about one-fifth of the average.—*Southport, Hesketh Park.* The coldest February in 24 years and with the exception of January, 1881 the coldest month during that period. Exceptionally dry throughout, and very calm. Decidedly milder during the last week but temp. below the average every day. Almost entire absence of precipitation, and atmosphere unprecedently dry and very hazy, little cloud and much sunshine. Large lake covered with ice throughout ; greatest thickness, 10 inches. Mean temp. 10°·3 below the average. Absolute max. the lowest on record at Southport.—*Hawkeshead, Esthwaite Lodge.* The deepest S (14 inches), the hardest frost (—13°), and total drought for 16 days, make this a memorable month. Mean temp. 27°·2.—*Seathwaite Vicarage.* A wintry month, with one of the most intense frosts known for years on the 7th ; on the 28th the mountain roads were still impassable for carriages owing to S drifts. Subsoil everywhere, hard frozen.

IX. *High Harrogate.* Frequent S and fog during the first week ; intensely cold from the 5th to 20th, but mostly fine and dry with bright sunshine, and the sky clear and bright till towards the end.—*Thixendale.* Very dry and bitterly cold throughout, wind chiefly E.

Average temp. 27° , min. temp. -8° .—*East Layton*. Very sharp and wintry, with very severe frost about the 8th; S lying throughout.

X. *Ulpha Vicarage*. S on ground and cold E. and N.E. winds almost all the month. Many bright days, and though the temp. was very low, the air was dry and pleasant. R only one-third of the average of 7 years.—*Uldale Rectory*. S on the ground the whole month, about 6 inches deep, and the gale on the 6th drifted it in many places six feet high and stopped up all the roads.—*Burgh-by-Sands*. Very severe, the frost being only equalled in recent years in the winter of 1860-61.—*Brampton, Denton House*. Very dry and cold; R $1\cdot25$ in. below the average of 11 years; absolute drought for 16 days. On 15 days the shade temp. did not rise above freezing point.

XI. *Llanfrechfa Grange*. Remarkably free from R or S, but steady severe frost prevailed, ice being $11\frac{1}{2}$ inches thick on a tank in the garden. Temp. below 32° at 9 a.m. till the 23rd.—*Llanvihangel Court*.—Bitterly cold, with sharp frost every night; S had barely disappeared, ice was still on ponds and frost in the ground at the end of the month.—*Morriston, Glanravon*. The driest month recorded since observations commenced in 1891; R only $\cdot12$ in. on 4 days.—*Douglas, Victoria Road*. Remarkable for the S storm on the 6th which was the heaviest within living memory. The cold was intense throughout the month, the mean temp. being little above 32° , while the seven days, 6th to 12th, were the coldest ever recorded here, the mean being $25^{\circ}\cdot7$; the min. temp. $10^{\circ}\cdot5$ in screen, and $6^{\circ}\cdot3$ on grass on the 9th, are also the lowest recorded. There was, however, a fair amount of bright sunshine.

XII. *Melrose, Abbey Gate*. The coldest February for 23 years, if not in living memory; the *Tweed* was frozen over for about three weeks affording a safe passage for skating or walking across. Mean temp. $9^{\circ}\cdot4$ below the average.

XIII. *Edinburgh, Blacket Place*. Very cold; mean temp. $31^{\circ}\cdot2$. The only colder Februaries in 132 years being those of 1838 and 1855, with mean temps. of $29^{\circ}\cdot8$ and $30^{\circ}\cdot6$ respectively.

XV. *Oban, The Corran*. The coldest month since observations commenced in 1886. For 16 consecutive nights the temp. fell to or below 32° , an unprecedented record.

XVI. *Coupar Angus*. Mean max. temp. $34^{\circ}\cdot3$, mean min. $14^{\circ}\cdot3$; mean temp. $11^{\circ}\cdot6$ below the average of 15 years. For 13 consecutive days, beginning with the 8th, the average min. was only $1^{\circ}\cdot3$. R

very small.—*Ballinluig*. Exceptionally cold, the ther. fell three times below zero between the 8th and 11th. Coal carts crossed the *Tay* on the ice on the 15th.

XVIII. *Glenaladale*. Very cold, but with beautiful sunshine throughout. Mean temp. $30^{\circ}2$.—*Loch Maddy*. Up to and including the 18th, the mean min. temp. in shade was $29^{\circ}8$; after the 18th the lowest min. recorded was 35° . The mean max. for the month was $40^{\circ}8$. The cold weather in the early part was accompanied by clear bright sunshine.—*Drumnadrochit*. The great feature of the month was the severe frost for so many consecutive days with the ther. at or below zero. R 2·29 in. less than the average.

XIX. *Scourie*. Frost and heavy S prevailed till the 21st, when a thaw set in with some R.—*Watten*. Very hard frosts with S storms, blizzards, and gales.

XX. *Dunmanway, Coolkelure*. Extraordinary prevalence of N.E., E. and S.E. winds, always bitterly cold. Cattle obliged to be housed day and night for more than three weeks. The coldest winter remembered since 1855.—*Cork, Clarence Place*. Exceptional, not so much from the low temp. as from the duration of cold weather with strong E. wind. Mean temp. $8^{\circ}3$ below the average. Six inches of S fell on 6th, and five inches on 10th, being the heaviest falls of S since February 18th and 19th, 1892.—*Waterville*. Heavy unprecedented S falls, and unusually severe weather during the first half of the month.—*Nenagh, Castle Lough*. Practically no R, only S and frost, the latter continuing almost throughout the month. The S of the 6th was drifted by a very high wind and remained in drifts to the end.—*Ballingarry, Hazelfort*. Very severe frosts, with S on ground from 1st to 23rd, six inches deep on 6th.—*Broadford, Hurdlestow*n. Dry but very cold, and S on the ground every day. R 1·27 in. and rainy days 10 below the average of 10 years.—*Miltown Malbay*. The coldest and, on the whole, wildest month remembered. The intensity of the frost exceeded that of 1855 and 1867, and was accompanied by three weeks of icy gales with three or four blizzards intermixed. Small birds died by thousands, and even the rooks and seagulls succumbed. The S fall was not heavy, and a regular thaw set in on the 27th.

XXI. *Ballindoney*. Intensely cold, frost almost every night. Great S storms between the 1st and 10th, blocking all roads.—*Rockenham*. There was a total fall of about 17 inches of S.—*Kilkenny, Sion Villa*. Very severe frosts with heavy S throughout the month; on 17th a

change set in, and, though sharp frosts continued, the warm sunshine thawed the S, which averaged eight inches deep. Skating for more than half the month.—*Athlone, Twyford.* A very severe fall of S on the 6th and 7th remained on the ground till the 21st, when a thaw set in.

XXII. *Lauderdale.* A severely cold month, with a very small R.

XXIII. *Warrenpoint.* Intense frost.—*Belfast, Springfield.* Very severe (especially from the 6th to 8th) till the 22nd, when thaw set in during the daytime, but frost continued at night. Wind mostly from N.E. to N.W.—*Buncrana, Rockfort.* Keen frost during the greatest part of the month.—*Carrablagh.* The ther. in screen fell to or below freezing point on 16 nights and on three days the max. was 32°. Such severe weather has not been known before. Gulls fed out of the hand, curlews came into the yard. There was very little wind and the weather was generally bright.

MARCH.

I. *Muswell Hill.* R ·10 in. above the average of 23 years. There were 9 consecutive dry days from the 10th to 18th, but in the 13 days from 19th to 31st R fell on all but 3.—*Finchley, Etchingham Park.* R about 5 per cent. less than the average, mostly falling in the latter half of the month.

II. *Wallington.* Stormy, but not unusually cold, and the latter part favourable for farmers. The storm on the 24th did a good deal of damage. R ·86 in. less than the average of 5 years. Duration of sunshine 112 hours.—*Sheppey, Leysdown.* Generally dry, with strong winds and gales, and marked alternations of heat and cold, especially on the 18th and 19th.—*Emsworth, Redlands.* The great frost, commencing January 23rd, broke up on March 5th, but there were slight frosts up to the 18th.—*Maidenhead, Castle Hill House.* Fairly dry and mild on the whole, with a good deal of high wind, mostly N.W. and S.W.

III. *St. Albans, The Grange.* Warm, but with cold nights; air humid.—*Hedsor.* Cold at first, with S on 2nd and 4th, then becoming slowly milder; stormy, wet and unsettled at the close.—*Culham Vicarage.* Fairly fine, without much R, and no frost except at the beginning.

IV. *Ipswich, Bishop's Hill.* R ·16 in. above the average. The first three weeks were fine and genial, but the last week was rough and

unsettled.—*Diss.* A cold, snowy first week was followed by brilliant, spring-like weather till the 23rd, inclusive, when gales and rainy weather set in.

V. *Bishops Cannings.* Frost not out of the ground till past the middle of the month. Cold and wet at the end, greatly hindering garden and farm operations.—*Stowell Rectory.* Rather damp, with temp. and R about the average. S an inch deep on 2nd

VI. *Cirencester, Further Barton.* The first half was cold, with frost every night, then a few spring-like days, followed by more or less R and wind to the end of the month. Thick ice on a rain-water tank unmelted till the 22nd.—*Ross, The Graig.* The frost, which commenced on December 30th, broke up on March 6th. During 83 days, ending March 19th, or 12 weeks, there were 77 nights with frost on grass, or only six nights without it.—*Weston Park.* At the end of the first week the frost was sufficiently out of the ground to permit ploughing, which had not been possible for ten weeks.

VII. *Ketton Hall.* Dull and showery on the whole, with cold winds. R .36 in. above the average.—*Hodsock Priory.* The long frost broke up in the first week, and the rest of the month was mild, with low bar. and S.W. winds. Very little sunshine, and not much R.

VIII. *Bolton, The Park.* R 1.46 in. above the average. Bright sunshine was registered on 19 days, but the total 51 hours is 31 hours less than the average.—*Southport, Hesketh Park.* Rather dull and damp, and notable for the transition from the great frost to normal weather. R half an inch in excess of the average, and rainy days unusually numerous.—*Seathwaite Vicarage.* Cold and rainy, patches of S remaining up to the 18th on low ground, and on the upper fells throughout the month.

IX. *High Harrogate.* Cold, with frequent frosts, S and fog till the 10th, then finer and milder during the remainder, but occasional frosts.

X. *Ulpha Vicarage.* Very chilly, wet and stormy throughout. R 3.09 in. above the average of seven years.

XI. *Llanfrechfa Grange.* Sharp night frosts till the 19th. Vegetation very backward, and shrubs showing much injury from the frost. Amount of R not unusual, but it fell mostly at the end.—*Llanvihangel Court.* The first half cold; fine from the 13th to 19th, then a few days of high temp., followed by violent gales. Cold at the end.—*Douglas, Victoria Road.* The first fortnight was still cold, and heavy continuous R, with stormy weather set in on the 19th, and prevailed

to the end, and all farming work was retarded. R the greatest in March during 21 years. Vegetation extremely backward.

XII. *Lilliesleaf, Riddell.* Cold and wet, and latterly very rainy.—*Melrose, Abbey Gate.* R 1·18 in. above the average.

XIII. *Edinburgh, Blacket Place.* Very sunless, only 65 hours bright sunshine recorded.

XVI. *Coupar Angus.* R fell sparingly (except on the 27th) on 12 days, the total being ·43 in. less than the average. Cold during the first and last weeks, but the mean temp. one degree above the average.

XVIII. *Glenaladale.* Fine, but vegetation backward.—*Loch Maddy.* A characteristic March, cold boisterous winds, with occasional H and R. Prevailing winds N.W. to N.E.—*Drumnadrochit.* R nearly three times the average of nine years, and the third greatest in any month since 1886. 2·24 in., on the 28th, is the greatest in 24 hours during the same period.

XIX. *Watten.* Cloudy, with cold northerly winds, little sunshine, and some frost at night.

XX. *Cork, Clarence Place.* R ·64 in. above the average. A heat wave passed over on 21st, the temp. rising to 63°, the highest in 12 years.—*Nenagh, Castle Lough.* The first part of the month was milder than the end, when H showers were frequent, and the wind was cold. It was not till after the middle of the month that the remains of the S storm of February 6th entirely disappeared.—*Broadford, Hurdlestow.* A fairly fine month on the whole, the first and last ten days were cold, but the remainder was mild. R ·48 in., and rainy days 6, above the average of ten years.—*Miltown Malbay.* On the whole rainy, especially after the 17th, but the early part was rather favourable to agriculture.

XXI. *Ballindoney.* One heavy fall of S on 2nd, otherwise a very rainy month. Frost on 9 days.—*Kilkenny, Sion Villa.* A stormy and cold month. Very wet for the first ten days, and again from 23rd to 27th. Fine, bright and seasonable between 11th and 22nd. Light S and H showers frequent.

XXII. *Lawderdale.* A very wet month.

XXIII. *Belfast, Springfield.* Bright, but stormy at first, with frost at night, followed by sleet, R and S, and very cold weather till the 14th, then spring-like till the 18th, and the remainder very cold, with sleet, R and occasional storms, just the reverse of spring.

APRIL.

I. *Muswell Hill*. R .47 in., or 26 per cent., less than the average of 23 years. R fell on only three days in the first half of the month, but on 10 days in the latter half.—*Finchley, Etchingham Park*. R only about two-thirds of the average. The first half of the month was very dry and but for falls of .01 in. on 6th and 7th there would have been absolute drought for 16 days. R fell on 10 out of the 12 days, 16th to 27th.

II. *Abinger Hall*. Very genial and growing weather throughout the month, especially the latter part.—*Wallington*. Warm, but somewhat deficient in sunlight and R. The warmth and R brought on trees, shrubs, &c., wonderfully. R .29 in. less than the average. Mean temp. $3^{\circ}7$ above the average — *Hythe*. Unsettled and showery with cold easterly winds.—*Keston Tower*. Fairly fine and mild. Dry at the beginning and showery at the end. Vegetation made great progress in the last week.—*Birchington, Thor*. Fine and warm generally, with some fog at times.—*Sheppes, Leysdown*. Generally fine and dry with little R.—*Lewes, Saxonbury*. Dry till 17th ; afterwards rainy with T and fog.

III. *St. Albans, The Grange*. Warm, air humid, nights not cold.—*Hedsor*. Fine and dry, except in the last week ; generally seasonable.—*Banbury, Bloxham Grove*. Up to the 20th the R only amounted to .22 in., but from that date to the end R fell almost daily in considerable quantity. Less frost than usual, and vegetation, although late, made great progress.—*Pitsford, Sedgebrook*. Very fine and bright from 2nd to 16th, and at the close ; rainy from 17th to 27th. R .68 in. less than the average of ten years.

IV. *Sudbury, Friars Street*. Fine at the commencement, unsettled after the 18th.—*Ipswich, Bishop's Hill*. Very dry, R 1.05 in. less than, or little more than one-third of, the average.—*Diss*. Much brilliant weather and very little R till the 24th, then four dull and wettish days and two fine days for a finish. No frosts of consequence and no gales or storms.—*Denver*. A dry month, and vegetation backward but advancing rapidly.

V. *Bishops Cannings*. R .40 in. more than the average.—*Tavistock, Rose Villa*. Rather wet, with average temp., but the max. reached 60° on only two days, the highest being 5° lower than on March 22nd.—*Stowell Rectory*. Rather warm, with R a little above the average.

VI. *Ross, The Graig*. R above the average, mostly falling in the

week ending the 26th. No sharp frost, and temp. slightly above the average.

VII. *Hodsock Priory*. Fine and mild with warm days but no very hot ones, and rather more than the usual R which, however, fell on a small number of days. Vegetation still rather backward.

VIII. *Bolton, The Park*. Cold and unsettled for the first week, but on the 9th springlike weather set in. R .45 in. above the average. Duration of sunshine 110 hours, being 4 hours above the average.—*Seathwaite Vicarage*. Cold and showery with vegetation very backward. A patch of winter S still on the fells at the end.

IX. *High Harrogate*. Frequent frosts in the first week, then generally fine, mild and sunny for the rest of the month, though there was frequent R after the 20th.—*East Layton*. Genial showers and a good amount of sunshine.

X. *Ulpha Vicarage*. A pleasant month, with many very fine days and sufficient R nicely distributed, but 1.46 in. more than the average of 7 years.—*Uldale Rectory*. After the severe winter the warmth and moisture of this month brought vegetation forward very rapidly.

XI. *Llanfrechfa Grange*. Warm and genial, but agricultural work much delayed by R in the latter part.

XII. *Lilliesleaf, Riddell*. A fine month and good seed time, but cold in the first half.—*Melrose, Abbey Gate*. Exceedingly fine, R .48 in. below, and mean temp. 1°.5 above, the average, with six fewer frosty nights ; wind moderate.

XV. *Oban, The Corran*. Very mild and fine.

XVI. *Coupar Angus*. Moderate R on 12 days, .52 in. less than the average of 15 years ; the mean temp. 1°.4 above the average.—*Ballinluig*. Rather cold till the 20th, but vegetation made great progress later.

XVIII. *Glenaladale*. Very fine, with great absence of wind. Vegetation well forward.—*Loch Maddy*. The usual hard dry weather of the West Coast April, was almost entirely absent. For the most part the weather was mild, the prevailing winds being from S., S.W. and W.

XIX. *Watten*. The first part cold, wet and stormy, the latter dry, mild and generally fine.

XX. *Cork, Clarence Place*. A characteristic month, sunshine and showers, with heavy cumulus clouds. Max. temp. 2° lower than that of March.—*Broadford, Hurdlestow*n. Favourable on the whole ; R .42 in. below, and rainy days three above, the average of ten years.—

Miltown Malbay. The early part was cold without much R, and was favourable to agricultural work; the latter part was humid and milder, but cold, boisterous and damp from the 24th to the end.

XXI. *Ballindoney.* Fine, except from 20th to 25th, and much warmer.—*Kilkenny, Sion Villa.* A dry month and very cold, with harsh winds.

XXII. *Ballinamore, Lawderdale.* A good seasonable month.

XXIII. *Belfast, Springfield.* Easter week was very fine but cold. Showery from the 20th to the end. Vegetation backward.

MAY.

I. *Muswell Hill.* R. 1·76 in., or 85 per cent., less than the average of 23 years, and during that time no May has had so small a fall.—*Finchley, Etchingham Park.* R about one fifth of the average, and less than in any May during the nine years recorded.

II. *Dorking, Abinger Hall.* Exceptionally warm and dry and R greatly needed.—*Wallington.* Unusually warm, dry, and sunny. Remarkable for having the hottest May day for a great many years, and also for entire absence of frost, with the exception of a temp. of 31°·8 on the grass. R 1·96 in. less than the average of five years.—*Tenterden.* The driest May of the 32 recorded. R ·10 in. on 6 days. Duration of sunshine, 269 hours. No frosts in shade, and only 2 on grass. Temp. above 70° on 8 days.—*Hythe.* Very dry and changeable; from the 15th to 19th, strong cold winds with slight showers and low temp. prevailed; the last few days were very hot.—*Keston Tower.* A peculiar month with very little R. Very warm in the middle, followed by a very cold spell and then very warm again for the last few days.—*Sheppey, Leysdown.* Very dry, and sunshine almost every day. Bitterly cold on the 16th and intensely hot on the 30th. Wind mostly E., N.E. or N., fresh to strong.—*Lewes, Saxonbury.* With the exception of ·02 in. on 12th and ·10 in. on 30th, drought continued from April 27th to the end of this month.—*Alton, Ashdell.* The temp. in shade rose above 70° 15 times.

III. *St. Albans, The Grange.* Warm, but with rather cold nights; air rather dry; R only ·50 in.—*Slough, Upton.* The drought was exceptionally trying, both on account of sun and of more than average amount of wind. The night before the hottest day (30th) the temp. fell to 45°, and the intense dry heat of the 30th was followed in the evening by much L.—*Hedsor.* R exceptionally small, only ·27 in. on

5 days, the smallest fall in May in the neighbourhood since 1866.—*Culham Vicarage*. The driest May registered in 45 years, warm at the beginning and end, but cold in the middle.—*Oxford, St. Giles'*. The driest May since the record commenced in 1884. Average temp. $56^{\circ}3$.—*Banbury, Bloxham*. R much below the average, and consequently grass and spring crops suffered. Cold for the first few days with ground frosts, then a period of about 10 days with higher temp. (reaching to 73°), followed by a cold wave for about the same time, and from the 22nd to the end, gradually warmer and very enjoyable.—*Pitsford, Sedgebrook*. Very fine and bright throughout. R 1.54 in. less than the average of 10 years.

IV. *Sudbury, Friars Street*. A fine month with high temp. at times, especially at the close.—*Ipswich, Bishop's Hill*. The driest May on record in 24 years. R only .38 in., or 1.69 in. less than the average. Several very hot days in the second week, and several very cold ones in the third. R for four months less than half the average.—*Bury St. Edmunds, Orchard Street*. Unusually warm and fine till the 15th, when it became cold and winterly and continued so until the 21st, then fine and warm again to the end.—*Diss*. Brilliant and warm, except from 16th to 19th inclusive, when it was blustery and cold, and the max. temp. on the 19th was only 40° , while on the 29th and 30th, it was 83° .—*Denver*. Cold in the first week, warm in the second, cold in the third, and very warm at the end.

V. *Salisbury, Alderbury*. Only .22 in. of R fell on 3 days.—*Turistock, Rose Villa*. Warm, fine, sunny and very dry with great range of temp. R less than a quarter of the average, falling on only six days.—*Arminster, Great Trill*. Very dry and hot throughout.—*South Molton, East Street*. R only .25 in. on 2 days.

VI. *Clifton, Pembroke Road*. The driest May since 1876; absolute drought from 2nd to 22nd.—*Cirencester, Further Barton*. The first two weeks were hot and dry, followed by a cold spell, a slight shower of S falling on the 17th; warm and fine again after the 22nd, but cooler with signs of change on the 31st.—*Ross, The Gruig*. The driest May since 1844 with the highest max. temp. ($83^{\circ}8$ on 30th) in May since 1867. The drought at the close began to be serious.—*Cleobury Mortimer, The College*. Very dry and hot.

VII. *Ketton Hall*. Very dry, R falling on only four days, total .64 in. Plenty of sunshine, but great variation of temp. Crops looking fairly well, but R needed.—*Hodsock Priory*. Very fine, bright and warm, with the exception of a very cold week from the

16th to 21st. The max. temp. ($80^{\circ}8$ on 30th), is a record for May, and the duration of sunshine has not been exceeded since 1882. Nearly all the R fell on the 1st and 24th.

VIII. *Bolton, The Park.* R 1·90 in. less than the average. The amount of bright sunshine was 191 hours, or 42 hours more than the average; on six days there was more than 12 hours per day.—*Southport, Hesketh Park.* Dry, calm and very warm and sunny on the whole, but with a trying alternation of cool and hot periods. Brilliant from 2nd to 11th, and 26th to 30th, with over 10 hours sunshine each day, cooler and duller between. R an inch-and-a-half less than the average. Not one sunless day. Mean temp. 3° above the average.—*Seathwaite Vicarage.* Very dry, with unusually high temp.

IX. *High Harrogate.* Remarkably fine, dry and mild, with constant bright sunshine and cloudless skies; exceedingly hot towards the end.

X. *Ulpha Vicarage.* Brilliantly fine; cold easterly winds from the 15th to 22nd, but very warm the rest of the time, and no frost to hurt anything. R less than one-fifth of the average.—*Uldale Rectory.* A very brilliant month. R only ·85 in. on six days, being the lightest fall on record for May.—*Brampton, Denton House.* The driest May during 11 years. R 1·60 in. less than the average.

XI. *Llanfrechfa Grange.* Unusually dry, with cold winds.—*Douglas, Victoria Road.* The driest May, and, with one exception, the driest month yet recorded. A very cold period occurred from 14th to 17th, with strong N.W. winds, otherwise it was a remarkably calm month. Vegetation came on rapidly, but many things suffered from prolonged dry weather and Polar winds.

XII. *Auchencairn, Torr House.* The driest month in 25 years, the R being only ·13 in., or less than one-twentieth of the average.—*Lilliesleaf, Riddell.* The beginning and end of the month very hot. Very little R.—*Melrose, Abbey Gate.* A fine month, with R 1·59 in. below, and mean temp. $1^{\circ}7$ above, the average.

XIII. *Edinburgh, Blacket Place.* Very fine, except for a dull, cold spell from the 16th to 22nd.

XV. *Oban, The Corran.* A very fine, dry month.

XVI. *Dollar.* Warm, dry and fine throughout.—*Coupar Angus Station.* R only ·58 in., the smallest fall since 1887. Mean temp. $3^{\circ}2$ above the average of 15 years, with five consecutive days over 70° .—*Ballinluig.* Squally and cold till the 9th, and again from 15th to 20th, blighting tender leaves and blossom; then warmer till the end. Very dry throughout, and R much needed at the close.

XVIII. *Glenaladale.* A very beautiful month ; warm, calm and sunny. Vegetation very luxuriant.

XIX. *Scourie.* Very fine and warm for the greater part, with occasional TSS.—*Watten.* The first and last ten days were mild and fine, but the middle portion was cold and cloudy, with northerly winds. Some exceptionally hot days for the season occurred early in the month, and there were very few days on which R fell.

XX. *Dunmanway, Coolkelure.* A very dry month, remarkable for a cold snap, lasting some days, with N.E. wind, coming between two extremely warm periods.—*Cork, Clarence Place.* The driest May since 1887, the R being 2·02 in. less than the average. The range of temp. on the 6th, 34°·5 to 64°·5, was most unusual.—*Broadford, Hurdlestow.* The driest May on record. R 1·78 in., and rainy days 6, below the average of ten years. Grass poor and water very low.—*Miltown Malbay.* Rather dry, and the early part cold. Little vegetation until near the end.

XXI. *Ballindoney.* Only ·65 in. of R fell on 6 days, the rest of the month being dry and warm.—*Kilkenny, Sion Villa.* Lovely weather, bright sunshine and excessive heat throughout. Total R only ·39 in., ·22 in. of which did not fall till 31st.

XXII. *Lauderdale.* A fine, dry month.

XXIII. *Belfast, Springfield.* Remarkably dry throughout, the little R that fell (·31 in.) being scarcely felt. Most crops beginning to need R at the close.—*Stewartstown, The Square.* R much below the average.

JUNE.

I. *Muswell Hill.* The driest June in the 24 years that a record has been kept, the R being less than one-sixth of the average.—*Finchley, Etchingham Park.* Very dry. The R (·34 in.) is only about one-seventh of the average, but it fell on 5 days and was so distributed, that neither partial nor absolute drought occurred.

II. *Abinger Hall.* Very little R and crops much retarded. Great range of temp., frost occurring at night on the 12th, 15th, and 16th.—*Wallington.* Exceedingly dry, and following a dry May the effect has been almost calamitous. R less than one-eighth of the average of 5 years.—*Keston Tower.* Very dry and generally sunny and hot, but a cold spell in the middle. The country suffering much from drought.—*Birchington, Thor.* Dry and hot and everything suffering from want of R.—*Sheppey, Leysdown.* Dry and hot with prevalent E. and N.E.

wind, light to fresh. Total R for six months ending June 30th, only 4·12 in.—*Leves, Saxonbury*. Drought continued throughout the month, grass and all other crops suffering severely from want of moisture.—*Enswoorth, Redlands*. Hot sultry weather without T or L, and notable absence of R or dew.

III. *St. Albans, The Grange*. Rather warm, but with cold nights, air exceedingly dry. R only .39 in.—*Hedsor*. Total R .45 in. on 5 days, being 1·50 in. less than the average of 10 years. The weather was close and sultry about the 24th ; unsettled at the close.—*Henley, Assenton*. Very hot, with very little R.—*Culham Vicarage*. A dry hot month with less R than in June, 1893.—*Bloxham Grove*. Fine throughout, and remarkable for the long succession of cloudless skies and pleasant weather. At times the heat was very trying, but the nights were cool, and on two occasions much injury was done to vegetation by frost. Pastures much dried up and the hay crop very scanty.—*Pitsford, Sedgebrook*. R 1·34 in. less than the average of 10 years.

IV. *Sudbury, Friars Street*. Very fine and dry ; only 5 rainy days, and temp. high and equable.—*Ipswich, Bishops Hill*. Another dry month, with less than a quarter of the average R. This makes five dry months in succession.—*Woodbridge, The Cedars*. The continued dry weather was disastrous to farms and gardens, the only mitigation being afforded by heavy dews.—*Diss*. Magnificently warm and bright throughout, with very little R, and high temp. (84° on 23rd).

V. *Bishops Cannings*. R 1·68 in. less than the average.—*Tavistock, Rose Villa*. Fine, sunny, and rather warm and dry, with measurable R falling on only 8 days. Great range of temp.—*Stowell Rectory*. A dry month, with temp. slightly above the average.

VI. *Cirencester, Further Barton*. Drought was the prevailing characteristic of the month, with clear skies and consequently great sun heat. No R fell from the 4th to 10th, or from the 12th to the 25th.

VII. *Ketton Hall*. Hot and dry on the whole, with drying winds from N., N.E. and N.W. ; R .09 in. less than the average. Vegetation suffering severely.—*Worksop, Hodsock Priory*. Fine, but with heavy rains at the beginning and end. The frost on the 15th was the sharpest ever recorded in June, while the max. temp. (84°·5) was the highest in June since 1878.

VIII. *Bolton, The Park*. Bright and dry ; only occasional showers fell previous to the 26th, and for eight weeks the total precipitation had been only about one inch, but during the last five days 1·64 in.

fell to the great benefit of the crops. R .28 in. below, and bright sunshine 13 hours above, the average, the latter being the greatest in June since 1888.—*Southport, Hesketh Park.* A beautiful month, unusually sunny and calm, and, until towards the close, very dry. R more than an inch below the average, and practically confined to the last five days. Not one sunless day.—*Seathwaite Vicarage.* Hot and dry, with a sharp frost on the 15th. The drought in the latter part was injurious to all but low lying grounds.

IX. *High Harrogate.* Very fine and warm generally, but slight frosts on grass occurred from the 13th to 20th, followed by a hot period with frequent TSS.—*East Layton.* Hot and droughty till the 26th, when a severe TS occurred and welcome R on the two following days.

X. *Ulpha Vicarage.* Very dry and generally bright, but very cold from the 10th to 20th with ice of some thickness in the vicinity R 1.78 in. less than the average of 7 years.—*Uldale Rectory.* Hot and dry, R only 1.19 in., but the country does not appear to have suffered much.

XI. *Llanfrechfa Grange.* Unusually dry, with cold nights. Hay crop very short.—*Llanvihangel Court.* Very dry, with N.E. and E. winds to the 11th, then N.W. and W. to the 28th, and S.W. and S. afterwards. The night temperatures were low in the middle of the month.—*Douglas, Victoria Road.* A very dry, calm and genial month; cold from the 11th to the 20th. Bright sunshine in excess of the average.

XII. *Melrose, Abbey Gate.* Very dry and warm ; R .24 in. below the average, 1.34 in. falling in the last four days. Hard frost on the 13th and vegetation suffered.

XIII. *Edinburgh, Blacket Place.* R about .50 in. above the average. Duration of bright sunshine, 203 hours.

XVI. *Dollar.* Dry and warm throughout.—*Coupar Angus.* R 1.06 in., and temp. 1°.1, above the average of 15 years.—*Ballinluig.* Very dry till the 17th, and a cold period from the 11th to the 19th, potatoes being damaged by frost on 13th.

XVIII. *Glenaladale.* A fine month with small R and variable temp.—*Drumnadrochit.* The feature of the month was the amount of distant T heard, the surrounding districts having had severe TSS.

XIX. *Watten.* The first week was dry, hot and bright, the second cloudy, with cold northerly winds, while the latter half of the month was generally fine.

XX. *Dunmanway, Coolkelure.* A very dry and very warm month.—*Fermoy, Gas Works.* Very fine for the first half, followed by cloudy weather, with heavy showers and T.—*Broadford, Hurdlestow.* A very fine month. R 1·22 in., and rainy days 3, less than the average of ten years. Water very low.—*Miltown Malbay.* Dry and parching till the end, when R fell copiously. Springs and water supply were failing, and pastures were brown.

XXI. *Ballindoney.* Very dry till 26th when there was a great TS, and 3·44 in. of R fell in the last 5 days. Absolute drought for 14 days ending 25th, and partial drought for 44 days ending on the same date, with .43 in. of R.—*Kilkenny, Sion Villa.* To 25th inclusive perfect summer weather, with only .15 in. of R. On 26th the morning was overcast and sultry, and at 11 a.m. torrents of R fell. The weather continued unsettled to the end of the month.

XXII. *Lawderdale.* A hot and dry month.

XXIII. *Belfast, Springfield.* Very dry till the 25th with only .43 in. of R, while 2·38 in. fell in the last five days. For some crops and on some soils the R came too late.

JULY.

I. *Muswell Hill.* R 1·47 in., or 54 per cent., above the average of 23 years. In the six days ending 23rd, 2·75 in. fell, followed by .60 in. on the 27th and .20 in. on the 28th, making 3·55 in. in 11 days.—*Finchley, Etchingham Park.* R about one-third more than the average. After R on the first three days, followed a fortnight with only .21 in. on 11th, while in the remaining fortnight seven-eighths of the total fell on eight days.

II. *Wallington.* Warm and showery, but not extraordinarily so. The R appears to have done great good, but the total is .50 in. less than the average.—*Hythe.* Very fine and dry with few exceptions till the 17th, then stormy with heavy R till the 29th, and the last two days fine.—*Keston Tower.* The drought which had prevailed for some months lasted till the 17th when rainy weather set in, and 2·88 in. fell in 11 days.—*Hailsham.* Charming weather, warm by day and cool at night.—*Lewes, Saxonbury.* The drought ended on 18th, followed by heavy rainfalls, .51 in. falling in nine minutes on 21st.—*Maidenhead, Castle Hill House.* Generally very close and muggy, and R above the average; temp. rather low, prevailing winds S.W.

III. *St. Albans, The Grange.* Rather warm and very wet.—*Hedsor.*

Dry at first and cool with strong westerly winds. The drought broke on the night of the 18th, when 1.22 in. of R fell in a few hours, and the latter part of the month was continuously wet.—*Culham Vicarage*. Dry and warm till the 18th, followed by heavy showers making the total above the average.—*Bloxham Grove*. With the exception of R on the 2nd, and showers on the 3rd and 11th, the weather continued fine till the 18th; then for eight days there was a constant succession of heavy R, which was most beneficial to vegetation generally.—*Pitsford, Sedgebrook*. R .89 in. less than the average of ten years.

IV. *Ipswich, Bishops Hill*. R 1.12 in. above the average. More than three inches out of the total of 3.52 in. fell in the latter half of the month.—*Bury St. Edmunds, Orchard Street*. R 1.98 in. in excess of the average. Wind mostly westerly.—*Diss*. Three welcome showery days were succeeded by a fortnight of hot brilliant weather, only one moderate fall on the 11th intervening; then followed eleven days with heavy R almost daily, and splendid weather completed the month.—*Denver*. The first half of the month continued very dry and there was much anxiety about the crops, but R in the latter half did much good.

V. *Bishops Cannings*. R 1.39 in. more than the average.—*Tavistock, Rose Villa*. Wet and cold with very equable temperature.

VI. *Cirencester, Further Barton*. Dry after the 4th (excepting the 11th) until the 18th when a wet period set in, R falling on 12 days in succession, which with high temp. produced a rapid and beneficial effect on vegetation.—*Ross, The Graig*. After heavy showers on the 1st, there was no R of any consequence till the 18th; then a week of showery weather with 1.74 in. of R, which came just in time to save the root crop. No hot day, the shade max. being 77°.6, and little T.

VII. *Burton Stather*. R 5.56 in., the largest amount in any month in seven years.—*Worksop, Hodsock Priory*. Showery and rather unsettled, especially during the last fortnight; the nights were mild but there were no hot days. Corn nearly ripe at the end and the crops generally good.

VIII. *Bolton, The Park*. Changeable and showery from the 10th to the 28th, with heavy R on the 25th and 26th, the total being 1.53 in. above the average. Duration of sunshine (140 hours) 6 hours above the average.—*Seathwaite Vicarage*. A very rainy month, but with only one heavy downpour, 2.30 in. on 25th.

IX. *East Layton*. Excessively wet and thundery, and the hay harvest very much interrupted.

X. *Ulpha Vicarage*. For the most part cool and unsettled. R 1·58 in. more than the average of seven years.—*Sunderland, West Hendon House*. The wettest July in 36 years (R 6·77 in.) and the total fall has only twice been exceeded, viz.: in November, 1878 and August, 1890. In the week commencing 21st 4·84 in. fell, 1·38 in. on 21st, 1·03 in. on 25th, and 1·92 in. on 26th. This is the first record of three falls exceeding an inch in any consecutive seven days.

XI. *Llanfrechfa Grange*. The first half of the month was unusually fine and the nights were very warm. The hay harvest was early but the crop very short.—*Douglas, Victoria Road*. After the drought, which prevailed from April 26th, the R in July was specially welcome though its effect was much neutralised by the strong cold N.W. winds which, as usual, were very prevalent. No really warm day occurred.

XII. *Auchencairn, Torr House*. The wettest July in 25 years. R 7·28 in. or 3·35 in. more than the average.—*Lilliesleaf, Riddell*. Unusually rainy, the total fall being more than double the average.—*Melrose, Abbey Gate*. R 2·65 in. above the average. Wind S. to W. on 25 days.

XV. *Oban, The Corran*. A cold dull month.

XVI. *Dollar*. Dull and cold throughout.—*Coupar Angus*. Excessive rains in the second half kept the ground saturated and cold. Mean temp. the lowest on record for July, except in 1888.—*Ballinluig*. Very wet and broken weather and the temp. rather low, except in the first week.

XVIII. *Glenaladale*. Dull and rainy with rather low temp.—*Loch Maddy*. Mostly cold and raw, as might be expected with a R of 6·06 in.—*Drumnadrochit*. Very wretched weather, cold, wet and sunless, although the total R is 1·09 in. less than the average of 9 years.

XIX. *Scourie*. A fine growing month with frequent showers.—*Watten*. Thick and cloudy throughout, generally mild but unsteady and little sunshine.

XX. *Cork, Clarence Place*. R 91 in. above and mean temp. 2° below the average. The max. temp., 70°, is remarkably low for July. Vegetation retarded by low temp., and hay injured by R.—*Broadford, Hurdlestow*n. R 14 in. above, and rainy days one below, the average of 10 years.—*Miltown Malbay*. Warm, with much R throughout, but an absence of the gales and boisterous winds usual in July.

XXI. *Ballindoney*. Dry till the 15th, then wet to the end. Not

so warm as June.—*Kilkenny, Sion Villa.* Lovely weather to 15th inclusive, though there were occasional storms ; the succeeding ten days were wild and broken with 2·61 in. of R. Clearing up at the close of the month.

XXII. *Lawderdale.* A very wet unseasonable month.

XXIII. *Belfast, Springfield.* Though the R was heavy, 5·84 in., no harm, but much good, resulted.

AUGUST.

I. *Finchley, Etchingham Park.* The wettest August since 1888, the R being about 18 per cent. above the average. The first fortnight was very wet, R falling every day but the 1st and 7th ; then came 6 dry days, followed by TSS on the 22nd, then mostly dry to the end.

II. *Abinger Hall.* Showery, with frequent TSS, but beyond a tree or two being struck no damage was done.—*Wallington.* Warm, sunny and rather wet. R ·51 in., and duration of sunshine 3 per cent., above the average.—*Keston Tower.* Fine, with a fair amount of R in the first half ; no very warm weather. A very abundant crop of apples, pears and plums.—*Birchington, Thor.* The first part was wet, the latter part dry and very hot.—*Sheppesey, Leysdown.* Generally fine and hot, with little R, except on the 6th and 10th.—*Lewes, Saxonbury.* The weather cleared after the 13th, and was fine to the end, except for slight showers on 25th and 26th.

III. *St. Albans, The Grange.* Rather warm, and very wet.—*Hedsor.* Very wet till the 14th, then warm and seasonable, with fine harvest weather.—*Culham Vicarage.* Rather wet and stormy in the first part, and fine and warm in the latter. There was a good deal of distant T and L, but no great quantity of R, and the falls differed considerably locally.—*Bloxham Grove.* Wet and unsettled till the 14th, followed by six fine days, very favourable for harvest work, then unsettled till 26th, and the last five days fine and pleasant.—*Pitsford, Sedgebrook.* R ·09 in. less than the average of ten years.

IV. *Ipswich, Bishop's Hill.* The first half was showery, with a succession of TSS ; the second half dry and fine ; splendid harvest weather.—*Bury St. Edmunds, Orchard Street.* Much R, and comparatively low temp. during the first half, but from the 14th to the end fine harvest weather.—*Diss.* A bright 1st was followed by nine days of rather heavy R ; the 11th was fine, succeeded by three rainy

days, after which there was brilliant, warm harvest weather to the end.

V. *Bishops Cannings*. R .84 in. above the average.—*Stowell Rectory*. The first half was wet, and the total R more than an inch above the average. Temp. normal.

VI. *Cirencester, Further Barton*. Very unsettled till after the 13th, then a week of dry, hot weather, followed by a windy, showery period, while the last few days were perfect for the harvest.—*Ross, The Graig*. Warm on the whole, without excessively hot days, and although there was nearly constant and sometimes heavy R from the 2nd to 13th, the total is not up to the average. Corn crops very light, but generally well harvested ; roots and grass much benefitted by the R early in the month.

VII. *Ketton Hall*. Variable, but on the whole good for harvest operations. Although there was much T and L the R is .21 in. less than the average.—*Worksop, Hodsock Priory*. Fine and warm, but with no very hot days. R 1.06 in. below the average.

VIII. *Bolton, The Park*. During the first half, R fell on ten days, totalling 2.75 in., while from the 15th to 22nd only .01 in. fell, and from the 23rd to the end there were six rainy days. R .03 in., mean temp. 1°.0, and sunshine 9 hours, above their respective averages.—*Southport, Hesketh Park*. Quiet, rather dull and very equable. Rainy days unusually numerous, but R nearly an inch below the average.—*Seathwaite Vicarage*. Another unseasonably cold and rainy month, but with a total R not much in excess.

IX. *East Layton*. The first 12 days were wet, but the latter half was beautifully fine, and ripened the corn well.

X. *Ulpha Vicarage*. Generally mild, but unsettled throughout. R the smallest in August during 7 years, and 2.03 in. below the average.—*Uldale Rectory*. Singularly wet ; only six fine days, and only once did two of these come together. Heavy TSS occurred during the middle and end of the month.

XI. *Llunfrechfa Grange*. Some very close, hot days, and a remarkable prevalence of S.W. winds. Harvest much retarded by wet.—*Douglas, Victoria Road*. Cold and wet, with much high wind, and very stormy at the close. Fog on 5 days.

XII. *Lilliesleaf, Riddell*. Very wet, many very heavy showers, doing much damage to roads. Warm also, particularly at night, the temp. only once falling below 43°. A bad month for the hay, a good deal of which is still out.—*Melrose, Abbey Gate*. R .22 in., and mean temp. 5°.1, above the average.

XIII. *Edinburgh, Blacket Place.* The seventh consecutive wet August, the average R of the 7 being 4·54 in.; the only similar spell of wet Augusts in 130 years occurred from 1827 to 1832, when the average was 4·91 in. Sunshine only 101 hours, being the least observed in 18 years. The total R for July and August, 9·79 in., has been exceeded on only five occasions since 1765.

XV. *Oban, The Corran.* The wettest and coldest August on record, i.e., since 1886.

XVI. *Coupar Angus.* Total R (6·81 in.) the greatest, and mean night temp. the highest, on record in August.—*Ballinluig.* Rather wet and dull.

XVIII. *Glenaladale.* Very wet and warm.—*Loch Maddy.* Variable winds, very little sunshine, and altogether a most disagreeable month.—*Drumnadrochit.* The R was not great, but the month was made very miserable by the constant drizzle and want of sunshine.

XIX. *Watten.* The first three weeks were dry, mild and fine, but the last was cloudy, wet and cold.

XX. *Dunmanway, Coolkelure.* Very mild and wet, disastrous harvest weather.—*Cork, Clarence Place.* R 1·88 in. above, and temp. 1° below, the average. The number of rainy days, 24, is remarkable including 16 consecutive days with R in the first half.—*Currigaholt.* Squally and showery; prevailing winds S. and S.W.—*Broadford, Hurdlestow.* Wet, as August generally is here. R ·54 in., and rainy days 4, above the average of ten years. The great R did much harm to hay and corn, but the potato crop is very good.—*Miltown Malbay.* Warm, moist and rainy, bad for harvesting.

XXI. *Ballindoney.* Very wet and disagreeable all through, with several heavy falls of R.—*Kilkenny, Sion Villa.* August a proverbially wet month, maintained its reputation. R 3·81 in., or only ·16 in. less than the average of five years. The weather was very cold, cereals suffered, and second growth set in.

XXII. *Lauderdale.* Wet, cold and unseasonable.

XXIII. *Belfast, Springfield.* Damp and coolish weather throughout. Most crops fairly good.

SEPTEMBER.*

I. *Muswell Hill.* R 1·25 in., or nearly 53 per cent., less than the average of 23 years, though in that period there were three or four Septembers with less R, there were none in which R fell on only two

* See also *Met. Mag.*, November, 1895, p. 149.

days.—*Finchley, Etchingham Park.* The driest September recorded in 10 years, the R (·88 in. on two days) being not quite two-fifths of the average, and ·05 in. less than in September, 1893, but in that month R fell on 11 days.

II. *Abinger Hall.* A month of remarkable heat and slight R. The temp. reached or exceeded 80° on five days.—*Windlesham, Erlwood.* Splendid and abnormally hot weather. All the R but ·12 in. fell during a TS on 7th.—*Wallington.* The most notable September recorded in 10 years. The bar., max. temp. in shade, mean temp. and duration of sunshine are the highest, whilst the amount of cloud, the wind force, total R, and number of rainy days, are the smallest in that period. R ·73 in. and rainy days 6, less than the average of five years.—*Tenterden.* R ·63 in. on 9 days. Mean max. temp. 73°, mean min. 51°, six days above 80°, unparalleled since 1865.—*Hythe.* Exceptionally fine, and temp. unusually high for the time of year, the shade temp. rising above 80° on ten days.—*Keston Tower.* A notably fine September, the last week being the hottest on record for the season and the warmest of the year.—*Lewes, Saxonbury.* Dry, with no R after 11th, except ·02 in. in a TS on 24th. The last eight days were very hot, the max. temp. ranging from 76° to 82°, and the min. from 53° to 60°.—*Compton [Petersfield].* Exceptionally warm, with the smallest R in 15 years, ·54 in. In the 27 days ending 24th only ·27 in. of R fell.—*Windsor, Royal Gardens.* Very hot, with brilliant sunshine, max. temp. in shade 82°.

III. *Broxbourne, Stafford House.* Remarkable for heat, drought and heavy night mists throughout.—*St. Albans, The Grange.* Very warm, but with cold nights. R only ·72 in. on four days. Sky quite clear at 9 a.m. for the last nine days.—*Buntingford, Hamels Park.* Very bright and hot.—*Hedsor.* Generally dry and very warm especially at the close, temp. rising to 79° on 27th. Almost rainless excepting a TS on night of 7th.—*Culham Vicarage.* A hot, dry month, though there were a few cold nights about the 21st with frost on that day.—*Oxford, St. Giles.* Unusually fine and warm, R nearly an inch less than, and mean temp. 3° above, the average of 8 years.—*Bloxham Grove.* Remarkable for the long continued fine clear weather with very high temp. The pastures were much refreshed by a storm on the 7th, but after that date were much burnt again. Harvest mostly finished on the 7th.—*Pitsford, Sedgebrook.* R 1·96 in. below, or less than a quarter of, the average.

IV. *Sudbury, Friars Street.* Brilliant weather throughout, only three

rainy days, and very high temp. towards the end.—*Ipswich, Bishop's Hill.* Remarkably hot, dry and sunny. R 1·33 in. below, or less than half of, the average.—*Diss.* A month of magnificent, still, and almost cloudless weather, intensely hot till the end. The temp. rose to 80° on the 2nd, and was seldom below 70° at mid-day, yet gardens were brilliant and grass not scorched in the 19 days of absolute drought, though there was very little dew and no wet fog.

V. *Bishops Cunnings.* R 1·49 in. below, or less than half of, the average.—*Kingsteignton.* R only ·47 in. on 10 days, but on six of them the amount measured was dew.—*Tavistock, Rose Villa.* Warm, dry, very fine and sunny. The mean temp. (61°·4) was the highest, and the number of days (17) on which the max. rose to or above 70° was the greatest, and the amount of cloud at 9 a.m. was the least, in any month since observations commenced in 1893.—*Axminster, Great Trill.* Very dry and hot all through.—*Barnstaple, Athenæum.* The smallest R (·66 in.) recorded in September since 1858, when ·31 in. fell.—*Stowell Rectory.* Excessively warm and dry; temperatures of 80° or upwards were recorded on three days, the highest hitherto in September being 78° in 1891.—*St. Agnes.* The hottest and driest September on record.

VI. *Cirencester, Further Barton.* A month of drought and heat probably unparalleled for September.—*Ross, The Graig.* The only falls of R of any consequence were on the 6th and 24th, when very heavy R fell for a short time accompanied by T. The dews at the close of the month were very heavy, but the drought was beginning to be much felt. The five months, May to September, had only 7·18 in. of R. The temp. rose above 80° on 4 days and above 70° on 19 days, while the average max., 72°·2, has only once been exceeded in September since 1859.—*Alrewas.* Beautifully fine. R only ·40 in. on three days.

VII. *Ketton Hall.* Extraordinarily hot and dry, grass quite scorched up, and vegetation and root crops suffering severely. R 2·29 in. below the average.—*Leicester, Rotherby Hall.* Generally very hot, with only ·45 in. of R on 6 days.—*Horncastle, Bucknall.* The last fortnight was exceedingly hot and dry, and on several days the sun shone from sunrise to sunset in an absolutely cloudless sky. The weather was altogether extraordinary and unprecedented for the last half of September.—*Horncastle, Hemingby.* A delightful month, nearly throughout, but towards the close the want of R began to make itself felt.—*Worksop, Hodsock Priory.* Fine and bright, with very hot days,

light winds, and little R. The last week was especially warm, the temp. several times above 80° , a figure never reached before in the second half of the month ; the mean max. would have been high for July or August. Harvest was generally finished in the second week.

VIII. *Bolton, The Park.* The calmest, brightest and warmest September on record. R just half the average, bright sunshine 47 hours, and mean temp. as much as $50^{\circ}3$, above the average of ten years.—*Southport, Hesketh Park.* The warmest September on record, very calm, sunny and dry. Mean temp. 5° above the average, and 1° higher than in any other September in 24 years. R more than 2·00 in. below the average, and practically confined to three days in the first week. Underground water exceptionally low. Duration of bright sunshine much in excess of the average.

IX. *Ingleby Greenhow Vicarage.* A splendid harvest month, and the crops got in by the close practically without a shower.—*East Layton.* Remarkably hot and dry, quite a second summer. Harvest got in in excellent condition, and crops very heavy.

X. *Pawston.* The driest September (R 26 in.) registered, and the driest month, with the exception of February, 1891, when only 12 in. fell.—*Ulpha Vicarage.* Fair generally, and the last week exceptionally hot. No frosts, but very heavy night dews. R 4·43 in. below the average of seven years.—*Uldale Rectory.* The first half with warm rains, and at times stormy weather, threatened destruction to the harvest, which had just commenced, but an almost unprecedented change took place, and the heat from the middle of the month was almost tropical.—*Brampton, Denton House.* Remarkable for extraordinary heat and sunshine during the last week.

XI. *Llanvihangel Court.* Extraordinarily dry and hot. Springs very low, and want of water felt. Winds light, and chiefly W. and N.W.—*Douglas, Victoria Road.* For more than the first half, the weather was but a slight improvement on that of August, but on the 19th it became brilliantly fine and warm, and continued so to the end.

XII. *Lilliesleaf, Riddell.* Remarkably hot ; the first half very windy, the last half very calm.

XIII. *Edinburgh, Blacket Place.* Phenomenally warm ; mean temp. $58^{\circ}6$; only one warmer September is on record in 132 years, viz., 1846, when the mean temp. was $59^{\circ}3$.

XVI. *Coupar Angus.* R much below, and mean temp. 4·4 above, the average of 15 years. The harvest was well got in, and crops are

better than was anticipated.—*Ballinluig*. A very warm month, especially the latter part, the max temp. from the 23rd to the end being above 60° each day.

XVIII. *Glenaladale*. Wet and warm.—*Loch Maddy*. The last ten days were very warm, max. temp. 62°·7, min. 57°·9. —*Drumnadrochit*. The last twelve days were unusually hot for the time of year.

XIX. *Scourie*. The month, as a whole, was remarkably fine, and distinguished by its high temperatures.—*Watten*. Dry, mild and fine, and the last week noted for high temp.

XX. *Coolkelure*. Remarkable for great heat, especially in the latter half, and also for the great stillness of the atmosphere; on several nights the ther. in shade was nearly as high as during the day.—*Cork, Clarence Place*. The warmest September on record. Mean temp. 5° above, and R 1·50 in. below, the average. Night fogs prevailed at the close.—*Fermoy*. Very fine and hot throughout.—*Ballingarry, Hazelfort*. Glorious weather throughout.—*Broadford, Hurdlestow*n. A very fine month, and the last week dreadfully hot. R 1·06 in., and rainy days 5, below the average of ten years.—*Miltown Malbay*. A delightful month, with very little R, and the latter part excessively hot for the season, but calm, with cloudless skies. Splendid weather for harvesting.

XXI. *Ballindoney*. Fine and dry, only one heavy fall of R. Exceedingly warm from the 26th to the end.—*Kilkenny, Sion Villa*. Quite an exceptionally charming month; perfect summer, with powerful sun. Thick morning fogs, and very heavy dews from 13th to end.

XXII. *Ballinamore, Lawerdale*. A warm, dry month.

XXIII. *Belfast, Springfield*. Very fine from the 18th, and the hottest weather recorded in September. Though the R was small it was spread over eleven days, but did not much hinder the gathering of the harvest.—*Buncrana, Rockfort*. Delightfully warm throughout, particularly good for harvest operations.

OCTOBER.

I. *Finchley, Etchingham Park*. R about 6 per cent. less than the average. The month opened very wet, R falling on 8 out of the first 9 days, then followed 11 dry days, excepting ·40 in. on the 15th, and of the remaining 11 days 5 were rainy.

II. *Abinger Hall*. Open, and for the most part fine, with some

very seasonable, though sharp, frosts toward the end.—*Wallington*. Cold, sunless and rather wet, and the last 8 days unusually cold. R ·36 in. more, and sunshine much less, than the average.—*Hythe*. Very wet and changeable, with intervals of fine weather. Sharp frosts from the 23rd to 30th.—*Keston Tower*. Cold throughout, with the exception of the 1st, and unusually frosty weather during the last week.—*Birchington, Thor.* Very changeable, with several foggy days.—*Sheppey, Leysdown*. Generally fine, but cool, and R 1·04 in. less than the average.

III. *St. Albans, The Grange*. Rather cold ; the first month since February with the mean temp. below the average, but up to the 24th it was above the average, a very cold period then set in.—*Hedsor*. Very wet till 10th, then dull and misty. Intensely cold for the time of year during the last week, hard frost occurring each night. Great extremes of max. temp., 74° on 1st and 38° on 26th.—*Culham Vicarage*. Wet during the first part, then fine weather for the rest of the month, with sharp frost from the 23rd to 29th.—*Oxford, St. Giles'*. Cold on the whole, the mean min. temp. being 2°·2 below the average of 8 years ; the temp. was about normal till the 24th. R ·11 in. above the average.—*Bloxham Grove*. Up to the 10th R fell daily, from thence to the 21st fine weather prevailed, followed again by a wet period, with falls of S on two days. A change to cold occurred on 16th, and many days were marked by very low temp.—*Pitsford, Sedgebrook*. The greater part was overcast and cloudy. R ·58 in. less than the average of 10 years.

IV. *Sudbury, Friars Street*. Rather unsettled at the commencement, finer towards the end, with sharp frosts at night. L at times in the beginning and end of the month.—*Ipswich, Bishop's Hill*. Cold throughout, and the first week very stormy, with a great fall of temp. ; thick ice in the last week. R ·31 in. less than the average.—*Diss*. A wettish month, with extremely low temp. for October. Autumn fruit crops good and plentiful. Water getting scarce owing to the September drought.—*Denver*. Remarkably warm on 1st, and exceptionally cold from 22nd to 29th.

V. *Bishops Cannings*. R 1·14 in. more than the average.—*Tavistock, Rose Villa*. Cold and changeable, with great variations of temp. R about the average.—*Stowell Rectory*. A rather cold month, with average R.

VI. *Clifton, Pembroke Road*. The first week was very wet and stormy, nearly 3·00 in. of R falling in five days. From 16th to 29th

very cold, with white frost nearly every night. R half-an-inch above the average.—*Cirencester, Further Barton.* Cold throughout, and exceptionally so towards the end; many frosty nights after the 16th.—*Cheltenham, Southam Villa.* A very cold week from the 23rd to 30th, with a mean temp. lower than that of midwinter, and the min. on the 24th (22°) the lowest recorded so early in the winter; ice on water 8 feet deep on the 28th and 30th.—*Ross, The Graig.* Wet from 1st to 8th, and again from 21st to 26th; the rest of the month very dry. Total R about 12 per cent. below the average. Number of frosty nights the largest in 37 years record. It is singular that the last 15 days in September should be the hottest, and the last 15 in October the coldest, on record here.—*Coventry, Coundon.* Notwithstanding the heavy R (3·75 in.) the ground was very dry at the close. Frost from 23rd to 29th.

VII. *Worksop, Hodsock Priory.* The last week was marked by unusually sharp frosts, the weather till then being of a normal character. Both max. and min. temp. are unprecedented in October. R very near the average.

VIII. *Bolton, The Park.* The early part was unsettled, with more or less R on the first 11 days. In the early hours of the 24th winter set in, and 2 inches of S had fallen by 9 a.m. R about normal, and duration of sunshine 8 hours above the average.—*Southport, Hesketh Park.* Chiefly remarkable for excessive cold during the fourth week. Frost in screen on 10 days. R an inch above the average, owing to a peculiarly local fall of ·88 in. on the 30th. Ice over the lake on 28th and 29th. Mean temp. 3° below the average.—*Broughton-in-Furness.* Both midsummer and midwinter in autumn.—*Seathwaite Vicarage.* The month opened very wet, 5·12 in. of R falling in the first seven days, and closed with very sharp frost from the 23rd to 29th.

IX. *East Layton.* October brought a great change of weather, with cold N. and N.E. winds, sharp frosts and some S.

X. *Haltwhistle, Unthank Hall.* Great variations of temp., from a max. of 65° on the 1st to a min. of 21° on the 26th and 27th.—*Rothbury, Biddleston.* Very wet, R 7·65 in., an amount unequalled in any month of the 20 years recorded.—*Pawston [Coldstream].* The wettest month (R 7·02 in.) since August, 1877, with an unprecedented snowfall for October.—*Ulpha Vicarage.* Mild till the 15th, with a large amount of R; a dry, cold spell, with several sharp frosts, then succeeded till the 30th, when there was again heavy R. R ·57 in.

less than the average of 7 years.—*Uldale Rectory.* Changeable, commencing with a hot wave, after which it rained for 8 days, and ended with frost and S.

XI. *Llanfrechfa Grange.* Fine, and favourable for agricultural work. Some violent storms in the first week, and mild till the 22nd, then S and sleet, and the nights unusually cold till the 31st.—*Llanvihangel Court.* Remarkably cold during the last half of the month, with N. and N.E. winds.—*Colwyn Bay, Nant-y-Glyn.* Remarkable weather occurred from the 24th to 29th, H and sleet every day, and S on 28th, and T and L on 24th and 25th.—*Douglas, Victoria Road.* Continuous wet, and often stormy weather prevailed till the 15th, followed by four beautiful days. On the 21st it became bitterly cold, and continued so till the end, with daily R, sleet and S. The temp. of the last week was nearly 10° below the mean, and actually below that of January.

XIII. *Edinburgh, Blacket Place.* Very cold from the 21st to 30th, with frequent S showers; mean temp. of this period $38^{\circ}3$.

XV. *Oban, The Corran.* Beautifully fine and dry during the last 17 days, with constant sunshine, but exceptionally cold for October. it being quite unusual to have frost so early in the autumn.

XVI. *Coupar Angus Station.* R about an inch below the average, and mean temp. the lowest since 1885.

XVIII. *Drumnadrochit.* The feature of the month was the early S storm beginning on the 20th, it melted nearly as it fell in the lower parts, but the higher ground was still covered at the end. R about the average.

XIX. *Scourie.* Exceedingly wet and stormy, with a considerable quantity of H, sleet and S.—*Watten.* The first half mild, the last half stormy and cold, with some frost, and S on the higher ground.

XX. *Dunmanway, Coolkelure.* Remarkable for variation of temp.; some very cold days at the end followed immediately upon some days of unusually high temp.—*Cork, Clarence Place.* R 1.25 in., and mean temp. 4° , below the average. Great range and sudden changes of temp.—*Broadford, Hurdlestowen.* The first half was wet, and the last half fine, cold and frosty. R .52 in. above, and rainy days 3 below, the average of 11 years.—*Miltown Malbay.* The early part was stormy and cold, with much R and some H, T and L; the remainder, except 13th, when heavy R fell, was cold, rather dry and frosty, with boisterous winds.

XXI. *Ballindoney.* Heavy R on the 1st, but fine on the whole

The month ended cold and frosty.—*Kilkenny, Sion Villa.* On 1st a complete change set in with sudden rising of the wind, and at 8 p.m. heavy R fell, the wind increased to a gale, which continued until the afternoon of 4th. The month otherwise was fairly fine. Frequent frosts from the 22nd to the end.

XXII. *Ballinamore, Lawderdale.* The first half was wet and warm, the remainder cold.

XXIII. *Belfast, Springfield.* Fine and open for farmers. In the first three days 1·74 in. of R fell, and more than 2·00 in. from the 13th to 15th.

NOVEMBER.

I. *Muswell Hill.* R exactly one inch, or 35 per cent., above the average of 23 years. The first half was much the wetter, R falling on 10 days.—*Finchley, Etchingham Park.* R about 38 per cent. above the average. The month opened with two dry days, then followed 13 days with R on all but one ; in the next 11 days R fell on only 3 but the last 4 days were wet.

II. *Abinger Hall.* Very open and mild, with a heavy rainfall.—*Wallington.* Remarkably warm, wet and stormy. The max. in shade and the mean temp. are the highest in ten years, and the min. on grass and wind force are also, with the exception of November, 1888, the highest. R ·85 in. above the average.—*Hythe.* Very wet and stormy, with heavy gales.—*Sheppey, Leysdown.* Generally mild and wet, with prevalence of strong winds and gales.—*Lewes, Saxonbury.* Very mild ; wet till 16th, improving afterwards,—*Maidenhead, Castle Hill House.* Very mild, only two days with any frost to speak of. Wind mostly N.E.

III. *St. Albans, The Grange.* Warm, having a mean temp. about the same as October, and very wet.—*Slough, Upton.* Humid and warm. Early in the month, despite the soaked surface, the ground was still dry and even dusty when dug into a short distance.—*Hedson.* Mild and wet as a whole.—*Culham Vicarage.* A wet month with a generally high temp. for the time of year.—*Oxford, St. Giles'.* R ·72 in. less than in November, 1894, but spread over a longer period, falling on 19 days out of 27, as against 14 out of 20 ; to this and the lesser R in October is due the absence of floods.—*Banbury, Bloxham Grove.* Gloomy and dark throughout and R on 21 days, but the usual fogs were rare, and there was an almost total absence of frost, except

on two mornings.—*Pitsford, Sedgebrook.* R 1·30 in. more than the average of 10 years.

IV. *Colchester, Lexden.* Mild and rather dry, and an absence of severe frost. Soil and weather excellent for planting.—*Sudbury, Friars Street.* Mild, without much R; foggy at times. L at night about the middle.—*Ipswich, Bishop's Hill.* R ·21 in. less than the average, and temp. very variable, but high, with strong winds and squalls about the middle.—*Woodbridge, The Cedars, Melton.* Favourable on the whole to farmers, but ponds were not full and springs were weak.—*Diss.* A warm month with some heavy gales and a good deal of sunshine.—*Denver.* A mild and rather wet and windy month.

V. *Bishops Cannings.* R 2·42 in., and rainy days 5, above the average.—*Tavistock, Rose Villa.* Warm, cloudy, stormy and very wet. R fell on 26 days, 7·35 in. falling in 20 consecutive days, 3rd to 22nd.

VI. *Clifton, Pembroke Road.* Very rough and unsettled, with frequent gales.—*Cirencester, Further Barton.* Very wet, with gales on the 6th and 10th, and one cold fit from the 23rd to 25th. Temp. abnormally high on the 10th and 16th, frost on only two or three days.—*Ross, The Graig.* Very wet, though no day yielded an inch of R. During the last fifty-two years there have been only four Novembers with more R—1852, 1872, 1875, and 1888. The mean temp. also was high, having been exceeded only three times since 1859.—*Coventry, Coundon.* Although the R was heavy (4·93 in.) no field drains were running at the close, the soil absorbing all the fall.

VII. *Horncastle, Bucknall.* Wet and mild, and almost frostless.—*Hodsock Priory.* Dull, mild and rather wet, with some strong winds. The night temps. were higher than in October.

VIII. *Bolton, The Park.* Unsettled, but on the whole mild, with more than an average amount of wind (chiefly E.), and less fog than usual. R ·41 in. less than the average. Duration of sunshine 33 hours, being 8 hours above the average.—*Southport, Hesketh Park.* Dull and warm, with considerable oscillation of pressure but little stormy weather. R an inch below the average but on the usual number of days. A marked excess of cloud, and very little bright sunshine. Mean temp. 2°·5 above the average.—*Seathwaite Vicarage.* A rather rainy month, very mild throughout, for the season.

IX. *East Layton.* Very changeable, R, wind, fog, and fine weather, but not much frost. On the whole very open.

X. *Ulpha Vicarage.* Generally pleasant and mild throughout, but there were some rough days from the 9th to 16th. The ther. in shade

did not fall below freezing, and the ground frosts were few. There was a large amount of sunshine.—*Uldale Rectory*. Very variable, though the changes were not so decided as sometimes happens. On the whole it was not unpleasant or foggy, and there were several days with bright sunshine throughout.

XI. *Llanfrechfa Grange*. Very stormy, with great variations of pressure in the first three weeks. Much R, but little fog.—*Llanvihangel Court*. Very wet; the air laden with moisture when R was not actually falling, and 19 consecutive rainy days, from 4th to 22nd.—*Merthyr Tydfil, Plymouth Works*. R 12·49 in., the heaviest in any month since October, 1891.—*Dowlais, Gwernllwyn*. Very wet and stormy, 3·18 in. of R falling on 10th, and 6·29 in. from 5th to 10th. Total, 11·56 in.—*Douglas, Victoria Road*. Mild on the whole, with R considerably below the mean. Gales on six days.

XII. *Lilliesleaf, Riddell*. Wet and mild.

XIII. *Edinburgh, Blacket Place*. The first November in 55 years without a record of frost in shade.

XVI. *Dollar*. Cold, with a good deal of R.—*Ballinluig*. Very dull and wet; average amount of cloud 8·6, and mean temp. 40°·7.

XVIII. *Loch Maddy*. Fairly good on the whole, with a continuance of the very cold weather reported at the end of October.—*Drumnadrochit*. R ·34 in. less than the average of 9 years.

XIX. *Watten*. Generally fresh and open, with high winds and cloudy skies.

XX. *Dunmanway, Coolkelure*. Very wet and very mild.—*Cork, Clarence Place*. Chiefly remarkable for excessive R (2·82 in. above the average), number of rainy days, and mild temp.; several gales.—*Broadford, Hurdlestow*n. Wet on the whole, but not very cold. R ·70 in., and rainy days 2, above the average of 11 years.—*Miltown Malbay*. Wild and wet, with the exception of one week near the end.

XXI. *Ballindoney*. Mild and very wet; 5 days with more than half-an-inch of R.—*Kilkenny, Sion Villa*. Exceptionally wet; R two inches above the average of five years. Very cold, damp, and dark days, and much gloomy weather to the end.

XXIII. *Belfast, Springfield*. Fine and open, with no S, a little sleet, slight frosts and not too much R; in fact the farmer could not have been served better. Nearly calm with high bar. from 22nd to 24th, when a severe gale was blowing in the English Channel.

DECEMBER.

I. *Muswell Hill*. R very near the average. The first week was dry, followed by a wet period of 11 days; the last week also was rainy.—*Finchley, Etchingham Park*. Total R very near the average. Slight R fell on 5 out of the first 10 days, followed by 8 days nearly all wet; 5 dry days succeeded, and R or S fell on 6 of the remaining days.

II. *Abinger Hall*. Mild and open throughout, with rather more than average R.—*Wallington*. Warm, wet and sunless. Mean temp. $4^{\circ}0$, and R .32 in., above the average of 5 years. Duration of sunshine 17 hours less than the average.—*Hythe*. Very showery and unsettled. The last 4 days unusually mild.—*Keston Tower*. An ordinary December without much frost. An average amount of R, very little fog.—*Birchington, Thor*. Very mild; the greater part overcast and foggy and scarcely any sun. S.W. gale from 5th to 7th.—*Lewes, Saxonbury*. Very mild; frost on only two nights. Heavy floods on 16th and 17th.—*Lyss, Lingwood*. The first week bright on the whole, then dull to the 31st, when there was bright sun for 4 hours.

III. *St. Albans, The Grange*. Warm, especially towards the close, the mean temp. of the last two days being $49^{\circ}1$.—*Hedsor*. Changeable; fine and cold, wet and misty, alternately. Cold, with some S at Christmas. Mild and wet at the close.—*Culham Vicarage*. A dull, cold month; the last few days warmer.—*Bloxham Grove*. The opening days were fine and pleasant, followed by gloomy and damp weather with occasional S. From 17th to 23rd there was no R, but the air was raw, cold and foggy. Although the temp. fell below 32° on 12 days there was severe frost only on 11th and 22nd. *Pitsford, Sedgebrook*. R .61 in. less than the average of ten years.

IV. *Colchester, Lexden*. Temp. remarkably constant, very little sunshine, no hard frost.—*Sudbury, Friars Street*. Unsettled, but mild on the whole. L at night in the second week.—*Ipswich, Bishop's Hill*. Unsettled weather from 4th to 16th, with much high wind, and gales at times; cold and calm from 16th to 23rd, cold E. winds with fogs and R from 23rd to 27th, then very mild. R .06 in. more than the average.—*Denver*. Warm at the beginning and end of the month, cold in the middle.

V. *Bishops Cannings*. Cool on the whole, with some sharp frosts; very warm at the end. R .20 in., and rainy days 5, above the average.

—*Tavistock, Rose Villa.* Very damp, dull and stormy, and rather wet and warm, with R on 27 days. The max. temp. was above 50° on 10 days, and below 40° on only 1 day. Gales on 10 days, L on 3 days.

—*Mamhead Rectory.* Persistent R with steadily rising bar.—*Kenton, Southtown House.* Much R, with a high and rising bar.—*Axminster, Great Trill.* Very stormy at times, but mild.—*Stowell Rectory.* A warm December with average R.

VI. *Cirencester, Further Barton.* At first mild and changeable, with a gale and T on 5th. After the 10th, colder with much fog and night frosts. The sun invisible for 7 days in succession after the 21st. A rapid rise of temp. on 28th.—*Ross, The Craig.* R about 12 per cent. below the average, rainy days rather above the average. Mean max. temp. very near to, but mean min. 2° below, the average. The sky was very cloudy, indeed almost uniformly overcast from 23rd to 30th.

VII. *Ketton Hall.* Very mild and open; foggy, dull and damp weather very prevalent. R .75 in. below the average. A little S on 6th, 7th, and 13th, but not enough to cover the ground.—*Hodsock Priory.* Dull and mild, with very little frost or S, and about average rainfall.

VIII. *Bolton, The Park.* Strong W. winds between 3rd and 7th, and cold E. gales on 23rd and 24th; the mean wind velocity for the month having been exceeded only 3 times in ten years. R .42 in. below, and mean temp. 1°.1 above, the average. Duration of sunshine 6 hours less than the average.—*Southport, Hesketh Park.* The most sunless month on record, and very warm during the first six and last two days. R half-an-inch below the average, none falling from the 17th to 27th, inclusive. Underground water exceptionally low. Sky overcast in the daytime for nearly nine-tenths of the month, and duration of sunshine the smallest on record for any month.—*Seathwaite Vicarage.* Generally mild and rather rainy, with but one fall of S, and 10 days frost from 18th to 28th.

IX. *Nun Monkton.* Very foggy and cloudy throughout, with gales on the 4th, 5th, 6th, 12th, 13th and 24th.

X. *Ulpha Vicarage.* Some exceptionally rough weather from the 4th to 10th; cold E. winds and bright weather from 17th to 27th, and the last 4 days very mild, with fog and R. R .77 in. below the average.

XI. *Llanvihangel Court.* Very warm at the beginning and end; the rest of the month cold, but never severe. A sunless and dismal

month.—*Douglas, Victoria Road.* Very stormy ; gales on 12 days, and high winds on 5. Slight S on 4 days.

XII. *Lilliesleaf, Riddell.* An unusually dull month, with much E. wind.

XVI. *Dollar.* Wet and cold till nearly the end.—*Coupar Angus.* R 1·44 in. above, and mean temp. 0°·5 above, the average.—*Ballinluig.* A rather wet month. S on the ground from 6th to 12th, on 15th, 16th and 29th; greatest depth 3 inches on 7th.—*Dalnaspidal.* S fell on 22 days.

XVIII. *Glenaladale.* A fine winter month, but the first week stormy.—*Loch Maddy.* From 17th to 27th the wind blew hard, almost continuously from S.E. or E., which is very unusual at the time of year. The remainder of the month does not call for special remark.

XIX. *Watten, H.R.S.* An open month, but a series of storms of wind and R, with thick and hazy weather.

XX. *Coolkelure.* Almost a record month for R, 6·55 in. having fallen in the 3 days, 23rd to 25th, with S.E. wind, which usually accompanies our heaviest falls.—*Cork, Clarence Place.* R the greatest for at least 44 years, with the exception of December, 1872. The fall of 2·30 in. on 23rd has not been exceeded since July 26th, 1872, and in the 5 days ending 25th, 7·89 in. fell, causing great floods in the low-lying portions of the city.—*Clonmel, Bruce Villa.* From 9 p.m. on the 21st to 9 a.m. on the 26th 8·26 in. of R fell, and in the 24 hours ending 2.30 p.m. on the 24th, 4·50 in. fell ; only twice during 30 years has more than 3·00 in. been measured any morning.—*Broadford, Hurdlestow.* A damp and mild month, but not much R on any one day. R ·68 in. below, and rainy days 6 above, the average of 11 years.—*Miltown Malbay.* A stormy, boisterous and wet month.

XXI. *Ballindoney.* The wettest month of the year. From 21st to 25th 4·54 in. of R fell, causing great floods on the *Slaney* at *Enniscorthy*.—*Kilkenny, Sion Villa.* Most inclement weather, very damp and wet almost the entire month, which closed very mild. Gales, thick fogs, some frosts, and slight H and S.

XXII. *Lauderdale.* Wet and cold, with S or W. winds in the first half, and N. or E. in the second half.

XXIII. *Belfast, Springfield.* More or less S, sleet or R fell every day till the 18th ; fog and slight frost followed, and a gale on 23rd and 24th. The remainder was dull, damp and mild.

OBSERVERS' NOTES ON THE YEAR 1895.

ENGLAND.

DIVISION I.—MIDDLESEX.

TEDDINGTON, GOMER HOUSE.—A remarkable year by reason of the great frost of February, the drought of the first six months, (R only 5·12 in.) the heat of the last week of September, and the cold of the last week of October.

STRAWBERRY HILL.—During February, May, June and September, 119 days, only 1·78 in. of R fell on 16 days, yet the total fall for the year is only 2·55 in. less than the average of seven years. The great frost lasted from the third week in January to the first week in March.

WESTBOURNE GROVE.—The year was remarkable, chiefly for the severity of the continuous frost in February and March. In the first half only 6·22 in. of R fell or little more than a quarter of the total. September was remarkably fine and warm, and mild weather, with occasional frosts, continued to the end of the year.

GLOUCESTER PLACE.—Two days, September 6th and October 5th, produced very nearly one-eighth of the year's R.

PORTSDOWN ROAD.—A very dry spring and early summer. The R of eight months was below the average, but July and November had considerably, and August and December slightly, more than the average.

MUSWELL HILL.—R 4·76 in., or nearly 17 per cent. less, than the average of 23 years. This deficiency is mainly due to the scanty R of the first six months, the total for that period (6·11 in.) being 49 per cent. less than the average, while in the second six months 17·33 in. fell or 1·17 in. more than the average. There were eight months with deficient R and four with an excess. There was one absolute drought of 20 days in September, and there were two partial droughts, one of 37 days, with ·33 in. of R ending March 5th, and the other of 32 days with ·18 in. of R, ending May 29th. The number of rainy

days was 43, or 23 per cent., less than the average. There was only one fall exceeding an inch in 24 hours, and it is remarkable that it occurred in the very dry month of September.

FINCHLEY, ETCHEMINGHAM PARK.—R about five inches, or nearly 18 per cent., less than the average. This deficiency is chiefly due to the small amount of R in the five months, February to June, as during that period (150 days) only 3·74 in. of R fell on 41 days, the first half of the year yielding 6·02 in. and the second half, 17·13 in. There were two absolute droughts; 18 days ending February 23rd; 20 days ending September 30th; and two partial ones; 38 days with ·36 in. of R, ending March 3rd; 32 days with ·23 in. of R, ending May 29th. No fall exceeding an inch in 24 hours occurred, and the number of rainy days is about 22 per cent. less than the average.

HARROW WEALD.—In the first six months only 7·50 in. of R fell, an amount identical with that in the first half of 1893.

DIVISION II.—SOUTH EASTERN COUNTIES.

HASLEMERE, LOWER STREET.—R 2·75 in. less than the average of 23 years.

HASLEMERE, HAZELHURST.—Very cold early in January, and again from 24th, the ice bearing from January 28th to February 28th. A complete thaw occurred on March 6th and R and gales at the end of the month. A showery April and dry May and June gave only half a crop of hay. The drought broke on July 18th (1·33 in. of R mostly falling in three hours), and it continued wet till the middle of August with TSS on 10th and 22nd. September was fine, warm and sunny, and October mild to 24th, when sharp frosts, after R, cut off nearly everything. November was wet with frequent gales, and little sun; December open and rainy, and cold from 20th to 27th.

HASCOMBE RECTORY.—Water was still scarce at the close of the year in many wells on the edge of the sandstone formation.

CRANLEIGH COMMON.—The early part of the year was remarkably cold, and in March vegetation was 42 days later than the average, but it recovered about the end of April, and in June was 14 to 20 days in advance. R very deficient until the end of June. September was remarkably hot and dry, water failing in wells.

ABINGER HALL.—January and February were remarkable for the long unbroken spell of severe weather, which continued well into

MARCH. Genial weather followed till the end of June. July and August were cold and wet, but September was fine.

FARNHAM, SEALE.—In May only 23 in. of R fell on 5 days, and none fell in the first 18 days of June.

REDHILL, OXFORD ROAD.—R 2·48 in., and rainy days 18, less than the average of 27 years.

REIGATE, DOODS.—R 1·85 in. less than the average of 10 years, the first six months showing a deficiency of 4·83 in., and the second six an excess of 3·98 in. The low temp. in January and February was the severest since January, 1838, commonly known as Murphy's winter.

NUTFIELD, HOLMESDALE.—R 1·21 in. below the average of 7 years. Three absolute droughts occurred—15 days ending February 20th, 15 days ending June 17th, and 19 days ending September 30th.

HIGH ASHURST.—A severe and continuous frost commenced on January 22nd, and lasted until March 14th, the min. temp. being above freezing point on only three nights, while on February 15th the max. was only 29°. Cold E. or N.E. winds prevailed until midsummer, and the R of the first half year was only 6·56 in. Absolute drought prevailed for 14 days ending February 19th, and partial drought for 32 days, with 32 in. of R, ending May 29th, and for 30 days, with 28 in. of R, ending June 30th. November was the wettest month since October, 1891.

UPPER GATTON.—February, May, June and September had less than 1·00 in. of R, and July and November had over 5·00 in.

KENLEY, INGLESIDE.—The features of the year were the extremely cold February, mean temp. 28°·5, and the remarkably fine hot week closing September, the temp. reaching 81° twice. The summer was on the whole fine with the exception of July which was very unsettled. November was wet and mild and December open and stormy. R 4·86 in. below the average of 8 years.

LEATHERHEAD, OXSHOTT.—Far more harm was done to vegetation by the drought of May, June, and the first half of July than by the frost of February.

CAMBERLEY, BRACKENDALE.—Very severe and continuous frosts in the early part of the year, and remarkably low day temp. but not much S. A very warm and dry summer, and the latter part of the year wet and mild.

WALLINGTON.—The great frost in the early part of the year, the dry September, the great cold at the end of October, and the

warmth of November in addition to the smallest total rainfall (with the exception of 1893) in ten years, make 1895, perhaps, the most remarkable year of the century.

CLAPHAM PARK.—R for the first six months (4·81 in.) was far below the average, the driest months being February with ·14 in., June with ·17 in., and May with ·41 in.

DYMCHURCH.—R 7·15 in. less than the average, and water scarce in the summer. Of the R, 13·17 in. fell at night and 9·62 in. in the day. The first three months were remarkably cold.

ROLVENDEN, HOLE PARK.—R less than the average, and unequally distributed ; in 80 days ending July 17th only ·60 in. of R fell, and in 27 days ending August 13th, 5·61 in. fell. Total for the first six months, 7·06 in., and for the last six, 18·75 in.

TENTERDEN, SUMMERHILL.—The driest and hottest year in 17, and a very disastrous one for farmers. Owing to the long drought, there was no grass, no hay, corn was very short in straw, roots did badly, and though there was a large quantity of hops the quality was poor.

TENTERDEN.—The driest year since 1871, and R four inches less than in 1893. In the first six months only 6·83 in. fell, the smallest quantity in 32 years, though 1870 had only 7·14 in. In 66 days ending June 30th, only ·38 in. of R fell, and partial drought prevailed for 83 days ending July 17th, with ·65 in. of R. This is almost as long as the drought of 1885, and longer than those of 1887 and 1893. The showery April and the heavy R (4·95 in.) from July 18th to August 13th made the character of the year better. The greatest heat occurred in September, the mean temp. being 62°, and the max., on 6 days, over 80°. The dry state of the ground enabled the October and November rains to be easily absorbed, in great contrast to 1894. May and June were the driest in 33 years, February and September were also dry. There were 165 days with temp. above 60°, 74 above 70°, and 9 above 80°. There were 74 frosts in screen, 124 on grass, and 6 days in January and 11 in February on which the temp. did not rise above 32°. Duration of sunshine, 1,764 hours, of which, 269 were in May and 253 in September.

HYTHE, FROGHOLT.—The drought in the spring and early summer, which has been more or less a feature of the last few years, was the chief characteristic of this year, the heavy R in October and November failed to bring the total up to the average.

TUNBRIDGE WELLS, CAMDEN PARK.—The remarkable features of the year were, the 64 days ending July 1st, with only .36 in. of R on 10 days, the 47 days ending October 1st, with only .84 in. on 9 days, and the very marked contrast between the fall of the first 9 months and of the last 3, the former period yielding only 13.15 in., and the latter 12.89 in.

ASHFORD, BETHERSDEN.—Extremely cold in February. From April 26th to July 18th, only three-quarters-of-an-inch of R fell, and May and June together had less than a quarter-of-an-inch.

HARRIETSHAM, STEDE HILL.—R considerably less than in 1893. S fell on 11 days in January, and 6 days in February.

MAIDSTONE, MOUNT HOUSE.—This register began in 1869, and 1895 has passed the record in the following respects:—The coldest February (min. temp. — 2° on 8th); the driest May and June, R only .05 in. and .04 in. respectively; the hottest September and the coldest October. Total R the smallest since 1884. Number of frosts 97, or 30 more than the average.

BEARSTED GREEN.—There was continuous frost from January 27th to February 12th. The max. temp. rose above 80° on three days in June, one in July, and two in September. No R fell in 14 days from February 6th, and there were two periods of 13 rainless days.

KESTON TOWER.—A year remarkable for extreme cold in the early part and for drought in the summer. On February 6th, the ther. registered 2°. May, June, August and September were extremely dry, and the last week of September was the hottest of the year.

BIRCHINGTON, THOR.—Very severe weather at the commencement, was followed by a deficiency of R, lasting the greater part of the year. The summer was very hot and dry, and the autumn very mild right to the end.

RECOLVER, BROOK.—The long and severe frost, followed by light R until the drought set in, so effectually dried the subsoil, that at the end of the year some brooks that generally run strongly, only ran for a few hours after rain.

ST. PETERS.—Apart from the drought extending over February, March, April, May and June, and the extreme heat of September with absence of R, the point to be noticed was the prevalence of dense fog from May 22nd to 28th.

MARGATE, APSLEY HOUSE.—R the least during the 15 years recorded, and the only total below 20 inches; 3.50 in. less than the

average. There were six months with less than one inch, five of them being consecutive.

FRINDSBURY, MANOR FARM.—S fell on January 2nd with severe frost to the 12th, then wet and mild to the 21st, and a TS on 23rd, followed by very severe frost to February 17th. The very slight R from April 28th to July 17th was trying to all crops, but from that date to August 13th, 5·82 in. of R fell doing much damage. September and October were very favourable, but the R during November and December was heavy, 7·11 in.

CHISLEHURST, SOUTHLAUND.—In the first half of the year the R was less than in any corresponding period since 1880, and the June fall (·07 in.) is the smallest with one exception in any month during the same period.

ROCHESTER, HOO ST. MARY.—Severe frost prevailed in the first two months, and in the latter part of February the River Medway was completely blocked by large ice floes, stopping all craft; the frost did good in thoroughly pulverising the soil, and but for the long drought in May and June, the summer would have been all that could be desired. In the first half, the R was ·75 in. less than in the dry year, 1893.

ANGMERING.—The R of the last three months of the year almost equalled that of the first nine months.

CHICHESTER, WESTGATE MEADOW.—In the first half of the year only 8·36 in. of R fell, but in the second half 20·24 in.

WATERGATE.—Two absolute droughts occurred—18 days ending February 23rd, and 15 days ending May 16th—and three partial droughts—44 days, with ·41 in. of R, ending March 5th; 46 days, with ·39 in. of R, ending June 12th; and 29 days, with ·24 in. of R, ending September 23rd.

ST. LEONARDS, THE GROVE.—R in the first nine months 14·10 in., and in the last three months, 14·07 in.

FALMER.—The R for the first half year was only 8·04 in., which is 1·37 in. less than in the dry year, 1893, but drought was not so severely felt. The R of the first nine months was 15·15 in., and of the last three months 18·68 in., making a total about the average of 36 years. A pleasant year on the whole.

HASTINGS, GUESTLING RECTORY.—The chief peculiarity was the small R in February, May and June, yielding two absolute droughts of 18 days duration ending February 23rd, and May 15th, and partial drought for 64 days, with ·38 in. of R, ending June 30th.

MARESFIELD, FOREST LODGE.—The R of 1895 is 4·05 in. less than the average of 40 years. The months in defect were January, by ·66 in.; February, 1·84 in.; May, 1·84 in.; June, 1·81 in.; September, 2·35 in.; and October, ·01 in. Those in excess were April, by ·55 in.; July, ·53 in.; August, ·23 in.; November, 2·30 in.; and December, ·85 in.

MAYFIELD VICARAGE.—R, 3·62 in. less than the average of ten years, being the smallest fall in that time excepting in 1887, when it was 2·03 in. less.

CROWBOROUGH, THE OBSERVATORY.—R, 6·82 in. less than the average of 25 years. During the first six months the fall was only 7·97 in., the average for the period being 15·13 in. In consequence of the severe cold during January and February, the mean temp. for the year was only 47°·5, nevertheless fruit was very plentiful.

WADHURST, LOWER COUSLEY WOOD.—The R of the first six months (7·56 in.) was 4·45 in. below the average, and crops were drying up instead of ripening.

VENTNOR.—The quantity of R falling during the night was 21·93 in. and, in the day time, 6·38 in.

BONCHURCH, THE LILLIES.—The year will be remembered for the cold in the early months. The summer was dry, the R coming rather too late for the crops. Fogs were prevalent and temp. was high towards the end of the year.

TOTLAND BAY.—R, 2·88 in., and rainy days 35, less than the average of 10 years.

OSBORNE.—The R of the months of February (·07 in.), May (·37 in.), and September (·15 in.) was exceptionally small, but the total for the year is only about 4 per cent. less than the average of 38 years.

COWES, HOLMWOOD.—R, 1·66 in. less than the average of 14 years. Two absolute droughts occurred, 23 days ending February 23rd, and 15 days ending May 16th.

CHRISTCHURCH, MUDEFORD.—R below the average, February and September being exceptionally dry. Absolute drought prevailed from February 1st to 23rd, May 2nd to 17th, and August 27th to September 9th. Partial drought from February 1st to 28th, with ·05 in. of R; May 2nd to 31st, with ·18 in. of R; and August 27th to September 30th, with ·05 in. of R.

EMSWORTH, REDLANDS.—R, ·28 in. above the average of 12 years. R very small from the middle of January to the middle of July, 23

days absolute drought occurring in February. The R was heavy in the latter part of July and in the last three months. Severe frost continued from January 1st to March 13th, after which high temp. prevailed. No severe TSS or dangerous gales, and the year ended with summer warmth.

WICKHAM, WEST LODGE. Total R 62 in. less than the average of 11 years. There were two absolute droughts, 21 days ending February 22nd, and 15 days ending May 16th. No fall of an inch in 24 hours.

ALTON, HILL HOUSE.—In February, May, June and September, only 4·77 in. of R fell on 22 days. November was the wettest month with 6·00 in. On May 24th, in an hour-and-a-half, 2·43 in. of R fell, this is the greatest recorded for at least 15 years.

ROTHERWICK, TYLNEY HALL.—The worst year for agriculture in the memory of the oldest inhabitant, only 6·50 in. of R fell in the first six months, and everything dried up.

HARTLEY WINTNEY.—R below the average. February, May, and June very dry. Only two days on which the fall exceeded an inch.

STRATHFIELDSAYE GARDENS.—Very severe frost in February, September the hottest on record, and on October 2nd sudden sharp frost.

HECKFIELD, PARK CORNER.—The cold in February and March was the greatest experienced in 25 years, while higher temperatures were reached in May and September than ever before.

SUNNINGDALE, LYNWOOD.—Chiefly remarkable for the very dry February, and for the fact that out of a total R of 25·25 in., only a little over six inches fell in the first six months.

HUNGERFORD, DENFORD PARK.—The three growing months were very droughty, hence the hay and corn crops were poor. The last half of July and first half of August being wet and also warm, gave abundant root crops and good aftermath. The last half of August and all September being dry and exceptionally hot gave splendid harvest weather, had there been a real harvest to carry. November was very wet, but the thirsty soil prevented floods.

BRACKNELL, WARFIELD.—The early part of the year was dry, but much R fell in the late summer and autumn. The cold in February and March was very severe for about six weeks.

READING, PORTLAND PLACE.—Severe frost prevailed in January and February. March and April were rather fine spring months, but on May 2nd a great drought set in and only a few partial showers

fell till July 18th, after which R was copious, but as the harvest was early the R, which lasted till August 14th, interfered much with it, but saved the grass and green crops. September was dry and very warm, but a severe TS on the 6th prevented a second drought. October was cold and the R confined chiefly to the first ten days, when it was fairly heavy ; severe frost occurred in the last week. November was wet and mild with many gales but no floods. December was very gloomy but, on the whole, mild. The R in the first six months was 6·77 in., and in the last six months 17·85 in.

READING, EAST THORPE.—R, 2·01 in., and rainy days 19, below the average of ten years.

LAMBORNE, COLLEGE HOUSE.—The year was characterised by great drought and heat in May, June, and September, which was detrimental to vegetation, but the latter part of the year was favourable. R almost an inch above the average of seven years.

FARRINGDON, THE ELMS.—R, 3·38 in. less than the average of 18 years, but more than seven inches greater than in 1893.

DIVISION III.—SOUTH MIDLAND COUNTIES.

ST. ALBANS, THE GRANGE.—R about an inch below the average. Nearly three times as much fell in the second half as in the first, in which there was absolute drought for 15 days and partial drought for 35 days. February, May and June were the driest months, averaging 36 in., and July, August and November, were the wettest, averaging 4·52 in. Although the spring and summer were warm and the temp. in nine months was above the average, the extreme and prolonged cold in January and February, made the year, as a whole, rather a cold one.

THROCKING RECTORY.—February was very cold, and September considerably warmer (mean temp. 60°·7) than any corresponding month in 15 years. There was absolute drought for 16 days ending February 17th, and partial drought for 33 days ending March 5th, with 28 in. of R. Total R 24 in. above the average of 15 years.

SLOUGH, LANGLEY.—R 1·45 in. below the average of 23 years. In the 25 weeks ending July 17th, or almost half the year, only 3·98 in. of R fell. There were partial droughts for 46 days ending March 18th, with 44 in. of R, and 61 days ending June 27th, with 59 in.

HEDSOR.—R very deficient till the middle of July ; especially in

February, May and June, severe drought prevailing during the latter two months. Very wet during the latter part of July and till the middle of August, when dry weather again set in lasting till October. Wet autumn. Intense cold from the last week in January till early in March. Very cold and unseasonable in the middle of May; September dry and very warm, the heat at the close being abnormal, but followed by a rapid fall of temp. on October 2nd. Very warm at the close of the year.

ADDINGTON.—R less than the average, and no fall of an inch on any day. February was the coldest and, with one exception, the driest in a quarter of a century. May and September were each the driest and warmest in the same time. October the coldest, and November the warmest and wettest.

WOBURN SANDS, SANDYMOUNT.—The first 6 months were very dry, January being the only month with an excess, and both the total R and number of rainy days were below the average.

STONY STRATFORD, THORNTON.—R below the average. May and September being the driest months of those names for at least 27 years.

FILGRAVE RECTORY.—From April 28th to June 26th there were only eight days on which R fell and that in small amounts, but from July 18th to August 13th, R fell in large quantities and almost daily.

CAVERSHAM, CANE END.—On July 18th fell the first half-inch of R in one day since December, 1894; this broke the partial drought of 80 days, during which hundreds of acres of corn were totally ruined; the haycrop also was almost *nil*.

CULHAM VICARAGE.—From January 19th to July 19th the R was very small, but in the month following that date nearly as much R fell as in the previous six. September was hot and dry but for one heavy TS on the 6th. The last three months were wet. The driest May on record. Total R about three inches below average.

PYRTON MANOR.—In the five months February to June, only 3.83 in. of R fell, and there was absolute drought for 22 days from February 2nd, and partial drought for 61 days with .50 in. of R from April 28th.

STANTON ST. JOHN'S, WOODPERRY.—The driest year in memory of man and most disastrous for stock keepers until the last three months which were wet.

BLOXHAM GROVE.—The year was marked by two periods of

drought. The first continuing through May, June and part of July, the second, in September, accompanied by great heat. Pastures and spring sown corn suffered severely, the hay crop was scanty and harvest very deficient. Though the R in the last three months was considerable, the total for the year did not reach the average.

WEEDON, LITCHBOROUGH.—R .64 in. less than the average of ten years.

EASTON MAUDUIT VICARAGE.—A wonderful year with a notable frost in January, February and March ; the temp. in February being the lowest on record ; the most tremendous hurricane remembered, in March ; a notable drought in May and June ; extraordinary heat at the end of September ; disastrous TSS in January, May, June, July, August and September, and mischievous gales in November and December.

HARGRAVE.—A phenomenal year. (1.) A very destructive TS on January 23rd ; (2.) Temp. below zero in February ; (3.) A destructive hurricane on March 24th, 100,000 trees uprooted ; (4.) The great drought ; (5.) The phenomenal heat in September.

COREY, WELDON GRANGE.—Agriculturally and pastorally a calamitous year, characterised by intense cold, intense heat, violent gales, and three distinct droughts, in spring, summer and autumn, all occurring at critical periods.

STAMFORD, ST. MARTINS.—S first fell on January 31st, and from that date frost increased in intensity till all unprotected water was converted into solid ice and frost penetrated to a depth of 1 ft. 9 in. in a hard road. Over 100 yards of iron water main were split by frost at Stamford.

BEDFORD, THE GROVE.—R only .19 in. less than the average of eight years, but the number of rainy days the smallest on record. In four months, February, May, June and September, R only fell on 16 days altogether. The wettest July since 1885.

ABINGTON PIGOTTS.—The year opened with frost and S, and continued frosty with the exception of about a week, till February 21st. Heavy R (1.30 in.) fell on July 21st, and very severe TSS occurred on August 21st and 22nd, but probably the most noticeable fact is that the R in the two months July and August exceeded that of the eight months, January, February, March, April, May, June, September and October, by .01 in.

DIVISION IV.—EASTERN COUNTIES.

WALTHAMSTOW, PROSPECT HILL.—Remarkable for the severe frost in January and February, and for the long fine summer. Notwithstanding the high temp. of April, May, June, August and September, the temp. of the year is $1^{\circ}7$ below the average.

HAVERING GRANGE.—A cold and early spring was followed by dry, hot weather. The autumn was hot, and early, but subject to extreme changes of temp.

BILLERICAY, BURGHSTEAD LODGE.—The year was distinguished by the very small R of the first six months, when only 4·34 in. fell or about 43 per cent. of the average. During February, May and June only .63 in. fell on 14 days, and in 75 days ending July 11th, .76 in. fell. Notwithstanding more than an average fall in October, November and December, 1894, and 22 falls of S or sleet in the first 65 days of 1895, the local land springs ran short after midsummer, and the water supply was scanty to the close. Total R about 17 per cent. less than the average.

CHELMSFORD, HIGH STREET.—The smallest R in any year of the 27 recorded, except 1887, when .46 in. less, fell.

MALDON.—Frost set in on December 31st, 1894, and continued till March 7th, 1895, after which there were four months with less than an average of one inch of R per month.

BRAINTREE, BOCKING, FENNES.—R about six inches below the average, and only four years since 1851 have been drier. In every month except July and December, the fall was below the average. There was absolute drought for 15 days ending February 20th, and partial drought for 35 days, with .26 in. of R, ending March 8th, and for 29 days, with .28 in of R, ending June 30th.

IPSWICH, BISHOPS HILL.—R 5·52 in. less than the average. January, March and December had slightly more than the average R, and July was very wet, while there was considerable deficiency in the other eight months. Corn and hay crops suffered greatly from the drought.

HAWKEDON RECTORY.—A remarkable year for varied weather. Very hard frost in February ; an extraordinary gale on March 24th ; only 7·35 in. of R in the first six months ; very heavy R from July 18th to August 14th with severe TSS ; unprecedented heat in the last week of September ; very cold for the time of year at the end of October. Though the year promised to be so very dry, the total R is about the average.

ASH BOCKING.—There is not a well in this parish, the inhabitants being dependent on ponds in the boulder-clay, and at the end of the year they were mostly seriously low.

WALSHAM-LE-WILLOWS.—Temp. very low at times in both January and February. September was unusually hot and dry, the average max. temp. being $66^{\circ}7$.

LOWESTOFT, BRYN-Y-MÔR.—From April 1st to June 30th R fell on only 21 days, the total for the 91 days being only 1.98 in. Only two days of R were recorded in September, but the dew was heavy at the end of the month, and yielded .06 in.

GELDESTON.—R about 2.37 in. less than the average. Less than an inch fell in each of the five months, February, April, May, June, and September.

CANTLEY.—Sharp frost and a good deal of S in January and February ; a fearful hurricane on March 24th, and S on two days. April, May and June, very dry, but the drought broke up in July, and TSS occurred on 11 days in August. September very fine and dry ; October showery, and November and December very stormy.

YARMOUTH, MARKET PLACE.—R 4.81 in. less than the average of 25 years, none falling between April 6th and 20th, May 19th and 30th, June 1st and 11th, or September 11th and 27th. From May 20th to June 30th, 42 days, only .45 in. of R fell. Temp. average. S on 46 days.

NORWICH, BRUNDALL.—The most remarkable meteorological events of the year were :—(1) The great frost lasting till March 8th ; (2) The violent hurricane of March 24th, levelling trees by the thousand and doing an immense amount of destruction ; (3) The fine warm summer ; (4) The abnormal heat at the close of September ; (5) The unusual cold at the end of October ; (6) The violent gales of November and December. R about two inches less than the average.

NORWICH, ESSEX STREET.—February very cold ; a terrific gale on March 24th causing great destruction of property. May and June dryish months. Heavy R on August 13th (1.23 in.), and a severe TS on the 22nd, a house struck by L in this street. September very dry there being only two days on which R fell.

SPROWSTON, OAK LODGE.—R rather more than the average, but February, May, June and September were extremely dry ; on the other hand, January, July, August and October, were very wet. February was extremely cold. An extraordinary gale on March

24th, which lasted less than two hours, unroofed houses and stacks, and uprooted thousands of trees. On May 16th and 17th H storms and cold winds destroyed foliage, the beech trees never recovering.

NORTH WALSHAM, WORSTEAD.—The coldest February for 40 years, mean temp. $25^{\circ}5$. The greatest wind ever known on March 24th. Very heavy R on August 13th, 2·75 in. The finest September since 1865, temp. above 70° on 21 days. Summer began in March and lasted till October 1st, being the longest and finest summer since 1868, but not so very hot.

HILLINGTON.—R 21 in. less than the average of 25 years. In January and August the fall exceeded the average by more than an inch, and in February, June and September the deficiency was more than an inch.

DERSINGHAM.—The early months were not so dry as in some parts of the country, and July and August were very wet. Extreme cold occurred in February and great heat in September.

DIVISION V.—SOUTH WESTERN COUNTIES.

SALISBURY, MILFORD HILL.—Severe frost in spring. City water pipes frozen for 34 days ending March 12th, and pipe from pump in house to underground tank frozen 28 days ending March 7th.

MERE DOWN.—Another almost rainless February, and drought in May and June. The summer was prolonged through September, but early wintry weather occurred in October. Heavy R with numerous gales in November, and mild weather to the end of the year.

MAIDEN BRADLEY.—R, 1·62 in. above the average of 8 years.

BISHOPS CANNINGS.—R above, and number of wet days below, the average.

LANGTON HERRING.—R, 1·09 in. above the average of 10 years. 1895 will long be remembered for the intense cold and drought of February, the small R of May and September, the great heat of the last week of September, and for the frosts of October, 24th to 30th. Mean temp. 1° below the average of 24 years.

WINTERBOURNE STEEPLETON.—Upwards of one inch of R fell in 24 hours on 8 different dates. The longest period of drought was 28 days ending May 29th, but in the 28 days of February only .02 in. fell.

BLOXWORTH RECTORY.—Had it not been for the almost total

failure of R in February, May and September, this would have been one of the wettest years recorded, though there were scarcely any TSS.

WIMBORNE MINSTER, CHALBURY.—R, 2·61 in. less than the average of 30 years. No R fell in February, which was a bitterly cold month ; average max. temp. 32°·6 ; min., 23°·5.

HAZELBURY BRYAN RECTORY.—The R in the early part of the year was much below the average, February and May being especially dry, the fall in September also was very small. The last three months were very wet, and altogether the year was a very trying one for agriculturists.

IVYBRIDGE, LANGHAM HILL.—R, 5·50 in. above the average. January, November, and December were extremely wet, while February and September were as remarkably dry ; the R in the other months was about the average. January and February were very cold with sharp frost almost throughout, and very rough E. wind. The summer months (May to the end of September) were very fine and warm, with longer spells of dry weather than usual. During November and December there were only 9 days without R.

PLYMPTON, HEMERDON.—R very deficient in February, and the temp. fell below freezing point each night. The springs were unusually low till November, when they rose in a remarkably quiet manner, and at the end of the year were higher than for some time.

TORQUAY, CARY GREEN.—R below the average. The longest periods without R were 24 days ending February 24th, 18 days ending May 19th, 15 days ending September 11th, and 18 days ending September 29th. On four days the fall exceeded an inch.

TORQUAY, WATCOMBE PARK.—February and May were very dry, and drought prevailed all the summer. Total R, 1·98 in. above the average of 11 years.

HOLNE VICARAGE.—As much R fell in the last three, as in the first nine, months. Number of rainy days from January to September, 115 ; from October to December, 74.

TAVISTOCK, ROSE VILLA.—A rather cold and wet year. The longest dry period was 23 days ending February 23rd, the longest wet period, 20 days ending November 22nd. The spring was rather wet at first, but May and June were warm, dry and sunny. The summer was mostly wet and cold till August 13th, then fine and sunny, and very warm from September 23rd to October 1st, the max. shade temp. exceeding 80° on four days, the only days above 80°

since August 17th, 1893. The autumn was mostly wet and stormy, especially in November. Frost on grass occurred on 127 nights, gales on 40 days, S on 35, TSS on 8, solar halos on 35, and lunar halos on 13.

CHUDLEIGH, IDEFORD.—R, 4·66 in. above the average of 9 years, in spite of the fall being remarkably small in some months—February, ·03 in. on 1 day; May, ·88 in. on 5 days; and September, ·44 in. on 4 days. The R in December (6·28 in.) is the largest recorded, both in quantity and number of rainy days (24).

MILTON ABBOT, ENDSLEIGH.—The year was one of extremes of heat and cold, and of wet and dry periods. Deep S and severe frost occurred in January, but the snow-fall as a whole was slight. Fogs were very prevalent.

POLAPIT TAMAR.—Intensely cold winter, particularly throughout February, lasting practically for two-and-a-half months until the middle of March. Drought from the end of January to the end of June. Continued and great heat during September.

ROUSDON.—The year was remarkable for great meteorological changes. On January 12th and 13th, gales and heavy S storms occurred, rendering travelling precarious and dangerous, and leaving a long catalogue of accidents. February was marked by intense and long-continued cold. May was remarkable for a sudden cold wave, the max. temp. in shade being 72°·3 on 14th and only 50°·8 on 17th. The summer months were very fine and dry, September being the sunniest of the last 12. Strong winds and gales occurred in November, the four days, 23rd to 26th, showing a total movement of 2,817 miles. December was very dull with much dense fog, and no sunshine was registered in the 9 days ending 30th.

AXMINSTER, GREAT TRILL.—R, ·69 in. above the average of 12 years. R fell on only one day in February, and none fell in the 29 days ending May 30th.

PAR STATION, PENELICK.—After the severe cold in January and February, the temp. became comparatively mild, and genial weather was the characteristic of the remainder of the year.

CREWKERNE, BINCOMBE HOUSE.—R, 2·30 in. less than the average of 27 years. February was very dry, R only ·05 in. on one day. No R fell in the 29 days ending May 30th.

YEOVIL, WEST COKER.—A severe frost, which lasted nearly two months, set in early in the year and a heavy fall of S took place soon after, which remained on the ground for a long time. The summer

was unusually fine, with short intervals, and lasted almost from April to September, when there were a few very hot days. Total R, .64 in. above the average of 10 years.

ILTON VICARAGE.—R, .25 in. less than the average of 17 years.

WELLINGTON, THE AVENUE.—A very variable year, excessively cold at the commencement. January had more than the average R, but February was most deficient, only .09 in. falling, and the mean temp. was 10° below the average. The spring up to the end of April was seasonable, but May and June were unusually dry. July and August had abundant R, but September was very dry and abnormally warm. The last 3 months were very wet, making the total R about the average.

SANDFORD ORCAS RECTORY.—In November, 1894, 5.99 in. of R fell, causing great floods, but this November, with 6.71 in., there were no floods owing to the greater dryness of the previous months.

STOWELL RECTORY.—January was excessively cold and snowy, February very dry, and the coldest on record. March and April were warm, with about the average R. May was very warm, with little R, and June also was dry. July and August were wet and rather warm. September was excessively warm with very little R, October very cold, with average R. November was very warm and wet, and December warm, with average R.

TAUNTON, NORTON FITZWARREN.—February was the coldest since 1855, and S lay for 3 weeks without melting. There was great drought from May 1st to July 18th, but R in April made the hay crop less scanty than in 1893.

DUNSTER, KNOWLE.—Unusually heavy R in July, August, October, November and December. Very small falls in February, May and September.

RADSTOCK, DOWNSIDE.—February, May and September were exceptionally dry, but November was the wettest for several years.

STON EASTON.—R, 2.68 in. less than the average of 27 years.

HARPREE COURT.—R, 4.13 in. less than the average of 13 years. In May and June, only 1.09 in. fell, and absolute drought prevailed for 21 days ending May 21st.

RADSTOCK, PAULTON HOUSE.—From July 17th to August 17th there were only 6 days without R, and the fall was 6.55 in.

WRINGTON, WEST HAY.—R, .21 in. above the average of 8 years. The fall exceeded the average by more than an inch in January,

October and November, but February, May and June show a deficit of more than an inch.

LONG ASHTON.—R, 3·67 in. less than the average of 23 years, the greatest deficiency being in February, May, June and September. Three absolute droughts occurred, 23 days ending February 23rd, 21 days ending May 22nd, and 19 days ending June 20th. November was very wet, and December had a large number of rainy days with an average R. R fell on only 6 days between April 28th and June 27th.

CLEVEDON, PEMBROKE VILLA.—R about the average. Intense frost, in the latter part of January and in February, caused general bursting of water mains. TSS were frequent.

ABBOTS LEIGH.—February was very cold till the 17th, when a thaw set in. May and June were fine, with high bar.; September was hot, and October warm.

DIVISION VI.—WEST MIDLAND COUNTIES.

CLIFTON, PEMBROKE ROAD.—R 3·60 in., or 10 per cent., and rainy days 20, below the average of 39 years. The fall was deficient in February, May, June, August, September and December. Another year of drought but not so severe or protracted as in 1893.

BRISTOL, FISHPONDS.—R 4·50 in. below the average owing to the slight falls in February, May, June and September. With the exception of July and December the remaining months showed an excess. There were three periods of absolute drought, February 2nd to 23rd, May 2nd to 22nd, and June 2nd to 26th, also partial drought for 37 days with .30 in. of R, ending March 7th, and 61 days with .58 in. of R, ending June 26th. The dry spring spoilt the hay and early fruit crops, but late crops were good. The year will long be remembered for the extremely cold February and for the exceptional heat in September.

STROUD, STANLEY PARK.—February was very cold and the Stroud canal was closed by ice from February 6th to March 5th. September was hot, especially at night, the temp. at 10 p.m. on 24th being 70°·1. Partial drought for 35 days ending March 1st which included absolute drought for 23 days ending February 23rd, absolute drought also for 20 days ending May 21st.

HATHEROP RECTORY.—R 5·43 in. less than the average of 25 years. February was almost as dry as in 1891.

GREAT WITCOMBE, THE KNAP.—R less than the average, in eight months out of the twelve ; on no day did the fall exceed .75 in. Severe and continuous frosts in January and February, and extremes of heat and cold in September.

GLoucester, Churcham.—The ice on the Severn broke up with a roar as of thunder on February 27th. May for the most part was like summer, and June and July were magnificent. Intense frosts with occasional S from October 22nd to 30th. No severe TSS.

CHELTENHAM, NAUNTON PARK VILLAS.—January was the coldest since 1881, and February was also intensely cold, with partial drought throughout and absolute drought from the 2nd to 17th inclusive. April was cold and dry till the last ten days ; May was very dry and warm, with absolute drought for 15 days ending the 16th. June was dry and warm, but a ground frost occurred on the 15th ; a partial drought which commenced on May 2nd ended on the 27th. July was dull, cold and windy, and the first half of August was wet. September was intensely hot and the fourth month with less than an inch of R. The third week in October was extremely cold with S. November was very wet and mild, with only five frosty nights, and December was very damp with a small total R.

TEWKESBURY, BECKFORD.—The R in 242 consecutive days ending September 30th, was only 9.72 in., being 56 per cent. of the average.

ROSS, THE GRAIG.—R about 16 per cent. below the average. January and November had a large excess, the latter month being wet nearly throughout. About one-fourth of the fall in January was S. Prolonged and severe frost prevailed till March 19th, there being in that period only four nights without frost. In 58 days ending June 28th, only .47 in. of R fell and drought was much felt. The late hay and early corn harvests were much interfered with by showery weather.

PUTLEY COURT.—The drought was so severe that on the stiff land of this part, drains 3 ft. 6 in. deep, did not begin to run till after November in spite of 4.58 in. of R having fallen in that month.

HEREFORD, BULLINGHOPE.—R 4.61 in. above the average of eight years.

PEMBRIDGE, MARSTON.—A dry year. Very little R in February, May, June and September, and 55 days ending June 25th, with only .32 in. November was wet, cold and windy.

LUDLOW, ASHFORD.—The main features of the year were : the

heavy fall of S on January 12th; the frost in February; the droughts of February and June; and the general dryness of May and September.

LUDLOW, ASHFORD HOUSE.—The year was remarkable for the large R of January and small fall of February, with its long and severe frost. There was absolute drought for 21 days ending February 23rd, and partial drought for 34 days with 33 in. of R, ending March 7th. May and June were very fine, R falling on only eight days in each. September was very hot, especially the latter half. November was very wet.

BISHOP'S CASTLE, CASTLE STREET. Extremes of cold, heat, drought, wind and TSS, characterized the year. The drought of February was remarkable. S remained on the ground till the end of April.

WOOLSTASTON RECTORY.—With the exception of 1887, the driest year recorded since observations commenced in 1865.

MIDDLETON CHIRBURY.—S lay on the ground from January 6th to March 5th, and absolute drought prevailed from February 2nd to 23rd inclusive.

SHIFNAL, HAUGHTON HALL.—A year of extremes of cold, heat and drought. The temp. fell to zero on February 8th and 9th, for the first time in 50 years, and rose to 84° on May 30th. Total R 3·33 in. less than the average of 55 years. Excessive drought in September.

WOLVERHAMPTON, TETTENHALL.—The driest year, except 1890, in 22 years.

LONGTON, THE MEIR.—R 99 in. less than the average of 10 years. In February there were 22 consecutive days without R.

LEEK, WALL GRANGE.—R 71 in. below the average of 10 years. There were 22 consecutive days in February without R.

REDDITCH, PROSPECT HILL.—R 40 in. above the average of 15 years.

LONG COMPTON, WESTON PARK.—After the long and miserable winter there was much beautiful weather, but the short R of June made a fearful season for agriculture.

STRATFORD-ON-AVON, GUILD STREET.—The great drought which prevailed practically all May and June, did much harm to all crops.

ALCESTER, RAGLEY GARDENS.—The year began with nine weeks continuous frost, which was very severe about the middle of February. May, June and September were hot and dry. Early in

October all tender plants were cut down by frost. November and December were dull and foggy with little frost and no S.

KENILWORTH, THE SPRING.—R 1·52 in. less than the average of 13 years.

DIVISION VII.—NORTH MIDLAND COUNTIES.

ROTHERBY HALL.—The year was remarkable for great extremes. February was exceedingly cold, and July was the only month without frost. There were several periods of drought, and there was much wind in March, October and November. There was a flood on January 20th. Total R, 3·60 in. less than the average of 27 years.

WALTHAM-LE-WOLD.—Great scarcity of R from January to June; only two wet days in May.

BELVOIR CASTLE.—S lay on the ground throughout January, except on 19th and 20th, and February was remarkably severe, the temp. in shade falling to -3° . Heavy gales occurred in March, but April was dry with very little frost. May was warm, dry and bright, with the max. temp. of the year (84°) on 30th. June dry till after the 25th, with hoar frost on 15th. July wet, and August changeable and rainy till 14th. September very bright, warm and dry. October changeable and showery. November mild, dull and damp, with heavy gales and 13 sunless days. December cool, with severe frost on the 22nd, and 16 sunless days.

UPPINGHAM, WEST DEYNE.—Exceptionally small R—the 9th year in succession with less than the average of the 13 years ending 1886. The springs at the end of the year were remarkably low.

KETTON HALL.—January commenced with cold winds. S and severe frost continued almost without intermission till March 18th. After the long winter, drought prevailed till the middle of July. September was exceptionally hot and summerlike. R, 6·93 in. less than the average.

TOLETHORPE HALL.—The most disastrous drought remembered, and a far worse year than 1893.

SPILSBY, BOSTON ROAD.—R, 1·62 in. below the average of ten years. Seven months had less than the average, the deficiency being great in February and September; January was the only month with a considerable excess.

HORNCASTLE, LOUTH ROAD.—Severe frosts occurred in the first half of February. April was cold till the 18th. Sunny days and

cold nights in May, and frost on June 15th which injured potatoes, &c. Several sunny days in August and some TSS. September remarkably fine and warm. Severe frosts at the end of October. November and December were very dull.

LOUTH, GOSPELGATE.—R, 3·22 in. below the average of 31 years. Mean temp. within a quarter-of-a-degree of the average.

LOUTH, WESTGATE.—R, 4·12 in. less than the average of 22 years.

STRELLEY HALL.—A very wet January; a very cold and dry February; a very bright and dry May and dry June; a bright and dry September and a dull December. The third year in succession with great deficiency of R.

MANSFIELD, MARKET PLACE.—R, 2·41 in. below the average of 25 years, making the fourth successive year of deficient R.

HODSOCK PRIORY.—The year was chiefly notable for the very long and severe frost which commenced during the last few days of 1894 and lasted, with scarcely a break, till the first week in March, but was most severe in February, when the temp. in screen fell to $-4^{\circ}0$. January was unusually wet, while February was remarkably dry. After this the spring was fine and mild, May being especially warm and bright. The early summer was normal, most of the R falling in T showers, some of which were heavy and brought the total up to about the average. The harvest months were fine, September being unusually bright, warm and dry with some extremely hot days in the last week. The autumn was generally mild with little S or frost, except for some extremely cold mornings in the last week of October. Duration of sunshine (1364 hours) above the average. Many shrubs were killed by the cold winter and birds suffered severely. All farm crops were above the average.

MICKLEOVER MANOR.—R much needed, many pumps dry owing to springs having sunk so low.

DARLEY DALE, WHITWORTH INST.—February was dry, with remarkably severe frost. Beautiful summer weather prevailed in September and October. There was an absence of heavy falls of R.

GLOSSOP HALL.—The first 3 months were exceptionally severe. May and June were bright and warm on the whole. July was very wet and somewhat cold. The remainder of the summer was fine and warm, and the autumn very mild. R below the average.

DIVISION VIII.—NORTH WESTERN COUNTIES.

CHESTER, CHRISTLETON HALL.—The severe frost in January and February did much damage, and February was also very dry. June was dry bright and hot, and September unusually hot and bright, especially in the last week. Gales occurred at frequent intervals in October, November and December.

NORTHWICH, WINCHAM HALL.—Unusually severe frost occurred in January and February.

NESTON, HINDERTON.—R 8·6 per cent. below the average of 27 years.

WILMSLOW, SOUTHSIDE.—There was a good deal of S in January, and February was dry with severe frost. More R than usual in March, but April, May and June, were dry. July was very wet, September hot and dry.

AIGBURTH, KELTON.—R 2·08 in. less than the average of 20 years. February with ·29 in., and May with ·66 in., were the driest months, and July with 4·08 in. and October with 5·69 in. were the wettest.

GATEACRE, THE NOOK.—Frost commencing on December 30th, 1894, lasted with little intermission till March 7th. There was partial drought for 36 days ending March 5th. The end of September was remarkably hot.

MANCHESTER, ALEXANDRA PARK.—The early part of the year was very cold and dry, the summer, was on the whole, fair; frost and S occurred in October, but the remainder of the year was mild.

BLUNDELLSANDS, PARK CORNER.—The frost and S in the early part of the year and the extreme dryness and heat of the summer, were the principle characteristics of 1895.

BOLTON, THE PARK.—R ·05 in. below, temp. 0°·1 below, and bright sunshine 114 hours above, their respective averages. The only absolute drought (14 days) occurred in February when it could not affect the crops, in dry soils, however, growth was seriously affected by the dry E. winds from May 5th to 8th, in other respects R was pretty equally distributed. The year was a record one for its extremes of cold and heat, both, perhaps, being without parallel.

SOUTHPORT, HESKETH PARK.—An exceptionally dry and calm year. Extremely cold in January and unprecedently so in February. Remarkably warm in September. Total R the smallest, with the exception of 1887, during 24 years and 7·62 in. less than the average. Mean level of underground water abnormally low.

HASLINGDEN VICARAGE.—There was a long and severe frost lasting practically from January 1st to March 5th which penetrated to the water mains. February, April, May and September were very dry. Total R at least 6 inches below the average.

ECCLESTON, ELSWICK LODGE.—R and number of rainy days below the average. Mean temp. slightly below the average; that of January being $6^{\circ}0$ and February $9^{\circ}6$ below the normal.

ST. MICHAEL'S-ON-WYRE VICARAGE.—R $5^{\circ}90$ in. below the average. The max. temp. ($80^{\circ}6$) on May 30th is the highest ever recorded in May. September was the warmest month of the year, and the mean temp. $59^{\circ}6$ was higher than that of any previous September.

CLITHEROE, DOWNHAM HALL.—R about 5 inches less than the average of 35 years.

GARSTANG, FORTON.—Frost of great severity, lasted with two short intervals to March 5th. The first two weeks in April were fine and sunny, and the R of May was only .73 in. July and August were wet, but the latter half of September was rainless and remarkably hot. At Christmas time a strong E. gale lasted for four days. The R during the first six months was $4^{\circ}69$ in. less than the average.

ARKHOLME, STORRS HALL.—Very cold in January and February, with 25 and 28 frosty nights respectively, and 6 days in the former and 11 days in the latter on which the temp. did not rise to 32° ; splendid skating on Windermere. Very dry in February and May and warm in May and June. In July and August $13^{\circ}11$ in. of R fell. A warm and dry September and cold October. Much E. wind in October and November. R of the year three inches below the average.

CARTMEL, HOLKER.—January and February were very cold, and frost continued till March 5th. The first half of the year was very dry. July was the wettest month, and nearly four inches of R fell in 48 hours on 25th and 26th. September was beautiful, with plenty of sunshine.

CARTMEL, PIT FARM.—A dry winter with good skating on Windermere, a cool summer and a fine September made it a very pleasant year. There were 106 frosty nights, and on 49 days the shade temp. reached 70° , nine of them being in May.

CARTMEL, BROUGHTON HALL.—R six inches below the average, February and May being especially dry. There was continuous frost

for 28 days commencing January 4th, thus making a long late frost in February, while October shews two weeks of early frost. In February Lake Windermere was frozen over.

BROUGHTON-IN-FURNESS.—The three months April to June were the driest in ten years. In 1887 the R for these months averaged 1·90 in., while this year it is 1·25 in.

SEATHWAITE VICARAGE.—R the least in any of the seven years recorded, February, May and June all being very dry. The most notable feature was the prolonged arctic temperature, with heavy S, in February.

DIVISION IX.—YORKSHIRE.

WATH-UPON-DEARNE, CHAPEL STREET.—The winter lingered late, and February was one of the 3 driest months in 33 years, and February 8th was the coldest morning since December 15th, 1860. The summer was warm and pleasant. There were many TSS and at unusual times. During November and December there was very little frost, and S occurred only once. Total R about 12 per cent. above the average of 10 years.

DONCASTER, MAGDALENS.—R, 4·00 in. above the average of 10 years. Exceptional frost occurred in February. July was very wet.

YATEHOLME.—In February, only ·50 in. of R fell, while in July the fall was 8·70 in.

MELTHAM, HAREWOOD LODGE.—R and temp. about the average. February, May and September were dry, and July was very wet. The cold in the first two months of the year was most exceptional, and the heat in the last week of September almost equally so, the max. temp. of the year occurring on 24th. TSS were decidedly above the average both in number and intensity.

WAKEFIELD, WALTON HALL.—R, ·76 in. above the average of 20 years.

HUDDERSFIELD, DALTON.—R, 6·54 in. above the average of 30 years.

WAKEFIELD, STANLEY GRANGE.—The R was excessive, the total being 3·65 in. above the average. February, May and September were dry, whilst January, July and November were very wet. The frost during the first two months was exceptionally severe. The spring was bright and warm, and the temp. was phenomenally high

in the last weeks of May and of September, while the last week in October was unusually cold. Absolute drought prevailed for 14 days ending February 20th. There were TSS on 23 days, of which 15 were in June and July.

GOOLE.—R considerably above the average of ten years.

HALIFAX, HALL INGS.—The year was one of sudden and violent changes. Total R, 5·99 in. above the average of 5 years.

HEBDEN BRIDGE, FALLING ROYD.—The first six months were dry with only 16·27 in. of R, but in the last six, 28·75 in. was recorded. January and February were very cold. May and June were brilliant, except for TSS on June 1st and 26th. July and August were cold and wet, but September brought summer weather again, and the last week was almost unprecedently hot. A great change came with the last week of October, which was exceptionally cold.

LEEDS, OLIVER HILL.—Extremely cold in January and February, the temp. in shade falling to 3°; and great heat in May, the max. on the 30th being 83°. In February, only .47 in. of R fell; in May, .38 in.; and in the first 5 months 9·10 in., while in June and July 10·15 in. fell.

YORK, BURTON CROFT.—Severe frost prevailed till the first week in March. The end of May was hot and fine, and the first half of July dry and hot. September was warm, especially the last 9 days, and November was very mild.

HARROGATE, BOG VALLEY GARDENS.—R, 6·16 in. more than the average of 12 years, and the heaviest in that period.

KNARESBOROUGH, CONYNGHAM HALL.—May was rather dry, but during the summer months R fell just when wanted.

SETTLE, THE TERRACE.—The R of the second six months was very heavy—31·56 in.—while in the first half 16·48 in. fell.

SEDBERGH, BRIGG FLATTS.—R, three inches less than the average of 18 years.

THIXENDALE.—The year opened with very severe weather lasting through January and February, with immense S fall. May was very dry and also very cold in the middle. TSS were very frequent from the end of June to the end of August. September was fine, affording grand harvesting weather, and corn was well got. The last week in October was very severe. Violent gales occurred in December, but great calmness prevailed during a good part of the month.

MALTON.—R, .18 in. more than the average of 37 years.

MELMERBY, BALDERSBY.—R, 6·27 in. above the average of 10 years.

AYSGARTH VICARAGE.—The ground was covered with S continuously from December 29th, 1894, to March 12th, 1895, but the depth did not much exceed a foot. Heavy floods in July did much damage.

LEYBURN, BOLTON HALL.—The precipitation in January, 4·78 in., all fell in the form of S. Very heavy R occurred in July, 2·50 in. falling on the 25th. September was glorious, warm and sunny, while November and December were very sunless and wet, with much fog.

INGLEBY MANOR.—Very severe weather till March 10th, with the exception of a few mild days in the middle of January. February was the most severe for over 30 years. The spring was fine, dry and warm. The end of July was very wet, but the autumn was hot and dry, except October, which was very wet. The rest of the year was mild and windy.

DIVISION X.—NORTHERN COUNTIES.

DARLINGTON, CLEVELAND PARADE.—R about two inches in excess of the average of 20 years. July was very wet; February, May and September were dry.

SUNDERLAND, W. HENDON HOUSE.—R 4·78 in. above the arithmetical average, and 5·04 in. above the geometrical mean, of 30 years. The total has only twice been exceeded since 1860, namely in 1872 and 1878. July was the wettest month, with 6·77 in., a fall exceeded in only two months in 36 years. September had only ·40 in. on eight days and was the driest month of that name on record. The duration of time that R fell was in excess of the average. S fell on 42 days, the max. depth was $9\frac{1}{2}$ inches on February 6th. An inch or more of R fell on four days, three of these being July 21st, 25th and 26th, the first record of three such days in any consecutive seven. The R for the seven days ending July 27th was 4·84 in., and for the six weeks ending August 8th, 9·94 in., both in excess of any previous records. 1895 was remarkable for the number of cases of houses in this neighbourhood struck by L. The amount of cloud was above the average, the excess being greatest in November and December; the average cloud for the last three months, excluding thin cirrus, was 7·4, making the cloudiest period of three months since 1881. September was very fine and warm. Fog was above the average for each month except August. There was a noticeable excess of W. winds and a deficiency

of S. and S.W. winds. The N. was the wettest wind in proportion to the time it blew and the W., as usual, the driest.

SUNDERLAND, WILLOW BANK LODGE.—January, July, August, and October were very wet, July excessively so. Heavy R during TSS in June, July and August, and exceptionally heavy R on October 15th. May and September were very dry, the latter phenomenally so. A wet year on the whole, owing to heavy falls.

GATESHEAD, EIGHTON COTTAGE.—R, three inches above the average.

NEWCASTLE, CLIFTON ROAD.—R, 1·40 in. above the average of 27 years. The wettest January and the driest May and September since 1868.

ROTHBURY, CRAGSIDE.—R, the greatest in 30 years, with the exception of 1886 when four inches more fell.

ALWINTON, BIDDLESTON HALL.—Some months were excessively dry and others very wet, October being a record month with 7·65 in. of R.

PAWSTON.—The weather was unusually severe during the early part of the year, and being followed by drought in May and June, all crops were damaged. September was the driest and hottest remembered, which enabled the harvest to be got in quickly. October was cold and the wettest in at least, 23 years and the wettest month since August, 1877. Total R above the average.

MILLOM, LEYFIELD.—R, 7·09 in., and number of rainy days 18, below the average of 5 years. Absolute drought occurred for 16 days ending February 22nd. During the prolonged frost early in the year, Coniston and Windermere were frozen from end to end.

DUDDON VALLEY, ULPHA VICARAGE.—Very cold till the middle of March, and even the rapid parts of the Duddon were frozen over. The spring was backward, succeeded by a very dry May and June ; the hay crops were in consequence late and meagre. Two cold and wet months followed, and were succeeded by an exceptionally hot and dry September.

BRAYSTONES.—The year was peculiar for a very humid atmosphere with a comparatively small R, the total being 5·80 in. less than the average of 31 years. Notwithstanding this, the evaporation was 8·02 in. less than the average of the same period.

COCKERMOUTH, BROUGHTON GRANGE.—R, 5 inches less than the average of 22 years, and falling on fewer days than in any year since the record began in 1873. The deficiency being wholly in the spring.

BRAMPTON, DENTON HOUSE.—Hay crops light and badly won, owing to the great R in July and August; more than one-third of the total for the year falling in these two months.

KENDAL, NATLAND PARK.—The most notable features of the year were the long and severe frost in February, the fine spring, and the Indian summer in the last half of September.

KENDAL, ELLERGREEN.—The year started with a remarkably long hard frost, and during the first 6 months the R was small. April, May and June were very dry, but in July there were floods, 4·83 in. of R falling in 48 hours, and 3·09 in. on the 25th.

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS.

LLANFRECHFA GRANGE.—Very little R in February and May. July, August and part of September very warm.

LLANVIHANGEL COURT.—Remarkable for the severity of the great frost, which lasted from January 26th to February 23rd. Heavy R and S fell in January, followed by drought from February 1st to March 7th, and another drought in May and June was very mischievous; September also was dry and extraordinarily hot, while the latter half of October was unusually cold. November and December were warm, with almost total absence of sun. Total R, 2·33 in. above the average of 6 years.

FONMON CASTLE.—R, 4 inches above the average of 10 years. In seven months the R exceeded 4 inches, and in three it was less than an inch; only two rainy days occurring in May and three in February. October, as usual, was the wettest month. September was unusually dry and very hot.

OYSTERMOUTH, NEWTON.—Frost prevailed through January and February.—April was cold at the beginning, and spring was a month later than usual. May and June were very dry; July and August, warm; September was fine; October, stormy; and November and December, very stormy and wet.

NEATH, FAIRY LAND.—The first half of the year was remarkably dry—R, only 14·34 in., and the total fall is 3·99 in. less than the average of 10 years. February was the driest month on record, with only ·11 in. of R.

DOWLAIS, GWERNLLWYN.—An absolute drought occurred in February, the R for that month being only ·10 in. November was

exceptionally stormy and wet, 3·18 in. of R falling on the 10th, and 6·29 in. from 5th to 10th.

ST. DAVIDS.—Throughout the year there was much unsettled weather. February was the coldest month, and March and April were also cold. May and June were fine and sunny, July and August unsettled and showery, and September was the most summer-like month of all. Corn and hay crops were poor, but fruit was plentiful.

NEWPORT, THE CASTLE.—R, 1·82 in. above the average. February and May were notably dry months, with ·12 in. and ·18 in. of R respectively. Hard frost prevailed from January 25th to February 23rd. The last 14 days of September were very fine, calm and warm.

STRATA FLORIDA, HAFOD—The cold in January and February was very severe, 10 inches of frozen S covering the ground for 6 or 8 weeks. Many rabbits were found starved to death.

LLANDEFAELOG - FACH. — Exceptionally dry from February to September inclusive. The R of the months of February, May and June was much the least since the record began in 1879, while, with one exception, November was the wettest.

NEW RADNOR, DOWNTON.—R, 3·02 in., and rainy days 30, less than the average of 10 years. There was absolute drought in February, and partial drought in May and June.

CHURCHSTOKE, MELLINGTON HALL.—The driest February, except 1891, since the record commenced in 1875. May also was the driest in that period and June was the wettest, the R for the month being more than double the average. Absolute drought occurred for 22 days ending February 23rd, and partial droughts for 36 days ending March 8th, with ·33 in. of R, and for 30 days ending May 31st, with ·26 in. of R.

POOL QUAY VICARAGE.—The first half of the year was very dry, except for 3 days of heavy fall, but the total for the year is a little more than the average. January was the wettest month (5·12 in.) for 5 years. Absolute drought occurred for 22 days ending February 23rd, and partial drought for 30 days ending May 31st. On February 8th the min. temp. was -3° , the lowest ever registered here.

PRESTATYN, EDLESTONE HOUSE.—The year was not good for farm crops owing to the exceedingly small R between March 30th and October 1st, only 11·12 in. ; while in the last 3 months 12·25 in. fell.

WYNNSTAY.— R , 2 inches above, and number of rainy days much below, the average. Nearly 5 inches more R fell in the last six months than in the first six.

ROSSET, TREVALYN HALL.— R , just below the average of 25 years. The spring was decidedly dry, and the excess of R in June was caused entirely by a heavy TS on the 26th. February, May and September were exceptionally dry. The frost in February was almost unprecedented, and there were 53 nights with frost between January 1st and March 14th. The last week in September was extraordinarily hot.

LLANERCHYMEDD, LLWYDIARTH ESGOB.—February was very dry, with long continued frost. May was dry, and great heat occurred in the last week of September. December was very sunless.

DOUGLAS, VICTORIA ROAD.—A remarkable year meteorologically, with the longest and coldest winter of which there is any record, and even more remarkable for the phenomenal S storm of February 6th, when no inland mails arrived or left Douglas for some 12 days; the drought of May, June and September, with only 2·03 in. of R ; the high temp. during the last 8 or 9 days of September, and the abnormal cold of October. The year's R too is about seven inches less than the average. March, August and October were wet, with 15·50 in. of R . November and December mild and very stormy. The almost uninterrupted gales of the latter month, and the TS of August 10th with its heavy R should also be mentioned.

ST. MARTIN'S, LES BLANCHES.—Almost half of the total R fell during the last 3 months. January to September, 18·24 in.; and October to December, 17·02 in. There were but 3 dry days in November and only 1 in December. On the other hand, February had only 2 wet days and May only 3.

SCOTLAND.

DIVISION XII.—SOUTHERN COUNTIES.

AUCHENCAIRN, TORR HOUSE.— R , 2·35 in. less than the average of 25 years. January, February, May, and September all had less than half the average R , while July and August were very wet.

KIRKPATRICK DURHAM, GLENLAIR.—R, 4 inches less than the average of 10 years. No R fell in May, which was prejudicial to hay, and during the first half of the year only 10·30 in. fell, compared with 30·12 in. in the last half. Temp. very low in January and February.

CARGEN.—The year commenced with the coldest January on record, and for February, the mean temp. was 11°·5 below the average, and 1°·6 below that of the coldest month in the preceding 36 years. On June 14th, the temp. fell to 29°·6, the only occasion on which frost has occurred in that month. The R is 4·61 in. less than the average, the deficiency in the first six months being 8·29 in., and the excess in the last six months, 3·68 in. The R of May, (.06 in.) is the lowest monthly record, while the heaviest fall in two consecutive days (2·88 in.), took place on July 25th and 26th. With the exception of unusually severe gales in November, the wind force was light, and E. or N.E. winds prevailed on 135 days.

DUMFRIES, IVY BANK.—R, about 2 inches below the average. There were two marked periods of drought, the first between February 8th and 28th, and the second from the beginning of May to June 25th.

MONIAIVE, MAXWELTON HOUSE.—R, about five inches less than the average. February, May, June and September were exceptionally dry, particularly May and September. The hay crop was consequently very short.

DRUMLANRIG GARDENS.—The severest frost on record occurred in January and February. The drought in April, May and June was most unusual, and the heat in September was quite unprecedented. Total R the least recorded.

MOFFAT, CRAIGIELANDS.—Drought all the spring, and land drains failed.

MELROSE ASYLUM.—R, 4·07 in. above, and rainy days 25 below, the average of 13 years. With the exception of 1894, the wettest year on record.

DIVISION XIII.—SOUTH EASTERN COUNTIES.

GALASHIELS, ABBOTSFORD ROAD.—Nearly half of the fall in January and February consisted of S, there was also S in March and a heavy fall in October.

BO'NESS, GRANGE.—August was remarkably wet, with only about

3 days without R, which threatened the harvest, but September was fine and enabled the grain to be cut safely.

DIVISION XIV.—SOUTH WESTERN COUNTIES.

BARRHILL, DOCHROYLE.—R, 10·71 in. below the average of 20 years.

COLMONELL.—R, 8·34 inches, and rainy days 3, below the average of 19 years. Mean temp., 0°·5 above the average, but the min. in shade, — 1° on February 11th, is the lowest reading in 20 years.

GIRVAN, PINMORE.—The driest and coldest year recorded. R, 10·34 in. less than the average.

LOCHWINNOCH, GARTHLAND.—The driest year remembered. During June and part of July, pastures were completely burned up for want of R. There were seven days on which the fall exceeded an inch.

PAISLEY, CROOKSTON.—Frost lasted for 71 days ending March 9th.

DIVISION XV.—WEST MIDLAND COUNTIES.

HELENSBURGH, DALGLENAN.—Long frost in January and February; February and May very dry, August wet, and September very hot from 24th to 30th. Only one TS during the year, and much less wind than usual.

CRAIGEND CASTLE—Dry with severe frost till the middle of March, and the latter part of that month wet and stormy. May was very dry, June fine, July fine and showery, August very wet and backward, only 1 day without R; September fine and warm. The first half of October wet and cold, the second half fine and frosty. November and December wet and stormy.

STIRLING, POLMAISE GARDENS.—Hard frost prevailed till the first week in March. July and August were very wet and cold, and September was very dull and sunless.

STIRLING, RAVENNA COTTAGE.—The first 6 months were very dry on the whole, and the small amount of R in May and the first half of June told seriously on vegetation. July and August were bad for the husbandman, for more R fell in them than in the previous 6 months.

BUCHLYVIE, THE MANSE.—R, 5·30 in. less than the average of 6 years, and unequally distributed. In the first six months, only

12.75 in. fell, while in the last six the fall was 30.24 in. Severe frost prevailed till the beginning of March. The summer was favourable. Frequent storms occurred in November and December.

GARGUNNOCK.—R in January, February and May much below the average.

LOCHGILPHEAD, KILMORY.—Remarkably little R in January, February, and May. The total for the first half-year was only 12.90 in., and for the last 6 months, 33.08 in.

APPIN, AIRDS.—The smallest R in the 40 years, 1856-1895.

BALLACHULISH, ARDSHEAL.—R below the average. July and August were the wettest in living memory, and R fell on 67 days between July 1st and September 30th.

BALLACHULISH, CRAIGRANNOCH.—Frost of unprecedented severity and duration occurred in the first three months; the rest of the year was very changeable. R considerably below the average.

ISLAY, ARDBEG.—R less than the average; due to the fall being only .58 in. in February, .53 in. in May, and 1.44 in. in June.

DIVISION XVI.—EAST MIDLAND COUNTIES.

KINROSS, GELLY BANK.—Extreme frost occurred in January and February, and drought in May and part of June. Heavy rains in the later months of the year.

KILMANY, MOUNTQUHANIE HOUSE.—R about six inches less than the average of 10 years.

CALLANDER, LENY.—R greatly below the average. January and February were distinguished by protracted frost and low temp.

BALQUHIDDER, STRONVAR.—The smallest R registered, with one exception. Only 40 inches, out of the total 60.82 in., fell in the first 10 months.

OCHTERTYRE.—R, 4.29 in. above the average of 11 years.

COUPAR ANGUS STATION.—The first 5 months were dry, June, July and August wet, September and October dry, and November and December wet. The year will be memorable for severe frost in February, abnormal TSS in June, and gales in the later months.

INVERARITY MANSE.—May and September were very dry, R only .53 in. and .82 in. respectively. T was heard only 8 times.

DIVISION XVII.—NORTH EASTERN COUNTIES.

CROMAR, TILLYPRONIE.— R above the average. Very heavy falls of S occurred in January, March, and October.

ELLON, KERMUCK.—Severe S storms, with intense frost at times, occurred till well into March. The summer was unsettled—too dry at first, then wet and sunless—but great heat occurred in the last half of September. Excessive rainfall in the last three months.

BANFF, EARL HILL.— R , and number of rainy days, above the average.

CULLEN HOUSE.—The year commenced with very hard weather, and S and frost continued for nearly 3 months. May and part of June were very dry, after which there was a good fall of R , but the ground was so dry that it did not penetrate to the roots of many of the trees. Very heavy R and S in October, November and December.

WESTER ELCHIES SCHOOL.—There were 11 weeks with S continuously on ground ending about the middle of March, and most intense frost, but vegetation was protected by the S . Very severe TSS, but with little R , occurred in the summer.

FORRES, GRANGE HALL.— R unusually large—the greatest for 15 years. October was remarkably wet.

DIVISION XVIII.—NORTH WESTERN COUNTIES.

STRATHPEFFER SPA.—A very wet year, especially so in the summer.

SKYE, EDINBANE, LOCH GRISHINISH.—With the exception of October, the year was a very moderate one for Skye. No TSS.

LOCH MADDY.— R , 6·18 in. less than the average of 10 years, the deficiency occurring chiefly in January and February.

LOCH NESS, DRUMNADROCHIT.—The severe and prolonged frost in January and February accounts for the small R in those months. The thaw, which came in March, was accompanied by heavy R (7·20 in.), and it was the third wettest month during 10 years. April and May were very fine. June, July and August were very wet and cold. October was very stormy and unseasonable, S falling on 7 days. R , 4·31 in. above the average of 10 years, only two years being wetter in that period.

DIVISION XIX.—NORTHERN COUNTIES.

GOLSPIE, DUNROBIN CASTLE.—The early months of the year were remarkable for an unusual spell of frost and S. The spring and early summer were, as a whole, dry. June, July, and the early part of August were unusually wet. Harvest was got in in good condition. Extremely mild weather marked the closing months of the year.

SCOURIE.—Heavy S and keen frost prevailed till well on in March, with very few breaks. The R of the remaining months was below the average, excepting October which was in excess.

IRELAND.

DIVISION XX.—MUNSTER.

DOUGLAS, VILLA FRANCA.—In the 29 days from May 1st to 29th, only 23 in. of R fell, while in the 5 days ending December 26th 8·33 in. fell, causing disastrous floods in Cork and the district.

CORK, CLARENCE PLACE.—The year was chiefly remarkable for excessive R, particularly in November and December; for low mean temp. owing to great cold in January and February, and notwithstanding the remarkably warm September; and for numerous and destructive storms.

MALLOW, OLD DROMORE.—November and December were unusually wet, 8·32 in. of R falling in the former, and 10·22 in. in the latter month.

DARRYNANE ABBEY.—The spring was very cold and late. July, August, October, November and December were very wet, and September was remarkably dry, fine and hot. The heaviest fall of S remembered occurred on February 6th.

PORTLAW, MAYFIELD.—February was remarkable in two ways; not one drop of R fell during the month, but S fell on four occasions. The fall which commenced about noon on 6th, and continued all night, and at intervals on the 7th, occurred with a S.W. wind, blowing a gale, and it is believed that there is no previous record of

a continuous fall of S in the extreme south of Ireland with a S.W. wind.

DERRY CASTLE.—The most striking features of the year were the prolonged frost in February and the intense heat in September. The total R is the least in 17 years except 1887, which was the driest year this century. The fall is 15 per cent. below, but the number of rainy days 5 above, the average of the last decade. R below the average in 8 months, and above it in 4.

NENAGH, CLASHNEVIN.—R above the average of 5 years. Remarkable for the very severe winter and spring, the most severe cold and greatest continuance of S ever remembered. Very little R in February, April, May and June, and vegetation suffering. September was favourable for harvest, but November and December were very wet with strong winds.

BROADFORD, HURDLESTOWN.—R, 4·95 in., and rainy days 4, less than the average of 10 years. A favourable year, and all crops good.

MILTOWN MALBAY.—The first 6 months, except March, were very dry, parching and withering vegetation and causing dearth of water. July and August were very wet, R for the two months, 10·70 in. September had the least R of any month, and saved the harvest. The remainder of the year was rainy. Total R less than the average.

DIVISION XXI.—LEINSTER.

NEW ROSS, LONGRAIGUE.—February and May were unusually dry, and R was much needed. November and December were remarkably wet, 4·67 in. of R falling in the 7 days ending December 28th.

ENNISCORTHY, BALLYHYLAND.—The 8 weeks ending June 25th had a R of only ·56 in., being the driest period of such length since the commencement of the record in 1866,

GRAIGUE, BRANDONDALE—Total R about the average. The record on November 15th (1·52 in.) is the largest in 24 hours during 11 years, and the fall on December 22nd and 23rd is the largest in any 48 hours during the same period. The flood in the River Barrow on December 24th was the greatest since 1872.

KILKENNY, LAVISTOWN.—R rather above the average. The season was disastrous for farmers, as the spring was unusually dry

and the harvest months were very wet. In 54 days from July 15th there were 41 on which R fell.

KILKENNY, SION VILLA.—Exceptionally severe and frosty for the first 3 months, thence to July 15th a long spell of lovely weather, succeeded by heavy rains, cold and storms to the end of August. September was exceptionally charming, with intense heat, and October, though cold, was fine. November and December were unusually wet and stormy, 9·44 in. of R falling in the two months.

BRAY, FASSAROE.—Severe weather prevailed in January and February, with, on January 12th, the heaviest fall of S ever recorded, some remaining on the hills till midsummer. May was the finest on record, and September was fine for the late harvest.

ABBEY LEIX, BLANDSFORT.—R, 2·93 in. above, and number of rainy days 6 below, the average of 21 years.

STRAFFAN HOUSE.—February was very severe, with frost every night, after which the season was fairly good till the end of June. September was a wonderfully fine month.

KILLINEY, CLONEEVIN.—R, 7·36 in. more than the average of 10 years, and the greatest on record.

RATHMINES, LEINSTER ROAD.—R in January, July and December the highest for the respective months, and that for May the least, since observations commenced in 1882. Absolute drought for 18 days ending May 30th, and 18 days ending September 29th.

DUBLIN, PHÆNIX PARK.—R, 5·68 in. above the average of 10 years.

BALBRIGGAN, ARDGILLAN.—R above the average, in spite of the total fall for February, May and September being only 1·14 in. The drought in May had a very bad effect on the crops, and as most of the R in June occurred on the last 5 days, that month also was unsatisfactory. S fell on 23 days.

BALBRIGGAN, LARAGH.—R, 6·37 in. above the average of 10 years. May was very dry, with only ·15 in. of R on 3 days.

DIVISION XXII.—CONNAUGHT.

WOODPARK [SCARIFF].—Wind steadily N.E. throughout January and February. Abnormally fine weather in May, June and September was more than compensated for by the heavy rains of August, November and December.

BALLINROBE, KILRUSH.—Very severe weather for the first 3

months, the second 3 months very dry, then a very fine season, and the last 3 months wet and stormy.

BALLYMOTE, NEW PARK.—R a little above the average of 5 years. During the first 6 months only 13·15 in. of R fell, while in the last 3 months 16·35 in. was registered. February and September were remarkably dry.

BALLINAMORE, LAWDERDALE.—The year may be considered a fairly dry one, with the total R, 4·76 in., and rainy days 20, below the average of 10 years. July and August were very wet and unseasonable, causing injury to crops and retarding the hay harvest. September was warm and dry which was of great benefit.

DIVISION XXIII.—ULSTER.

EDWARD STREET STATION [NEWRY].—May and three weeks in June were very dry, and crops suffered much from this drought.

LURGAN, BELLE VUE.—R, ·66 in. less than the average. February was remarkable for severe frost, there being only 4 nights when frost was not registered. May was the driest in the record which began in 1879. September was abnormally hot and dry with only ·21 in. of R.

BALLYMENA, HARRYVILLE.—February was the coldest month for many years, the shade temp. falling to 2° on the night of the 9th, with S a foot deep on the ground. October was the wettest month, May and September the driest, and June the warmest.

STEWARTSTOWN, THE SQUARE.—R about the average, but it fell at times bad for farmers.

OMAGH, EDENFEL.—Notwithstanding the peculiarities of the year, it was a good one on the whole. The most intense and prolonged frost on record occurred in the first two months, and the severest summer frost ever recorded took place in June (25° on grass) quite destroying much vegetation. By July 1st, the smallest 6 months' R had taken place, 10·86 in., but 26·10 in. in the latter 6 months, made the total about the average.

RAPHOE, CONVOY HOUSE.—The beginning of the year was severe with much frost and S, and frost occurred on June 12th, killing dahlias and blackening potatoes. The autumn was very unsettled. Most crops were fairly good, but fruit was bad.

HORN HEAD.—A very dry year to the end of September, but the last three months very wet.

HEAVY FALLS IN SHORT PERIODS IN 1895.

WE hope that the following table may be taken as an indication that this branch of rainfall work—and it is a very important one—is receiving more attention, for out of about the same number of entries as in 1894, a much larger proportion is for periods of less than two hours, and there are more records of odd numbers of minutes, all suggesting a tendency to greater precision.

It is a difficult matter to make any readily comprehensible comparison between the short period rains of different years, for, with all possible variations of quantity and of time, there seems to be nothing to yield a base line to work from.

The impression vaguely formulated in our mind after five months devoted almost exclusively to dealing with the 1895 returns, is that we shall find an unusual number of rains of phenomenal intensity, and a high average rate for short periods, but a low average rate for longer ones.

If we again take all entries of less than two hours duration, and take the average rate per hour, we have—

1894..... 52 entries, average rate per hour ... 1·68 in.
 1895..... 71 " " " " " 1·81 "

fully bearing out our first suggestion that the short period rains show a high intensity. The small number of entries of more than two hours duration (26) while in 1894 there were nearly twice that number, confirms the idea of absence of prolonged heavy rains, but the section of heavy falls in 24 hours will most rigorously test this.

Turning now to the individual entries in the table, by far the most remarkable is the 4·80 in. in two hours at Mellington Hall. This is unprecedented, and not only ranks with the great falls known in the annals of British rainfall, but surpasses them all, and even exceeds what has been laid down as the probable maximum limit. On p. [100] of *British Rainfall*, 1892, it is written : "We have always held that, though very improbable at any one spot, and not likely to occur anywhere twice in a century, the limit for this country was approximately *four inches in two hours*." This limit has now been

exceeded by 20 per cent., and a reproduction of the evidence on which it was based is called for :—

			in.	hr. min.
1878	June 23.....	London, Camden Square.....	·40	0 3
1891.....	July 8.....	Thurcaston.....	·51	0 5
1878	June 23.....	London, Camden Square.....	1·00	0 10
1880.....	July 22.....	Cowbridge, Ash Hall	2·90	0 30
1886.....	,, 25.....	Sale, Brooklands	2·58	1 0
1889.....	,, 13.....	Henley-in-Arden, Barrells Park	3·64	1 5
,,	,, 12.....	Luton	3·16	1 10
1878.....	June 23....	London, Camden Square.....	3·28	1 30
1892.....	July 16.....	Flax Bourton, Tyntesfield	3·75	2 0

These values, if plotted on a diagram, are so accordant that we think no one could dispute their accuracy. For if one were to suggest that an observer with an ordinary rain-gauge might easily miscount the number of glasses in measuring so large a quantity, such a mistake is impossible at Camden Square, where readings are taken each half-minute, and the records are checked by a recording gauge and by three or four ordinary gauges, and there are sufficient records from this station alone, to substantiate the reasonable probability of the higher values, and also of that for Mellington Hall in 1895.

Other records for 1895 which call for special mention are :—

			in.	hr. min.
July 26... ..	Grange Pit Farm		1·25	0 20
June 27.....	Middleton-on-the-Wolds.....		2·00	0 30
April 17.....	Taunton, Cothelstone House ...		1·70	0 30
June 26.....	Marlborough		2·71	0 50
,, 26.....	Worcester, Diglis Lock		2·75	1 0
,, 26.....	Sowerby Bridge, Haugh End...		3·61	2 30
,, 26.....	Halifax, Public Library		3·04	3 0
,, 27.....	Scots Gap, Rothley Lake		3·25	3 30
,, 26.....	Knighton, Ystrad House.....		3·39	4 0
Dec. 23 & 24...	Clonmel, Bruce Villa		4·50	24 0

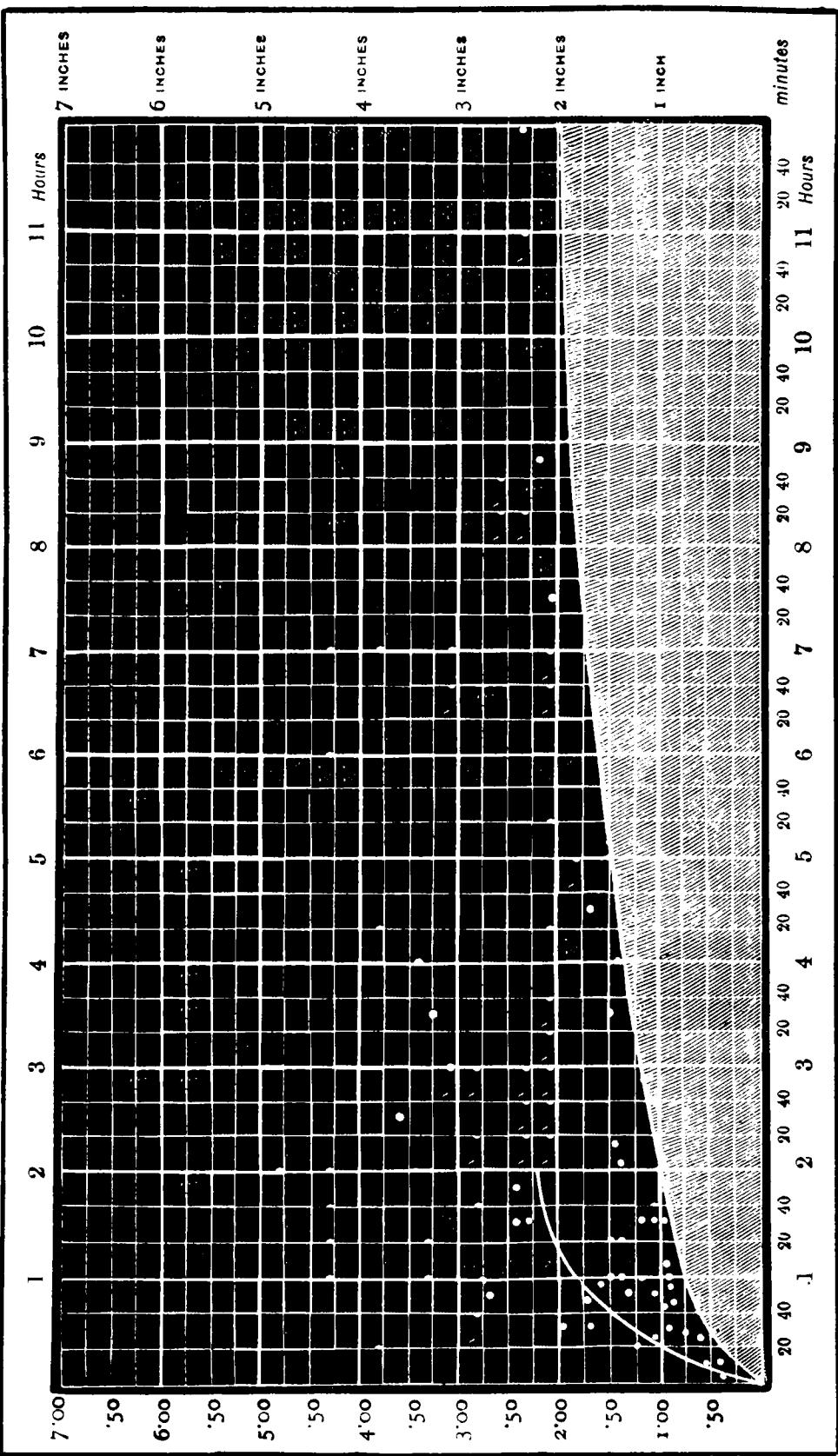
Such a table of intense rains as the above could not be extracted from the records of any other recent year, and in early years the observations were too few to allow of fair comparison.

One other point should be mentioned—half of the above ten falls as well as that at Mellington Hall occurred on June 26th, showing remarkable intensity of rain in several districts on that day.

Examination of the diagram, which is drawn on precisely the same lines as that for 1894, will further emphasize the very exceptional character of the records of heavy falls in short periods in 1895.

It should be borne in mind that the last three records in the following table, of falls in 24 hours will not be found among the "heavy falls in 24 hours," as they did not occur in the rainfall day ending 9 a.m.

HEAVY FALLS IN SHORT PERIODS.



The shaded portion represents falls too numerous to require insertion; the short white curve, extremes rarely exceeded.

Heavy Falls in Short Periods in 1895.

Date.	Div.	Station.	Amount.	Duration.	Rate per hour.
			in.	hr. min.	in.
Aug. 23 ...	VIII.	Rochdale, Fieldhead.....	.09	... 2	2.70
July 22 ...	XIII.	Edinburgh, Blacket Place06	... 2	1.80
May 25 ...	VIII.	Rochdale, Fieldhead.....	.15	... 2½	4.00
Sept. 6 ...	IV.	Colchester, Lexden15	... 4	2.25
Dec. 12 ...	XI.	Newport, The Castle.....	.41	... 5	4.92
Oct. 1 ...	VI.	West Bromwich.....	.16	... 5	1.92
Sept. 7 ...	II.	Eastbourne, Gildridge Road...	.43	... 6	4.30
July 25 ...	IX.	Wakefield, Stanley Grange...	.35	... 6	3.50
Aug. 10 ...	I.	Camden Square20	... 7	1.71
," 22 ...	VII.	Normanton-on-the-Wolds.....	.19	... 7	1.63
July 26 ...	VIII.	Grange, Pit Farm34	... 8	2.55
Sept. 6 ...	IV.	Colchester, Lexden26	... 8½	1.84
July 21 ...	II.	Lewes, Saxonbury.....	.51	... 9	3.40
Sept. 6 ...	I.	Camden Square38	... 9	2.53
Aug. 22 ...	III.	Berkhampstead, Rosebank ..	.53	... 10	3.18
," 7 ...	V.	Penzance, Trevean.....	.52	... 10	3.12
Sept. 7 ...	III.	Berkhampstead, Rosebank ..	.25	... 10	1.50
," 6 ...	I.	Camden Square37	... 12	1.85
," 6 ...	IV.	Colchester, Lexden34	... 13½	1.51
Aug. 22 ...	I.	Camden Square28	... 14	1.20
July 18 ...	III.	Berkhampstead, Rosebank ..	.29	... 15	1.16
Aug. 10 ...	I.	Camden Square54	... 16	2.03
," 22 ...	"	"32	... 16	1.20
Sept. 6 ...	"	"49	... 18	1.63
July 26 ...	VIII.	Grange, Pit Farm	1.25	... 20	3.75
June 26 ...	VI.	Weobley, Dilwyn86	... 20?	2.58?
Aug. 21 ...	"	Fairford, Kempsford.....	.80	... 20?	2.40?
Apr. 17 ...	I.	Ealing, Fennymere45	... 20	1.35
Aug. 22 ...	"	Camden Square36	... 20	1.08
June 1 ...	XX.	Killarney, Woodlawn32?	... 20	.96?
Apr. 24 ...	"	Cork, Clarence Place.....	.28	... 20	.84
June 19 ...	XIII.	Edinburgh, Blacket Place ..	.40	... 21	1.14
," 26 ...	IX.	Meltham, Harewood Lodge...	1.13	... 25	2.71
Sept. 6 ...	I.	Camden Square56	... 26	1.29
July 19 ...	IX.	Meltham, Harewood Lodge...	.48	... 26	1.11
," 26 ...	"	Scarborough76	... 27	1.69
June 30 ...	"	(South Cliff)75	... 27	1.67
," 27 ...	"	Middleton-on-the-Wolds	2.00	... 30	4.00
Apr. 17 ...	V.	Taunton, Cothelstone House..	1.70	... 30?	3.40?
June 26 ...	"	Mildenhall97	... 30	1.94
Sept. 6 ...	II.	Dorking, High Ashurst.....	.53	... 30	1.06
Aug. 10 ...	I.	Camden Square60	... 34	1.06
," 27 ...	VI.	Cheadle, The Heath House55	... 35	.94
July 21 ...	X.	Sunderland, West Hendon Ho.	1.00	... 41	1.46
June 26 ...	XI.	Gresford, Trewythen	1.73?	... 45	2.31?
Aug. 12 ...	XXIII.	Belfast, Springfield88	... 45	1.17
Apr. 17 ...	V.	Mere Down71	... 45	.95
June 26 ...	"	Marlborough	2.71	... 50	3.25
Aug. 14 ...	XII.	Irongray, Drum Park	1.30	... 50	1.56
June 26 ...	XI.	Knighton, Ystrad House.....	1.01	... 50	1.21
Aug. 22 ..	XIII.	Edinburgh, Blacket Place.....	.86	... 52	.99

Heavy Falls in Short Periods in 1895—continued.

Date.	Div.	Station.	Amount.	Duration.	Rate per hour.
			in.	hr. min.	in.
June 26 ...	VIII.	Rochdale, Fieldhead	1·61	... 55	1·76
,, 26 ...	VI.	Diglis Lock	2·75	1 0	2·75
July 26 ...	VIII.	Cartmel Fell Vicarage	1·50	1 0	1·50
June 26 ...	,,	Rochdale, Deeplish Hill	1·38	1 0	1·38
,, 26 ...	III.	Abingdon, Boar's Hill	1·30	1 0	1·30
May 24 ...	X.	Cockermouth, Whinfell Hall.	1·24	1 0	1·24
July 21 .	XXIII.	Belfast, Springfield	1·17	1 0	1·17
June 26 ...	IX.	Hebden Bridge	1·00	1 0	1·00
Aug. 22 ...	I.	Ealing, Fennymere90	1 0	.90
June 3 ..	II.	Itchen Stoke Rectory78	1 0	.78
Sept. 7 ...	III.	Banbury, Bloxham Grove75	1 0	.75
,, 7 ...	II.	Eastbourne, Gildridge Road...	.98	1 5	.90
May 24 ...	VI.	Cirencester, Further Barton...	.79	1 10	.68
Apr. 24 ...	XX.	Miltown Malbay85	1 20	.64
May 24 ...	II.	Alton, Hill House	2·43	1 30	1·62
June 26 ...	VI.	Worcester, Belmont Road ...	2·26	1 30?	1·51?
Apr. 17 ...	V.	Taunton, Halse	1·20	1 30	.80
May 24 ...	,,	Abbots Leigh	1·15	1 30	.77
Aug. 10 ..	III.	St. Albans, The Grange95	1 30	.63
June 26 ...	XI.	Knighton, Ystrad House	2·38	1 50	1·30
,, 26 ...	,,	Churchstoke, Mellington Hall	4·80	2 0	2·40
,, 26 ...	VI.	Wickwar Rectory	1·71	2 0	.86
Sept. 7 ...	II.	Windlesham, Erlwood	1·53	2 0?	.77?
Aug. 13 ...	IV.	Salhouse	1·50	2 0	.75
July 21 ...	X.	Sunderland, West Hendon Ho.	1·38	2 6	.66
June 26 ...	VIII.	Eccleston	1·48	2 15	.66
,, 26 ...	IX.	Sowerby Bridge, Haugh End.	3·61	2 30	1·44
,, 26 ...	,,	Halifax, Public Library	3·04	3 0	1·01
,, 26 ...	VIII.	Macclesfield, The Park	2·37	3 0	.79
,, 26 ...	XVI.	Coupar Angus	1·59	3 0	.53
Aug. 23 ...	XXI.	Ardee, Lissrenny	1·19	3 0	.40
June 27 ...	X.	Scots Gap, Rothley Lake	3·25	3 30	.93
Aug. 13 ...	IV.	Diss	1·50	3 30	.43
June 26 ...	XI.	Knighton, Ystrad House	3·39	4 0	.85
,, 26 ...	VI.	Weobley, Dilwyn	1·77	4 0?	.44?
,, 26 ...	IX.	Middleton-on-the-Wolds	1·73	4 0	.43
Sept. 7 ...	III.	Dorchester	1·40	4 0	.35
July 18 ...	,,	Kensworth [Dunstable]	1·70	4 30	.38
Sept. 7 ...	II.	Strathfield Turgiss	1·78	5 0	.36
Aug. 23 ...	XXII.	Ballinrobe, Cranmore	2·66	7 0	.38
Sept. 7 ...	II.	Monk Sherborne	2·04	7 30	.27
July 26 ...	VIII.	Grange, Pit Farm	2·33	12 0	.19
Dec. 23 & 24	XX.	Clonmel, Bruce Villa	4·50	24 0	.19
July 26 ...	VIII.	Cartmel, Pit Farm	4·02	24 0	.17
,, 26 ...	,,	Finsthwaite Vicarage	2·65	24 0	.11

The exceptional character of the thunderstorm rains of June 26th, is further shown by the fact that 23, or just one-fourth of the entries in the above table, occurred on that day.

HEAVY FALLS ON RAINFALL DAYS IN 1895.

There are unfortunately still a few (very few) observers who do not obey Rule IX., and who measure the rain at hours of their own selection, thus rendering their returns not strictly comparable with those of the bulk of observers. Their records, when exceptional, have been dealt with in the previous section ; in this we deal solely with the records of those conforming to Rule IX., and numbering we are glad to say more than 2,000, who have reported the largest amount found in their gauge at 9 a.m. on any one day throughout the year.

We treat these returns in two ways—which for many years have been defined as “Part I., Chronicle,” and “Part II., Abstract.” In the latter, all the Maximum falls (M) are dealt with. In the former we are obliged to make a selection. We could not afford to print these *in extenso*, and have therefore for many years selected for publication records which, besides being the greatest at each station on any day in the year, known as M, are noteworthy either for the absolute largeness of the amount recorded, or for its largeness relatively to the total fall at the station in the year.

The values with which we are about to deal are therefore all M, all refer to the fall in the rainfall day closing at 9 a.m. on the subsequent day, all are either greater than $2\frac{1}{2}$ inches or amount to more than $7\frac{1}{2}$ per cent. of the entire fall in 1895. It is of course very difficult to select limits which shall be appropriate for stations with a rainfall in dry years of less than 15 inches, and also for stations with, in wet years, a fall of 200 inches, but the double qualification meets it fairly well.

PART I.—CHRONICLE.

JANUARY 10TH.

The M at most stations in the S.W. of Hampshire, in Dorset, Devon, and Cornwall, but not one return was large, or unusual, enough to claim notice here.

JANUARY 19TH AND 20TH.

The M occurred at about 100 stations chiefly in the West Midland Counties on one or other of these dates but the amounts and percentages were all small.

MARCH 23RD.

The first really heavy M of the year, prevailing only in the English Lake District and the surrounding hills, and at some stations in Wales. The amounts, though large, are not unusual for the respective stations.

VIII.	Monk Coniston Park	2·50 in. or	3·7 per cent.
IX.	Slaidburn (Dunsop Houses)	3·00 ,,	5·3 ,,"
"	(Brennand)	2·56 ,,	4·0 ,,"
X.	Seathwaite	4·46 ,,	4·4 ,,"
"	Borrowdale Vicarage = Rosthwaite ...	3·62 ,,	4·7 ,,"
"	Buttermere (Hassness)	3·15 ,,	4·3 ,,"
"	Borrowdale (Grange)	2·95 ,,	4·3 ,,"
"	Dungeon Ghyll	4·19 ,,	4·6 ,,"
"	Grasmere (Pavement End)	2·99 ,,	4·3 ,,"
"	Orton Vicarage	3·22 ,,	6·4 ,,"
XI.	Colbren (Penwyllt).....	2·53 ,,	4·1 ,,"
"	Taff Fechan (Neuadd Res.)	2·56 ,,	4·3 ,,"

APRIL 22ND.

XI.	Treherbert (Tyn-y-waun)	2·51 in. or	3·4 per cent.
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MAY 24TH.

II.	Alton (Hill House).....	2·43 in. or	7·5 per cent.
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JUNE 17TH.

XVIII.	Fearn (Lower Pitkerrie)	1·79 in. or	8·1 per cent.
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JUNE 26TH.

In some respects a very remarkable rain, due to TSS. It prevailed chiefly in the W. of England and the E. of Wales. Its most noteworthy and quite exceptional intensity at Mellington Hall, Churchstoke, Montgomery, has been dealt with in the previous section of this work, and it will be seen here that it is well supported by two other Welsh returns, and to a less extent by those from Worcester. In fact, TSS prevailed from Wilts to Durham and, as will be seen, gave rains ranging from 6 to 16 per cent. of the yearly total in several localities, but chiefly in the S.W. of Yorkshire.

V.	Marlborough (Presbute House)	2·64	in. or	7·9	per cent.
VI.	Worcester (Diglis Lock)	2·81	„	11·6	„
„	„ (Belmont Road)	2·26	„	9·8	„
„	„ (Water Works)	1·61	„	8·4	„
VIII.	Macclesfield (The Park)	2·57	„	7·5	„
IX.	Rotherham (Thrybergh)	2·60	„	8·9	„
„	Huddersfield (Dalton)	2·70	„	6·9	„
„	Ackworth (Nostell Priory)	2·70	„	9·1	„
„	Mirfield (Cote Wall)	2·52	„	7·9	„
„	Batley (Staincliffe Reservoir)	2·10	„	8·2	„
„	Sowerby Bridge (Haugh End)	3·61	„	8·3	„
„	Halifax (Bermerside Observatory) ...	3·20	„	8·5	„
„	„ (Thorpe)	2·72	„	5·9	„
„	„ (Public Library)	3·04	„	8·2	„
X.	Leeds (South View House, Yeadon). .	3·46	„	9·5	„
X.	West Hartlepool	1·68	„	7·5	„
„	Hartlepool (Hurworth Burn)	2·67	„	8·0	„
„	„ (Hart Reservoir)	2·20	„	7·8	„
XI.	Knighton	3·39	„	10·0	„
„	Churchstoke (Mellington Hall)	4·83	„	16·1	„
„	Ruabon (Wynnstay)	3·94	„	10·3	„

JUNE 27TH.

It might be supposed that the following entries belong to the 26th but have been entered to the wrong day. That is certainly not the case, as will be seen by referring to page [18].

IX.	Middleton on the Wolds	2·19	in. or	7·8	per cent.
X.	Scots Gap (Rothley Lake).....	3·25	„	8·6	„

JULY 4TH.

IV.	Langham Rectory	2·04	in. or	9·1	per cent.
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No one else having reported a M for this date, we enquired of the observer as to the possibility of error. He replied that though he had no special remark against the entry, both he and the deputy observer remembered that there was one day on which the Rectory grounds were flooded, though little R fell elsewhere.

JULY 18TH.

The M over central England from Guildford to Doncaster, but not excessive anywhere.

III.	Slough (Upton Hall)	1·55	in. or	7·5	per cent.
„	Maxey Vic. [Market Deeping].....	1·70	„	8·6	„
VII.	Radcliffe-on-Trent (Chestnut House)	1·80	„	8·5	„
„	Nottingham (Stoke Bardolph)	1·81	„	8·6	„

JULY 21ST.

IV.	Maldon	2·04	in. or	9·7	per cent.
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Although the above entry is (in this list) without a companion, nearly all the Essex stations had M on this day, but this is ·80 in. and 3·2 per cent. higher than any other.

JULY 25TH.

A heavy fall (in places) over a large area, including N. Lancashire, the S.E. of the Lake District, and parts of all three Ridings of Yorkshire. There are only two M which exceed 3·00 in., and there is only one which exceeds 9 per cent.—but, on the other hand, there were very few (and they very small) areas in England, north of a line joining Chester to Hull, which had less than an inch, and the average over that very large area must have been over, rather than under, two inches.

VIII.	Quernmore (Brow Top)	2·96	in. or	8·4	per cent.
"	Heysham House	2·80	"	6·9	"
"	Lancaster (Marton Street Yard).....	2·98	"	8·0	"
"	Wray Vicarage	2·76	"	6·5	"
"	Colton	2·59	"	5·6	"
"	Blawith.....	2·79	"	5·3	"
"	Cartmel Fell Vicarage	2·90	"	5·5	"
"	Hawkshead (Esthwaite Lodge)	2·85	"	4·9	"
IX.	Wakefield (Walton)	2·32*	"	8·8	"
"	" Prison	2·19	"	7·9	"
"	" (Field Head).....	2·46	"	9·8	"
"	" (Stanley Grange).....	2·15	"	7·8	"
"	Goole.....	2·04	"	8·0	"
"	Arncliffe Vicarage	2·66	"	5·0	"
"	(Amerdale)	2·74	"	5·1	"
"	Oughtershaw Hall	3·23	"	4·9	"
"	Sedbergh (Brig Flatts)	2·60	"	5·5	"
"	Cottingham	2·91	"	9·0	"
"	Beverley (East Riding Asylum)	1·90	"	7·2	"
"	Hawes Junction	2·76	"	4·9	"
"	" (South Lunds School)	2·58	"	4·7	"
"	Aysgarth Vicarage	2·97	"	7·6	"
"	Leyburn (Bolton Hall)	2·50	"	6·5	"
"	East Layton.....	2·25	"	7·5	"
"	Barnard Castle (Hury Res.).....	2·94	"	6·9	"
X.	Duddon Valley (Ulpha Vic.)	2·65	"	4·4	"
"	Kendal (Kent Terrace)	2·58	"	5·4	"
"	" (Underfell).....	2·85	"	5·8	"
"	" (Hawesmead).....	2·65	"	5·6	"
"	" (Ellergreen)	3·09	"	5·9	"
"	Windermere (Woodland Terrace) ...	2·98	"	6·1	"
"	Kirkby Stephen	2·93	"	6·5	"

JULY 26TH.†

XII.	Dalbeattie	3·84	in. or	6·9	per cent.
"	Glenhead of Trool	2·55	"	4·7	"

* Greatest on any one day in 20 years.

† The Observer at Cartmel (Pit Farm) recorded 4·02 in. on this day, but, as the observations are made at 8 p.m., this amount includes part of the fall of the 25th.

AUGUST 10TH.

There were several local disturbances on this day, but the only important entries are—

VII. Long Sutton.....	2·00 in.	or 8·3 per cent.
XI. Holyhead	2·68 "	7·9 "

AUGUST 13TH.

A fall of about $1\frac{1}{2}$ inches over much of the counties of Cambridge, Essex, Suffolk and Norfolk.

IV. Lowestoft (Bryny-Môr)	2·18 in.	or 9·6 per cent.
„ Scole Rectory	1·70 „	8·3 „
„ Salhouse	2·26* „	8·5 „
„ North Walsham (Dilham).....	2·15 „	8·3 „
„ „ „ (Worstead)	2·75 „	9·8 „

AUGUST 21ST.

III. Henley-on-Thames (Assenton)	2·16 in.	or 7·8 per cent.
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AUGUST 26TH.

Although just too small to be entered here, the total being 2·47 in. and the percentage 6·2, the M at Higham, Cockermouth, ought to be mentioned as it was the M in that long record of 31 consecutive years; it will be seen that it was slightly exceeded by the record at Brandlingill.

X. Cockermouth (Brandlingill).....	2·67 in.	or 6·3 per cent.
„ Mealsgate (Uldale Rectory).....	2·66 „	6·0 „
„ Longsleddale	2·56 „	4·2 „
XI. Rhiwbryfdir = Oakley Quarries	3·19 „	4·0 „

AUGUST 29TH.

XVIII. Ben Nevis Observatory.....	3·48 in.	or 3·0 per cent.
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SEPTEMBER 6TH.

The M at more than 100 stations, chiefly in Middlesex and adjoining counties.

II. Basingstoke (Monk Sherborne)	2·04 in.	or 7·9 per cent.
„ Winkfield (Elm Lodge).....	1·93 „	7·9 „

OCTOBER 5TH.

The M at about 100 stations between London and Bristol.

V. Barnstaple (Arlington Court)	2·71 in.	or 5·3 per cent.
„ Woolacombe	2·52 „	8·5 „
„ Lynmouth (Glenthorne)	2·50 „	5·8 „

* Greatest on any one day in 25 years.

OCTOBER 11TH.

A local fall in the N.W. of Scotland.

XVIII.	Glencarron Lodge	2·72 in. or	3·5 per cent.
"	Loch Shiel (Glenaladale)	3·65 ,,	4·4 ,,"
"	Glenquoich	3·32 ,,	3·9 ,,"

NOVEMBER 10TH.

One of the remarkable M's of the year, covering nearly the whole country W. of a line joining Liverpool to Eastbourne. It gave, probably, an average of 1·25 inches over that large area, exceeded 2 inches in Devon, many parts of Wales—also in Cumberland—and reached or exceeded 3 inches at three Welsh stations.

V.	Bovey Tracey (Colehays)	2·56 in. or	5·2 per cent.
XI.	Tredegar (The Willows)	2·88 ,,	5·1 ,,"
"	Mountain Ash (Maesydderwen)	2·74 ,,	4·9 ,,"
"	Merthyr Tydfil (Plymouth Works)...	3·50 ,,	6·2 ,,"
"	Dowlais (Gwernllwyn)	3·18 ,,	5·9 ,,"
"	Taff Fechan (Pentwyn Res.)	2·64 ,,	4·3 ,,"
"	Cardiff W. W. (Cantref Res.)	2·69 ,,	4·6 ,,"
"	" (Cwm Taff Fawr No. 6)	2·80 ,,	3·9 ,,"
"	Brecknock (Llandefaelog-fach)	2·52 ,,	5·9 ,,"
"	Llanberis (Glyn Padarn)	3·00 ,,	4·6 ,,"

DECEMBER 4TH.

A heavy, but by no means unprecedented, fall near Ambleside, in the English Lakes.

VIII.	Skelwith Fold [Ambleside] ..	2·67 in. or	4·2 per cent.
X.	Ambleside (Skelwith Bridge)	3·56 ,,	5·4 ,,"
"	" (Lesketh Howe)	2·54 ,,	4·0 ,,"
"	Elterwater (Birch Hill).....	4·24 ,,	6·0 ,,"
"	Grasmere (High Close)	3·18 ,,	4·7 ,,"
XIV.	Gryfe Reservoir	2·50 ,,	4·6 ,,"
"	Hole Glen...	2·55 ,,	4·7 ,,"
"	New Yetts Dam ..	2·57 ,,	4·7 ,,"
XVI.	Balquhidder (Stronvar).....	2·85 ,,	4·6 ,,"

DECEMBER 23RD.

A heavy fall in the South of Ireland—but this is but a portion of the phenomenon, which went on for several days, and to which we devote a special notice on a subsequent page.

XX.	Bantry House	3·19 in. or	4·9 per cent.
"	Dunmanway (Coolkelure)	3·15 ,,	4·3 ,,"
"	Cork, Queen's College	2·51 ,,	5·1 ,,"
"	" The Palace	2·52 ,,	5·3 ,,"
"	Mallow (Old Dromore)	2·84 ,,	6·1 ,,"
"	Glenam [Clonmel]	3·41 ,,	7·1 ,,"
"	Cionmel (Bruce Villa)	3·56 ,,	8·1 ,,"

PART II.—ABSTRACT.

This part of the discussion is usually further divided into two sections, for we deal first with a few of the most important records of the year, and, secondly, with the average of the entire number available.

First, as to the greatest falls in one day, or, more strictly, as to the greatest M, for the two terms are not, as may be supposed, synonymous ; we had better make this clear :—

In Table I., Seathwaite appears with 4·46 in., that was its M (its absolute maximum) for the year ; then follow various smaller amounts, finishing with 3·39 in. Now it is very probable that at Seathwaite several days had more than 3·39 in., and, therefore, if this were a table of greatest falls, we should have several entries for Seathwaite, and the 3·39 in. and other smaller entries would have to go. But the table gives the 16 greatest M, and, therefore, neither Seathwaite nor any other station can appear twice in one year.

As a rule, Table I. consists chiefly of returns from very wet stations, but so great a TS as that of June 26th yields abnormal values, and the greatest of all the M, falls this year to the relatively dry station of Mellington Hall, Churchstoke, Montgomeryshire, while Seathwaite takes second place, and Ben Nevis, with its total of 118 in., is nearly driven out of the list, its M for 1895 being less than half what it was in 1894.

Table II., which is an abstract of all the Tables I. for 31 years, shows all this quite clearly, and that the Lake stations, having no exceptional fall in 1895, have been ousted by dry ones which had heavy TSS.

In Table III. we have the 16 records which yield the highest percentage, *i.e.*, in which the M bore the highest proportion to the total of the year. Here again, Mellington Hall is at the top of the list, its excessive fall of 4·80 in. in two hours, enabling it to distance every other station. It was most remarkable : more than one-seventh of the whole year's rain came down in two hours, and on that one day four stations had more than one-tenth of their yearly total. The abstract of all the Tables III. brings out the influence of the TSS very clearly, for the 16·1 has been exceeded only in the years 1867, 1870, 1889, 1890 and 1893, five times in 31 years, and as this includes about 40,000 returns, we see that this Mellington Hall record may be said to be the most remarkable out of 8,000—it is

certainly far and away the most so of the 2,423 discussed in the present article.

Lastly, we have to deal with Tables V. and VI. Table V. looks simple, but involves much labour; it summarises all the M with which we have been dealing. It shows how steadily our information improves; starting with less than 500 M, we have for 1895 2,423. It shows that over the country generally the M were almost precisely the usual proportion of the total fall, that the total yearly rainfall was about 10 per cent. less than usual, and that the M were also nearly 10 per cent. smaller than usual. There is in this no discordance with our previous remarks, because TSS of high intensity are usually local, and an exceptional record like that of Mellington Hall has but a microscopic effect when worked in with 2,422 others.

Table VI. has been computed for only 14 years, and during that time the number of returns utilized in it has nearly doubled—allowing for that, the mean number of falls of 2·00 in. should be 288, and of 3·00 in. should be 39, which would make the numbers for 1895 deficient by 39 and by 8 respectively—a deficiency fully explained by the absence of heavy M in the Lake district, which we have already mentioned.

TABLE I.—*Maximum Falls in 1895.*

Date.	Div.	Station.	Depth.	Per Cent.	Total.
June 26 ...	XI.	Churchstoke (Mellington Hall)	4·83 in.	16·1	30·03 in.
Mar. 23 ...	X.	Seathwaite	4·46 ,,	4·4	101·70 ,,
Dec. 4 ...	,	Elterwater (Birch Hill)	4·24 ,,	6·0	70·24 ,,
Mar. 23 ...	,	Dungeon Ghyll.....	4·19 ,,	4·6	91·41 ,,
June 26 ...	XI.	Ruabon (Wynnstay)	3·94 ,,	10·3	38·41 ,,
July 26 ...	XII.	Dalbeattie.....	3·84 ,,	6·9	55·70 ,,
Oct. 11 ...	XVIII.	Loch Shiel (Glenaladale).....	3·65 ,,	4·4	83·60 ,,
Mar. 23 ...	X.	Borrowdale Vicarage	3·62 ,,	4·7	77·60 ,,
June 26 ...	IX.	Sowerby Bridge (Haugh End)	3·61 ,,	8·3	43·44 ,,
Dec. 23 ...	XX.	Clonmel (Bruce Villa).....	3·56 ,,	8·1	44·22 ,,
," 4 ...	X.	Ambleside (Skelwith Bridge)	3·56 ,,	5·4	66·32 ,,
Nov. 10 ...	XI.	Merthyr Tydfil (Plymouth Wks.)	3·50 ,,	6·2	56·82 ,,
Aug. 29 ...	XVIII.	Ben Nevis.....	3·48 ,,	3·0	117·93 ,,
June 26 ...	IX.	Yeadon (South View House).	3·46 ,,	9·5	36·44 ,,
Dec. 23 ...	XX.	Glenam [Clonmel]	3·41 ,,	7·1	47·94 ,,
June 26 ...	XI.	Knighton	3·39 ,,	10·0	33·84 ..

TABLE II.—*Comparison of Maximum Falls with those in previous years.*

Years.	MEAN.			ABSOLUTE.				Division.
	Depth.	Per Cent.	Mean total fall at these stations.	Depth.	Per Cent.	Station.		
1865 ...	3·67	6·4	61·8	6·41	5·5	Seathwaite.....	X.	
1866 ...	3·40	—4·4	86·2	6·38	3·6	Seathwaite.....	„	
1867 ...	3·17	9·0	— 42·5	4·78	+17·7	Hartlip	II.	
1868 ...	3·32	6·1	65·9	5·60	4·8	Camusinas.....	XV.	
1869 ...	3·68	5·0	77·7	6·70	4·5	Seathwaite.....	X.	
1870 ...	3·20	7·5	43·8	6·00	17·1	Tongue	XIX.	
1871 ...	3·08	5·7	61·6	4·24	9·6	Melbury.....	V.	
1872 ...	4·10	6·6	73·1	5·82	3·2	Seathwaite.....	X.	
1873 ...	2·97	6·2	60·7	4·20	—2·9	Seathwaite	„	
1874 ...	3·96	4·6	86·5	5·32	4·4	Bryn Gwynant	XI.	
1875 ...	4·52	7·8	63·9	5·33	9·7	Newport W.W.	XXII.	
1876 ...	3·37	5·9	57·6	4·50	5·5	Foffany	XXIII.	
1877 ...	3·77	4·6	93·4	4·98	5·3	Skye, Portree..	XVIII.	
1878 ...	3·57	7·4	57·2	4·24	8·6	Springfield ...	XI.	
1879 ...	3·66	9·5	50·4	— 4·05	4·1	Little Langdale	X.	
1880 ...	3·50	7·7	51·1	4·75	3·9	Seathwaite.....	„	
1881 ...	3·65	4·9	83·1	5·42	4·7	Sligachan	XVIII.	
1882 ...	3·28	4·5	84·3	4·51	3·0	Seathwaite ...	X.	
1883 ...	3·69	6·1	72·4	5·27	9·0	Glenesmoel ...	XXI.	
1884 ...	3·45	4·7	80·7	6·78	5·0	Seathwaite ...	X.	
1885 ...	3·45	5·8	68·2	4·62	3·2	Seathwaite ...	„	
1886 ...	3·77	7·7	58·7	4·20	9·9	Little Bredy ...	V.	
1887 ...	—2·83	6·1	56·8	4·93	13·0	Galway Q.C....	XXII.	
1888 ...	4·20	5·9	77·0	5·20	5·4	Wythburn Vic.	X.	
1889 ...	3·89	+9·9	49·2	4·45	16·5	N. Ockendon ..	IV.	
1890 ...	+5·01	6·9	95·1	7·29	3·7	Ben Nevis Obs.	XVIII.	
1891 ...	4·38	4·7	+108·4	6·14	4·2	Seathwaite.....	X.	
1892 ...	4·47	7·9	70·1	5·80	4·5	Seathwaite.....	„	
1893 ...	3·84	5·8	89·6	4·96	3·5	Seathwaite.....	„	
1894 ...	3·95	5·7	83·0	+7·74	5·1	Ben Nevis Obs.	XVIII.	
Mean ...	3·69	6·4	70·3	5·35	6·7	
1895 ...	3·80	7·2	62·2	4·83	16·1	Mellington Hall	XI.	
Diff. ...	+ ·11	+ ·8	— 8·1	— ·52	+9·4	

TABLE III.—*Maximum Percentages in 1895.*

Date.	Div.	Station.	Per Cent.	Fal.	Total.
June 26 ..	XI.	Churchstoke (Mellington Hall)	16·1	4·83 in.	30·03 in.
" 26 ..	VI.	Worcester (Diglis Lock)	11·6	2·81 „	24·15 „
" 26 ..	XI.	Ruabon (Wynnstay)	10·3	3·94 „	38·41 „
" 26 ..	„	Knighton	10·0	3·39 „	33·84 „
Aug. 13 ..	IV.	North Walsham (Worstead)	9·8	2·75 „	28·19 „
July 25 ..	IX.	Wakefield (Field Head)	9·8	2·46 „	25·21 „
June 26 ..	VI.	Worcester (Belmont Road)...	9·8	2·26 „	22·95 „
July 21 ..	IV.	Maldon	9·7	2·04 „	21·01 „
Aug. 13 ..	„	Lowestoft (Brym-y-mor)	9·6	2·18 „	22·68 „
June 26 ..	IX.	Yeadon (South View House)...	9·5	3·46 „	36·44 „
" 26 ..	„	Ackworth (Nostell Priory)...	9·1	2·70 „	29·68 „
July 4 ..	IV.	Langham Rectory	9·1	2·04 „	22·46 „
" 25 ..	IX.	Cottingham	9·0	2·91 „	32·36 „
June 26 ..	„	Rotherham (Thrybergh)	8·9	2·60 „	29·06 „
July 25 ..	„	Wakefield (Walton).....	8·8	2·32 „	26·24 „
June 27 ..	X.	Scots Gap (Rothley Lake) ...	8·6	3·25 „	37·62 ..

TABLE VI.—*Max. Falls in each year exceeding 2·00 in., and exceeding 3·00 in.*

Year.	Total number of records.	Falls of 2·00 in. or more.		Falls of 3·00 in. or more.	
		Number.	Per cent. of total No.	Number.	Per cent. of total No.
1882	1463	140	9·6	8	0·6
3	1505	170	11·3	23	1·5
4	1691	138	8·2	9	0·5
5	1801	179	10·0	24	1·3
6	1718	158	9·2	44	2·6
7	1921	52	2·7	4	0·2
8	1974	374	18·9	34	1·7
9	1812	170	9·4	24	1·3
1890	2081	345	16·6	54	2·6
1	2218	270	12·2	39	1·8
2	2231	470	21·1	81	3·6
3	2267	183	8·1	29	1·3
4	2321	313	13·5	36	1·6
Mean	1923	228	11·6	31	1·6
1895	2423	249	10·3	31	1·3
Diff.	+500	+21	-1·3	0	-3

TABLE IV.—*Comparison of Max. Percentages with those in previous years.*

MEAN.				ABSOLUTE.			
Years.	Per Cent.	Depth.	Mean total fall at these Stations.	Per Cent.	Depth.	Station.	Division.
1865 ..	9·9	2·62	28·4	13·0	4·40	Fleckney.....	VII.
1866 ..	8·1	2·31	29·3	10·0	-2·48	Burton	VI.
1867 ..	11·0	2·85	25·3	+17·7	4·78	Hartlip	II.
1868 ..	8·6	2·55	30·1	11·0	4·00	Tongue	XIX.
1869 ..	7·9	2·17	27·9	10·0	3·40	Tillydesk	XVII.
1870 ..	10·0	2·34	22·9	17·1	+6·00	Tongue	XIX.
1871 ..	9·0	2·43	26·8	11·5	3·62	Warter	IX.
1872 ..	8·1	3·43	+42·5	10·0	3·70	Hillington Hall	IV.
1873 ..	9·7	2·39	24·7	11·8	2·77	Oscott	VI.
1874 ..	9·2	2·16	23·7	11·9	2·50	Welwyn.. [Hall	III.
1875 ..	10·2	+3·76	37·5	13·2	3·95	Letheringsett ..	IV.
1876 ..	-7·4	2·49	33·7	-8·5	3·70	Cragside	X.
1877 ..	8·2	2·73	33·1	9·3	3·09	Wellington.....	VI.
1878 ..	10·2	3·05	30·0	11·8	3·90	Haverstock Hill	I.
1879 ..	10·9	3·31	30·5	12·3	3·80	Cambridge M.V.	III.
1880 ..	9·5	3·06	32·3	11·7	3·34	Marmont Pr. L.	"
1881 ..	8·1	2·42	30·3	10·6	3·20	Aboyne Castle..	XVII.
1882 ..	7·7	2·54	33·4	9·1	2·80	Bothalhaugh ...	X.
1883 ..	9·7	3·00	31·1	12·3	4·31	Skegness	VII.
1884 ..	11·7	2·33	-20·0	13·8	2·66	Diss(Thelveton)	IV.
1885 ..	8·9	2·71	30·7	9·6	2·62	Beccles, Ellough	"
1886 ..	10·1	3·32	32·7	11·5	4·10	Methley Park...	IX.
1887 ..	9·5	-2·11	21·9	13·0	4·93	Galway	XXII.
1888 ..	10·9	3·05	28·3	11·8	3·24	Rothamstead ...	III.
1889 ..	12·7	3·51	27·8	16·5	4·45	N. Ockendon...	IV.
1890 ..	+14·4	3·60	25·1	17·2	3·68	Slough, Langley	III.
1891 ..	9·7	2·67	27·6	14·4	4·00	Sunnyside Aslm	XVI.
1892 ..	12·3	3·37	27·4	15·0	4·27	Tyntesfield	V.
1893 ..	12·0	2·81	23·4	16·2	4·48	Cranmer Hall...	IV.
1894 ..	9·0	2·54	28·3	11·1	3·56	Sidcup	II.
Mean ..	9·8	2·79	28·9	12·4	3·72
1895 ..	10·0	2·87	28·8	16·1	4·83	Mellington Hall	XI.
Diff. ..	+ ·2	+ ·08	- ·1	+ 3·7	+ 1·11

TABLE V.—*Comparison of the Mean of all the Maximum Falls of 1895 with similar data for previous years.*

Years.	Number of Returns.	Mean Percentage.	Mean Amount.	Mean Total Fall in year.	Ratio taking 34=100.	Total Fall being assumed =34in. Mean Max. =
1865.....	481	5·1	1·70	33	97	5·0 per cent
1866.....	590	3·7	1·48	40	118	4·4 ,,
1867.....	584	4·6	1·44	31	91	4·2 ,,
1868.....	676	4·3	1·43	33	97	4·2 ,,
1869.....	637	4·2	1·42	34	100	4·2 ,,
1870.....	687	4·9	1·30	27	79	3·8 ,,
1871.....	752	4·9	1·49	30	88	4·4 ,,
1872.....	743	— 3·4	1·59	+ 47	+ 138	4·7 ,,
1873.....	809	4·6	1·35	29	85	4·0 ,,
1874.... .	1010	4·4	1·41	32	94	4·1 ,,
1875.... .	1081	5·0	+ 1·83	37	109	+ 5·4 ,,
1876.... .	1112	3·9	1·49	38	112	4·4 ,,
1877.....	1180	3·8	1·56	41	121	4·6 ,,
1878.....	1186	4·3	1·49	35	103	4·4 ,,
1879.....	978	4·2	1·52	36	106	4·5 ,,
1880.....	1117	4·8	1·72	36	106	5·1 ,,
1881.....	1194	4·1	1·45	35	103	4·3 ,,
1882.....	1463	3·6	1·42	39	115	4·2 ,,
1883.... .	1505	4·0	1·41	35	103	4·1 ,,
1884.....	1691	4·8	1·32	28	82	3·9 ,,
1885.....	1801	4·5	1·41	31	91	4·2 ,,
1886.....	1718	4·6	1·64	35	103	4·8 ,,
1887.....	1921	4·5	— 1·14	— 25	— 74	— 3·4 ,,
1888.....	1974	4·4	1·41	32	94	4·1 ,,
1889.....	1812	4·8	1·41	29	85	4·1 ,,
1890.....	2081	5·0	1·46	29	85	4·3 ,,
1891.....	2218	4·1	1·47	35	103	4·3 ,,
1892.....	2231	+ 5·4	1·62	30	88	4·8 ,,
1893.....	2267	4·8	1·30	27	79	3·8 ,,
1894.....	2321	4·2	1·46	35	103	4·3 ,,
Mean ...	1327	4·4	1·47	33*	98	4·3 ,,
1895	2423	4·5	1·37	30	88	4·0 ,,
Diff.... + 1096	+ 1	— ·10	— 3	— 10	— ·3	,,

* Really 33·47.

THE CHRISTMAS RAINS IN THE SOUTH OF IRELAND.

The great rains, at the close of December, in the South of Ireland, have been mentioned on pages [33], [73] and [109], and we here bring together the daily totals, for the week ending December 27th, at the stations at which the fall was most remarkable. The totals for the week are enormous. This will be at once realised if we point out that the *least* of them, continued for a year would represent a fall of 286 inches per annum.

But even more striking are the totals for the three consecutive days—December 23rd, 24th and 25th—averaging about $2\frac{1}{2}$, $1\frac{3}{4}$, and $1\frac{1}{4}$ inches on the three successive days, or $5\frac{1}{2}$ inches for the three days; and at Clonmel (by no means an excessively wet station) amounting to more than *seven inches* in the three days. This fall is the more remarkable in that, as far as we can ascertain (there being no self-recording gauge in that part of the country), the fall was a steady one, not even partly due to a torrential rain of two or three inches in an hour, but to a steady downpour. No wonder that there were great floods, the wonder rather is that even greater damage was not done.

The locality affected is indicated by the places named in the following table, but it may be added that the exceptional fall did not extend to the extreme S.W. or S.E. of Ireland, nor more than about 30 miles inland.

Station.	County.	December.							Totals.	
		21	22	23	24	25	26	27	23-25	21-27
Bantry Ho.	Cork	in.	in.	in.	in.	in.	in.	in.	in.	in.
Bantry Ho.	Cork	1·46	·00	3·19	1·16	1·56	·00	·75	5·91	8·12
Dunmanway (Coolkelure)	„	1·04	·06	3·15	1·18	2·22	·07	·74	6·55	8·46
Roche's Point	„	1·25	1·40	1·80	·80	1·20	·10	·45	3·80	7·00
Douglas (Villa Franca) ...	„	1·69	·77	2·30	2·02	1·55	·09	·49	5·87	8·91
Cork (Queen's Coll.)	„	1·42	·67	2·51	2·34	1·41	·08	·47	6·26	8·90
„ (The Palace)	„	1·86	·43	2·52	2·36	1·54	·05	·42	6·42	9·18
„ (Clarence Place) ...	„	1·47	·71	2·30	1·90	1·51	·07	·43	5·71	8·39
„ (St. Anu's Hill) ...	„	1·31	·32	2·34	1·81	1·06	·02	·33	5·21	7·19
Killarney (Woodlawn) ..	Kerry	·87	·05	1·85	1·30	1·31	·04	·08	4·46	5·50
Mallow (Old Dromore) ...	Cork	1·65	·35	2·84	2·01	·91	·07	·23	5·76	8·06
Portlaw (Mayfield)	Waterford	·90	1·13	1·91	·96	·48	·08	·77	3·35	6·23
Glenam [Clonmel]	„	1·35	1·07	3·41	2·88	1·01	·10	·07	7·30	9·89
Clonmel (Bruce Villa) ...	Tipperary	1·04	·94	3·56	2·08	·64	·08	·09	6·28	8·43
Mean....		1·33	·61	2·59	1·75	1·26	·07	·41	5·61	8·02

DROUGHTS IN 1895.

As the year 1895 is the eighth for which we have prepared tables of droughts constructed upon uniform principles, and as near as may be for identical stations equably spread over the whole of the British Isles, we are beginning to be able to form some idea as to their average character.

Only very carefully kept records can be used, because the more careless the observer the more wonderful will be the droughts reported. A record may be quite correct as to the total fall of rain in the year, but if the observer be not careful to examine and record every day what has been collected by his gauge, the record is of no use for information as to droughts. A single fall of 0·01 in. will break an absolute drought, and it is the careful observer who will note it, and so have a shorter drought than the careless one who leaves the 0·01 in. to be measured the next time that there is anything to measure. This is all perfectly obvious, but it is so fundamental a basis of all studies of droughts that it seems best to mention it.

It will be convenient also to restate the definitions of droughts:—

ABSOLUTE DROUGHTS.—Periods of *more than 14 consecutive days absolutely without measurable R.*

PARTIAL DROUGHTS.—Periods of *more than 28 consecutive days, the aggregate rainfall of which does not exceed 0·01 in. per diem.*

The records for 50 well-distributed stations have been examined, and their droughts tabulated on pages [132] to [134]. A summary of them has also been made upon exactly the same lines as in the

seven previous years, and thus the following abstract has been formed :—

ABSOLUTE DROUGHTS.

	No. of stations.	No. of Droughts.	Average.	Duration.	Greatest.	Stations without one.
1888	... 50	17	17 days	20 days	20 days	35
1889	... 50	42	21 „	30 „	30 „	13
1890	... 50	13	18 „	20 „	20 „	39
1891	... 50	26	18 „	34 „	34 „	28
1892	... 50	36	16 „	20 „	20 „	25
1893	... 50	39	20 „	44 „	44 „	23
1894	... 50	52	18 „	31 „	31 „	10
1895	... 50	52	19 „	29 „	29 „	16

PARTIAL DROUGHTS.

	No. of stations.	No. of Droughts.	Average.	Duration.	Greatest.	Stations without one.
1888	... 50	4	42 days	50 days	50 days	46
1889	... 50	38	34 „	45 „	45 „	15
1890	... 50	3	30 „	31 „	31 „	47
1891	... 50	38	36 „	49 „	49 „	14
1892	... 50	17	35 „	64 „	64 „	33
1893	... 50	53	51 „	114 „	114 „	10
1894	... 50	44	37 „	62 „	62 „	13
1895	... 50	47	39 „	64 „	64 „	19

There are two ways of looking at this table ; each leads to a similar conclusion. There are not many years, not enough to give a reliable average, but, compared with the average such as it is (1888-94), we find that 1895 had nearly 40 per cent. more than the average number both of absolute and of partial droughts. If we break the eight year period into two of 4 years each, we shall find that droughts in the last 4 years have been nearly twice as severe as in the previous 4 years. Lastly, it is easy to see that Absolute droughts in 1895 were as numerous as in 1894, and considerably more so than in any previous year, and that Partial droughts, though not equal to those in 1893, have beaten every other year since 1887.

Turning now to the tables themselves, the first feature claiming notice is the great extent of country over which neither Snow nor Rain fell during the great February frost. Then we have the Partial drought in May and June, and lastly, the Absolute drought, chiefly in the South of England, of between two and three weeks during the hot weather in the latter half of September.

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			Amount. in.
	Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	
London (Camden Square), N.W..	Feb. 6	Feb. 23	18	Feb. 2	Mar. 18	45	.42
<i>Middlesex.</i>	Sept. 11	Sept. 30	20	April 28	June 30	64	.64
Dorking (Abinger Hall)	Feb. 2	Feb. 23	22	Jan. 28	Mar. 3	35	.34
<i>Surrey.</i>	May 2	May 16	15				
Hythe.....	April 28	May 14	17	April 27	June 13	48	.42
<i>Kent.</i>							
Welwyn (Datchworth Rectory)...	Feb. 6	Feb. 23	18	Jan. 28	Mar. 5	37	.31
<i>Herts.</i>	May 2	May 16	15				
Maxey Vic. [Market Deeping] ...	Feb. 5	Feb. 22	18	Feb. 1	Mar. 8	36	.33
<i>Northampton.</i>	May 2	May 16	15	April 28	May 29	32	.26
Geldeston [Beccles]	Sept. 11	Sept. 30	20	None			
<i>Norfolk.</i>							
Calne (High Street)	Feb. 3	Feb. 23	21	Jan. 25	Mar. 1	36	.32
<i>Wilts.</i>	May 2	May 21	20				
	June 12	June 27	16				
Torquay (Cary Green).....	Feb. 1	Feb. 23	23	Jan. 30	Mar. 7	37	.31
<i>Devon.</i>	May 2	May 18	17	April 26	May 30	35	.30
	Aug. 27	Sept. 10	15	Aug. 13	Sept. 29	48	.31
	Sept. 12	Sept. 29	18				
Bideford (Northam Vicarage) ...	Feb. 1	Feb. 23	23	Jan. 26	Mar. 1	35	.32
<i>Devon.</i>	May 9	May 30	22	April 30	June 12	44	.39
	Sept. 11	Sept. 29	19				
St. Austell (Trevarna)	Jan. 30	Feb. 23	25	Jan. 30	Mar. 1	31	.11
<i>Cornwall.</i>							
Ilminster (White Lackington) ...	Feb. 6	Feb. 23	18	Feb. 1	Mar. 5	33	.24
<i>Somerset.</i>	May 2	May 30	29	April 26	May 30	35	.30
Ross (The Graig)	Feb. 1	Feb. 23	23	Feb. 1	Mar. 7	35	.22
<i>Hereford.</i>				May 2	June 28	58	.47
Weston Park [Shifnal]	Feb. 6	Feb. 23	18	Feb. 2	Mar. 5	32	.26
<i>Stafford.</i>							
Market Overton	None			None			
<i>Rutland.</i>							
Worksop (Hodsock Priory)	None			Feb. 1	Mar. 8	36	.31
<i>Notts.</i>							
Belper (Northfield)	None			Feb. 1	Mar. 5	33	.33
<i>Derby.</i>				May 2	June 25	55	.44
St. Michael's-on-Wyre	Feb. 7	Feb. 22	16	Jan. 29	Feb. 27	30	.25
<i>Lancashire.</i>							

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			in. ·28 ·16
	Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	
Knaresboro' (Farnham)	Sept. 12	Sept. 26	15	Feb. 1	Mar. 2	30	
<i>York, W.R.</i>				May 2	May 31	30	
Driffield (Beverley Road)	None			None			
<i>York, E.R.</i>							
Darlington (South End)	Feb. 7	Feb. 22	16	None			
<i>Durham.</i>	Sept. 7	Sept. 22	16				
Morpeth (Bothalhaugh Garden)...	None			None			
<i>Northumberland.</i>							
Pawston [Coldstream].....	Feb. 7	Feb. 21	15	Aug. 28	Sept. 30	34	·29
<i>Northumberland.</i>							
Blencowe School [Penrith].....	None			None			
<i>Cumberland</i>							
Chepstow (Shirenewton Hall) ..	Feb. 3	Feb. 22	20	Jan. 30	Mar. 5	35	·31
<i>Monmouth</i>				May 2	May 31	30	·18
Haverfordwest (High Street) ...	Feb. 2	Feb. 22	21	Jan. 29	Mar. 1	32	·26
<i>Pembroke.</i>				May 1	June 26	57	·54
Churchstoke (Mellington Hall)...	Feb. 2	Feb. 23	22	Jan. 29	Mar. 7	38	·34
<i>Montgomery.</i>				May 2	May 31	30	·22
Halkyn	Jan. 29	Feb. 22	25	Jan. 29	Mar. 5	36	·36
<i>Flint.</i>							
Carnarvon (Cocksidia).....	Feb. 7	Feb. 23	17	Jan. 29	Mar. 1	32	·24
<i>Carnarvon.</i>				May 1	June 25	56	·54
Gariestown (Galloway House) ...	Feb. 8	Feb. 22	15	None			
<i>Wigton.</i>							
Cargen [Dumfries]	Feb. 8	Mar. 5	26	May 1	June 27	58	·35
<i>Kirkcudbright.</i>	May 1	May 24	24	Aug. 31	Sept. 30	31	·22
Sept. 10	Sept. 30	21					
Melrose Asylum	Feb. 7	Feb. 22	16	Feb. 7	Mar. 7	29	·26
<i>Roxburgh.</i>				Aug. 27	Sept. 30	35	·29
Edinburgh (Blacket Place).....	Feb. 7	Feb. 22	16	Feb. 4	Mar. 7	32	·31
<i>Edinburgh.</i>							
Ardrossan (Kirkhall)	Feb. 9	Feb. 27	19	Jan. 30	Feb. 27	29	·28
<i>Ayr.</i>	May 27	June 10	15	May 1	June 17	48	·46
Buchlyvie (The Manse)	None			None			
<i>Stirling.</i>							

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			Amount. in.
	Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	
Strontian (Laudale)..... <i>Argyll.</i>	None			None			
Islay (Ardbeg) <i>Argyll.</i>	Feb. 4 May 25	Feb. 23 June 9	20 16	None			
Kirriemuir (Lintrathen) <i>Forfar.</i>	None			None			
Cromar (Logie Coldstone Manse) <i>Aberdeen.</i>	None			None			
Alness (Ardross Castle) <i>Ross.</i>	Feb. 6	Feb. 21	16	None			
Golspie (Dunrobin Castle) <i>Sutherland.</i>	Feb. 5	Feb. 21	17	None			
Dunmanway (Coolkelure)	None			None			
Killarney (Woodlawn)	None			None			
Clonmel (Bruce Villa)	None			May 1	May 30	30	.14
Enniscorthy (Ballyhyland)..... <i>Wexford.</i>	None			May 1	June 25	56	.56
Bray (Fassaroe)..... <i>Wicklow.</i>	Feb. 8 May 13	Feb. 22 May 30	15 18	April 27	June 25	60	.44
Athlone (Twyford)	None			May 13	June 21	40	.36
Ballinasloe	None			None			
Collooney (Markree Observatory) <i>Sligo.</i>	Feb. 8	Feb. 22	15	None			
Belfast (Antrim Road)	May 22	June 10	20	April 30	June 25	57	.51
Stewartstown (The Square)	Feb. 8	Feb. 27	20	None			

MONTHLY RAINFALL OF 1895.

We give, as usual, information on this subject in many forms.

In the *Meteorological Magazine* we give monthly abstracts of records from 150 stations, and for about 40 of them the difference between the fall in each month, and the average for the same month during the previous decade.

In the Observers' Notes on the Months (see pages [35] to [73]) we have given the general history of the weather; in the following tables (pages [136] to [142]) we give the monthly rainfall at each of 233 stations, and in the two sheets of maps inserted between pages [142] and [143] we show in which part of the country the fall was near the average, and in which it was an inch or more above or below it.

These maps are similar to those given in previous years, and are based upon the following data:—A map was prepared showing the stations of which the records date back to 1880 and are still being continued; 48 stations were then chosen as widely distributed as possible; for each of them the mean rainfall was determined for each month, from the observations made during the decade, 1880-89. Then a table was constructed, showing for each station, whether the fall in each month in 1895 was within an inch of the average, or more than an inch above or below it. Upon the map for each month were then placed marks over the site of each station, indicative of the relation of the fall in that month to the average. The symbols adopted were:—

A round dot when within an inch of the average.

A + when more than an inch above it.

A — when more than an inch below it.

Lastly, we give on pages [143] to [147] a brief history of the distribution of the fall of rain over the British Isles in each month, and remarks on such monthly totals as are exceptional.

MONTHLY RAINFALL AT 233 STATIONS IN THE BRITISH ISLES DURING 1895.

ENGLAND.

Div.	County.	Station.	Total.												
			Jan.	Feb.	March	April	May	June	July	August	Spt.	Oct.	Nov.	Dec.	
I.	Middlesex	London (Camden Square) ...	1.96	'1.2	1.42	1.34	'34	'30	3.42	3.09	1.28	2.84	3.17	2.19	21.47
	" "	Pinner Hill.....	2.16	.13	1.51	1.61	.14	1.02	5.49	2.70	.90	2.83	3.76	1.99	24.54
II.	Surrey	Guildford (Guildown)	2.47	.18	1.52	1.93	.42	.42	5.34	2.48	.83	3.30	4.08	2.62	25.59
	Kent	Tenterden	2.61	.26	2.02	1.54	.08	.14	3.23	2.00	.58	3.36	4.85	2.41	23.08
"	" "	Hythe	3.15	.38	1.95	2.00	.15	.70	3.56	2.16	.86	4.24	4.33	3.10	27.08
	" "	Sevenoaks (Riverhead Vic.)	1.92	.53	1.56	1.77	.12	.16	4.17	2.44	.57	2.88	4.40	3.29	23.81
"	" "	Ospringe (Lorenden)	1.83	.50	.86	1.31	.19	.35	3.16	1.20	.46	3.64	3.43	1.77	18.70
	" "	Arundel (Patchling)	3.03	.09	1.89	2.38	.25	.38	3.45	3.23	.57	5.34	6.58	3.13	30.32
"	" "	Maresfield (Forest Lodge) ..	2.27	.33	2.01	2.42	.07	.29	3.19	2.79	.55	4.01	5.77	3.80	27.50
	" "	Hants	4.20	.12	2.54	2.51	.16	.55	5.20	3.15	.33	4.66	6.51	3.91	33.84
"	" "	Bps. Waltham (Swanmore Ho.)	2.87	.13	2.25	2.88	.29	1.24	4.14	2.87	.42	2.72	5.72	2.96	28.49
	" "	Basingstoke (Sherborne S.J.)	2.47	.22	1.39	1.60	.28	.56	3.67	1.42	1.86	3.83	5.24	2.48	25.02
"	" "	Berks	3.36	.15	2.25	1.91	.73	.51	4.34	2.83	1.56	3.68	5.55	2.20	29.07
	" "	Newbury (Welford Park) o.g.	2.08	.14	1.61	1.00	.57	.34	3.90	3.17	.67	2.68	3.70	1.94	21.80
III.	Herts	Hertford (Bayfordbury)	2.45	.22	1.81	.83	.66	.39	3.84	5.12	.79	1.99	3.28	1.52	22.90
	" "	Royston	2.45	.35	1.88	1.53	.42	1.32	3.65	2.19	.63	2.73	4.56	1.90	23.45
"	Bucks	Buckingham (Astdock)	2.29	.09	1.55	1.08	.66	.36	4.00	2.54	1.03	3.12	5.32	2.07	24.14
	" "	Henley (Northfield House) ..	2.32	.08	1.34	1.62	.18	.73	3.54	2.40	.64	2.78	4.17	1.92	21.88
"	" "	Oxford (Magdalen Coll.) ..	2.48	.08	1.21	1.35	.20	1.01	2.35	2.39	.90	2.11	3.48	1.52	20.32
	" "	Wellingborough (Swanspool)	2.77	.15	1.64	1.02	.45	.53	4.42	2.17	.83	2.31	4.54	1.47	21.95
"	" "	Bedford (The Grove)	2.42	.15	1.19	1.13	.59	.78	2.75	3.59	.39	1.93	2.40	1.47	18.04
	" "	Ely (Stretham)	1.67	.15	1.67	2.01	.59	.89	1.25	1.68	.57	2.66	2.90	1.76	20.94
"	" "	Wisbech Bank House	2.67	.32	1.34	1.62	.18	.73	3.54	2.40	.64	2.78	4.17	1.92	21.88
	" "	Loughton (High Beech)	1.40	.06	1.36	1.35	.21	.28	3.37	1.96	1.01	2.43	2.85	2.24	18.52
"	" "	Chelmsford (High Street) ..	1.64	.08	1.14	.73	.33	.29	3.72	1.93	.85	1.65	2.21	2.88	17.45
	" "	Braintree (Bocking Place) ..	2.15	.52	1.40	1.21	.75	1.13	2.66	1.79	1.03	1.78	2.37	2.53	19.32
"	" "	Ipswich (Bishop's Hill)	2.40	.56	1.63	.61	.38	.47	3.52	2.40	.92	2.51	2.02	1.82	19.24
	" "	Haverhill (Great Thurlow)	2.03	.22	1.72	1.06	.74	1.32	4.89	3.64	.65	2.06	2.51	1.98	22.77
"	" "	Framlingham (Mount Pleasant)	2.68	.60	1.90	.76	.48	.43	3.59	2.81	.76	3.24	1.91	1.65	20.81
	" "	Geldeston [Beccles]	2.53	.77	1.79	.85	.73	.82	3.80	3.18	.44	3.74	2.26	1.55	22.46
"	" "	Swarkestone	3.20	.30	2.12	1.56	.95	1.73	3.65	3.59	.72	1.95	2.97	1.91	24.65
	" "	Holt Lodge	3.96	.86	2.52	1.34	.83	3.00	4.17	.63	3.01	3.18	2.61	27.79	

ENGLAND—(continued.)

Div.	County.	Station.	Total.											
			Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.
V.	Wiltshire	Salisbury (Alderbury)	3·51	·10	1·74	2·84	·22	1·37	3·13	2·13	1·41	3·26	5·97	2·05
"	"	Trowbridge (Rodney House)	3·46	·18	2·20	2·25	·25	·58	3·47	2·85	·76	2·67	5·11	2·37
"	"	Marlborough (Mildenhall)	2·88	·17	2·18	2·52	·22	1·51	4·01	3·59	1·31	3·68	5·72	2·31
"	Dorset	Brimminster Vic.	5·13	·17	3·26	·43	1·42	3·42	2·71	·43	4·41	7·80	3·96	30·10
"	"	Wimborne (Chalbury)	4·58	·00	2·08	2·82	·49	1·53	3·21	2·63	·31	3·10	5·69	2·68
"	"	H.-z-lbury Bryan Rectory	2·94	·35	3·68	3·90	·10	1·64	3·58	3·60	·53	4·94	9·29	4·53
"	Devon	T." quay (Watcombe Park)	4·52	·04	3·06	2·31	·94	1·33	2·93	3·11	·48	4·07	7·69	5·58
"	"	Walkhampton (Lower)	5·96	·51	4·44	4·22	·78	2·07	5·78	5·50	·89	4·63	8·80	6·27
"	"	Ilsington (Middlecott Ho.)	6·69	·00	4·30	3·65	1·42	1·32	3·46	2·96	·50	5·79	12·25	7·31
"	"	Cullompton	4·76	·11	3·03	2·00	·71	1·78	2·94	3·51	1·32	3·94	6·11	4·59
"	"	South Molton (East Street)	4·86	·23	3·94	1·74	·25	1·46	4·55	4·98	1·36	5·98	6·42	5·13
"	Cornwall	Penzance (Penlee)	7·37	·24	3·12	2·17	·08	2·14	3·01	2·78	·22	7·51	5·89	8·52
"	"	St. Agnes	7·18	·03	2·53	1·93	·58	1·31	2·52	2·49	·50	5·96	5·53	8·21
"	"	Bude	3·49	·03	2·86	1·69	·38	1·89	3·56	2·21	·47	6·74	5·37	3·87
"	Somerset	Ilminster (White Lackington)	4·37	·18	3·31	2·52	·44	1·27	2·56	2·90	·99	3·98	7·76	3·39
"	"	Glastonbury (Street)	4·09	·16	2·48	1·79	·61	·92	2·93	3·87	1·48	3·76	5·51	2·40
"	"	Dunster (Knowle)	3·95	·18	3·50	1·98	·65	1·47	3·18	2·86	·88	5·58	7·58	4·62
VI.	Gloucester	Clifton (Pembroke Road)	3·93	·11	2·41	2·63	1·01	·82	3·37	3·57	1·22	4·25	5·38	2·94
"	"	Stroud (Upfield)	3·22	·12	2·37	2·99	·48	·67	2·83	3·07	·98	3·24	5·02	2·05
"	"	Fairford (Hatherop Rec.)	2·24	·07	2·46	2·63	·15	·65	2·85	2·21	·79	2·95	5·04	2·21
"	"	Moreton-in-Marsh (Longboro')	4·12	·21	2·74	2·36	·43	·71	3·12	2·35	·84	3·74	6·38	2·11
"	Hereford	Ross (The Craig)	4·40	·04	2·13	2·60	·43	·93	2·59	2·22	1·01	2·68	4·80	2·13
"	Salop	Ch. Stretton (Woolaston)	4·51	·27	1·99	2·24	·78	·73	2·42	2·70	1·08	2·49	4·31	2·56
"	"	Much Wenlock (Wiley Pk.)	4·86	·15	1·98	2·71	·53	1·30	2·45	2·39	·48	2·56	3·64	1·91
"	"	Ellesmere (Oteley)	1·81	·08	2·17	2·74	1·70	2·03	3·19	2·29	·1·23	2·75	2·10	2·18
"	Stafford	Penkridge (Rodbaston)	3·17	·21	2·20	2·15	·70	·87	3·32	2·37	·48	2·84	2·95	2·12
"	"	Burton (Shobnall)	3·08	·17	1·61	1·64	·58	2·45	3·57	2·07	·22	2·47	2·41	2·23
"	"	Etruria	2·81	·24	2·97	2·08	·76	1·22	4·02	4·96	·55	2·24	3·40	2·63
"	"	Malvern (Madresfield Rec.)	3·80	·45	2·00	2·09	·89	1·28	2·94	1·87	·48	2·85	4·48	1·90
"	"	Tenbury (Orleton)	4·37	·17	1·74	2·14	·61	·85	2·58	2·40	·70	2·41	4·70	2·08
"	"	Stourbridge (Pedmore)	3·74	·19	2·01	2·34	·93	1·32	2·71	3·09	·32	2·43	3·86	2·30
"	Warwick	Leamington (The Parade)	3·44	·09	1·64	1·59	·36	·58	2·32	2·77	·69	2·70	2·98	1·66
"	"	Bedworth Cemetery	3·65	·21	2·22	1·80	·89	·59	2·82	2·63	·61	3·03	4·09	2·29
VII.	Leicester	Loughboro (Nan Pantan Res)	3·89	·09	1·81	2·31	·67	·40	3·76	2·26	·45	3·02	3·31	2·21
"	"	Belvoir Castle n.y.	3·02	·27	1·98	1·57	·71	1·26	2·86	1·91	·43	2·95	2·80	1·86

ENGLAND—(*continued.*)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
VII.	Rutland	Market Overton	3.71	·33	2.43	1.68	·81	·77	2.61	1.98	·79	3.26	4·81	2·41	25·59
	Lincoln	Sleaford (Ranceby Hall)	3.16	·61	1·84	1·71	1·02	1·61	3·46	2·36	·32	2·67	3·11	2·24	24·11
	"	Market Rasen	4.39	·37	2·16	1·46	1·05	1·57	5·11	3·00	·48	2·51	2·55	2·06	26·71
	"	West Halton	3.38	·73	2·45	1·48	·91	2·68	5·80	1·87	1·02	3·21	2·21	2·04	27·78
	Notts	Ollerton (Thoresby Gardens)	3.70	·50	1·75	2·74	·71	1·82	4·22	1·65	·91	3·09	4·09	2·43	27·61
	Derby	North Darley	5.37	·29	3·15	2·41	·41	1·48	4·05	2·35	1·09	3·28	4·79	4·13	32·80
	Cheshire	Congleton (Buglawton Vic.)	2.61	·25	3·21	2·33	·52	2·51	4·19	2·60	·60	2·87	2·32	2·58	26·59
VIII.	Lancashire	Manchester (Withington).	2.39	·28	2·72	1·67	·58	2·24	5·28	2·81	1·39	3·10	2·47	3·37	28·30
	"	Ormskirk (Rufford)	2.92	·35	2·68	2·38	·85	1·22	3·54	2·88	1·21	4·83	2·93	2·96	28·75
	"	Bunley (Swindon, Lower)	4·33	·65	4·02	3·22	·81	3·01	5·85	4·95	1·96	4·96	5·13	5·23	44·12
	"	St. Michael's-on-Wyre	2.21	·34	3·82	2·39	·60	1·66	4·08	3·78	1·20	5·03	3·04	3·64	31·79
	"	Cartmel (Pit Farm)	3·20	·73	4·61	2·71	1·06	2·35	8·00	4·61	1·25	5·53	4·29	5·20	43·54
	IX.	York, W.R.	3·99	·19	1·80	2·33	·87	3·52	4·61	1·71	·77	2·98	3·16	2·69	28·62
	"	Rotherham (Moorgate Grove, Huddersfield (Dalton))	4·45	·49	2·33	2·68	·76	5·43	7·06	2·14	·92	4·11	3·77	5·08	39·22
X.	"	Leeds (Methley Park)	3·70	·27	1·69	1·55	·98	2·71	5·64	2·61	·68	3·27	3·21	2·67	28·98
	"	Malham Tarn	5·07	·58	5·18	3·76	1·18	2·97	8·18	6·48	2·68	6·69	5·96	6·02	55·75
	"	Ripon (Mickley)	4·69	·43	2·64	2·22	·53	3·22	4·72	3·23	1·41	3·34	5·07	2·87	34·37
	"	Patrington	3·72	·79	2·13	·91	·90	2·68	3·70	3·60	·54	3·41	2·36	1·97	26·71
	"	Pocklington (Warter)	5·75	·64	2·70	1·67	·64	4·32	6·10	2·40	1·49	4·29	2·73	2·22	34·95
	"	Old Malton	3·67	·46	1·98	1·32	·46	2·65	5·20	1·81	1·29	3·89	2·59	1·91	27·23
	"	Thirsk (Sowerby)	3·70	·43	1·81	1·11	·70	2·23	4·87	3·80	1·27	3·08	2·38	1·69	27·07
X.	York, E.R.	Whitby (Royal Crescent)	4·40	1·05	2·10	1·35	·70	1·19	4·74	3·85	1·31	4·85	2·61	2·07	30·22
	"	Lockwood Beck	4·11	1·15	2·45	1·63	1·25	2·18	5·87	2·89	1·19	6·19	2·52	2·09	23·52
	"	Darlington (South End)	4·30	·98	2·15	1·87	·91	1·74	5·50	2·03	·73	3·79	3·04	1·94	28·98
	"	Hartlepool (Hurworth Burn)	5·31	·88	2·28	1·38	·66	3·44	5·96	2·61	·62	5·67	2·23	1·23	33·27
	"	Wolsingham	6·28	·130	3·58	1·66	1·09	1·57	6·63	1·89	·72	4·62	5·49	3·95	38·78
	"	Haltwhistle (Unthank Hall)	2·43	·71	3·41	1·55	·47	1·56	4·77	4·80	·99	3·96	3·24	3·44	31·33
	"	Morpeth (Meldon Park)	5·49	·24	2·81	1·26	·50	3·28	5·31	3·52	·65	4·44	2·75	1·84	33·09
X.	"	Alwinton (Biddulstone)	5·97	·08	4·06	1·23	·45	1·59	5·70	4·19	·47	7·65	3·98	2·10	39·42
	"	Howick Hall	4·89	·32	2·44	1·19	·70	2·16	5·06	3·33	·45	6·53	2·50	2·33	32·90
	"	Borrowdale (Seathwaite)	5·89	·18	13·39	8·30	·58	3·18	9·15	15·21	5·35	10·78	11·57	14·15	99·73
	"	Brampton (Denton House)	2·26	·67	2·73	1·13	·51	2·50	5·82	5·47	1·12	4·01	2·82	2·42	31·46
	"	Kendal (Kent Terrace)	2·70	·97	5·51	2·79	1·00	2·84	7·75	6·91	1·24	5·67	5·24	5·30	47·92
	"	Appleby (Ornside)	2·01	·41	3·02	1·18	·42	2·70	7·90	4·26	1·42	3·34	4·11	2·57	33·34
	"	Lowther Castle	1·63	·08	4·63	1·64	·96	1·69	5·53	1·64	1·64	5·53	6·67	3·27	38·32

MONMOUTH, WALES AND THE ISLANDS.

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.	
XI.	Monmouth.	Chepstow (Shirenewton Hall)	5·46	.06	3·92	3·19	.35	2·22	4·33	5·57	1·23	3·83	5·79	3·51	39·46	
"	"	Abergavenny (Larchfield)	6·10	.08	3·20	2·88	.44	.92	2·97	2·79	.94	3·37	7·94	3·52	35·15	
"	Glamorgan.	Cardiff Castle	4·00	.21	3·84	1·79	.53	1·47	4·62	3·93	1·22	4·57	4·82	4·04	35·04	
"	"	Neath (Fairy Land)	5·62	.11	4·73	2·70	.35	.83	6·22	5·57	1·80	4·14	7·07	3·58	42·72	
"	Carmarthen	Llanelli (Old Market Place)	5·06	.09	2·09	2·18	.36	.88	4·30	5·41	.96	4·41	5·87	3·67	35·28	
"	"	Llandover	4·58	.28	5·40	2·11	.63	.78	5·38	5·67	1·17	5·03	6·20	4·13	41·36	
"	Pembroke	Stackpole Court	5·75	.12	3·43	2·35	.71	1·10	3·09	3·77	.70	4·41	5·57	3·17	34·17	
"	Cardigan	Troedyraur Rectory	6·18	.34	3·48	3·47	.52	.52	.53	4·91	2·37	.59	6·58	4·47	3·27	36·71
"	Brecknock	Brecknock (Cantref Rec.)	4·94	.29	4·63	2·57	.83	1·51	4·62	4·11	.97	4·65	10·01	5·25	44·38	
"	"	Newbridge (Llysdiran) ...	3·86	.12	2·31	1·64	.60	.41	2·72	3·15	.76	4·34	5·39	4·70	45·70	
"	Radnor	Rhayader (Nantgwynl)	6·79	.47	5·67	3·21	.97	1·00	5·06	4·88	1·05	6·49	9·14	5·68	50·41	
"	Montgomery	Churchstoke (Mellington Hall)	4·13	.12	1·95	2·11	.42	.42	5·54	1·92	2·25	.98	3·13	4·70	2·78	30·03
"	Flint	St. Asaph (Nantllys) ...	2·03	.65	2·54	2·67	1·91	.52	3·57	1·84	.60	4·87	3·97	2·16	27·33	
"	Denbigh	Rosset (Trerbyn Hall) ...	3·18	.20	2·29	1·82	.81	3·24	3·90	1·73	1·14	3·89	3·82	2·23	28·25	
"	Merioneth	Dolgelly (Werngoch) ...	5·58	.79	7·76	3·91	1·43	.58	8·90	6·75	2·26	7·93	10·01	4·66	60·56	
"	"	Oakley Quarries ...	4·98	.83	11·85	7·12	.45	1·42	12·57	11·71	4·11	9·37	7·36	8·12	79·89	
"	"	Llannderfel (Pâle) ...	5·37	.36	4·29	3·37	.73	.87	5·15	4·61	2·01	5·71	9·60	3·87	45·94	
"	Carnarvon	Llanystumdw (Talarvor)	3·92	.00	4·91	1·92	.08	.86	4·71	2·34	1·06	4·79	3·29	3·25	31·13	
"	Anglesey	Llanerchymedd (Llwydiarth)	3·35	.22	4·55	3·03	.32	1·75	3·78	2·19	1·51	6·61	4·77	3·41	35·49	
"	Isle of Man	Douglas (Victoria Road) ...	2·61	1·74	4·43	2·98	.26	.91	5·28	5·79	3·18	3·18	3·73	3·73	35·58	
"	Jersey	St. Helier (St. Louis Obs.)	3·68	.12	2·03	1·55	.06	1·66	3·03	2·56	.37	7·28	4·36	5·09	31·79	
"	Guernsey	St. Peter Port (Beauleiu) ..	4·31	.08	2·99	3·17	.49	1·06	3·02	2·84	1·39	6·02	6·08	6·29	37·74	

SCOTLAND.

XII.	Wigtown	Carliestown (Galloway House)	2.06	1.22	3.22	2.68	.61	1.01	4.33	6.75	1.04	4.17	4.59	4.71	36.44
	Corsewall	Corsewall	1.00	.00	2.02	1.16	.20	1.70	2.23	5.89	.35	2.36	4.46	3.29	24.66
"	Kirkcudbright	Dalbeattie (Colvend Manse)	.91	.71	2.68	3.42	.54	1.24	5.28	6.98	.92	2.40	5.28	4.40	34.76
"	Dumfries	New Galloway (Glenlee),	2.18	2.39	4.35	3.67	.58	.76	6.11	7.75	1.21	4.32	7.34	6.98	47.64
"	Roxburgh	Moffat (Ericstane)	3.60	1.30	6.50	2.60	.30	1.30	7.30	3.20	.10	4.85	9.50	5.50	46.05
"	"	New Castleton (The Flatt).	3.50	.90	5.70	2.40	.60	1.40	6.40	8.20	1.60	5.10	5.20	4.30	45.30
"	Jedburgh	Hawick (Branxholme)	2.39	.60	3.93	1.55	1.28	1.05	5.65	4.98	.54	5.24	4.98	2.83	35.02
"	Selkirk	Jedburgh	2.79	.97	3.49	1.52	1.22	1.04	5.48	3.34	.29	5.19	2.83	1.58	29.74
"	Peebles	The Hangingshaw	2.60	.25	4.27	1.32	.83	1.43	6.03	3.71	.27	6.24	4.01	2.32	33.28
XIII.	Eddlestone (Portmore)	Eddlestone (Portmore)	2.50	1.15	3.50	1.37	.93	1.55	5.40	6.12	.47	4.45	3.09	3.70	34.23

SCOTLAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.	Total
XIII.	Berwick	Marchmont House	2.74	1.12	2.97	1.20	1.05	3.09	6.14	3.95	.24	7.02	3.02	2.19	34.73
	Haddington	Haddington Asylum	2.30	.82	2.91	1.43	.68	2.23	4.19	4.00	.63	3.68	1.93	1.91	26.71
	Edinburgh	Edinburgh (Blacket Place)	1.77	.56	2.80	1.17	1.42	2.88	4.66	5.12	.63	3.30	2.60	2.27	29.18
	Linlithgow	Uphall	1.28	.37	2.88	1.20	.67	3.05	3.43	5.25	1.23	3.62	3.37	2.82	29.17
	Lanark	Biggar (Cambus Wallace)	2.26	.42	3.00	1.02	.50	1.58	4.08	5.12	.50	3.51	3.53	3.53	29.05
	"	Hamilton (Water Works)	1.25	.55	2.50	1.45	.20	1.25	4.20	5.00	1.05	3.55	3.35	4.30	28.65
	Ayr	Colmonell	2.00	1.93	4.16	2.89	.42	1.23	4.18	5.08	.60	4.84	5.69	5.11	38.13
XIV.	"	Ayr (Ballantine Drive)	1.42	.25	2.48	1.82	.21	1.20	4.46	5.40	.85	3.99	4.02	4.20	30.30
	"	Ardrossan (Kirkhall)	1.22	.37	2.71	2.59	.45	1.88	5.08	5.53	.59	2.69	4.58	3.48	31.17
	Dumbarton	Arrochar	2.04	.88	5.56	4.80	.82	2.26	5.92	8.01	3.15	3.55	9.63	?2.52	?49.14
	Stirling	Buchlyvie (The Manse)	2.09	.60	3.03	3.05	.99	2.99	5.19	7.48	1.92	3.12	6.79	5.74	42.99
	"	Rothesay (Barone Cott.)	1.42	.67	3.36	3.20	.68	2.62	4.58	6.77	1.43	4.31	5.95	4.79	39.78
	Bute	Lochgilphead (Kilmory)	1.85	1.12	4.42	3.24	.27	2.00	4.32	6.62	3.04	4.85	6.67	7.58	45.98
	Argyll	Appin (Airls)	1.83	.38	3.90	2.90	1.12	1.82	4.76	8.30	3.60	3.61	4.82	4.60	41.64
XV.	"	Morvern (Drimnin)	2.03	.85	4.76	3.51	.78	1.48	4.37	6.02	5.85	5.57	6.91	7.38	49.51
	"	Ballachulish (Ardsheal)	2.53	.95	5.95	4.91	1.89	2.49	5.52	10.57	5.37	5.26	8.34	7.00	60.78
	"	Stronrian (Laudale)	2.04	1.44	5.65	3.53	1.19	1.78	5.38	6.73	5.07	6.67	6.53	7.04	53.05
	"	Kintyre (Devaar)	1.69	.41	5.26	2.56	.36	1.67	4.21	5.29	.74	3.68	4.92	6.10	36.89
	"	Islay (Ardbeg)	2.61	.58	4.97	1.93	.53	1.44	4.55	4.43	1.71	6.10	3.08	6.04	37.97
	"	Jura (Ardfin)	2.88	2.93	5.68	3.25	.95	1.39	5.79	5.34	2.48	6.09	6.38	7.29	50.45
	Clackmannan	Dollar	2.07	1.45	4.57	1.88	.54	2.45	5.59	10.60	2.53	3.03	4.02	5.09	43.82
XVI.	Kinross	Loch Leven Sluice	2.70	1.00	3.60	1.80	.70	1.20	4.50	6.50	1.10	2.30	3.70	4.10	33.20
	Fife	Kilconquhar (Balcarres)	3.38	.17	4.65	1.68	.75	1.44	5.90	4.83	.99	3.05	2.50	3.14	32.48
	"	Stronvar	3.31	.99	5.01	7.20	1.00	2.42	5.58	8.65	2.94	11.68	9.10	60.82	
	"	Coupar Angus	3.02	.72	1.75	1.08	.58	2.77	4.30	6.81	1.07	1.81	3.59	3.70	31.20
	"	Dalnaspial H. R.S.	3.93	1.31	4.87	4.46	1.36	2.57	4.90	7.13	2.57	4.53	9.18	8.11	54.92
	Forfar	Broughty Ferry (Douglas Ho.)	2.95	.75	3.02	1.19	.57	1.95	3.93	4.67	.73	1.43	2.37	2.94	26.50
	"	Kirriemuir (Lintrathen)	3.33	.90	2.32	1.42	.61	2.00	4.02	6.61	1.70	2.27	4.08	4.34	33.60
XVII.	Kincardine	The Burn [Brecklin]	3.60	1.00	3.40	1.20	.50	2.20	4.30	4.50	1.20	2.80	5.20	4.00	34.00
	Aberdeen	Coldstone Manse	4.47	1.99	4.09	.73	.64	3.58	3.26	3.51	1.43	5.19	2.05	3.90	34.84
	"	Haddo House	5.28	5.25	3.86	1.64	.56	2.84	2.98	3.38	1.20	6.73	2.47	6.24	42.43
	"	Old Deer	4.47	2.21	3.31	1.54	.34	2.47	3.04	3.26	1.17	7.85	2.83	5.30	37.79
	"	Grantown	4.84	.78	4.35	1.20	1.74	4.32	2.66	3.92	2.00	5.30	1.32	2.62	35.05
	"	Gordon Castle	4.11	1.10	3.79	1.35	.72	3.36	3.11	2.28	1.96	7.61	.99	4.42	34.80
	"	Nairn (Achareidh)	2.83	.91	2.87	1.56	.56	3.70	2.54	3.22	1.28	4.02	4.02	1.06	2.76

SCOTLAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XVIII.	Ross	Applecross [Beauly]	3.94	3.21	5.81	3.85	1.41	2.60	4.73	5.45	4.30	9.90	6.50	4.65	56.35
"	"	Strathconan [Beauly]	4.58	3.37	4.22	3.01	2.28	5.71	5.50	6.60	3.25	5.15	5.41	7.32	56.40
"	"	Braemore House	2.30	6.85	4.55	3.96	3.15	5.70	5.26	3.40	6.35	6.55	6.95	59.37	
"	"	Ardross Castle	4.79	.58	5.80	1.68	.81	5.09	3.59	2.59	1.61	4.76	3.56	4.46	39.32
"	Inverness	Fort William (Public School)	3.38	.47	6.02	5.29	2.11	3.07	4.64	9.06	5.48	4.81	8.53	8.40	61.26
"	"	N. Uist (Loch Maddy)	2.92	.74	2.38	3.96	1.77	2.56	6.06	5.86	3.66	4.77	4.45	4.41	43.54
"	"	Invergarry	1.75	.45	5.22	3.64	1.03	2.05	4.46	6.22	4.48	4.79	6.93	7.68	48.70
"	"	Aviemore H.R.S.	3.83	.93	3.05	1.69	1.49	2.73	2.85	3.42	2.25	3.80	2.68	3.36	32.08
"	"	Cawdor [Nairn].	2.85	1.17	4.18	1.74	4.34	3.11	3.21	1.76	5.01	1.53	3.22	3.22	33.86
XIX.	Sutherland	Invershin	2.19	.24	2.18	1.68	.56	2.29	4.33	4.94	1.42	3.03	.79	1.88	25.53
"	"	Dunrobin Castle	3.28	1.09	2.92	1.62	1.10	2.75	3.94	3.30	1.38	5.91	2.02	3.01	32.32
"	"	Scourie	2.86	2.63	3.98	2.90	1.24	1.92	3.32	4.68	2.39	10.03	3.02	3.17	42.14
"	"	Wick	3.67	1.98	2.37	2.39	.65	3.05	2.56	3.19	3.81	1.62	5.61	32.98	32.98
"	Caithness	Sumburgh (Dunrossness)	4.92	.90	2.40	2.67	1.25	2.85	2.69	5.19	3.55	5.55	4.41	3.32	39.70

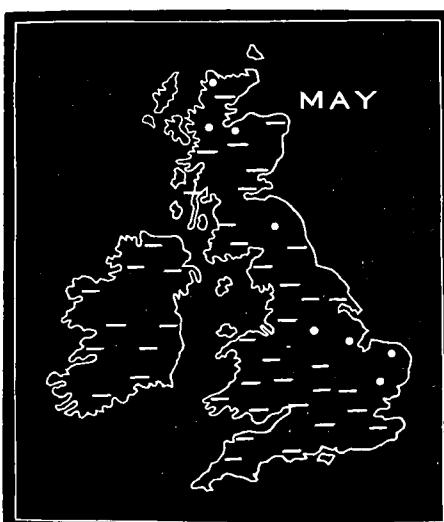
IRELAND.

XX.	Cork	Dunmanway (Cookleure)	5.61	7.48	5.66	1.60	2.75	7.05	7.37	2.25	5.81	10.92	12.85	72.55	
"	"	Cork (Clarence Place)	5.48	1.79	3.29	2.70	.98	2.87	3.75	5.13	1.13	2.28	7.06	10.16	46.62
"	"	Mallow (Old Dromore)	5.38	1.02	3.55	2.89	.86	2.35	3.93	4.01	1.22	2.48	8.32	10.22	46.23
"	"	Darrynane Abbey	5.45	3.88	4.47	2.78	1.93	1.81	5.44	5.63	.99	5.58	6.52	6.05	50.53
"	"	Kerry	6.01	3.79	6.34	5.71	1.54	2.28	5.05	5.09	1.50	4.64	9.68	10.09	61.72
"	"	Kenmare (Derreen)	5.76	1.15	3.33	2.46	.61	3.85	4.06	4.78	2.08	2.41	6.20	6.20	42.89
"	"	Waterford (Brook Lodge)	4.23	.47	3.82	2.03	1.02	2.18	2.98	4.80	1.19	3.13	6.05	5.49	37.39
"	"	Tipperary	2.50	.66	3.32	1.45	1.20	1.67	3.49	4.92	.99	3.53	5.58	4.21	33.52
"	"	Nenagh (Castle Lough)	2.30	.73	2.61	1.75	.99	1.12	3.57	4.38	.54	3.20	4.71	3.65	29.55
"	"	Ballingarry (Hazelfort)	2.49	.50	2.93	1.54	.86	1.25	3.95	3.78	1.33	4.68	4.87	4.62	32.80
"	"	Passlaskerry (Kilcornan)	2.29	.23	2.76	1.41	1.03	1.11	3.35	3.64	1.37	3.07	4.56	4.30	29.12
"	"	Ennis	2.55	1.24	4.16	2.58	1.17	1.59	5.40	5.30	1.07	3.86	5.01	4.51	38.44
"	"	Miltown Malbay	4.88	1.97	3.81	2.33	.45	3.51	4.55	5.51	1.85	2.29	5.52	6.35	43.02
"	"	Ballyhyland	5.04	.26	2.86	2.12	.15	3.35	2.86	4.92	1.48	2.60	5.06	4.84	35.54
"	"	Gorey (Courtown)	5.45	1.28	4.58	3.30	.72	1.58	4.90	8.16	1.53	2.31	7.12	7.00	47.93
"	"	Inistioge (Woodstock)	3.29	.45	3.57	1.39	.52	1.81	3.23	3.80	1.21	2.34	5.34	4.36	31.31
"	"	Kilkenny (Lavistown)	7.30	.65	3.84	2.21	.11	1.89	3.88	3.99	1.13	3.30	5.83	6.10	40.23
"	"	Bray (Fassaroe)	4.34	.52	3.48	1.87	.54	2.85	3.14	4.95	1.47	2.43	4.75	4.75	34.74

IRELAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March.	April.	M.J.Y.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XXI.	Queen's County...	Abbey Leix (Blandsfort)...	3.66	1.09	3.17	2.64	.43	2.30	4.21	4.61	1.19	3.77	5.39	4.99	37.45
"	Kildare	Straffan House.....	2.87	.79	3.37	2.07	.45	1.73	4.18	4.68	.45	3.13	3.76	3.53	31.01
"	Dublin	Glasnevin(BotanicGardens)	5.56	.78	2.88	1.86	.23	2.47	5.40	4.87	.60	3.00	3.07	4.28	35.00
"	Meath	Athboy	2.14	.49	2.72	2.38	.17	1.96	4.41	6.54	.44	3.82	4.59	2.92	32.58
"	"	Moynalty (Westland)	3.31	.44	3.48	2.56	.39	2.26	4.80	5.82	.40	3.15	4.43	4.03	35.07
"	Westmeath	Athlone (Twyford)	1.92	.52	3.55	1.82	.41	.90	4.89	5.88	.55	3.19	4.78	3.76	32.17
"	"	Mullingar (Belvedere)	1.87	.92	3.41	1.45	.15	2.34	5.77	6.32	.20	3.14	4.25	4.60	34.42
"	Louth	Ardee (Lissrenny)	3.20	.37	2.76	1.98	.32	1.83	4.80	6.66	.43	2.53	4.39	3.63	32.90
"	"	Greencore	2.36	.15	2.42	1.98	.28	1.70	3.27	5.80	.30	2.66	3.10	3.39	27.41
"	Longford	Edgeworthstown	2.07	.36	3.67	1.69	.51	1.18	4.40	6.48	.38	2.86	3.95	4.11	31.66
XXII.	Galway	Ballinasloe	2.38	.87	3.27	1.19	1.30	.97	4.36	4.47	.57	3.24	4.83	3.81	31.26
"	"	Kylemore House	6.23	1.51	9.65	6.53	.83	2.23	8.97	8.44	2.31	6.88	7.58	9.75	70.91
"	"	Tuam (Gardenfield)	3.29	.35	5.24	1.14	.91	1.50	5.05	5.20	.97	3.88	5.56	4.84	37.93
"	Roscommon	Rooskey	1.94	.50	3.51	1.59	.24	1.01	4.03	3.27	.43	2.95	3.44	3.60	26.51
"	Mayo	Ballinrobe (Cranmore)	3.90	.47	5.30	2.11	.93	1.02	5.31	7.67	1.91	4.50	6.10	5.96	45.18
"	"	Crossmolina (Enniscoe)	3.87	.63	5.04	2.09	2.17	1.39	6.00	6.23	1.88	6.79	5.96	6.13	48.18
"	Sligo	Ballymote (New Park)	3.85	.40	3.40	1.65	1.60	2.25	4.85	5.60	.85	7.10	4.10	5.15	40.80
"	"	Sligo (Mount Shannon)	3.23	.29	3.92	1.56	1.17	2.63	5.82	6.50	1.12	6.23	4.32	5.06	41.85
"	Leitrim	Ballinamore (Lawderdale)	2.77	.44	4.11	1.50	.90	1.32	4.38	5.46	.94	3.56	4.91	4.71	35.00
"	Cavan	Lough Sheelin (Arley)	2.29	.35	3.36	1.71	.41	1.69	4.76	5.95	.37	2.56	3.90	3.98	31.33
"	Fermanagh	Brookboro (Colebrooke Pk)	3.83	.76	3.76	2.16	.90	1.30	4.22	6.61	.83	3.60	4.86	5.02	37.85
"	Armagh	Edward St. [Newry]	2.80	.45	4.10	3.25	.15	2.14	4.35	6.50	.45	2.63	5.20	4.50	36.52
"	"	Armagh	2.18	.34	3.39	1.26	.26	1.91	5.45	4.96	.73	3.65	3.00	3.41	30.54
"	Down	Newcastle (Fairleigh)	3.50	.99	4.03	3.58	.14	1.29	4.72	5.79	.60	3.58	5.98	4.60	38.50
"	"	Donaghadee	2.50	2.52	3.45	1.97	.26	2.63	5.34	3.1	3.60	3.83	3.32	3.33	31.43
"	Antrim	Belfast (Springfield)	3.10	1.40	4.24	2.18	.31	2.81	5.84	5.95	.60	4.94	3.25	4.99	39.61
"	"	Ballymena	4.10	1.45	3.75	1.65	.59	3.21	4.40	4.45	.60	5.67	3.73	4.63	38.23
"	"	Bushmills (Dundarave)	2.68	1.37	3.59	1.28	.93	2.29	3.09	3.91	.88	6.90	2.61	5.13	34.66
"	Londonderry	Newtown Limavady	3.25	.55	2.51	1.27	.58	2.20	2.91	4.12	.61	7.77	2.50	3.49	31.76
"	Tyrone	Stewartstown (The Square)	3.27	.43	3.49	1.64	.69	2.33	3.79	4.79	.55	3.78	3.46	4.38	32.60
"	"	Omagh (Edenfel)	2.86	.51	3.50	2.04	.74	1.21	4.43	6.65	.76	4.54	4.56	5.16	36.96
"	Donegal	Killybegs	5.54	.79	6.00	2.02	1.69	2.07	5.46	6.07	1.52	9.79	5.88	7.11	53.94
"	"	Horn Head	2.86	.67	4.12	1.71	1.05	1.77	4.12	5.04	1.53	7.97	7.97	5.61	42.36

MAPS OF MONTHLY RAINFALL IN 1895.

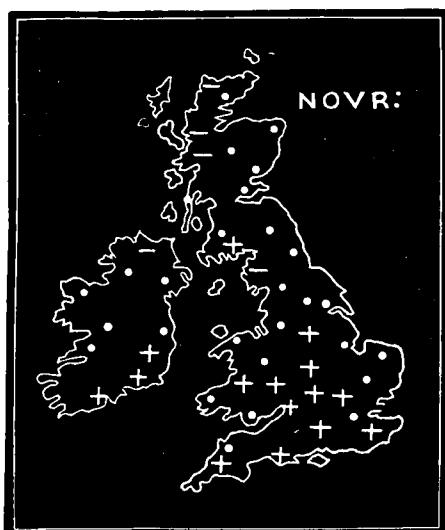
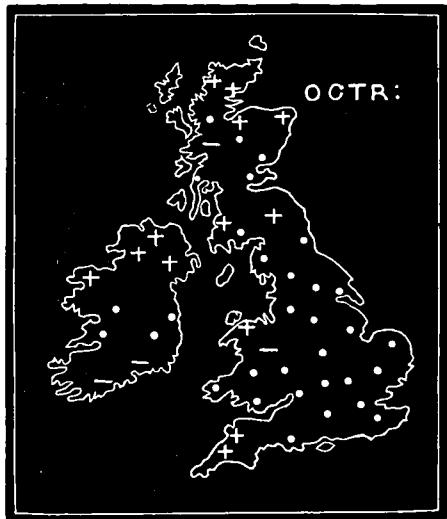
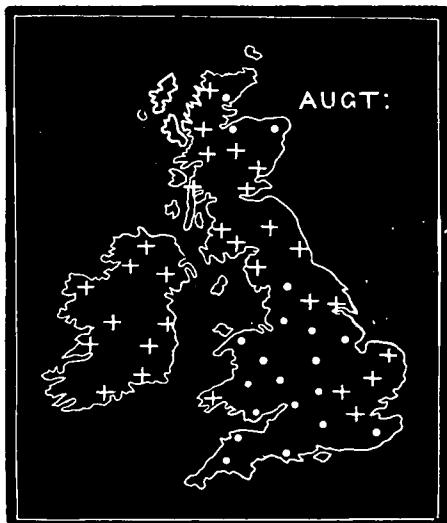


• Within an inch of average.

+ More than 1 in. above average.

- „ „ „ below „

MAPS OF MONTHLY RAINFALL IN 1895.



• Within an inch of average.

+ More than 1 in. above average.

- „ „ „ „ below „

NOTES ON THE MONTHS.

JANUARY.

On the whole, the rainfall of this month was about the average. There was a slight deficiency along the West Coast, say from Mid-Wales to Oban, and there was an excess, making January the wettest month of the year, at a few stations in Central and N. Eastern England and in the E. and S.E. of Ireland.

FEBRUARY.

The month of the severe frost, some stations report '00 in.—possibly the observers neglected the measurement of snow—but everywhere the fall was small, and generally less than an inch, except in N. Yorks, Div. X., the Isle of Man, and at some stations in the N.E. of Scotland and Ireland. In Aberdeenshire there were heavy local falls.

MARCH.

Generally the fall was near the average, but was above it in Wales and in the N.E. of Scotland.

APRIL.

The fall this month ranged generally between one and six inches, according to the average wetness of the locality. At a few places, *e.g.*.. Royston, Chelmsford, Beccles and Patrington, the fall was less than an inch ; and, on the other hand, the fall was above the average in Perthshire, and amounted to 7·20 in. at Stronvar. On the whole, the month may be said to have been an average one.

MAY.

A dry month, very few places at which an inch of rain fell (even Seathwaite had only 0·58 in.), except in the N. of Scotland and the S. and N.W. of Ireland. Below the average at almost every station, but slightly above it at Boston.

JUNE.

The fall this month was irregular. Over the greater part of England the fall was less than an inch, and much below the average. In the N. of England, in Scotland, and in the S.E. of Ireland there were slight excesses, also in a few isolated districts in England and Wales local excesses were produced by TSS.

THE SIX MONTHS, JANUARY TO JUNE, INCLUSIVE.

It will have been noticed that February was remarkably dry, also May and June ; this (the other three months being near the average) made the first six months very dry, consequently the following article was prepared for the *Meteorological Magazine*. It is so essentially a piece of rainfall work, and of such interest as laying down for the first time the probable maximum intensity of drought for the first six months of the year, that we have reprinted it, and at the end added some further details obtained from returns subsequently received.

THE DRYNESS OF THE FIRST HALF OF 1895.

SEVERAL correspondents have sent notes calling attention to the fact that the first six months of this year have given a total rainfall smaller than even that of 1893.

Before writing anything upon the subject, we have tried to ascertain what departure from the average might be expected during the six months.

We have already shown that three consecutive dry years may have slightly less than four-fifths of the average ; that two consecutive dry years may have only three-quarters of the average, and that one driest year may have rather less than two-thirds of the average ; or, writing them as percentages—

<u>Three consecutive years.</u>	<u>Two consecutive years.</u>	<u>One driest year.</u>
78	74	66

We know also that a month may have no rain, when, of course, the percentage is 0. Plotting these values as a curve, it seems as if for six months the least total might be expected to be about half the average, or 50 per cent.

We have tested this by the Camden Square record, which now covers 37 consecutive years.

We may premise that on the mean of 37 years the fall for the first six months averages 11·40 inches, and for the second six months 14·48 inches, or 44 and 56 per cent. respectively of the *yearly* total.

The following are the six driest first six and driest last six months, and their percentages of the mean fall for the respective six months during the whole 37 years :—

Dry Six Months.

	Year.	Total Depth.	Per cent of Mean.		Year.	Total Depth.	Per cent. of Mean.
JAN. to JUNE	1870	6.90	60	JULY to DEC.	1863	10.62	73
	1874	6.93	61		1864	8.48	59
	1887	7.16	63		1874	11.89	82
	1892	8.12	71		1884	10.60	73
	1893	6.39	56		1887	12.05	83
	1895	5.48	48		1890	9.88	68

This seems to show not merely that on the average the first six months are drier than the second (as everyone knew before), but also that they are liable to greater deficiencies than the second six months. The average percentage for the six most remarkable dry periods of January to June is 60, but for the corresponding group for July to December it is 73.

Lastly—and this is the point which has led to the enquiry—January to June of 1895 comes out with a little less than half the average, and as absolutely the driest corresponding period for 37 years.

We will now give some data worked upon a shorter basis, so as to include a representative number of stations, and thus to ascertain the area over which the drought has been exceptional. We have taken stations of which we have the values for 1895 and for 1893, and the average for 1880-89; and finally, to keep the table within a reasonable size, we print only those values which show that the fall has in 1895 been less than 70 per cent. of the 1880-89 mean :—

Relation of the total rainfall in the first six months of 1893 and 1895 to the average for the same period during 1880-1889.

STATION.	COUNTY.	Mean 1880-9.	1893.		1895.	
			Amount.	Per cent	Amount.	Per cent
Camden Square	Middlesex...	in.	in.		in.	
Abinger Hall.....	Surrey	10.76	6.40	60	5.48*	51
Chislehurst	Kent	12.73	8.66	68	8.16	64
Tenterden	"	9.25	6.39	69	4.98	54
Crowborough.....	Sussex	10.95	9.69	89	6.83†	62
Strathfield Turgiss ..	Hants	13.82	9.43	68	7.99	58
Fielde's Weir	Herts	10.64	8.11	76	7.14	67
Addington	Bucks	10.79	5.74	53	5.01	47
Magdalen College.....	Oxford	11.57	8.21	71	6.50	56
Sheering	Essex	11.50	5.92	51	6.43	56
Barkby	Leicester ...	9.88	6.37	64	5.54	56
		11.70	7.05	60	7.96	68

* Driest in 37 years.

† Driest in 32 years.

From this table it appears—

- (1.) That our estimate that the fall of rain for a period of six months may fall to half the average is very near the truth.
- (2.) That the district in which the deficiency in 1895 has been greatest is slightly to the N.E. of London.

Now, we have, of course, information from many more stations than when the above was written, and we have computed the percentages, as given in the last column, for a large number of stations. The results are given in the following list :—

<i>Middlesex</i> —		<i>Herts (con.)</i> —	
Teddington	53	Kensworth.....	69
Camden Square	51	<i>Bucks</i> —	
Muswell Hill.....	51	Addington	56
Pinner Hill	63	<i>Oxford</i> —	
<i>Surrey</i> —		Magdalen College	56
Abinger Hall.....	64	<i>Bedford</i> —	
<i>Kent</i> —		Sandy	66
Tenterden	62	<i>Cambridge</i> —	
Sevenoaks, Riverhead	51	Ely, Stretham	65
Ospringe, Lorenden	48	<i>Essex</i> —	
Rochester, Knight's Place	60	Romford, N. Ockendon	55
Chislehurst	54	Brentwood, Sawyer's Hall	46
<i>Sussex</i> —		Waltham Abbey	54
Arundel, Patching	67	Epping, The Hemnalls	48
Maresfield, Forest Lodge	60	Chelmsford	48
Crowborough	58	Harlow, Sheering	56
<i>Hants</i> —		<i>Suffolk</i> —	
Basingstoke, Sherborne St. J....	51	Ipswich, Bishop's Hill	65
Strathfield Turgiss	67	<i>Glo'ster</i> —	
<i>Berks</i> —		Hatherop Rectory	63
Newbury, Welford Park.....	66	<i>Leicester</i> —	
<i>Herts</i> —		Barkby	68
Southgate	55	<i>Kirkcudbright</i> —	
Hemelhempstead, Nash Mills..	52	Colvend Manse	63
Great Gaddesden	65	<i>Westmeath</i> —	
Fieldes Weir	47	Athlone, Twyford	52
Bayfordbury	54	<i>Galway</i> —	
Datchworth	60	Ballinasloe	63

It will be seen that the area of greatest intensity is precisely that which we originally stated, namely, "slightly to the N.E. of London." In fact, the area may be very well defined as the eastern portion of the watershed of the Thames, with a maximum intensity in the neighbourhood of Epping.

JULY.

A wet month almost everywhere, except along a belt about 100 miles wide and running from S. Wales to Lincoln. The wettest month of the year in Divisions I., IV., and VII. to X.

AUGUST.

Slightly below the average at a few stations in Central England, but taking the country generally, a wet month, though not so wet as July, but in Scotland and Ireland wetter, being at many stations in those countries the wettest month of the year. The following are totals exceeding ten inches :—

X.	Seathwaite	15·21 in.
XI.	Oakley Quarries..	11·71 „
XV.	Ballachulish	10·57 „
XVI.	Dollar	10·60 „

SEPTEMBER.

A dry month, the total rain generally less than an inch, except in the W. and N. of Scotland and Ireland.

OCTOBER.

About an average month, with a little excess in Cornwall, Wales, the S.E. and N. of Scotland, and the N. of Ireland.

NOVEMBER.

The distribution of rain this month was irregular. It was generally above the average in the S. of England and of Ireland, and in Wales, being at most stations the wettest month of the year. On the other hand, the fall was below the average in the N. of Scotland.

DECEMBER.

Generally near the average, below it in S. Wales, but above it in the W. of Scotland and the extreme S. of Ireland.

ON THE RELATION OF THE TOTAL FALL OF RAIN IN
1895 TO THE AVERAGE.

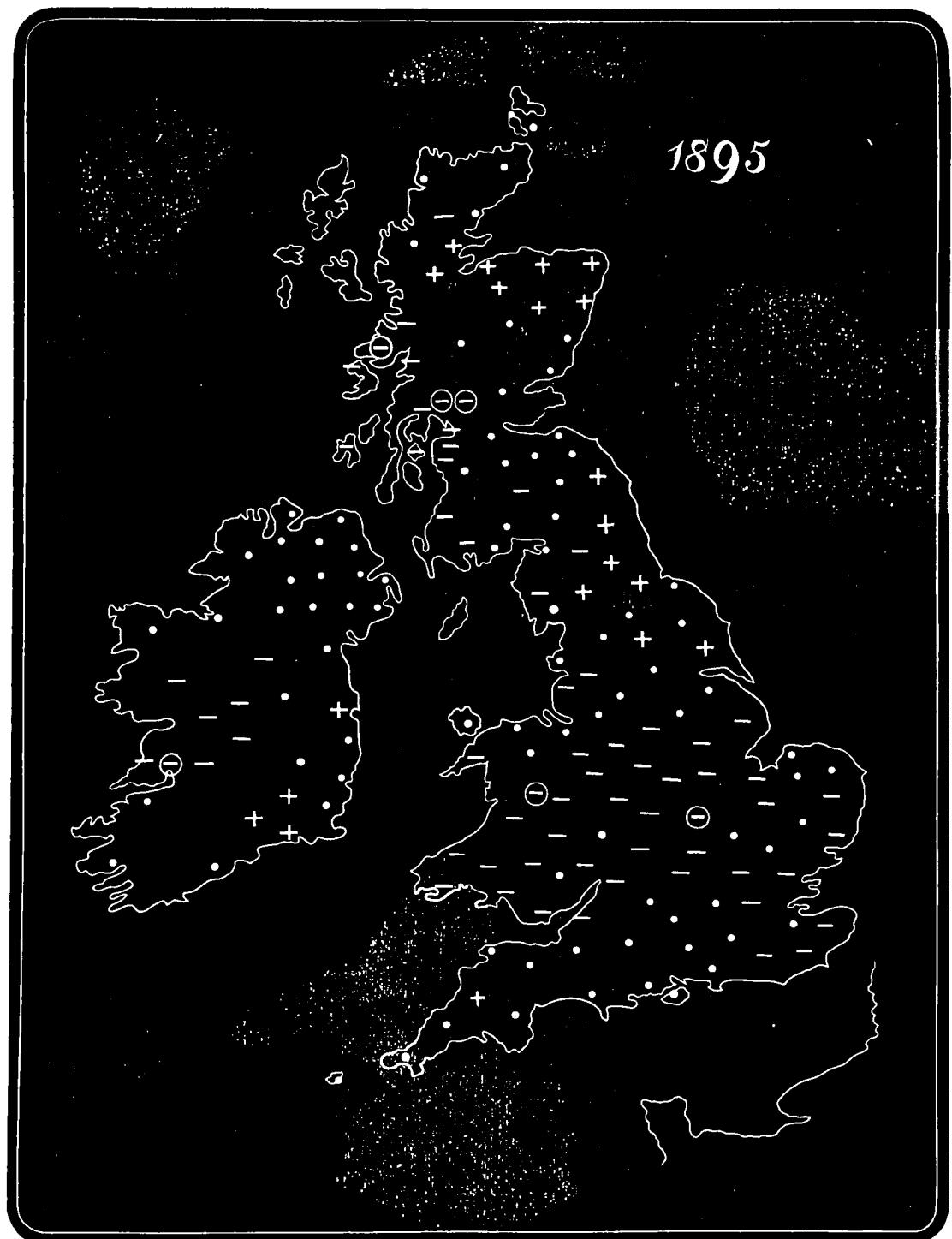
THERE are many ways of treating this subject. In the first place, it may be asked, "What is the average?" It is the last completed decade, viz., that for 1880-89, the last being always chosen because there are always many more stations of which the records extend through the last decade than through any previous one, and as regards 1880-89, it is particularly good, because we have already shown (*British Rainfall*, 1890, p. 34) that it is either identical with, or only 1 per cent. below, the mean of a long series of years. Then we may examine the excesses and defects singly or in groups, according to the following tables, or according to the diagram. We give the collective result of all, because the more numerous the directions from which a question is examined, the more likely is truth to be ascertained.

It will be remembered that on the map, stations at which the fall is within 10 per cent. of the average, whether above or below it, are indicated by a round dot. It is evident that that was generally the case, for there are almost as many dots as there are of all the other symbols collectively. The — and + denote respectively a fall below or above the average by more than 10 and less than 25 per cent., and it will be found that there are more than three times as many — as there are +. This begins to show that the year was dry rather than the reverse.

The — and +, when enclosed by a ring, indicate a deficiency or excess of more than 25 per cent. There is not one case of an excess of 25 per cent., but there are six of deficiency, which will be subsequently dealt with.

The first glance down pages [150] to [153] shows, by the prevalence of — signs, that 1895 was dry in England except in the S.W. and N., that at nearly every Welsh station it was dry, and that in Scotland and Ireland the distribution was less regular. As regards the English returns, the first startling figure is the deficiency of

DIFFERENCE OF TOTAL RAINFALL IN 1895 FROM THE AVERAGE OF 1880-89.



The round dot indicates a rainfall within 10 per cent. of the average.

The + and — respectively show excess or defect of between 10 and 25 per cent.

The same signs enclosed by a ring indicate a departure from the average of more than 25 per cent.

31 per cent. at Croyland Abbey, Wellingborough, Northampton. There is no apparent reason for doubting the record, but on turning back to the corresponding table for 1894, we find that it was somewhat similarly exceptional. The average for 1880-89 seems high—perhaps $1\frac{1}{2}$ in. more than is indicated by surrounding stations ; if so, the true average would be $(28.67 - 1.50 =) 27.17$, and the deficiency in 1895 would be reduced from 31 to 27 per cent., which would agree better with surrounding stations, though still be drier than any other in the district.

The other notable deficiency is at Dolfor, Newtown, Montgomeryshire, —29 per cent., but this is backed by nearly every station in the county, even by Mellington Hall, although it had the fall of 4.80 in. in two hours, which has already been mentioned.

In Scotland the areas of excess and of defect are clearly marked ; the deficiency was greatest (one-third) in Argyllshire, four stations having deficiencies of 25 per cent. or more, and on the contrary, there was an excess amounting to nearly a quarter in Aberdeenshire and in the N.-Eastern counties.

In Ireland the departures from the average were not so great, but the tendency was for an excess in the S.E., and for a deficiency in the W. and centre.

We may now turn to the summary for the year :—

ABSTRACT.

COUNTRIES.	No. of Records.	Average 1880-89.	1895.	Diff. from Average. 1880-89.	
				Amount.	Per cent.
England and Wales ...	95	34.07	31.32	2.75	8
Scotland	44	42.53	39.32	3.21	7
Ireland	38	39.20	37.63	1.57	4
Mean of all Stations ...	177	37.27	34.66	2.61	7

This shows that the total for the year was a very ordinary one, confirming what we said above as to the excess of dots on the map, but showing a general deficiency of about 7 per cent.

COMPARISON OF THE RAINFALL OF THE YEAR 1895,
WITH THE AVERAGE OF THE YEARS 1880-89.

ENGLAND & WALES.

DIV.	COUNTY.	STATION.	Average, 1880-9.	Depth in 1895.	Difference from average, 1880-9.		
					in.	in.	
I.	Middlesex	London (Camden Square)	25·45	21·47	3·98	- 16	
II.	Surrey	Dorking (Abinger Hall)	30·60	30·44	.16	- 1	
"	Kent	Tenterden	(Snowdon)	28·11	23·08	5·03	- 18
"	"	Maidstone (Hunton Court)	24·59	22·26	2·33	- 9	
"	"	Sheldwich	28·70	22·64	6·06	- 21	
"	Sussex, West...	Chichester (Chilgrove)	32·83	35·19	2·36	+ 7	
"	" East ...	Maresfield (Forest Lodge)	31·41	27·50	3·91	- 12	
"	Hampshire.....	Isle of Wight (Osborne)	27·29	27·72	.43	+ 2	
"	"	Christchurch (Mudford)	27·01	26·15	.86	- 3	
"	"	Alresford (Ovington)	31·02	28·34	2·68	- 9	
"	Berkshire	Newbury (Welford Park) n.g.	30·27	29·55	.72	- 2	
III.	Hertfordshire ..	Hertford (Bayfordbury)	25·04	21·80	3·24	- 13	
"	Buckingham ...	Slough (Langley)	24·37	23·45	.92	- 1	
"	"	Winslow (Addington Manor) ..	27·97	22·39	5·58	- 20	
"	Oxfordshire ...	Oxford (Magdalen Coll.)	26·19	21·88	4·31	- 16	
"	Northampton ...	Wellingboro' (Croyland Abbey)	28·67	19·76	8·91	- 31	
"	Bedfordshire ...	Bedford (Milton Ernest)	23·87	23·47	.40	- 2	
"	Cambridgeshire	Ely (Stretham)	22·39	18·04	4·35	- 19	
"	"	Wisbech (Bank House)	25·27	20·94	4·33	- 17	
IV.	Essex	Chelmsford (High Street)	23·01	17·45	5·56	- 21	
"	"	Saffron Walden (Newport) ..	24·82	22·60	2·22	- 9	
"	Suffolk	Rendlesham Hall	24·83	20·45	4·38	- 18	
"	"	Ixworth (Walsham-le-Willows)	26·13	23·73	2·40	- 9	
"	Norfolk	Diss	25·81	23·24	2·57	- 10	
"	"	Swaffham (Pickenham Hall) ..	27·33	28·10	.77	+ 3	
"	"	Sprowston (Oak Lodge)	26·11	26·67	.56	+ 2	
"	"	Hillington School	28·10	26·87	1·23	- 4	
V.	Wilts	Salisbury Plain (Chitterne Ho.)	28·26	27·09	1·17	- 4	
"	"	New Swindon	28·38	27·01	1·37	- 5	
"	Dorset	Weymouth (Langton Herring) ..	29·36	30·45	1·09	+ 4	
"	Devon	Ashburton (Druid House)	51·28	53·37	2·09	+ 4	
"	"	Coryton (Lew Down)	46·29	52·83	6·54	+ 14	
"	"	Bampton (Huntsham)	44·52	42·60	1·92	- 4	
"	"	Barnstaple (Arlington Court) ..	52·85	51·47	1·38	- 3	
"	Cornwall	Marazion	38·68	37·61	1·07	- 3	
"	"	St. Austell (Trevarna)	47·10	44·95	2·15	- 5	
"	Somerset	Glastonbury (Street)	31·16	30·00	1·16	- 4	
VI.	Gloucestershire	Clifton (Pembroke Road)	36·08	31·64	4·44	- 12	
"	"	Stroud (Upfield)	30·91	27·04	3·87	- 13	
"	Hereford	Ross (The Graig)	31·18	25·96	5·22	- 17	
"	"	Kington (Lynhales)	35·32	28·05	7·27	- 21	
"	Shropshire	Bishop's Castle (Castle Street)	34·08	27·55	6·53	- 19	

ENGLAND & WALES.—*Continued.*

DIV.	COUNTY.	STATION.	Average, 1880-9.	Depth in 1895.	Difference from average, 1880-9.		
					in. Per Amount. cent.		
VI.	Shropshire	Shifnal (Haughton Hall)	28·54	23·28	5·26 — 18		
		Adderley Rectory	28·80	25·00	3·80 — 13		
		Dennis [Stourbridge]	28·07	23·66	4·41 — 16		
		Burton (Shobnall)	25·86	22·50	3·36 — 13		
		Cheadle (The Heath House) ...	32·71	29·53	3·18 — 10		
		Worcester	Northwick Park	30·09	24·55	5·54 — 18	
		"	Grt. Malvern (Church Street)	29·49	27·35	2·14 — 7	
		Warwick	Shipston (Compton Wynyates)	28·67	23·99	4·68 — 16	
VII.	Leicester	Coventry (Priory Row)	28·94	24·47	4·47 — 15		
		Rutland	Thornton Reservoir	27·69	24·86	2·83 — 10	
		Lincoln	Market Overton	28·54	25·59	2·95 — 10	
		"	Stubton [Newark]	27·44	20·88	6·56 — 24	
		"	Horncastle (Bucknall)	25·96	22·39	3·57 — 14	
		"	Brigg	27·22	27·86	.64 + 2	
		Nottingham	Worksop (Hodsock Priory) ...	25·84	25·11	.73 — 3	
		Derby	Matlock Bath	36·62	29·33	7·29 — 20	
VIII.	Cheshire	Cheshire	Chester Nurseries	29·08	28·90	.18 — 1	
		"	Chelford (Astle Hall)	30·73	28·46	2·27 — 7	
		"	Torrside Reservoir	44·65	42·73	1·92 — 4	
		Lancashire	Ormskirk (Rufford)	31·86	28·75	3·11 — 10	
		"	Over Darwen (St. James's Vic.)	46·56	41·96	4·60 — 10	
		"	Kirkham (Weeton)	37·04	34·84	2·20 — 6	
		"	Cartmel (Holker)	42·25	40·76	1·49 — 4	
		York	Wakefield Prison	28·02	27·78	.24 — 1	
IX.	W.Ridng.	"	Otterburn-in-Craven	41·19	41·07	.12 — 0	
		"	Knaresborough (Farnham) ...	27·37	30·55	3·18 + 12	
		"	E. Riding	Pocklington (Warter)	30·46	34·95	4·49 + 15
		"	N. Riding	Old Malton	26·90	27·23	.33 + 1
		"	"	Bedale (Thorpe Perrow)	27·75	29·05	1·30 + 5
		"	"	Guisborough (Hutton Hall) ...	33·97	33·29	.68 — 2
		Durham	Darlington (South End)	26·45	28·98	2·53 + 10	
		"	"	Wolsingham	35·27	38·78	3·51 + 10
X.	Northumberlnd	"	"	Haltwhistle (Unthank Hall) ...	35·97	31·33	4·64 — 13
		"	"	Rothbury (Cragside)	34·03	38·66	4·63 + 14
		"	"	Pawston [Coldstream]	30·00	33·71	3·71 + 12
		Cumberland	Borrodale (Seathwaite)	129·00	101·70	27·30 — 21	
		"	"	Carlisle Cemetery	30·34	32·34	2·00 + 7
		Westmoreland	Kirkby Stephen	39·62	45·29	5·67 + 14	
		Monmouth	Abergavenny (Larchfield) ...	38·65	35·15	3·50 — 9	
		Glamorgan	Cardiff Castle	39·55	35·04	4·51 — 11	
XI.	Carmarthen	"	"	Neath	50·13	40·90	9·23 — 18
		"	"	Llandilo (Dynevor Castle) ...	51·17	44·83	6·34 — 12
		"	"	Pembroke (Stackpole Court) ...	41·59	34·17	7·42 — 18
		"	"	Castle Malgwyn [Llechryd] ...	45·29	37·02	8·27 — 18
		Brecknock	Brecknock (Cantref)	51·27	44·38	6·89 — 13	
		Radnor	Rhayader (Nantgwillt) ... o.g.	62·80	50·41	12·39 — 20	
		Montgomery	Newtown (Dolfor)	39·77	28·08	11·69 — 29	

ENGLAND & WALES.—Continued.

DIV.	COUNTY.	STATION.	Average,	Depth	Difference
			1880-9.	in. 1895.	from average, 1880-9. Per Amount. cent.
XI.	Denbigh.....	Colwyn (Nant-y-Glyn)	31·55	32·80	1·25 + 4
	Merioneth	Llanderfell (Palé)	47·47	45·94	1·53 - 3
	Carnarvon	Llanystumdwy (Talarvor) ..	36·53	31·13	5·40 - 15
	Anglesea	LlanerchymeddLwdiarth Esgob	36·63	35·49	1·14 - 3
	Isle of Man	Douglas (Victoria Road)	40·60	35·58	5·02 - 12
	Scilly	St. Mary's	32·42	29·86	2·56 - 8

SCOTLAND.

XII.	Kirkcudbright.	Dalbeattie (Colvend Manse) ...	36·08	34·76	1·32 - 1
"	"	Gatehouse (Cally)	49·15	40·35	8·80 - 18
"	"	Cargen [Dumfries]	39·74	38·70	1·04 - 3
"	Dumfries	Moffat (Ericstane)	52·63	46·05	6·58 - 13
"	Roxburgh	New Castleton (The Flatt) ..	43·90	45·30	1·40 + 3
"	"	St. Boswells (Elliston)	28·73	31·02	2·29 + 8
XIII.	Berwick	Marchmont House	34·01	34·73	.72 + 2
"	Haddington	Haddington Asylum	26·24	26·71	.47 + 2
"	Edinburgh	Pentland Hills (Glencorse) ...	39·21	40·30	1·09 + 3
XIV.	Lanark	Biggar (Cambus Wallace)....	29·98	29·05	.93 - 3
"	" Ayr	Airdrie (Hillend Res.)	35·80	35·52	.28 - 1
"	"	Girvan (Pinmore)	48·25	39·42	8·83 - 18
"	"	Kilmarnock (North Craig) ..	35·77	35·80	.03 + 0
"	"	Ardrossan (Kirkhall)	34·92	31·17	3·75 - 11
"	Renfrew	Gorbals W.W. (Waulk Glen)..	43·32	38·30	5·02 - 12
XV.	Dumbarton	Helensburgh (Lyleston)	45·14	39·10	6·04 - 13
"	"	Arrochar	74·10	49·14	24·96 - 34
"	Bute	Rothesay (Barone Cottage) ...	46·04	39·78	6·26 - 14
"	Argyll	Lochgilphead (Kilmory)	58·49	45·98	12·51 - 21
"	"	Appin (Airds)	53·62	41·64	11·98 - 22
"	"	Strontian (Laudale)	78·71	53·05	25·66 - 33
"	"	Islay (Ardbeg)	45·25	37·97	7·28 - 16
"	"	Mull (Quinish)	57·28	44·04	13·24 - 23
XVI.	Perth	Bridge of Turk	66·09	49·60	16·49 - 25
"	"	Crieff (Ochtertyre)	40·30	36·95	3·35 - 8
"	"	Dalnaspidal	57·61	54·92	2·69 - 5
"	Forfar	Broughty Ferry (Douglas Ho.)	27·27	26·50	.77 - 3
XVII.	Kincardine	Fettercairn (The Burn)	33·07	34·00	.93 + 3
"	Aberdeen	Braemar	35·57	32·72	2·85 - 8
"	"	Cromar (Logie Coldstn. Manse)	28·62	34·84	6·22 + 22
"	"	Aberdeen (Rose Street)	27·76	32·29	4·53 + 16
"	"	Old Deer	30·57	37·79	7·22 + 24
"	Banff	Keith	29·98	36·64	6·66 + 22
"	Elgin	Grantown	28·65	35·05	6·40 + 22
"	Nairn	Nairn (School House)	22·61	27·64	5·03 + 22
XVIII.	Ross, West	Strathconan [Beauly]	49·76	56·40	6·64 + 13
"	" Ross, East	Braemore House	57·94	59·37	1·43 + 2
"	"	Alness (Ardross Castle)	35·31	39·32	4·01 + 11

SCOTLAND—Continued.

DIV.	COUNTY.	STATION.	Average	Depth in 1895.	Difference
			1880-9.		Per Amount. cent.
XVIII.	Inverness, West	Glenquoich	102·64	86·13	16·51 — 16
XIX.	Sutherland	Invershin	31·50	25·53	5·97 — 19
"	"	Golspie	30·47	28·08	2·39 — 8
"	"	Scourie	40·58	42·14	1·56 + 4
"	Caithness	Watten	27·01	26·11	·90 — 3
"	Orkney	S. Ronaldshay (Roeberry)	31·61	30·15	1·46 — 5

IRELAND.

XX.	Cork	Cork (Roche's Point)	46·46	44·17	2·29 — 5
"	Kerry	Kenmare (Derreen)	67·99	61·72	6·27 — 9
"	Waterford	Waterford (Brook Lodge)	38·31	42·89	4·58 + 12
"	"	Glenam [Clonmel]	42·15	47·94	5·79 + 14
"	Tipperary	Derry Castle [Killaloe]	46·33	39·05	7·28 — 16
"	Limerick	Pallaskenry (Kilcornan)	30·76	32·80	2·04 + 7
"	Clare	Ennis	39·20	29·12	10·08 — 26
"	"	Miltown Malbay	44·12	38·44	5·68 — 13
XXI.	Wexford	Enniscorthy (Ballyhyland)	42·80	43·02	·22 + 1
"	"	Gorey (Courtown House)	35·39	35·54	·15 + 0
"	Kilkenny	Inistiogue (Woodstock)	41·67	47·93	6·26 + 15
"	Wicklow	Bray (Fassaroe)	43·28	40·23	3·05 — 7
"	Carlow	Carlow (Browne's Hill)	33·59	34·74	1·15 + 3
"	King's Co.	Parsonstown (Birr Castle)	32·22	29·03	3·19 — 10
"	Dublin	Dublin (Fitz William Square)	27·47	31·24	3·77 + 14
"	West Meath	Athlone (Twyford)	38·97	32·17	6·80 — 17
"	"	Mullingar (Belvedere)	34·69	34·42	·27 — 1
"	Louth	Dundalk (Farndreg)	29·30	31·83	2·53 + 9
"	Longford	Edgeworthstown (Currygrane)	35·43	31·66	3·77 — 11
XXII.	Galway	Ahascragh (Clonbrock)	39·91	34·35	5·56 — 14
"	"	Tuam (Gardenfield)	44·28	37·93	6·35 — 14
"	Mayo	Crossmolina (Enniscoe)	51·41	48·18	3·23 — 6
"	Sligo	Sligo (Mount Shannon)	40·52	41·85	1·33 + 3
XXIII.	Fermanagh	Brookboro' (Colebrook Park)	41·02	37·85	3·17 — 8
"	Armagh	Armagh Observatory	32·16	30·54	1·62 — 5
"	Down	Warrenpoint (Summer Hill)	37·88	35·79	2·09 — 6
"	"	Seaforde	37·89	34·81	3·08 — 8
"	"	Banbridge (Milltown)	31·44	30·25	1·19 — 4
"	"	Donaghadee	31·58	31·43	·15 — 0
"	Antrim	Belfast (Antrim Road)	34·57	31·63	2·94 — 9
"	"	Ballymena (Harryville)	39·41	38·23	1·18 — 3
"	"	Bushmills (Dundarave)	37·87	34·66	3·21 — 8
"	Londonderry	Garvagh (Moneydig)	39·02	36·04	2·98 — 8
"	"	Londonderry (Creggan Res.)	40·78	41·69	·91 + 2
"	Tyrone	Stewartstown (The Square)	34·90	32·60	2·30 — 7
"	"	Omagh (Edenfel)	36·63	36·96	·33 + 1
"	Donegal	Raphoe (Convoy House)	46·94	46·78	·16 — 0
"	"	Moville (Prospect Villa)	41·23	40·50	·73 — 2

EXTREMES OF RAINFALL IN 1895.

Largest Rainfall, at The Styne, Cumberland.....	127·65 in.
Least Rainfall, at Abbots Court, Hoo, Rochester, Kent	14·88 ,

ENGLAND.

GREATEST.		LEAST.	
Div.	in.	Div.	in.
X.	127·65	II.	14·88
„ Sprinkling Tarn	104·30	„ Sheppey (Leysdown)	15·93
„ Mickleden	103·50	IV. Shoeburyness	16·20
„ Seathwaite	101·70	III. Upwell(Marmont Priory Lock)	16·25
„ Scawfel Pike.....	93·75	II. Sheerness (Water Works) ...	16·50
„ Dungeon Ghyll.....	91·41	IV. Writtle (Melbourne)	16·60

MONMOUTH, WALES AND THE ISLANDS.

GREATEST.		LEAST.	
Div.	in.	Div.	in.
XI.	89·85	XI. Holywell (Bagillt)	25·18
„ Taff Fechan(Neuadd Res.) No. 6	83·65	„ Rhayll (Sedgley House)	25·31
„ Rhiwbryfdir=Oakley Quarries	79·89	„ Aberystwith(Castle Grounds)	25·68
„ Taff Fechan(Neuadd Res.) No. 8	79·63	„ Trefnant (Maes Elwy)	26·47
„ Treherbert (Tyn-y-waun)...M	75·54	„ Meifod (Tan-y-fron)	26·82
„ Neath (Glyncorrwg)	75·33	„ St. Asaph (Nantllys)	27·23

SCOTLAND.

GREATEST.		LEAST.	
Div.	in.	Div.	in.
XVIII.	117·93	XIII. Dalkeith	20·65
„ Glenquoich	86·13	XVI. Pittenween (The Priory) ...	21·03
„ Loch Shiel (Glenaladale) ...	83·60	„ Monifieth (Fountain Brae)...	21·62
„ Glencarron Lodge	78·54	XIII. Leith	21·87
XVI. Glen Gyle	74·20	XVI. Kilmany(Mountquhanie Ho.)	22·10
XVIII. Loch Torridon (Bendamph)	72·59	XVIII. Fearn (Lower Pitkerrie) ...	22·18

IRELAND.

GREATEST.		LEAST.	
Div.	in.	Div.	in.
XX.	74·00	XXIII. Banbridge (Katesbridge) ...	23·07
„ Dunmanway (Coolkelure) ..	72·55	XXII. Rooskey	26·51
XXII. Clifden (Kylemore House)...	70·91	XXIII. Banbridge (Corbet Reservoir)	26·70
„ „ („ Castle)...	67·98	XXI. Banagher	26·73
XX. Bantry House	64·72	XXIII. Charlmont Lock [Moy]	26·81
„ Kenmare (Derreen)	61·72	XXII. Athlone.....	27·10

NOTE.

Second gauges, and those at Lighthouses, are excluded from the above, and in selecting the minima, no record is used from any gauge of which the receiving surface is more than 3 ft. above the ground.

**GENERAL TABLES
OF
TOTAL RAINFALL IN 1895,
AT MORE THAN
3000 STATIONS
IN THE
BRITISH ISLES.**

EXPLANATION OF THE ARRANGEMENT OF THE FOLLOWING GENERAL TABLES.

The divisions are the same as those adopted by the Registrars General of England and Scotland, and the counties follow the same order as in the reports of those officers ; but an alphabetical list of the counties is given, whereby the page or pages on which all returns from each county will be found, can be at once ascertained.

The stations in each county are arranged nearly in the order of their latitude from South to North.

To facilitate finding the locality of any gauge, the first name is almost always that of a place given in *Bradshaw*, the *Post Office Guide*, or the *Clergy Directory* ; the second name is generally added to fix accurately the site of Observation ; but, in a very few instances, when in [] instead of (), it is that of the nearest town in an adjoining county ; e.g., "Lowestoft (Somerleyton Rectory)" means Somerleyton Rectory near Lowestoft, both in one county ; but "Geldeston [Beccles]" means Geldeston, Norfolk, near Beccles, in another county—Suffolk.

The contents of the columns are sufficiently explained by the headings, except that in that headed "diameter," figures will be noticed of old-style type ; these figures indicate the length of the sides of rectangular mouthed gauges. These measurements are all in inches.

The letter D denotes that a copy of the daily record has been received, that it is perfect throughout the year, and that the printed amount is the correct total of these daily entries. The letter M indicates that the gauge is read only on the first of each month.

A few entries of total rain will be found in italics—indicating uncertainty either as to possible overflow, or as to the measurement of snow.

An asterisk * denotes that the gauge was tested before erection, and a † that it has been visited and examined since. A note of interrogation (?) implies doubt, not necessarily error. ... indicates the absence of information.

In the column of altitudes several symbols are used, their meaning is as follows :—¶, that a series of levels has been taken from the gauge to an Ordnance bench mark ; †, that the height is estimated or ascertained approximately from the same source ; ¶, that levels have been taken from the gauge to the sea, or to some datum other than Ordnance mean sea level ; B, that the altitude has been taken by the barometer ; and ?, that the height is uncertain.

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ENGLAND AND WALES.

DIVISION I.—MIDDLESEX.

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. inches.	Days on which 1 or more fell.
		Diameter	Height Above Ground ft. in.	Height Above SeaLevel feet.		
MIDDLESEX.						
D Hampton (Southwark W. W.)	J. W. Restler, Esq., C.E.	5	0 10	...	18·96	114
Sunbury (Hanworth Road)	W. B. Bryan, Esq., C.E.	8	1 0	50 $\frac{1}{2}$	23·12	159
Teddington (Gomer House)	R. D. Blackmore, Esq..	5	0 10	26 $\frac{1}{2}$	23·33	138
D Staines (Belle Vue)	J. Gundry, Esq.....	5	1 0	51 $\frac{1}{2}$	24·83	188
, (Knowle Green)	Miss Pellatt	5	5 2	...	23·31	141
, (Cherry Orchard)	J. B. Jordan, Esq.....	5	1 0	50 $\frac{1}{2}$	23·38	161
Twickenham (Strawberry Hill)	T. Gale, Esq.	5	1 3	37 $\frac{1}{2}$	20·63	130
D , (Manor Road) ...	G. B. Laffan, Esq., C.E.	5	1 9	56 $\frac{1}{2}$	21·86	151
D , (Sewage Works)...	, , , , M	5	1 6	36 $\frac{1}{2}$	20·74	133
, , , , M	, , , , M	5	1 6	36 $\frac{1}{2}$	20·47	...
D Chelsea (Pumping Station)	A. R. Binnie, Esq., C.E.	8	1 0	19 $\frac{1}{2}$	21·33	125
D , (St. Luke's Gardens) ...	TWE. Higgens, Esq. CE	5	1 0	25 $\frac{1}{2}$	22·23	140
D Isle of Dogs	A. R. Binnie, Esq., C.E.	8	1 0	15 $\frac{1}{2}$	19·92	140
D Gunnersbury Station	E. Mann, Esq.	5	0 11	35	22·87	129
D Acton (Newburgh Road)	Miss Baker	5	1 0	86 $\frac{1}{2}$	23·20	136
Ealing (Public Buildings).....	C. Jones, Esq., C.E. ...	5	9 0	114	18·69	135
, (Gordon Road)	J. Box, Esq.	5	10 0	85 $\frac{1}{2}$	21·69	124
, (Castle Bar Road).....	T. Simpson, Esq.	5	1 0	152	27·06	121
D Westminster (Spring Gardens)(3)	A. R. Binnie, Esq., C.E.	8	6 0	35 $\frac{1}{2}$	19·95	103
, , , , (1)	, , , , ...	8	66 4	95 $\frac{1}{2}$	19·08	...
, , , , (2)	, , , , ...	12	65 11	95 $\frac{1}{2}$	19·17	...
D Kensington (Edith Road).....	G. von U. Searle, Esq.	5	0 10	16 $\frac{1}{2}$	22·02	151
D , Museum	Genl. Festing, F.R.S..	8	0 8	27 $\frac{1}{2}$	23·55	147
D , (Holland House) ...	Mr. C. Dixon	5	4 6	68 $\frac{1}{2}$	22·30	133
D , (Addison Gardens)...	G. H. M. Whish, Esq..	5	1 1	23 $\frac{1}{2}$	22·36	136
D , (Campden Hill).....	M. W. Hervey, Esq., C.E.	8	4 10	130 $\frac{1}{2}$	23·64	142
D London (Westbourne Grove, W.)	A. P. Baker, Esq.	5	0 9	64 $\frac{1}{2}$	23·40	140
D , (Strand, W.C.)	J. H. Steward, Esq. ...	5	45 0	80	22·95	132
, (Guildhall, E.C.)	D. J. Ross, Esq., C.E..	8	2 6	49 $\frac{1}{2}$	20·97	133

DIVISION I.—MIDDLESEX.—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1895	Days on which .61 or more fell.
		Diameter	Height Above Ground ft. in.	Height Above SeaLevel feet.		
MIDDLESEX—(con.)						
London (Guildhall, E.C.)	D. J. Ross, Esq., C.E..	8	51 0	98 T	20·43	133
D " (Mile End, E.)	J. Metson, Esq.	5	14 0	...	21·13	105
" (Old Street, E.C.)	The Royal Meteor. Soc.	5	1 0	70 T	21·97	149
Perivale (Sewage Farm)	C. Jones, Esq., C.E. ...	5	12 0	56	22·50	134
D London (Gloucester Place W.) ...	W. B. Heberden, Esq..	5	4 0	...	22·71	141
D " (Regent's Pk. R. Bot. Soc.)	J. B. Sowerby, Esq. ...	8	1 0	126 T	22·88	136
D " (Randolph Gardens, W.)	K. J. Marks, Esq.....	5	1 0	97 T	20·28	140
D " (Portsdown Road, W.)	Rev. G. B. R. Bousfield	5	5 0	89	20·87	118
D " (Barrow Hill, N.W.) ...	M. W. Hervey, Esq., C.E.	5	3 4	190 T	20·09	127
D " (Old Ford, E.)	A. R. Binnie, Esq., C.E.	8	1 0	35 T	19·26	124
D " (Canonbury, N.)	J. Spiller, Esq.	5	1 3	117 T	21·47	146
D† " (Camden Square, N.W.)	G. J. Symons, Esq. F.R.S	8	0 8	111 T	21·47	137
+ " (") M	" " "	5	1 0	111 T	21·66	...
D Willesden Green (Strode Road) ..	Miss Lamport	5	1 0	...	24·15	153
D Hampstead (Roslyn House)	C. H. B. Woodd, Esq..	8	1 6	330 T	25·73	104
D " (Kidderpore Reserv.)	M. W. Hervey, Esq., C.E.	8	1 6	323 T	24·58	139
D " (Branch Hill Lodge)	B. Woodd Smith, Esq.	8	0 10	380 T	24·63	129
+ " (Squire's Mount)	Rogers Field, Esq. C.E.	5	1 0	388 T	21·97	133
Lea Bridge	W. B. Bryan, Esq., C.E.	8	1 0	327 T	22·33	144
D Stoke Newington Reservoirs	J. Francis, Esq., C.E... Stamford Hill (Castlewood Hill)	5	1 2	102 T	20·55	136
D Highgate (North Hill)	The Meteor. Council...	5	1 3	75	20·44	155
D† Child's Hill (Helenslea)	E. J. Lovegrove, Esq., CE	5	4 6	302	23·49	132
Harrow	A. J. Woodhouse, Esq.	5	1 6	245 T	23·37	129
Crouch End (Aubrey Road)	T. Charles, Esq.	5	1 0	215	25·21	142
" " (Fairfield Rd.) garden.	W. B. Butler, Esq. ...	5	1 0	...	23·06	150
" " (") tennis ct. M	Mrs. Sowerby Wallis...	5	1 0	200 T	23·14	146
D Hornsey (Tottenham Lane)	E. J. Lovegrove, Esq., CE	8	4 6	200 T	22·56	...
D " (High Street)	" " "	6	3 2	97	22·67	131
D " (Burghley Road)	" " "	5	4 0	74	23·08	130
D Muswell Hill	Miss Abethell	5	0 10	310 T	23·44	140
D " (Irish Corner Sew. Farm)	E. J. Lovegrove, Esq., CE	8	4 8	216 T	23·66	137
D Hendon (Hillwood)	W. H. Kesteven, Esq..	5	1 0	191 T	24·22	153
D† Finchley (Etchingham Park)	J. W. Scott, Esq.	5	1 2	295 T	23·09	143
D† " (")	" " "	8	1 3	295 T	23·15	143
D Pinner Hill	A. Helsham-Jones, Esq.	5	3 6	410 T	24·54	123
D Harrow Weald (Hill House)	A. Crossman, Esq.....	5	0 8	280	25·83	169
Stanmore Observatory	S. T. Klein, Esq.	5	1 0	268	24·64	143
D Friern Barnet (Sewage Works) ..	Baldwin Latham Esq. CE	5	1 0	156 T	20·80	136
D Whetstone	" " "	5	1 0	315 T	23·28	129
D Enfield (Old Park)	A. L. Ford, Esq.	5	1 9	156 T	21·62	126
D " (Southbury Road)	J. Francis, Esq., C.E..	5	0 9	106 T	19·73	138

DIVISION II.—SOUTH EASTERN COUNTIES.

SURREY.

D Haslemere (Lower Street)	J. W. Penfold, Esq. ...	8	4 0	481 T	32·32	162
D " (Hazelhurst)	T. P. Newman, Esq. ...	5	1 0	550 T	34·24	175

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Diameter	Rain Gauge.		Depth of Rain. 1895	Days on which .01 or more fell.
			Height Above Ground ft. in.	Height Above Sea Level feet.		
SURREY—(con.)						
Haslemere (Grayswood Hill) ...	B. E. C. Chambers, Esq.	5	1 0	580 $\frac{1}{2}$	30.38	...
D Chiddingfold M	A. F. Parbury, Esq.	5	1 0	174 T	28.44	152
" Dunsfold Common	Mr. W. Underwood ...	5	0 10	174 T	28.34	...
Haslemere (Weycombe)	G. B. Buckton, Esq. F.R.S.	5	1 0	562 $\frac{1}{2}$	27.59	...
D Hambledon (Matteryes)	J. Borrowman, Esq.	5	5 8	300	27.07	153
D Witley (Fernside)	Mrs. Foster.....	5	1 0	350 T	29.54	152
" (King Edward's School).	Rev. G. M. Mason....	8	1 3	...	29.80	128
Hascombe Rectory.....	Rev. Canon Musgrave..	8	1 0	450 T	25.12	...
(Hall Place).....	E. S. Rowcliffe, Esq.	8	2 6	273 $\frac{1}{2}$	27.03	...
D Cranleigh Common	Admiral Maclear	5	1 0	182 $\frac{1}{2}$	27.23	166
D " (County School)	Mr. "	5	1 0	232 $\frac{1}{2}$	24.99	160
D " (Winterfold)	Mr. R. Turvey	8	3 6	603 T	26.20	136
Ewhurst (Malquoits).....	W. Webb, Esq.	27.95	141
D " (Coneyhurst)	Miss Ewart.....	8	1 6	561 T	28.90	160
D " (Heathside)	J. Sparkes, Esq.	5	1 6	600 $\frac{1}{2}$	28.62	109
D Capel (The Cottage)	J. Lee Jardine, Esq.	5	1 0	270	26.90	148
D Wonersh (Shamley Green)	Mr. A. Nash.....	5	1 0	400	26.84	151
D Godalming (Charterhouse)	O. H. Latter, Esq.	5	1 0	200 T	26.01	149
Bramley (Cloverlea)	<i>Surrey Gazette</i>	28.26	163
Abinger Rectory	Miss Brodie Hall	5	1 0	381	30.75	154
D " Hall	Rt. Hon. Lord Farrer..	8	2 0	320 T	30.44	145
D Holmwood	A. Seoncee, Esq.	5	1 2	320 T	29.75	108
D Farnham (The Bourne Vicarage)	Rev. T. W. Sidebotham	5	1 0	308 $\frac{1}{2}$	24.77	166
D " (Hampton Lodge)	Mr. J. Foster	5	1 0	...	23.29	132
D " (Great Down, Seale)	Mrs. Kitchin	8	1 0	490	21.61	122
Dorking (Fir Tor)	F. Taylor, Esq.	5	1 0	260	29.95	...
" (West Street)	Mrs. W. A. Marsh.....	10	26 0	224 T	22.53	133
D " (The Denbies)	Mr. J. Beesley	5	0 9	610 T	28.34	139
D Brockham (North Lodge)	H. R. Kempe, Esq.	8	0 9	...	27.09	114
Guildford (Piccards Rough)	C. M. Powell, Esq.	5	2 6	325 T	24.99	...
D " (The Beeches, Guildown)	Miss Johnston	5	0 11	220 T	25.59	164
D " (Listoke)	Genl. Battersby	5	1 0	...	24.97	130
D " (Wern, Stoke)	Miss Mathew	5	4 0	170	21.87	132
D Reigate (Woodhatch Lodge)	T. B. Haywood, Esq.	5	1 0	270 T	26.59	156
D " (Ringley Mead)	R. L. Hesketh, Esq.	5	1 0	345 T	28.62	175
D " (Sewage Farm)	F. D. Clark, Esq., C.E.	8	1 0	196 $\frac{1}{2}$	25.05	140
D† Red Hill (Oxford Road)	W. H. Tyndall, Esq.	8	1 0	300 $\frac{1}{2}$	28.23	159
D Reigate (Dovers Lodge)	R. W. Clutton, Esq.	5	0 7	192	26.04	134
D " (Aldersyde)	H. Rosling, Esq.	5	0 10	...	29.80	114
D " (Castle Grounds)	F. D. Clark, Esq., C.E.	5	1 6	350 $\frac{1}{2}$	27.63	152
D " (Doods)	G. E. Pym, Esq.	5	1 3	350 $\frac{1}{2}$	28.23	161
D " (Nutwood)	H. E. Gurney, Esq.	5	0 9	440 T	26.91	163
D Nutfield Priory	Mrs. Fielden	8	1 2	468 $\frac{1}{2}$	26.54	166
D " (Holmesdale)	C. T. Maw, Esq.	8	2 0	500 T	24.73	156
D Dorking (High Ashurst)	The Hon. H. D. Ryder	5	10 0	550	26.11	161
D Reigate Hill (Margery)	W. F. Taylor, Esq.	5	2 0	756	29.25	181
D Walton Heath (The Hermitage)	F. C. Bayard, Esq.	5	1 2	650	28.86	184

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
		ft. in.	feet.	inches.	1895	
SURREY—(con.)						
d Merstham (Rockshaw)	F. C. Bayard, Esq.....	5	1 0	475	27·34	160
d Upper Gatton	F. Druce, Esq.	5	1 0	601	28·43	191
d Bookham Lodge	Hon. Rev. H. Waldegrave	8	0 7	140	20·92	140
d Horsley (Woodcote Lodge)	Sir H. E. Roscoe, F.R.S.	7	0 6	650	27·27	110
d Pirbright Camp	Sergt. G. Payne	5	1 0	201 T	22·00	141
Leatherhead (Downside)	A. Tate, Esq.	5	1 0	250	22·80	...
d " (Newlands)	E. B. Falwasser, Esq....	5	1 0	210	22·38	150
Chaldon Rectory	F. C. Bayard, Esq.	5	1 0	542	26·97	141
d Chipstead (Shabden Park)	" "	5	1 0	550	28·03	168
d Caterham Asylum	Dr. Elliot	5	1 0	610 T	26·04	143
d " Valley (Birchwood Ho.)	Mrs. Rutley	5	1 0	471 T	22·42	145
d Coulsdon Grange	F. C. Bayard, Esq.	5	1 4	525	23·73	132
d Kenley (Hazelea)	Major F. Carr Dyer ...	5	1 0	282 T	25·37	168
d " (Ingleside)	H. Smith, Esq.	8	1 0	375 T	24·92	174
d Warlingham Vicarage	F. C. Bayard, Esq.	5	1 0	614	28·31	152
d Ashtead (Caen Leys)	J. D. Robertson, Esq....	8	3 0	185 T	21·45	146
," (D'Abernon Chase)	Sir W. Vincent, Bart..	5	1 0	280 T	22·44	144
d Woking (Lindisaye)	H. Horncastle, Esq.	5	3 8	130 T	21·04	143
," ()	M	5	0 9	130 T	21·11	...
d Leatherhead (Oxshott)	W. H. Dines, Esq.	5	1 0	206 T	21·17	152
d Banstead (The Larches)	F. C. Bayard, Esq.	8	1 0	488 T	24·73	128
d Camberley (Brackendale)	Mr. J. Bryan	5	1 0	267 T	23·04	153
d Purley (Tudor Cottage)	F. C. Bayard, Esq.	5	1 0	216 T	24·24	156
d Chertsey (Ottershaw)	R. H. Otter, Esq.	5	1 0	200 T	22·45	166
d Windlesham (Erlwood)	E. S. Currey, Esq.	5	1 0	216 T	23·69	142
," (Woodside)	J. Williams, Esq.	5	0 8	200 ?	23·90	...
d Weybridge (Field Place)	G. A. Yool, Esq.	5	1 0	119 T	22·96	147
d Esher (Sewage Works)	F. C. Bayard, Esq.	5	1 0	42 T	19·88	153
d Addington (Hares Bank)	" "	8	1 0	331 T	23·67	152
d " (Park Farm)	" "	5	1 0	268 T	24·57	146
d " Hills	" "	8	0 9	473 T	22·27	168
d Wallington	" "	5	4 1	140 T	20·75	141
† Sutton (Mulgrave Road)	W. Goode, Esq.	5	5 10	230 T	21·69	150
Beddington (Riverside)	The Royal Meteor. Soc.	5	1 0	120	21·59	143
Croydon (Heathfield Road)	Registrar Gen. Returns	185	21·29	140
d " (Duppas House)	Baldwin Latham Esq. C.E.	5	1 0	158	21·22	158
d " (Waddon House)	P. Crowley, Esq.	5	1 0	156 T	21·02	157
d " (Waddon New Road)	G. Corden, Esq.	5	1 0	146	21·42	158
d " (The Whigtif)	F. C. Bayard, Esq.	5	1 0	191 T	21·95	160
d " (Brimstone Sew. Works)	" "	5	1 0	130 T	20·28	131
d " (Lower Addiscombe Rd.)	E. Mawley, Esq.	8	1 0	...	20·44	142
d " (Chatfield Road)	A. Malden, Esq.	5	1 6	166 T	20·11	133
d " (Park Hill Rise)	F. C. Bayard, Esq.	5	1 0	250	21·22	147
d New Malden (Sewage Works)	" "	5	1 0	45	20·05	125
d Thornton Heath (Thornton Rd.)	A. Wright, Esq.	8	0 9	120	18·90	117
Chertsey (Flutters Hill)	F. A. Baker, Esq.	5	3 0	200	20·67	...
," (Burley Orchard)	W. A. Herring, Esq.	5	1 6	30	22·65	...
Surbiton (Seething Wells)	R. Hack, Esq., C.E.	10	0 6	25	20·79	123

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above Seallevel		
		ft.	in.	feet.	inches.	
SURREY—(con.)						
d East Molesey (Palace Road).....	Lady Jenkyns	5	5 0	37	23·18	153
West Molesey.....	R. Hack, Esq., C.E.	5	1 0	32	21·44	134
d Kingston Sewage Works	F. C. Bayard, Esq.	5	1 0	25	25·16	144
d Wimbledon (Mount Ararat).....	T. Devas, Esq.	12	3 0	157 T	22·05	151
d " (Raynes Park)	F. C. Bayard, Esq.	5	1 0	47	24·58	185
d " (Sewage Works).....	" , "	5	1 0	58 T	20·34	144
d " Common (Parkside).....	R. Muir, Esq.	5	2 9	170 T	20·94	108
d " " (Richmond Ho.).....	E. Rawlings, Esq.	5	1 3	175 T	22·47	150
," Park (Woodhouse)..	A. E. Bateman, Esq.	5	0 11	150	23·45	104
South Norwood (Apsley Road)....	F. C. Bayard, Esq.	5	1 0	125	20·55	137
West Norwood (Thornlaw Road)....	W. Marriott, Esq.	8	1 0	221	21·40	149
Streatham (Woodfield Avenue)....	F. Jordan, Esq.	5	1 0	120 T	20·30	158
d Dulwich Wood Park	T. P. Caldicott, Esq.	5	1 2	...	19·16	125
d Wandsworth Com. (Patten Rd.)	F. C. Bayard, Esq.	5	1 0	100	20·45	153
Egham (Cooper's Hill)	The Meteor. Council ...	8	1 1	280	23·06	167
d Richmond (Ormond Lodge)	J. T. Billett, Esq.	5	0 9	51	23·95	156
d Kew Observatory	The Kew Committee ...	11	1 9	19 T	22·36	142
d Putney Vale Cemetery	F. Pain, Esq.	5	1 0	84 T	21·72	134
d Clapham Park (New Park Road)	D. W. Horner, Esq. ...	5	1 3	128 T	19·72	132
Brixton (Acre Lane)	The Meteor. Council ...	8	1 0	77 T	21·43	150
d Nunhead (Southwark W. W.)	J. W. Restler Esq., C.E.	5	4 0	176	17·67	126
d Battersea Creek (York Road) ...	A. R. Binnie, Esq., C.E.	8	26 9	41 T	18·48	127
d " (Southwark W. W.)	J. W. Restler, Esq., C.E.	5	3 6	21	18·36	125
d Vauxhall Cross (Wandsworth Rd.)	A. R. Binnie, Esq., C.E.	8	30 5	48 T	19·97	124
KENT.						
Dungeness	The Meteor. Council ...	8	1 3	75 T	18·93	157
d Hawkhurst (Sandhurst Rectory)	Rev. G. Ridout	5	1 3	208 T	27·37	157
Appledore (Snargate)	J. Ellis Mace, Esq.	5	1 0	9	20·37	...
Dymchurch Rectory	Rev. C. E. Plater	8	1 6	5	22·79	...
Rolvenden (Hole Park).....	H. Neve, Esq.	5	1 0	220	25·81	153
Tenterden (Summerhill)	Rev. A. Wilkin	12	1 0	149 T	20·20	176
Benenden Vicarage	Rev. Canon Joy	8	1 6	330	21·92	...
," (East End)	J. Ellis Mace, Esq.	8	1 2	193 T	24·89	...
d Tenterden	," , "	8	1 5	190 T	23·61	176
," Snowdon	," , "	8	1 5	190 T	23·08	...
," (Little Westwell)	W. Hilder, Esq.	5	1 0	140 T	23·59	...
," (Ashbourne Mills)	A. Pinyon, Esq.	5	1 0	45	23·97	...
Woodchurch	Rev. A. Welch	5	5 0	107	21·56	113
d Hythe	Messrs. Mackeson & Co.	8	0 6	12 T	27·08	192
† " (Hillhurst Farm)	G. F. Deedes, Esq.	5	2 0	280 T	27·35	171
Sandgate	The Meteor. Council ...	5	1 0	60	25·94	167
Cranbrook (Swattenden)	Miss Appach	8	1 2	350 T	25·38	146
† " (Hartley)	G. Pile, Esq.	5	4 0	405 T	25·95	157
Folkestone	The Royal Meteor. Soc.	5	1 0	110	25·68	173
d " (Cherry Gardens)	H. Turner, Esq.	8	3 6	140 T	26·65	111
," (Capel Lodge)	E. Norton, Esq., M.D.	5	1 0	480 T	29·61	172
d Hythe (Frog Holt)	G. Lipscomb, Esq.	5	1 0	186 T	29·27	158

DIVISION II.—SOUTH EASTERN COUNTIES—(*continued*).

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1895	Days on which .01 or more fell.
		Diameter	Height Above Ground. ft. in.	Height Above SeaLevel feet.		
KENT—(con.)						
Herne Bay (Water Works).....	J. W. Thorpe, Esq.	5	0 6	90	17·77	...
d Birchington (Thor)	Mr. W. H. Euden	5	1 0	40 T	21·25	161
d Reculver (Brook)	A. Collard, Esq.	5	6 3	40	18·04	158
d Hayes (Layham's Farm)	W. Ashcroft, Esq.	5	1 0	500	23·20	145
d " Common (The Warren)...	Miss Akers	5	1 0	296	21·93	160
d West Wickham (Wickham Court)	F. C. Bayard, Esq.	5	1 2	300	24·42	135
d Orpington (Kent Waterworks)...	,, , , ..	5	1 0	220	19·86	132
d Farningham Hill	,, , , ..	5	3 0	300	20·04	149
Chatham	The Meteor. Council ...	8	1 3	137	22·17	141
d Rochester (Knights Place)	J. Pye, Esq.	5	2 3	320	23·30	169
d St. Peter's	Rev. H. C. V. Snowden ..	5	4 0	144	17·76	153
North Foreland	The Meteor. Council ...	8	1 0	115	19·22	137
d Margate (Apsley House)	J. Stokes, Esq.	5	1 0	84 L	19·76	157
d " (,, , ,)Snowdon	,, , , ..	5	1 0	84 L	19·93	157
d Sheppey (Leysdown)	Rev. A. Farbrother ...	5	1 2	47	15·93	133
d Frindsbury (Manor Farm)	F. Baker, Esq.	5	1 0	100	22·34	132
d Bromley Common (Elmfield) ...	Rev. J. P. Faunthorpe..	5	0 9	240	20·00	144
Bickley (Highfield)	J. Batten, Esq.	5	1 2	295	20·73	149
Chislehurst (Southlaund)	T. O. Hutton, Esq.	5	1 2	...	19·69	...
d " (The Oaks).....	F. C. Bayard, Esq.	5	0 11	325	22·92	153
d Wilmington (Kent Waterworks)	,, , , ..	5	1 0	25	17·69	123
d Sidcup (Hatherley Road)	Dr. L. Burrell	5	1 2	350 ?	19·78	153
d Rochester (Abbot's Court, Hoo)..	Warwick Stunt, Esq....	5	1 0	10	14·88	127
Sheerness (Water Works)	C. A. Copland, Esq., CE	8	1 0	9 T	16·50	142
d Beckenham (Cedars Road)	F. C. Bayard, Esq.	5	1 0	105	20·49	154
Sydenham (Gorrevod)	Mrs. Stephenson	5	1 0	...	21·31	...
d Forest Hill (Newfield House) ...	F. C. Bayard, Esq.	5	1 0	220	20·34	150
d " (The Nurseries).....	Messrs. J. Carter & Co.	5	0 5	76	21·73	122
d " (Barr Beacon).....	J. W. Restler, Esq., C.E.	5	1 0	344 T	20·17	155
d Catford Hill (Avalon)	F. M. Lark, Esq.	5	0 9	...	20·32	137
d Higham (Oakleigh)	C. Lake, Esq.	8	1 2	25	17·88	104
d Rochester (Cooling Castle)	W. Wood, Esq.	5	8 0	10 T	19·37	134
d " (Hoo St. Mary).....	H. Pye, Junr., Esq.	5	5 6	146 T	19·70	136
Eltham (Cliefden)	Miss Yeatman	5	0 10	198 T	19·33	...
d " (High Street)	F. C. Bayard, Esq.	5	1 0	245	19·00	148
Blackheath Park (Elmsdale) ...	C. Lethbridge, Esq.	5	0 11	90	20·06	171
Greenwich (Royal Observatory) ..	W. H. Christie, Esq. FRS	8	0 5	155 T	19·73	158
d Deptford (Kent Waterworks) ...	F. C. Bayard, Esq.	5	1 0	20	17·85	129
d " (Pumping Station).....	A. R. Binnie, Esq., C.E.	10	1 6	15	22·59	135
d Woolwich (Powis Street)	Mr. J. G. Waller	5	30 0	65	20·50	151
Erith (Crossness)	A. R. Binnie, Esq., C.E.	14	0 6	16 T	17·27	131
" (,, ,)	No. 3	14	0 6	16 T	16·61	131
WEST SUSSEX.						
Bognor (Lidsey Lodge)	H. Neale, Esq.	8	1 2	...	28·11	126
Littlehampton (Surrey House)...	G. Neame, Esq.	5	1 8	20 T	26·35	...
Worthing	The Royal Meteor. Soc.	5	1 0	33	24·93	144
d Arundel (Yapton)	W. A. Hounsom, Esq..	5	1 0	24 T	26·30	136

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .10 or more fell.
		Diameter	Height above Ground.	Height above Sea Level		
			ft. in.	feet.		
WEST SUSSEX—(con.)						
Arundel (Yapton, Drove Farm).	W. A. Hounsom, Esq..	5	1 0	14 T	26·68	127
Angmering	Rev. J. B. Orme.....	5	1 3	44	28·33	...
Chichester (Sewage Works)	Baldwin Latham Esq CE	5	1 0	10 T	30·06	148
(Westgate Meadow)	Dr. Tyacke	8	0 6	40	28·60	123
Arundel (Clapham Rectory)	Rev. A. H. S. Barwell	5	1 0	150 T	31·16	173
(Patching)	J. Drewitt, Esq.....	5	1 0	180	30·80	151
(“ , ”)	Mrs. Joad	5	0 10	130 T	30·32	162
(The Parade)	A. Holmes, Esq.....	8	3 1	75	30·27	136
Steyning (Annington)	Mr. H. J. Hide	5	1 0	90 T	32·04	151
(Selehurst)	W. E. Hubbard, Esq..	5	1 6	310	28·38	135
† Chichester (Earlham House)	Col. Ingram	5	1 0	80 T	33·60	121
(Forest Side Vic.)	Sir P. Milbanke, Bt....	3	4 6	240 T	28·00	...
(Watergate)	Mrs. J. C. Parson	5	1 0	341	30·91	137
(West Dean)	R. Christy, Esq.	5	3 6	240 T	31·46	150
(Chilgrove)	Mr. W. H. Smith	1	6	190	34·90	125
Compton [Petersfield]	J. W. Woods, Esq.	5	0 6	284 T	35·19	...
† Petworth Rectory	Rev. H. M. Langdale...	5	1 0	255 T	34·16	166
Park	Rev. C. Holland	5	4 0	180 T	30·32	128
Cowfold (The Laurels)	Mr. E. W. Pull.....	5	1 0	182	29·41	127
Midhurst (St. Ann's)	Mr. S. Ford	6	1 6	273	29·45	...
(Cowdery Park)	Genl. Paxton	8	1 8	120	28·33	142
(Borden Wood)	Rt. Hon. Lord Egmont.	5	1 0	150	30·48	151
(Lynch Farm)	T. J. Hare, Esq.	5	1 2	280 T	28·10	162
(Hollycombe)	G. Eames, Esq.	5	0 6	160 T	34·46	...
Horsham (Bourne Hill)	J. C. Hawkshaw, Esq..	8	6 6	...	30·74	...
(Manor House)	F. W. Pigott, Esq.....	5	1 0	250 T	26·74	138
(Wimblehurst)	H. Padwick, Esq.	8	0 10	140 T	31·36	153
Rusper Rectory	Miss F. E. Allicard ...	5	1 0	220 T	27·69	169
	Rev. G. A. Rideout ...	5	...	390 T	30·26	149
EAST SUSSEX.						
Beachy Head	Miss Brodie Hall.....	5	1 0	515 T	24·33	...
Eastbourne (East Dean)	E. W. Adamson, Esq..	5	1 0	180	27·16	142
(Wilmington Square)	R. Sheward, Esq.	8	0 6	39	30·75	164
† “ (Osborne House)	Miss Brodie Hall	5	1 0	12 T	30·21	167
† “ (Cemetery)	” ” ”	5	4 0	160 T	28·77	140
† Brighton (Kemp Town)	Mr. Wyatt	5	1 0	82 T	24·98	130
† “ (Old Steine)	A. Newsholme, Esq., MD	5	1 0	32 T	25·19	168
“ (W.W. Goldstone Botm)	J. Johnston, Esq., C.E.	5	0 7	140 T	24·88	134
“ (W. W., Lewes Road)	” ” ”	8	3 6	88	26·79	134
“ (“ , Patcham)	” ” ”	5	1 6	207	27·79	144
St. Leonards (Gensing Gardens).	The Meteor. Council ...	5	1 0	166 T	28·60	149
“ (The Grove)	W. B. Young, Esq.	5	1 1	110 T	28·17	146
Iford (Swanborough)	R. H. Verrall, Esq.	5	3 10	115 T	31·02	135
Hailsham	Rev. F. Clyde Harvey..	5	1 0	105	27·75	129
Falmer	R. R. Verrall, Esq.	5	3 0	312 T	33·83	134
Lewes (Bedford Lodge)	Mrs. Kemp	5	1 0	85 T	22·05	158
† “ (Saxonbury)	A. Hillman, Esq.	5	1 0	75 T	29·47	146

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .1 or more fell
		Diameter	Height Above Ground	Height Above SeaLevel		
		ft. in.	feet.	inches.	1895	
EAST SUSSEX—(con.)						
d Lewes (Southmalling)	Miss M. H. Rickman	5	1 0	40 $\frac{1}{2}$	22·88	155
d Hastings (Newgate Res.)	P. H. Palmer, Esq., CE	8	0 10	240	28·65	138
+ „ (HighBeech Hollington)	Col. Lewis	5	1 0	320 $\frac{1}{2}$	26·58	147
d „ (Guestling Rectory)	Rev. E. N. Bloomfield.	5	1 5	125 $\frac{1}{2}$	27·74	149
Clayton Rectory.....	Rev. T. H. R. Shand	5	1 1	201	29·75	...
d Hurstpierpoint (Danny Park)	Mr. J. Bunney	8	1 3	180	31·37	106
d „ (Hampton Lodge)	J. F. H. C. Greg, Esq.	5	1 0	174	27·82	145
d Winchelsea (The Friars)	Miss Stileman	5	1 2	115 $\frac{1}{2}$	22·94	130
d Battle (Whatlington)	Miss H. Gripper	5	1 3	70	27·44	121
Horsted Place.....	C. L. Prince Esq.	149	25·59	125
Heathfield (Spring Lodge)	J. R. Reid, Esq.	5	1 2	500	27·37	163
Playden (East Guldeford Lane).	G. Pile, Esq.	5	1 0	...	23·97	...
„ (Springfield)	Miss Curteis	21·74	142
Uckfield House	C. L. Prince, Esq.	8	0 10	200 B	26·36	167
d Cross in Hand (Montpellier)	A. Brown, Esq.	5	1 0	475	30·56	162
„ „ (Heatherden)	J. Crossley, Esq.	8	2 0	450	29·71	...
d Wivelsfield (Abbots Leigh)	Mr. R. Inglis	5	1 0	190 $\frac{1}{2}$	27·62	145
d Haywards Heath	C. E. Saunders, Esq. MD	5	1 1	281	27·42	110
d Buxted Park	Mr. H. C. Prinsep	8	1 0	100	28·04	157
„ (Strawberry Hall)	C. Rintoul, Esq.	5	1 0	220	26·79	...
Sheffield Park	Sussex Advertiser	27·83	137
d+ Maresfield (Forest Lodge)	Capt. W. Noble	8	1 2	242 $\frac{1}{2}$	27·50	169
Cuckfield (Workhouse)	The Meteor. Council	1 0	389	29·32	152
Lindfield (Wood Knoll)	L. Weedon, Esq.	5	1 0	188 $\frac{1}{2}$	30·01	157
d+ Mayfield Vicarage	Rev. H. T. M. Kirby	8	0 8	425 $\frac{1}{2}$	28·43	143
d Nutley Vicarage	Rev. H. J. Peckham	5	1 0	386 $\frac{1}{2}$	29·30	181
Crowborough	Sussex Advertiser	30·28	...
d+ „ (The Observatory)	C. L. Prince, Esq.	8	0 8	770 $\frac{1}{2}$	29·65	147
d Balcombe Place	Mr. Warren	8	1 3	289 $\frac{1}{2}$	33·35	164
d „ (Highley Manor)	H. M. Baker, Esq.	8	1 6	422 $\frac{1}{2}$	30·23	110
Ticehurst	Mr. Jordan	5	4 9	423 $\frac{1}{2}$	27·01	124
d Wadhurst (Lower Cousley Wood)	F. Wilkin, Esq.	5	1 0	416 $\frac{1}{2}$	26·52	153
Frant (Eridge Castle)	Mr. A. Wilson	5	2 0	400	31·18	100
d Withyham (Leyswood)	Mr. T. C. Moorhouse	8	1 4	420	28·17	138
Forest Row (Harbury)	N. W. Grieve, Esq.	8	4 0	280 $\frac{1}{2}$	28·94	141
Worth (South Hill)	P. E. Ravenshaw, Esq.	5	1 6	558 $\frac{1}{2}$	31·82	176
„ Rectory	late Rev. G. W. Banks	5	1 10	300 $\frac{1}{2}$	29·81	162
d East Grinstead Station	Mr. G. Mitchell	8	2 2	410	27·58	158
„ „ (Halsford Park)	W. I. Stenning, Esq.	5	1 6	365 $\frac{1}{2}$	27·89	148
HAMPSHIRE.						
ISLE OF WIGHT.						
d Ventnor	J. S. Ineson, Esq.	10	2 0	70	28·31	153
„ (Consumption Hospital)	The Royal Meteor. Soc.	5	1 0	75	28·56	153
d+ Bonchurch (The Lilies)	Mr. W. C. Moseley	5	1 0	300 $\frac{1}{2}$	28·57	161
d Sandown (Lake Hill)	W. E. Green, Esq.	5	1 0	105	33·84	135
Brading Vicarage	Rev. E. Summers	5	1 6	50 ?	26·61	...
d Totland Bay	J. Dover, Esq.	8	1 0	85 $\frac{1}{2}$	25·85	135
d Newport (Castle Hold)	A. Le Mesurier, Esq.	5	1 0	...	29·15	149

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above SeaLevel		
		ft. in.	feet.	inches.	1895	
HAMPSHIRE—(con.)						
ISLE OF WIGHT—(con.)						
D Parkhurst (Brookfield)	Rev. J. B. Wheeler ..	5	1 0	100 T	29.62	146
D Ryde (Thornbrough)	Col. Clarke	5	1 0	143 T	29.51	161
D , (Town Hall)	F. Newman, Esq.	8	1 0	83 T	25.59	158
Wootton (Fernhill)	F. Brodie Esq.	8	0 6	118 T	28.28	...
D† Osborne (Newbarn Cottage)	R. Scott, Esq.	8	0 8	172 T	27.72	166
D West Cowes (Holmwood)	C. T. Maw, Esq.	8	0 8	40 T	27.16	157
 Hurst Castle						
D Bournemouth (Wellington House)	The Meteor. Council ...	8	0 11	9	26.91	144
D Christchurch (Mudford)	Messrs. Primavesi Bros	5	1 0	100 T	25.75	156
D , (Heron Court)	F. H. D. Eyre, Esq.	5	0 3	15 T	26.15	155
D Portsmouth (Fort Cumberland). (Milton)	Earl of Malmesbury ...	8	0 6	..	30.02	147
D North Hayling	P. Murch, Esq., C.E.	8	0 9	16 T	21.45	109
D Porchester (Noel Cottage)	Dr. Mumby	5	1 0	18	27.59	147
D Havant (Farlington)	F. Padwick, Esq.	5	1 0	10	25.37	140
D , ()	Miss Montgomery Frost	5	1 0	..	26.25	145
D , (Lake Ho.)	H. R. Smith, Esq., C.E.	5	1 0	77 T	24.21	147
D , (Ordnance Surv. Off.)	M „ „ „ ..	5	1 0	77 T	24.22	...
D „	„ „ „ ..	5	1 0	25 T	27.26	141
D „	M „ „ „ ..	5	1 0	25 T	26.75	...
D Emsworth (Redlands)	F. Jacomb Hood, Esq.	5	1 0	90 T	28.53	148
D Southampton (Cadland)	J. Laurie, Esq.	8	4 6	52 T	30.94	156
D Lyndhurst (Cuffnells)	R. Hargreaves, Esq.	5	0 9	200 T	29.20	133
D Southampton (Netley)	Prof. J. Lane Notter... .	8	0 5	37 T	32.61	151
D „ (The Hollies, „ ,)	Col. Pennington	8	1 0	54 T	28.32	165
D Wickham (West Lodge)	Col. Farquharson, C.B.	5	1 0	79 T	28.31	149
D Botley (Hall Court)	Mr. W. F. Harold	5	5 0	85	32.93	166
D „ (Beachcroft, Curdridge)	A. Spooner, Esq.	5	1 1	97	27.42	...
D „ (Shirley Warren)	Rev Stanhope Rashleigh ..	5	0 11	315 T	28.58	163
D „ (Northbrook Ho.)	Adml. Murray-Aynsley ..	8	2 0	105 T	28.64	149
D „ (Fir Hill)	A. Jenkyns, Esq.	5	1 6	36 T	28.46	145
D „ (Wood Green)	Miss Pasley	8	2 0	100	27.11	167
D „ (Otterbourne Hill Reservoir)	late G. M. Bradley, Esq	5	1 0	150 T	27.42	147
D Horndean (St. Catherines)	Miss Barnes	8	1 7	417 T	34.39	166
D† Southampton (Red Lodge)	R. C. Hankinson, Esq.	5	0 6	206	27.10	163
D Fordingbridge (Oaklands)	Mrs. Westlake	8	1 0	135 T	29.25	119
D Hambledon (Rosecroft)	Mr. L. Dawes	5	2 6	200	33.25	170
Bishops Waltham (Swanmore House)	W.H. Myers, Esq., M.P.	8	1 0	390 T	28.49	140
Droxford (Fir Hill)	H. W. Trinder, Esq.	5	1 0	140	28.89	142
Fordingbridge (Wood Green)	Rev. S. King	5	3 6	212	28.27	168
Otterbourne Hill Reservoir	H. Hinckman, Esq.	5	1 2	140 T	30.43	...
D „ (W.W., Shawford)	M. Matthews, Esq., CE	5	18 0	273 T	16.43	...
D „ („ ,)	„ „ „ ..	5	1 0	113 T	22.80	141
D Petersfield (Steep Vicarage)	Rev. E. L. Puxley	5	0 7	245	29.41	174
Liss (Liss Place)	F. Coryton, Esq.	7	0 7	250 T	29.14	...
D „ (Lingwood)	R. Barnes, Esq., M.D.	5	0 9	510	32.05	150
D Alresford (Hinton Ampner)	Rev. J. Heberden	8	4 4	330	29.82	140

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1895	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft.	in.	feet.	inches.
HAMPSHIRE—(con.)						
d Alresford (Ovington).....	Rev. H. F. La M. Stowell	5	1	0	221 T	28·34
d " (Itchen Stoke Rectory).....	Rev. C. H. Conybeare..	5	1	0	214 T	28·38
Greatham (King's Holt)	Mrs. Parr	5	1	7	279 T	25·22?
Alton (East Tisted Rectory).....	Rev. F. Howlett	5	1	1	420 T	30·58
d " (Rotherfield Pk.)	Mr. A. C. Hunter	5	1	6	540	30·04
d Winchester (Harestock)	Col. Knight	5	1	0	302 T	29·39
Liphook (Fowley)	E. A. Lee, Esq.	5	0	10	296 T	30·54
" (White Hill Chase)	Col. R. H. Maude	5	1	0	300 T	28·86
d Swarraton Rectory	Rev. W. L. W. Eyre..	5	1	0	310 T	27·13
d† Alton (Ashdell).....	F. Crowley, Esq.	8	3	6	433 T	30·92
" (Eagles Nest)	" "	5	52	4	505	16·88
" (Hill House)	C. H. Dyer, Esq.	5	1	0	361	32·23
" (Shalden Manor).....	J. G. Wood, Esq.	8	3	0	594	31·14
d Whitchurch (Long Parish)	C. Durnford, Esq.	26·53
Andover (The Knoll)	G. H. Westbury, Esq..	5	0	10	196 T	32·94
d Tedworth House [Ludgershall]..	Mr. G. A. Inglefield ..	5	1	8	357 T	31·21
d Basingstoke (Chapel Hill).....	G. Stephens, Esq.	5	1	0	328 T	23·21
Rotherwick (Tylney Hall) ...	C. E. Harris, Esq.	5	0	10	330	22·35
Basingstoke (Monk Sherborne) ..	Rev. Canon Willes ...	5	1	6	314 T	25·84
d† " (Sherborne St. John).....	Rev. D. W. Chute.....	5	1	2	267 T	25·02
d Winchfield (Elvetham Park) ..	Mr. T. Jones	8	1	0	217 T	22·28
Farnborough (The Grange)	Major Holt	5	1	0	232 T	26·65
d " (The School)	Rev. G. C. Carter	5	1	0	230 ?	22·47
Hartley Wintney	Mr. W. G. Machin ..	5	1	2	222 T	23·83
" Grange	F. Walkinshaw, Esq....	5	1	0	221 T	23·54
d† Strathfield Turgiss.....	late Rev. C. H. Griffith	5	3	0	200 T	26·19
d Strathfieldsaye Gardens	Mr. J. W. McHattie...	5	2	0	164	24·46
Heckfield (Park Corner)	J. Martineau, Esq.	5	1	2	257	22·65
BERKS.						
d Sandhurst Lodge	Sir W. J. Farrer	8	2	9	263	24·00
d Wellington College	S. A. Saundier, Esq.	5	1	0	283 T	23·78
d Sunninghill (Lynwood)	G. Rodie Thompson, Esq.	5	1	0	266 T	25·25
Newbury (Donnington Sq.)	W. J. Cowper, Esq.	5	3	6	282 T	25·92
d Arborfield Rectory	Rev. J. Jones	5	1	2	158 T	22·54
d Hungerford (Kintbury)	Sur. Gen. Woolfryes.CB	5	1	0	297 T	29·10
" (Denford Park).....	Gen. Cherry-Garrard...	5	1	2	430 T	30·05
Winkfield (Elm Lodge)	<i>Reading Mercury</i>	24·47
d Bracknell (Warfield).....	Rev. B. C. Littlewood ..	5	0	4	199 T	23·62
d Wokingham (Binfield Park) ..	W. R. Cookson, Esq.	8	1	1	...	23·23
d Old Windsor (Beaumont College)	Rev. J. Scoles	5	1	1	96	24·80
" (The Friary)	Mr. J. Williams.....	5	1	0	100	24·19
d Windsor (Royal Gardens).....	Mr. T. Edwards.....	5	1	0	...	24·36
Reading (Englefield).....	R. Benyon, Esq.	5	1	1	...	27·23
d " (Calcot Place).....	General Swettenham...	5	1	4	176	22·74
d " (Ellerslie)	Rev. A. Cheales.....	5	1	0	195 T	22·60
d " (Portland Place).....	C. N. Pearson, Esq.	5	1	0	120	23·96
d " (,, ,,)	,, ,,	8	1	6	120	24·62
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DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above SeaLevel		
			ft.	in.	feet.	inches.
BERKS—(con.)						
D Reading (Forbury Gardens).....	J. Bowen, Esq., C.E....	5	1	5	145 $\frac{1}{2}$	20·49
,, (East Thorpe)	A. Palmer, Esq.....	5	3	0	157 $\frac{1}{2}$	22·70
,, (Earley)	M. J. Sutton, Esq.	8	1	6	...	21·29
D Twyford (Haines Hill).....	Mrs. Wedderburn.....	5	0	7	155	22·95
D Newbury (Welford Park)...old y.	Mr. C. Ross.....	5	1	0	335 $\frac{1}{2}$	29·07
" " (" , ") new y.	,,	5	1	0	341 $\frac{1}{2}$	29·55
D " (Weston)	R. Osmond, Esq.	5	0	6	338 $\frac{1}{2}$	25·95
D Lamborne (College House)	W. Palmer, Esq.	5	0	9	415 $\frac{1}{2}$	28·51
D Maidenhead (Lowood)	Gen. Davies	8	1	0	167 $\frac{1}{2}$	24·28
D " (Castle Hill House)	F. C. Young, Esq.....	5	1	0	163	24·90
D " (Pinkney's Green)..	G. Norsworthy, Esq....	5	1	6	240	24·30
D " (Cookham Vic.) ...	Rev. R. W. Rogers ...	5	1	3	90 $\frac{1}{2}$	22·47
D Temple House [Marlow]	Mrs. Owen Williams ..	5	1	0	106	25·32
D Wantage (Letcombe Regis)	S. W. Silver, Esq.	5	0	9	...	26·48
,,	W. Hanson, Esq., C.E..	5	1	0	304	22·99
Wallingford Castle	J. Kirby Hedges, Esq..	5	0	9	175 $\frac{1}{2}$	23·61
D Little Wittenham Rectory	Rev. Percy Burd	5	1	0	187 $\frac{1}{2}$	22·48
D " "	T. J. Latham, Esq. ...	5	2	0	187	22·39
D Long Wittenham (Manor Ho.)...	Capt. Clutterbuck, R.N.	12	1	0	165 $\frac{1}{2}$	25·05
,, (Lovegrove's Cott.)	Rev. F. C. Clutterbuck	5	1	0	165	24·81
Faringdon (The Elms)	W. Dundas, Esq.	5	1	0	340 $\frac{1}{2}$	26·55
D Abingdon Union	Mr. J. Fray	5	1	0	196	22·27
,,	G. Winship, Esq., C.E.	5	0	6	...	21·24
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DIVISION III.—SOUTH MIDLAND COUNTIES.

HERTS.

D Southgate (The Lawns).....	G. A. Church, Esq. ...	5	0	6	240 $\frac{1}{2}$	22·46	187
D Rickmansworth (Moor Park)....	Rt. Hon. Lord Ebury ..	5	2	0	340	28·79	137
D Elstree (Aldenham House)	Mr. E. Beckett	10	4	9	...	24·30	141
D Watford (Frogmore)	A. P. Blathwayt, Esq.	5	1	0	182 $\frac{1}{2}$	25·35	147
,, (Colne Valley W.W.) ..	J. Hopkinson, Esq.	5	1	0	220	23·78	134
Barnet (Gas Works)	,, " "	8	0	9	212	23·22	...
,, (Trent Park)	Mr. W. H. Lees.....	5	1	0	254 $\frac{1}{2}$	20·67	...
D Cheshunt Old Nurseries	Messrs. Paul & Son ...	5	1	0	92 $\frac{1}{2}$	21·27	130
Kings Langley (Laurel Bank)...	I. Butler, Esq.	5	1	0	283 $\frac{1}{2}$	25·90	...
D Broxbourne (Stafford House) ...	G. J. Newberry, Esq....	5	1	0	118 $\frac{1}{2}$	21·13	163
D Hemel Hempstead (Nash Mills)..	Messrs. J. Dickinson & Co.	12	3	9	237 $\frac{1}{2}$	25·52	147
D " (Apsley Mills), "	24	0	9	260	26·50	135
D St. Albans (The Grange)	J. Hopkinson, Esq.	5	1	0	380 $\frac{1}{2}$	25·60	161
+ " (Gorhambury).....	Mr. Newberry.....	5	1	0	425 $\frac{1}{2}$	27·37	155
D Great Berkhamsted (Rosebank)	E. Mawley, Esq.	8	1	0	401 $\frac{1}{2}$	26·62	162
,, () M	,,	8	1	0	401 $\frac{1}{2}$	25·99	...
D " (Fairhill)...	W. B. Hopkins, Esq....	5	1	0	550 $\frac{1}{2}$	24·94	160
,, (Northchurch)	F. L. Sutton, Esq.....	5	1	0	400	26·63	134
D " (Gt. Gaddesden)	Rev. W. Tyrwhitt Drake	8	1	0	426 $\frac{1}{2}$	26·81	153
Hertford (Bayfordbury)	W. C. Baker, Esq.	8	1	2	250	21·80	133

DIVISION III.—SOUTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
		ft. in.	feet.	inches.		
HERTS—(con.)						
D Hertford (Marden Hill, Tewin)	R. Hoare, Esq.....	5	1 0	257 T	23·22	131
Tring (Pendley Manor)	J. G. Williams, Esq....	5	2 0	500 ?	27·79	176
D " (Elm House)	E. J. Le Quesne, Esq...	5	1 2	460	26·44	164
" (New Mill)	R. Leah, Esq.	5	1 4	450	26·90	183
D " (Cowroast)	G. Thomas, Esq.	5	3 8	394 T	27·30	109
Harpenden (Rothamstead)	Sirs J. Lawes & J. Gilbert	5	0 9	420 T	25·77	151
" { " }	" " "	8	0 9	420 T	25·37	140
D " { " }	" " "	72x87	0 9	420 T	27·16	157
D Hatfield (Brocket Hall)	Mr. C. Kinns	8	1 0	250	24·10	156
D Ware (Red House).....	J. Francis, Esq., C.E..	5	0 9	112 T	21·58	125
D " (Fanham's Hall)	Miss Joyce Croft	8	1 0	253 T	20·75	126
Sawbridgeworth (Cowicks)	J. Hopkinson, Esq. ...	6	1 0	240	23·77	152
D Welwyn Rectory	Rev. Canon Wingfield.	5	0 4	228 T	24·36	131
D " (Danesbury)	A. M. Blake, Esq.	5	0 9	405 T	25·28	138
D " (Datchworth Rectory) ..	Rev. J. Wardale	5	1 0	386 T	24·24	148
D Much Hadham	T. W. Mott, Esq.	5	1 0	222 B	22·74	148
D Kensworth [Dunstable]	Miss Jones	5	1 0	630 B	29·86	154
D Bennington House.....	Rev. Dr. Parker.....	5	1 0	408 T	22·00	160
D Buntingford (Hamel's Park)....	Mr. E. Wallis	5	1 0	400 T	22·39	124
D† Hitchin (Wratten).....	W. Lucas, Esq.	5	2 1	238 T	25·95	151
" (The Maples)	W. Hill, Esq.	8	1 1	220 T	27·55	148
D " (Bancroft)	F. Ransom, Esq.	5	0 9	212 T	27·41	169
" (High Down)	J. Pollard, Esq.	5	1 1	422 T	26·54	153
D Weston Park	M. R. Pryor, Esq.	5	0 8	470 T	27·23	146
D Buntingford (Throcking Rectory)	Rev. C. W. Harvey ...	5	1 0	484 T	24·50	165
D Royston (Therfield Rectory)....	Rev. J. G. Hale	5	4 3	500 ?	26·39	155
D† "	H. Wortham, Esq.	8	0 6	269 T	22·90	137
BUCKINGHAMSHIRE.						
D Slough (Langley)	R. H. Major, Esq.	8	0 10	85 T	23·45	142
D " (Upton Hall).....	R. Bentley, Esq.	5	3 0	90 T	20·74	131
" { " }	" " ..	8	3 0	90 T	20·53	...
" { " }	" " ..	5	1 0	80 T	22·25	...
D " (Sefton Park).....	L. Hibbert, Esq.	5	1 0	200	22·49	128
D Taplow Court	W. H. Grenfell, Esq....	8	1 0	217 T	21·36	112
Greenlands [Henley-on-Thames]	Hon. W. F. Smith, M. P.	8	1 3	116	24·72	135
D Hedsor	Rt. Hon. Lord Boston.	8	1 0	170 T	24·03	140
Marlow	T. H. Wright, Esq.	25·52	...
High Wycombe	H. S. Wheeler, Esq....	8	0 9	253 T	24·45	...
D Chalfont St. Giles (The Stone)...	Col. Phipps.....	5	1 0	270 T	26·65	152
D Amersham (The Plantation)....	G. Weller, Esq.	8	1 0	465 T	27·37	149
D Wendover (Halton Gardens)	Mr. Sanders	5	1 10	400	28·60	142
Bulbourne [Tring]	G. Thomas, Esq.	5	2 3	401	24·93	116
Aylesbury (New Road)	J. Copcutt, Esq.	12	1 0	280 T	25·95	126
Waddesdon Manor	Mr. J. Jaques.....	6	1 6	364 T	25·46	123
Mentmore	J. Smith, Esq.	5	1 1	...	22·30	...
D† Winslow (Addington Manor) ...	Rt. Hon. Lord Addington	8	1 0	309 T	22·39	153
" { " } M	M ..,	5	1 0	309 T	22·12	...

DIVISION III.—SOUTH MIDLAND COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above SealLevel		
		ft.	in.	feet.	inches.	1895
BUCKINGHAMSHIRE—(con.)						
†Buckingham (Adstock).....	J. E. S. Weston, Esq....	5	0 9	350 T	23·45	152
d Stony Stratford (Thornton)	Mr. W. Sturdy	5	1 3	...	22·93	136
d Woburn Sands (Sandymount)	C. P. Stuart, Esq.....	5	1 1	...	23·72	140
d Newport Pagnell	F. Littleboy, Esq.....	5	2 0	196 T	22·37	129
Olney (Filgrave Rectory).....	Rev. J. Tarver	8	0 8	280	21·51	...
OXFORD.						
d Whitchurch Rectory	Rev. Canon Slatter ...	10	1 0	150 T	24·67	157
d Caversham (Cane End House) ...	D. Vanderstegen Esq..	5	0 4	400 ?	26·15	141
(Kidmore Grange)	M. J. Sutton, Esq.....	5	1 0	...	23·40	...
Henley-on-Thames (Greys)	Rev. N. Pinder	5	2 6	370 T	24·09	...
d " " , (Northfield Ho.)	J. W. Guy, Esq.	5	1 0	120	24·14	132
d " " , (Assenton)	Mr. J. Ratty	5	1 0	281	27·81	133
d Dorchester	Col. Blunt	5	0 6	169 T	23·97	155
d Abingdon (Culham)	Rev. F. C. Clutterbuck	5	1 0	200 T	23·49	148
d Watlington (Pyrton Manor).....	Cecil Hamersley, Esq..	5	1 0	321 T	24·57	158
d " , (Shirburn Castle)	Mr. W. M. Geddes ...	5	2 0	...	26·21	166
d Nuneham Park Gardens	Mr. Nichols.....	8	3 0	280 T	23·46	151
Wheatfield Rectory	Rev. C. V. Spencer ...	5	1 3	...	23·67	...
d Toot Baldon (Potlands)	E. Clinkard, Esq.	5	1 0	288	23·44	150
d Waterstock.....	W. H. Ashhurst, Esq..	8	3 0	206 T	21·11	138
Thame (Tythrop House)	Miss C. A. Wykeham..	8	1 2	255 T	22·07	108
†Oxford (Mag. Coll. Laboratory)	E. Chapman, Esq.	5	1 0	186 T	21·88	140
" (Radcliffe Observatory)	E. J. Stone, Esq., F.R.S.	5	33 11	223 T	19·50	...
" (Radcliffe Observatory)	E. J. Stone, Esq., F.R.S.	8	1 8	210 T	22·60	143
d " , " , " , "	" , " , " , "	11	2 4	210 T	23·87	144
" , " , " , "	" , " , " , "	10	22 0	230 T	22·69	137
" , " , " , "	" , " , " , "	10	112 0	320 T	15·84	118
d " (St. Giles')	Miss Tawney	8	1 3	211 T	23·31	151
d " (Norham Road)	Rev. C. B. Mount	9	1 2	220 ?	22·08	133
(Headington Hill)	Miss Davenport	5	0 10	354	24·48	...
d " (Elsfield)	H. Parsons, Esq.	5	1 0	330 T	22·63	158
Stanton St. John's	Miss Thomson	8	1 0	340	23·20	211
" , " , (Woodperry)	J. Thomson, Esq.	6	1 0	399 T	23·82	160
Witney (Lynton House)	J. Opie Esq.	5	1 0	300 T	23·30	...
Chipping Norton (Kingham).....	E. Lockwood, Esq.	5	4 0	442	29·18	...
d Bicester (Middleton Park)	Rt. Hon. Earl of Jersey	5	2 6	336	23·63	151
Steeple Aston (Hill House)	B. S. Ogle, Esq.	5	0 5	400 T	26·69	163
d " , (The Grange)	Adl. Bradshaw, C.B....	8	1 0	400 T	25·15	163
d Banbury (Bloxham Grove)	Rev. G. Warriner	8	3 10	387 T	24·99	141
d " , (Sibford Ferris)	J. Lamb, Esq.	5	1 0	590 T	25·47	157
d " , (Bodicote)	J. F. Starkey, Esq. ...	8	1 3	388 T	26·26	157
d " , (Ark House School)	A. J. Beale, Esq.	5	1 0	310	20·68?	139
NORTHAMPTON.						
Brackley (Market Place)	Messrs. Durran & Smith	8	6 10	400 T	24·34	144
(East Hill)	C. A. Markham, Esq....	23·30	157
d Grimsbury [Banbury]	W. E. Wood, Esq....	5	1 3	320 T	22·61	133
Thorpe Mandeville [Banbury]	Mr. S. Baines.....	5	1 0	530	24·77	140

DIVISION III.—SOUTH MIDLAND COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1895	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft.	in.	feet.	
NORTHAMPTON—(con.)						
■ Towcester (Whittlebury)	W. S. Miller, Esq.....	5	1	6	350	25·13
■ " " (Easton Neston)	P. Phipps, Esq.	5	1	0	290	25·10
Stoke Bruerne	Mr. E. Slarke.....	8	1	0	340 T	24·74
Byfield (Woodford Halse)	F. Coy, Esq.	8	1	0	320 T	22·08
■ Blisworth (Grafton House)	Rev. F. A. Smith	5	1	6	488 T	25·15
" "	A. Westley, Esq.	5	5	0	320	23·88
" Litchborough Hall	T. W. Millner, Esq.	5	1	6	300 T	19·90
■ Daventry (Fawsley)	E. Grant, Esq.	5	1	1	500	28·28
■ Easton Mauduit Vicarage	Lady Knightley	5	1	0	477 T	22·49
■ Castle Ashby	Rev. H. A. Boys.....	8	1	0	245 T	21·68
Northampton (Berrywood)	R. G. Scriven, Esq.	5	1	0	263 T	21·18
" (Pytchley Street)	R. Greene, Esq.	8	1	4	399 T	20·46
" (Gold Street)	Mr. E. Ball	5	1	6	270	20·42
" (Adnitt Road)	H. G. Fordham, Esq.	5	0	0	270	20·37
" (Kingsthorpe)	C. A. Markham, Esq.	5	1	0	...	23·99
■ Althorp House	S. Law, Esq.	5	1	0	280	20·34
Great Brington	Miss Chowler	8	3	10	310 T	17·58
■ Pitsford (Sedgebrook)	C. A. Markham, Esq.	5	1	0	...	18·87
" (Waterloo)	" " " "	5	1	0	311 T	20·69
Daventry (Waterloo)	F. F. Rodhouse, Esq.	5	1	0	311 T	20·51
Earls Barton Vicarage	C. A. Markham, Esq.	5	1	4	280 T	19·97
■ Wellingborough (Swanspool)	N. P. Sharman, Esq.	5	0	2	155	20·32
" (Croyland Abbey)	E. Sharman, Esq.	5	0	5	...	19·76
■ Thrapstone (Hargrave)	Rev. R. S. Baker	5	1	0	220 T	23·58
Watford Court	C. A. Markham, Esq.	5	1	0	...	22·28
■ Ravensthorpe (Coton Mill)	G. S. Eunson, Esq.	5	1	0	355	22·10
West Haddon	C. A. Markham, Esq.	5	1	0	...	22·61
Hazelbeech	" " " "	5	1	0	...	20·39
■ Kettering (Sewage Works)	T. R. Smith, Esq., C.E.	8	1	0	199 T	22·00
■ " (Queensberry Road)	P. Wallis, Esq.	8	1	3	300	21·00
■ " (Headlands)	C. W. Lane, Esq.	5	1	0	280	20·53
Welford (Salford House)	Mr. Wood	5	1	3	...	24·67
Rothwell	J. More, Esq., M.D.	8	1	2	300	18·72
Aldwinkle St. Peter	C. A. Markham, Esq.	5	1	0	...	19·25
Oundle	J. M. Siddons, Esq.	5	3	4	105 T	20·17
East Carlton	R. T. Greaves, Esq.	5	1	0	...	18·20
■ Corby (Weldon Grange)	J. Rooke, Esq.	8	1	0	342 T	19·66
■ Rockingham Castle	Mr J. H. Brown	5	4	4	400 T	20·58
Kingscliffe (Fineshade)	C. A. Markham, Esq.	5	1	0	...	19·80
Peterborough (Thorpe Hall)	Col. C. I. Strong	5	1	0	30 ?	19·27
■ Stamford (Collyweston)	Baldwin Latham Esq CE	5	1	0	315 T	17·91
" (Easton)	Miss Tasker	5	1	0	281 T	19·28
" (St. Martin's)	Mr. N. Day	5	0	9	271 T	19·25
Barnack (Walcot Park)	T. Booth, Esq.	5	6	0	107 T	19·18
■ Maxey Vic. [Market Deeping]	J. G. Dearden, Esq.	5	1	0	...	18·99
" " [" " " "] M	Rev. W. D. Sweeting ...	5	1	0	32 T	19·86
		5	1	0	32 T	19·75

DIVISION III.—SOUTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Dept. of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft.	in.	feet.	
HUNTS.						
d St. Neots (Waresley Park)	Lady C. Duncombe	5	0 11	190	23·91	133
d " (Great Paxton)	Rev. A. G. Cane	5	1 0	100 T	19·97	126
d Offord D'Arcy	W. Priestley, Esq.	5	0 9	50	21·77	...
d Huntingdon (Brampton)	Miss May Bird	5	1 1	39 T	23·41	150
d " (Bosworth House)	F. I. Howson, Esq.	5	0 11	...	20·18	123
d Alconbury	Rev. R. Conway	5	1 0	...	19·10	154
d Whittlesea Mere	A. Lunn, Esq., C.E.	8	1 6	...	19·66	143
d Yaxley (Norman Cross)	Mr. W. Allen	8	1 0	106 T	21·47	154
BEDFORD.						
Luton (Pumping Station).....	A. J. L. Evans, Esq., C.E.	5	1 0	343 T	24·86	123
d " (Hart Hill)	W. H. Brown, Esq.	5	5 0	520	26·42	142
d Ampthill (Higham Bury)	E. J. Jekyll, Esq.	5	1 0	310 T	22·79	156
" (Silsoe)	H. Trethewy, Esq.	5	1 0	214 T	26·94	133
" (Wrest Park)	Mr. G. Ford	5	1 1	...	25·73	...
d Aspley Guise (Oaklands)	E. E. Dymond, Esq.	5	1 0	410 T	22·36	153
Woburn (Crawley Farm)	C. H. B. Cave, Esq.	5	3 8	300	21·46	110
d Stotfold [Baldock]	Dr. Swain	5	1 0	220 T	26·47	158
d Woburn (Hulcote Rectory)	Rev. B. Chernocke Smith	5	1 0	310	21·46	124
Biggleswade (Old Warden)	Mr. G. R. Allis	8	1 2	...	25·86	132
d " (Caldecote)	Rev. M. E. Ruston	5	0 10	...	19·81	137
d Potton (Wrestlingworth)	H. J. King, Esq.	5	1 0	...	21·74	144
" Vicarage	Rev. G. E. Gwynne	5	0 10	145	21·44	...
d Sandy (The Lodge)	Rt. Hon. Lord Peel	5	1 0	...	22·04	142
d Bedford (The Grove)	W. B. Graham, Esq.	5	1 0	108 T	21·95	135
" (St. Peter's Street)	W. Godfrey, Esq.	5	1 2	114 T	20·63	...
" (Milton Ernest)	F. Newbery, Esq.	5	5 0	137 T	23·47	122
CAMBRIDGE.						
d Odsey [Royston]	H. G. Fordham, Esq.	5	1 0	256 T	23·82	162
d Abington Pigotts [Royston]	W. G. F. Pigott, Esq.	8	0 8	130	22·45	147
Carlton	G. H. Long, Esq.	5	1 0	340 T	23·95	142
" (Hall)	A. S. Nice, Esq.	5	1 6	...	23·88	144
Trumpington	F. Parsons, Esq.	5	1 0	50	23·37	152
d " (Gilmerton)	S. Nutter, Esq.	8	0 9	...	21·15	155
Granchester Mill	H. G. Fordham, Esq.	5	5 0	31 T	22·90	148
d Cambridge (Fulbourne Pmpng Sta.)	W. W. Gray, Esq., C.E.	5	1 0	37 T	23·31	156
" (Asylum)	Dr. E. C. Rogers	28·20	116
d " (W. W. Cherryhinton)	W. W. Gray, Esq., C.E.	5	1 0	35 T	21·08	150
d " (Sidney Street)	W. E. Pain, Esq.	8	60 0	92 T	22·33	175
d " (Pinehurst)	C. F. Foster, Esq.	0 10	36	22·84	177
d " (Trinity College)	Registrar Gen. Returns	8	4 0	40	22·41	161
d† " Observatory	Sir R. S. Ball, F.R.S.	5	1 0	84 T	22·86	135
d Quy Hall	" " " " "	8	0 10	84 T	22·72	134
Cottenham (Bernard House)	Mrs. Francis	5	0 5	61	22·72	152
d Ely (Stretham)	A. Bull, Esq.	5	3 6	30	21·11	...
d " (,, Ferry)	Mr. J. Housley	9	4 9	13 T	18·04	123
	Mr. C. Wright, Junr.	8	5 0	...	18·69	132

DIVISION III.—SOUTH MIDLAND COUNTIES—(continued.)

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above SeaLevel		
			ft.	in.	feet.	inches.
CAMBRIDGE—(con.)						
Mepal Engine	H. G. Fordham, Esq.	20	6	25	14·70	111
Littleport (Highfield House)	H. G. Martin, Esq.	8	2	7	67 T	19·61
Chatteris (Aylesby House)	A. H. Ruston, Esq.	8	0	6	45 ?	20·64
D " (The Priory)	H. F. Fryer, Esq.	5	0	7	45	21·24
" (Horseway Lock)	A. Lunn, Esq., C.E.	8	15	0	...	17·45
Stanground Sluice	" "	8	1	6	...	18·54
March	" "	9	2	0	...	21·19
* " (Stags Holt)	W. C. Little, Esq.	5	1	0	11 T	20·25
Upwell (Marmont Priory Lock)	A. Lunn, Esq., C.E.	8	1	1	...	16·25
" (Euximoor House)	H. West, jun., Esq.	5	0	8	15 ?	18·08
D Thorney	T. R. S. Lyster, Esq.	8	3	6	9	17·38
" (Wryde House)	The Royal Meteor. Soc.	5	1	0	11 T	20·50
D Wisbech (Bank House)	A. Peckover, Esq.	8	0	8	6	20·94

DIVISION IV.—EASTERN COUNTIES.

ESSEX.

D Grays	A. C. James, Esq., C.E.	8	2	3	12 T	17·55	143
D Orsett	W. Powell, Esq.	8	18·00	123
D Barking Outfall	A. R. Binnie, Esq., C.E.	8	0	6	6 T	17·32	138
D Shoeburyness	The Asst. Super. Expts.	8	2	6	3	16·20	142
D West Ham (Abbey Mills)	A. R. Binnie Esq., C.E.	8	1	0	11 T	18·78	131
Barking Burial Ground	C. H. Mills, Esq.	5	1	0	...	18·81	111
D Southend (Water Works)	C. S. Bilham, Esq.	8	1	0	112 T	19·38	145
D " (" , " , Eastwood)	" " " "	8	1	0	50 T	17·68	128
D Romford (North Ockendon)	Rev. R. T. Crawley ...	5	1	3	100 T	18·73	119
Manor Park (Albany Road)	A. J. Wilmhurst, Esq.	5	3	0	...	16·74	...
Ilford (Great Gearies)	Mr. J. Douglas	5	1	0	120	16·69	...
D Upminster Hall	Captain Swinton	5	1	0	120	19·04	134
D Walthamst'w (Prospect Hill Ledge)	J. E. Goodchild, Esq.	5	1	3	140 T	20·98	135
(Ferry Lane)	W. B. Bryan, Esq., C.E.	8	1	0	...	19·35	125
D Woodford (Hagger Lane)	" " " "	8	1	0	176 T	18·60	124
D Billericay (Burghstead Lodge)	General Branfill	5	1	0	310 T	20·12	133
D Havering (The Hall)	Mrs. Pemberton-Barnes	5	1	0	...	18·71	146
D " (Grange)	G. P. Hope, Esq.	5	1	0	255 T	19·13	150
Buckhurst Hill	W. B. Bryan, Esq., C.E.	8	34	0	3·5 T	17·26	123
D Chingford Mill	" " " "	8	1	0	40 T	19·24	105
Brentwood (Sawyers Hall)	Rogers Field, Esq., C.E.	5	1	0	270 T	19·81	...
Loughton (High Beech)	W. B. Bryan, Esq., C.E.	8	1	0	376 T	18·52	136
D Waltham Abbey	" " " "	8	1	0	62 T	20·78	135
" (Gunpr. Factory)	The Superintendent ...	5	1	6	70	20·06	...
Epping (The Hemnalls)	J. Nicholl, Esq.	8	0	8	345	23·82	106
D Bradwell-on-Sea (Bradwell Hall)	J. C. Chillingworth, Esq.	5	1	1	27	18·97	106
" (Down Hall)	R. Page, Esq.	5	1	0	20	20·46	134
Maldon	T. Isaac, Esq.	5	0	2	100 T	21·01	140
D Writtle (Melbourne)	E. Rosling, Esq.	5	0	6	140 T	16·69	130
"	Miss Usborne	5	3	1	...	19·01	104
Chelmsford (High Street)	F. Chancellor, Esq.	8	1	0	86 T	17·45	105

DIVISION IV.—EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above SeaLevel		
		ft.	in	feet.	inches.	1895
ESSEX—(con.)						
Chelmsford (The Limes)	The Royal Meteor. Soc.	5	1	0	135	18·91
" (Roxwell)	R. W. Christy, Esq.	5	1	0	190 \ddagger	18·04
" (Broomfield)	W. Impey, Esq.	5	1	4	144 \ddagger	17·30
Hatfield Peverel (Cardfields)	A. Rosling, Esq.	8	1	2	70 \ddagger	18·03
d East Mersea Rectory.....	Rev. F. J. Ball	5	1	0	56 \ddagger	18·97
d Harlow (Sheering)	Rev. Canon Hill.....	5	1	0	214 \ddagger	19·85
Witham (Little Braxted Hall)	J. Taber, Esq.	5	1	0	50	19·45
"	J. Wakelin, Esq.	5	0	8	...	20·55
" (Rivenhall)	Rev. F. Bridges.....	5	1	0	138 \ddagger	19·18
Colchester (Surrey Villa)	J. C. Hopwood, Esq.	5	1	0	110 \ddagger	19·21
d "	H. Goodyear, Esq., C.E.	8	16	10	82 \ddagger	19·90
d " (Hill House, Lexden)	S. F. Hurnard, Esq.	5	1	0	90 \ddagger	17·77
" (" ")M	" " " "	5	1	0	90 \ddagger	17·82
d " (Home Farm, " ,)	Mr. W. Bird	5	1	0	125 \ddagger	17·99
d Braintree (Bocking, Fennes).	H. S. Tabor, Esq.	5	1	0	240 \ddagger	18·30
" (Place)	S. Courtauld, Esq.	8	2	3	212 \ddagger	19·32
Dunmow (Saling Grove)	Capt. J. Nicolls Harrison	8	0	11	290	16·91
Earls Colne (Chalkney House)	H. F. Hills, Esq.	5	1	0	180 \ddagger	19·44
†Harwich (Ramsey)	A. Hempson, Esq.	5	0	6	150	20·17
Halstead	The Royal Meteor. Soc.	5	1	0	144	18·60
d Manningtree Vicarage	Rev. W. Cree	8	1	0	17 \ddagger	19·10
d Dedham	W. H. Penrose, Esq.	10	1	3	40	20·72
Langham Rectory	Rev. T. S. Raffles	5	0	7	134	22·46
d Saffron Walden (Newport)	Rev. G. F. Tamplin	5	3	6	220 \ddagger	22·60
d " "	S. Leverett, Esq.	5	1	0	199 \ddagger	23·21
d " " (Audley End)	Mr. J. Vert	5	1	0	155 \ddagger	22·58
SUFFOLK.						
d Erwarton Hall [Harwich]	J. A. Hempson, Esq.	8	0	6	75	18·16
d Ipswich (Woolverstone Park)	C. H. Berners, Esq.	8	1	0	100 \ddagger	18·91
d " (Orwell Park)	Mr. J. Wallis	8	1	0	60 \ddagger	21·25
d " (Belstead Hall)	A. Harwood, Esq.	8	1	6	120 \ddagger	18·64
d Alderton Rectory	Rev. C. G. Archer	8	2	2	...	19·52
d Hollesley (Shingle Street)	Mr. J. G. S. Nops	5	2	2	...	17·69
d Sudbury (Friars Street)	E. Ransom, Esq.	5	1	7	93 \ddagger	19·83
d " (Newton Road)	J. Alexander, Esq.	5	1	2	130 \ddagger	19·75
† Ipswich (Bishop's Hill)	G. A. Biddell, Esq., C.E.	5	1	0	104 \ddagger	19·24
d " (Burwood)	S. Alexander, Esq.	5	1	0	150	19·79
d " (Clare Lodge)	E. R. Turner, Esq., C.E.	5	1	0	178 \ddagger	20·25
d Cavendish	S. J. Garrett, Esq.	5	1	0	...	23·51
Lavenham Hall	W. Biddell, Esq.	5	1	11	220	20·06
d Woodbridge (Co. Asylum, Melton)	Dr. Eager	8	1	4	100 \ddagger	20·89
d " (The Cedars, " ,)	W. P. T. Phillips, Esq.	5	1	0	54	23·35
d Rendlesham Hall	Rt Hon Lrd. Rendlesham	5	1	0	88 \ddagger	20·45
d Haverhill (Great Thurlow)	A. Boa, Esq.	5	1	0	241 \ddagger	22·77
Clare (Stansfield)	J. Slater, Esq.	5	1	0	...	24·61
d " (Hawkedon Rectory)	Rev. B. P. Oakes	5	3	4	305 \ddagger	23·39
Ash Bocking Vicarage.....old g	Rev. M. B. Cowell	5	7	3	231 \ddagger	17·04

DIVISION IV.—EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.
		Diameter	Height Above Ground	Height Above SeaLevel	
			ft. in.	feet.	inches.
SUFFOLK—(con.)					
Ash Bocking Vicarage ... new g.	Rev. M. B. Cowell.....	5	3 4	231 $\frac{1}{2}$	16·53
D Aldborough (Aldringham Ho.)	F. Garrett, Esq.....	8	4 5	50 B	18·74
D Great Glenham	Col. Bloomfield	5	0 10	80 T	21·01
Ickworth Park	Mrs. Wood	5	1 0	250	24·49
D Framlingham (Mount Pleasant)	Mr. R. Whitehead.....	5	1 2	125	20·81
D Little Saxham.....	Rev. H. J. Kilner	8	0 10	220	22·49
D Bury St. Edmunds (Abbeygate St.)	Mr. O. A. Clark	5	65 0	...	17·51
D " " (Westley) new g.	R. Burrell, Esq.....	5	1 0	226 $\frac{1}{2}$	23·78
" " (Hengrave)	Mr. W. Nichol	5	1 2	91	22·27
D Baconsthorpe	C. H. Woods, Esq.	5	1 6	186 T	21·00
D Darsham (Sibton Vicarage)	Rev. J. L. M. Moore..	5	1 0	86	18·40
D Ixworth (Walsham-le-Willows)	Miss M. C. Martineau..	5	1 0	...	23·73
Stradbroke Rectory	Rev. Canon Tate	5	1 3	172 T	22·37
Ixworth (Barningham)	Miss A. K. Lingwood..	8	1 0	136	19·55
D Beccles (Sotterley Hall)	Col. St. J. Barne	5	... 0	...	24·78
D " (The Staith)	Clifford Smith, Esq.	5	4 6	...	21·81
D Lowestoft (Brym-y-Môr)	S. H. Miller, Esq.	5	1 0	86	22·68
" (The Clyffe, Corton)	J. J. Colman, Esq.	8	1 0	86	22·21
" (Somerleyton Rect.)	The Royal Meteor. Soc.	5	1 0	62	23·11
Fritton	H. E. Buxton, Esq.	8	1 0	50	15·1
		8	0 8	40	20·52
		8	0 8	40	14·9
		8	0 8	40	21·31
		8	0 8	40	16·0
NORFOLK.					
D Scole Rectory	Rev. F. Page Roberts..	5	1 0	90	20·59
D Diss	late T. E. Amyot, Esq.	5	1 0	96	23·24
D Harleston (Rushall Vicarage)	Rev. C. Gape	5	1 1	117 $\frac{1}{2}$	15·2
D Santon [Brandon]	Rev. A. M. Gathercole..	5	0 10	...	23·54
Ellingham [Beccles]	H. Youngman, Esq.	5	3 0	...	17·6
D Geldeston []	E. T. Dowson, Esq.	5	1 0	38 $\frac{1}{2}$	22·46
" []	R. Dashwood, Esq.	8	1 0	38 $\frac{1}{2}$	16·8
D Saxlingham Nethergate	Mrs. Pitt	8	1 2	...	23·03
D Loddon (Bergh Apton Rectory)	Rev. T. F. Lloyd	8	1 2	...	15·2
D Wymondham	E. B. Pomeroy, Esq....	8	1 3	118 $\frac{1}{2}$	16·1
D Watton	R. Martin, Esq.	5	1 0	166 T	24·76
Hingham	T. W. Dobbs, Esq.	5	1 1	188	25·25
Norwich (Dunston Hall)	Rev. Canon Du Port.. 0	...	12·6
D Denver	" " "	8	1 0	80 $\frac{1}{2}$	28·73
D Stoke Ferry (Wereham)	Miss Mason	5	6 0	66	22·12
D Cantley (Manor Farm)	W. S. Horn, Esq.	5	1 0	50	27·19
D Wymondham (Hethersett)	Mrs. Pinwill	6	1 3	163	22·04
D Swaffham (Pickenham Hall)	H. Applewhaite, Esq....	5	1 0	104 $\frac{1}{2}$	13·0
Outwell Sluice	A. Lunn, Esq., C.E.	9	... 0	16	28·10
Emneth	F. M. Bland, Esq.	6	1 0	6	18·99
Yarmouth (Sailors' Home)	The Meteor. Council ..	8	4 0	12	20·82
D " (Market Place) new g.	W. C. Steward, Esq....	5	1 0	...	23·26
D " (Halvergate Hall)	H. S. Gillett, Esq.	5	3 3	48 $\frac{1}{2}$	18·2
D Norwich (Postwick)	Miss Cross	5	1 1	5	21·53
		5	1 1	5	16·1

DIVISION IV.—EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above SeaLevel		
		ft.	in.	feet.	inches.	1895
NORFOLK—(con.)						
d Norwich (Carrow House)	J. J. Colman, Esq.	5	1	6	35 $\frac{1}{2}$	23·87
d† „ (Brundall)	A. W. Preston, Esq.	5	1	0	66 $\frac{1}{2}$	24·91
+ „ (Thorpe High House)	W. Birkbeck, Esq.	5	1	0	137 $\frac{1}{2}$	24·29
d „ (Essex Street)	F. Dix, Esq.	9	2	6	88 $\frac{1}{2}$	25·17
d „ (Ipswich Road)	J. H. Willis, Esq.	8	1	0	110	26·19
d „ (Newmarket Road)	G. J. Hotblack, Esq.	8	1	2	89	27·72
d „ (Heigham)	J. R. Everitt, Esq.	5	3	2	37 $\frac{1}{2}$	25·17
„ („ Hall)	Dr. Compton	5	1	0	...	25·01
Acle	F. Cufaude, Esq.	5	0	6	51	22·54
d* Swaffham (London Street)	H. R. Heyhoe, Esq.	5	1	10	247 $\frac{1}{2}$	24·91
d „ (Homewood)	W. H. Plowright, Esq.	5	5	0	250 $\frac{1}{2}$	24·65
d Sprowston (Oak Lodge)	F. Everett, Esq.	5	4	0	...	22·73
East Dereham	T. Cozens Hardy, Esq.	5	1	0	101 $\frac{1}{2}$	26·67
d Drayton	Rev. Canon Du Port	28·50	177
d Swaffham (Dunham)	Miss Howell	5	1	2	50	24·13
d Salhouse	A. G. Copeman, Esq.	5	1	1	320	24·87
Wiggenhall (Outlet Siphons)	Rev. T. F. Boddington	8	1	8	50	26·48
d Tilney St. Lawrence (Aylmer Hall)	A. Lunn, Esq., C.E.	8	1	6	...	20·55
d Bylaugh Park Gardens	W. B. Parsons, Esq.	8	1	0	9	20·89
d Reepham (Whitwell)	Mr. G. Beeton	5	1	0	130 $\frac{1}{2}$	25·90
Cawston	F. W. Freeman, Esq.	8	2	0	120	24·40
Aylsham (Woodgate)	Rev. T. H. Marsh	5	1	0	135 $\frac{1}{2}$	24·41
d North Walsham (Dilham)	B. J. W. Purdy, Esq.	5	1	0	100 $\frac{1}{2}$	25·32
d „ (Worstead)	Rev. J. A. Lawrence	5	0	8	...	25·82
Hillington Rectory	R. Cross, Esq.	8	1	0	...	28·19
d† School	Rev. H. Ffolkes	8	1	0	89 $\frac{1}{2}$	26·43
Fakenham (Pensthorpe)	W. Hamond, Esq.	5	3	6	94 $\frac{1}{2}$	26·87
Dersingham Vicarage	Rev. E. W. Penny	5	2	6	153	23·11
d Fakenham (Cranmer Hall)	Sir L. J. Jones, Bart.	5	1	0	85	27·66
d Cromer (Northrepps)	Rev. Canon Du Port	5	0	4	...	24·87
Holt Lodge	E. Knight, Esq.	5	1	3	210	27·79
d „ (Field Dalling)	J. H. Pearson, Esq.	5	1	0	...	23·58
Holkham	J. Davidson, Esq.	12	4	0	39	18·47
d Blakeney	Rev. Canon Du Port	8	1	0	35	19·15
		21·99	165

DIVISION V.—SOUTH WESTERN COUNTIES.

WILTS.

d Larmer Grounds [Shaftesbury]	General Pitt Rivers, FRS	5	3	0	500 $\frac{1}{2}$	31·43	135
d Rushmore [Shaftesbury]	„ „ „	5	3	0	500 $\frac{1}{2}$	32·45	156
d Landford (Northlands)	Mrs. Wigram	5	1	10	167 $\frac{1}{2}$	26·77	147
d Donhead St. Mary (Charlton Ho.)	Col. G. Best	5	0	7	514	32·65	168
Broad Chalke	Rev. T. N. Hutchinson	5	1	0	300	29·32	158
d† Salisbury (Alderbury)	Rev. R. S. Hutchings	5	0	8	263 $\frac{1}{2}$	27·83	152
d† „ (West Dean)	Rev. W. L. W. Eyre	5	1	0	137 $\frac{1}{2}$	27·42	161

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DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which 1 or more fell
		Diameter.	Height Above Ground	Height Above Sea Level		
		ft.	in.	feet.	inches.	1895
WILTS—(con.)						
D Salisbury (Milford Hill)	J. Lardner Green, Esq.	8	1 0	246 T	29·50	110
" (St. Nicholas)	Rev. A. P. Morres	5	1 0	...	27·07	...
+ " (Wilton House)	T. Challis, Esq.	8	0 5	180 T	28·72	175
Winterslow	J. King, Esq.	5	27·62	147
+ Mere (Dews House)	J. Farley Rutter, Esq.	5	1 7	...	34·57	143
+ " Vicarage	Rev. J. A. Lloyd	5	3 0	350	30·67	...
† Down	T. H. Baker, Esq.	5	1 0	702 T	37·66	191
+ Maiden Bradley	Lord Percy St. Maur ..	8	1 6	626 T	40·82	174
D Warminster (Rye Hill)	S. E. Jefferys, Esq.	8	2 0	466 T	36·34	192
Salisbury Plain (Chitterne House)	R. Hayward, Esq.	11	4 0	319 T	27·09	157
D Warminster (Downside)	Mrs. Stent	8	2 3	393	30·30	172
D Amesbury (Figheldean)	G. Knowles, Esq.	5	1 0	260 T	26·25	171
Ludgershall	Rev. W. H. Awdry ...	8	0 8	422 T	29·61	163
D " (Collingbourne Kingston)	Mr. E. G. Drew	5	1 0	470 T	26·22	144
D Market Lavington	Mr. T. Selfe	5	3 6	300	30·44	154
D Trowbridge (Water Works, Biss)	W.W. Gray, Esq., C.E.	5	1 0	311	31·73	142
" (Steeple Ashton Vic.)	Rev. J. Bond	5	1 0	240 T	30·07	164
D " (Wingfield)	T. H. Clark, Esq.	5	1 0	190 T	29·66	154
D " (Rodney House) ...	W. J. Mann, Esq.	5	1 1	140	26·15	154
Bradford (The Chantry)	Dr. Beddoe, F.R.S. ...	6	0 9	125	28·91	170
D " (Holt)	A. J. Beaven, Esq. ...	5	1 2	120	27·92	181
D Devizes (Wilts Co. Asylum) ...	Dr. Ireland Bowes....	8	2 3	385 T	27·90	152
Buttermere	Rev. W. E. Burkitt ...	5	4 9	850 ?	34·58	172
Shalbourne	Mrs. Barns	5	1 0	...	29·18	151
D Bishop's Cannings	Rev. C. W. Hony	5	1 0	446 T	32·60	168
Devizes (Shepherd's Shore)	Mr. J. Carter	5	1 6	555	29·35	162
D Chippenham (Lacock)	Miss Awdry	5	0 11	202	30·40	174
D Marlborough (Preshute House)...	G. E. Mew, Esq.	5	0 9	...	33·53	153
" (Mildenhall)	The Roy. Meteor. Soc.	5	1 0	450	31·56	162
D Calne (High Street)	Rev. G. Soames	5	1 0	456	30·10	155
D " (Compton Bassett)	Mr. H. Wilkins	5	3 6	244	29·21	181
Yatesbury	Mr. W. A. Cook	8	1 0	395 T	30·49	173
Ramsbury (The Rookery)	Rev. E. D. Guillebaud.	5	3 6	564 T	30·65	146
D Swindon, New	H. J. Southwell, Esq.	8	0 11	378	27·01	177
Malmesbury (Charlton Cott.) ...	Lady Victoria Howard	8	1 0	...	32·59	125
Highworth (Hannington Hall)...	A.D. Hussey-Freke, Esq	5	1 0	400	24·97	140
D Ashley Rectory [Tetbury]	Rev. M. Church	0 10	460 T	30·46	154
DORSET.						
D Portland (The Manse)	Rev. W. R. Waugh ...	5	1 6	10	27·86	158
Weymouth (Wyke Regis)	Mrs. Pretor	5	0 9	80 B	29·02	149
Swanage (Gordon Villas)	F. A. Burt, Esq.	5	3 0	65 T	27·45	133
" (Langton Herring) ...	Rev. H. Pix	5	2 0	60	29·82	164
D Corfe Castle (Creech Grange) ...	The Royal Meteor. Soc.	5	1 0	79	27·38	151
D " (Furzebrook)	Rev. C. H. Gosset	5	1 0	158 T	30·45	151
D " (Furzebrook)	Mr. T. Tyler	5	1 2	200	34·81	118
D " (Furzebrook)	L. W. Pike, Esq.	5	1 2	147 T	32·93	133

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which 0.1 or more fell.
		Diameter	Height Above Ground	Height Above SeaLevel		
		ft.	in.	feet.	inches.	1895
DORSET—(con.)						
d Portisham	W. Symes, Esq.....	5	1	3	260	33·47
d Winterbourne St Martin.....	Capt. Acland	5	1	0	260 T	40·56
d Winterbourne Steepleton.....	H. Stilwell Esq.	8	1	0	316 T	38·83
d Wareham (Castle Gardens)	S. W. Bennett, Esq.	5	2	6	18	31·86
(Binnegar Hall)	O. C. Farrer, Esq.....	5	1	0	65	30·57
Poole (West Street)	F. Styring, Esq.	5	1	2	6	25·27
d ,, (The Yarrells)	,,	5	1	1	60 T	28·04
,, (Hamworthy)	J. M. Henderson, Esq.	5	1	6	12	26·95
d ,, (Parkstone)	R. H. Barnes, Esq.	5	0	11	198 T	29·18
d Bridport (Portville)	H. Gordon, Esq., C.E.	5	1	0	10 T	31·40
d ,, (Coneygar)	,,	5	1	0	110 T	31·81
d Bere Regis Vicarage	Rev. W. Farrer.....	5	1	0	160	30·94
,, (Bloxworth Rectory)	Rev O.P.CambridgeFRS	8	1	3	200	32·86
d ,, { House)	Col. Cambridge	5	2	0	100	30·18
,, (Whitelovington)	F. D. Lys, Esq.	8	2	6	150	31·69
d Maiden Newton (Cattistock Lodge)	H. Hamilton Palairet Esq	5	1	0	350	39·39
d Wimborne (Rowlands)	General Maclean	5	2	6	110 T	28·04
d Beaminster Vicarage	Rev. A. A. Leonard ...	5	1	0	216 T	36·40
d Blandford (Whatcombe)	J. Mansel-Pleydell, Esq.	5	0	10	270 T	32·74
d Blackdown House	C. E. M. Pinney, Esq.	5	0	9	515	35·07
d Cerne Abbas (Melbury)	Mr. R. Rintoul	5	1	4	500	34·86
d Beaminster (Chedington)	S. Creed, Esq.	5	1	6	604 T	39·64
d* Wimborne Minster (Chalbury)	Rev. G. H. Billington..	5	2	0	338 T	29·12
Hazelbury Bryan Rectory	Rev. Canon Wheeler...	5	1	0	305 T	39·38
d Verwood	W. R. Fryer, Esq.	5	3	0	...	29·65
d Sturminster Newton (Riverside)	A. R. Hallett, Esq.	5	1	0	200	27·52
d Buckhorn Weston	Rev. W. Hughes D'Aeth	5	1	0	285	27·14
d Gillingham	S. H. Stephens, Esq....	5	1	2	244 T	29·84
DEVON.						
Salcombe (Prawle Point)	The Meteor. Council ...	8	1	9	350	32·36
d ,, (Shadycombe)	Mr. T. Langmead	8	1	2	20	37·38
South Huish	W. Balkwill, Esq.	5	5	6	68 T	37·07
d Revelstoke (Memblond)	Mr. G. Baker	5	1	0	180 T	38·31
d Dittisham (Chipton)	Mr. H. Bond	5	1	6	342	44·64
d Plymouth (The Hoe)	H. V. Prigg, Esq., C.E.	8	0	10	117 T	37·76
d ,, (Freedom Field)	,,	8	0	10	208 T	39·45
,, (Drake's Reservoir)	E. Sandeman, Esq., C.E.	5	1	0	119 T	38·86
d* Devonport (Rowdens Res.)	H. Francis, Esq., C.E.	5	1	0	201 T	35·53
d Ivybridge (Langham Hill)	Miss Glanville	5	1	0	400 T	49·52
,, (Blackadon Asylum)	H. V. Prigg, Esq., C.E.	5	1	0	607	53·83
Plympton (Hemerdon) ...garden	Rev. G. L. Woolcombe	5	4	0	360	43·49
,, (,,) tennis court	,,	5	1	0	365	46·02
Totnes (Pomeroy House)	D. A. Fraser, Esq., M.D.	5	1	6	70	44·36
Paignton (Sarsden Lodge)	Miss Searle	5	4	0	...	36·04
Bere Ferrers	Rev. F. T. W. Wintle.	5	1	0	100	45·31
Bickley (Roborough Reservoir)	E. Sandeman, Esq., C.E.	5	1	0	550 T	44·98
d Torquay (Cary Green)	C. Shapley, Esq.	5	1	0	12	34·37
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DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1895	Days on which .01 or more fell.
		Diameter	Height Above Ground ft. in.	Height Above SeaLevel feet.		
DEVON—(con.)						
Torquay (Chapel Hill)	A. Chandler, Esq.....	5	1 0	286	34·40	178
D " (Grey's Lodge)	Col. J. R. Currie	5	1 0	260	34·99	177
D " (Watcombe Park)	Col. C. Ichabod Wright	5	1 0	483 $\frac{1}{2}$	36·06	178
+Lee Moor Clay Works	T. Martin, Esq.....	8	1 6	900	59·22	...
Buckfastleigh (Bossel Park)	J. Hamlyn, Esq.....	5	1 0	250	58·17	178
+Sheepstor Vicarage	Rev. C. H. Crooke.....	5	0 7	730 $\frac{1}{2}$	52·48	...
+ " (Red Stone)	E. Sandeman, Esq., C.E.	5	1 0	760 $\frac{1}{2}$	56·36	182
+ " (Burrator)	" "	5	1 0	...	54·41	183
+ " (Head Weir)	" "	5	1 0	690 T	56·39	182
D Walkhampton (Lowery)	H. Francis, Esq., C.E.	5	1 0	890 T	49·85	168
+Dartmoor (Deancombe Farm)	E. Sandeman, Esq., C.E.	5	1 0	830 $\frac{1}{2}$	56·67	175
+ " (Leather Tor Farm)	" "	5	1 0	910 $\frac{1}{2}$	55·50	172
" " (Seward's Cross)	" "	5	1 0	1200	54·65	...
+ " (Leeden Tor)	" "	5	1 0	1270 $\frac{1}{2}$	50·52	...
D Kingskerswell (Fluder)	E. A. Foster, Esq.	5	1 0	357	31·10	162
Abbotskerswell (Court Grange)	Mrs. Marcus Hare	5	1 0	130 B	35·70	129
D Ashburton (Holne Vic.)	Rev. J. Gill	5	1 6	650	49·11	189
D+ " (Druid House)	Fabyan Amery, Esq.	5	1 0	572 T	53·37	180
D Kingsteignton (Teignbridge Ho.)	F. H. Plumptre, Esq.	5	1 2	27 $\frac{1}{2}$	36·81	145
Teignmouth (Bitton Street)	W. C. Lake, Esq., M.D.	5	1 0	70	32·99	...
D " (Woodlands)	W. B. Harris, Esq.	8	1 2	98 T	32·87	150
" " (Bonnicliff)	Capt. J. Horner	5	1 0	260 T	32·90	157
D+Tavistock (Public Library)	Mr. J. Quick	8	20 0	283 T	44·83	186
D " (Rose Villa)	E. E. Glyde, Esq.	5	1 0	392 $\frac{1}{2}$	47·79	189
D+Ilswington (Middlecott House)	Alfred Lyon, Esq.	5	3 6	649 T	49·65	150
Princetown (Cowsic Valley)	H. Francis, Esq., C.E.	8	1 6	1352 $\frac{1}{2}$	74·65	...
D Chudleigh (Ideford)	Rev. G. J. Ford	4	1 0	300 $\frac{1}{2}$	37·73	170
Bovey Tracey (Little Bradley)	Miss C. N. Phillpotts...	5	1 0	120	39·32	139
D " (Colehays)	Mr. E. E. Underdown.	5	1 3	415 T	49·44	173
+Milton Abbot (Endsleigh)	Mr. F. Yole	5	1 0	180 T	48·26	...
D Dawlish (Mamhead Rect.)	Rev. W. C. Plenderleath	5	1 0	467 $\frac{1}{2}$	42·25	192
D Chudleigh (Torquay Waterworks)	S. Ford, Esq.	8	4 0	718 $\frac{1}{2}$	45·54	191
Trusham)	Rev. O. H. Cary	5	1 0	322 T	40·90	172
D Budleigh Salterton (Ravenshaw)	Col. Carlile	6	0 6	50	30·05	137
D " (Bicton)	Mr. Mayne	5	1 0	90	31·25	153
D Kenton (Southtown House)	Major Courtenay	8	2 6	56 $\frac{1}{2}$	35·50	147
Coryton (Lew Down)	T. M. Symons, Esq.	5	4 0	445	52·83	160
D Polapit Tamar [Launceston]	R. C. Coode, Esq.	5	2 9	315 $\frac{1}{2}$	37·67	184
D Christow (Torquay W. W.)	S. Ford, Esq.	8	1 0	842 $\frac{1}{2}$	45·26	202
D Chagford (Batworthy)	F. N. Budd, Esq.	8	1 0	1282 $\frac{1}{2}$	62·73	162
+Sidmouth (Sidmount)	The Royal Meteor. Soc.	5	1 0	149 $\frac{1}{2}$	30·69	183
D Branscombe (Hazlewood)	E. W. Knatchbull, Esq.	5	0 6	...	33·57	148
D* Rousdon [Lyme Regis]	C. E. Peek, Esq.	5	1 0	516 $\frac{1}{2}$	31·73	162
* " ["]	" " "	3	1 0	516 $\frac{1}{2}$	29·78	...
D+Clevelands [Lyme Regis]	Mr. C. W. Bloye	5	1 11	465 $\frac{1}{2}$	33·58	145
Exeter (Devon & Exet. Inst.)	A. R. Allinson, Esq.	5	13 7	155 $\frac{1}{2}$	32·62	173
D+ " (Manston Terrace)	Miss Dymond	5	1 0	166 $\frac{1}{2}$	32·95	170
D+Okehampton (Oaklands)	W. H. Holley, Esq.	5	1 0	521 T	45·33	159

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1895	
		ft. in.	feet.	inches.		
DEVON—(con.)						
Axminster (Great Trill)	F. J. Sparks, Esq.....	5	1 0	300 T	33·40	128
†Exeter (Bramford Speke).....	Miss Gamlen	5	1 0	114 T	35·74	171
" (")	"	8	0 1	113 T	36·39	...
d Honiton (Ivedon)	Col. James	5	1 0	430 T	34·00	172
Hatherleigh (Broomford Manor)	Mr. Hawking	5	1 4	484 T	41·02	124
d Cullompton	T. Turner, Esq.	5	1 0	202 T	34·80	165
d Petrockstow (Heanton Satchville)	Mr. A. Eames	5	1 0	332 T	39·17	169
d Tiverton (St. Peter Street)	Miss Gill.....	5	6 0	270	37·71	184
d Otterford (Otterhead)	R. Lewis Lloyd, Esq.	5	1 0	735 T	38·93	184
d Torrington (Stevenstone)	Mr. W. Gillies	5	1 0	420	39·52	169
" (Little Silver)	S. H. Friend, Esq.....	5	1 0	395	38·66	154
d Bampton (Huntsham)	Mr. Payne	8	1 0	640	42·60	178
d Hartland Abbey.....	Mr. G. Sleep	5	1 6	222 T	36·46	150
d South Molton (East Street)	N.C. Hatherly, Esq. M.D	5	1 0	430 B	40·90	178
" (Castle Hill School)	The Royal Meteor. Soc.	8	1 0	363	39·77	188
d Bideford (Gammaton W. W.)	Baldwin Latham Esq CE	5	1 0	335 T	38·48	167
*† " (Horwood)	Rev. J. Dene	5	1 0	288 T	34·09	184
" (St. Helen's, Northam)	Miss L. Bowles	5	0 10	67 T	31·12	194
d*† " (Northam)	Rev. Preb. Churchward	5	1 0	173 T	32·17	163
Barnstaple Athenæum	T. Wainwright, Esq....	8	0 6	15 T	33·78	168
d " (Pilton)	Miss Hibbert	5	1 0	73	35·12	186
d " (Arlington Court)	Lady Chichester.....	5	1 1	613 B	51·47	186
d Woolacombe	E. Henshall, Esq., C.E.	5	1 0	60 T	29·62	153
Lynton (Parracombe)	Rev. J. F. Chanter ...	5	3 0	795 T	46·10	164
† Ilfracombe Hotel	The Royal Meteor. Soc.	12	9 0	35	29·62	160
"" new gauge	""	5	1 0	24	34·85	160
† Lynton (Lee Abbey)	C. F. Bailey, Esq.	5	0 6	320 T	36·61	...
d Lynmouth (Glenthorne)	W. Halliday, Esq.....	5	0 9	93	43·37	162
CORNWALL.						
Penzance (Morrabs)	Mr. C. H. Benn	5	1 0	55	41·46	186
" (Penlee)	J. Branwell, Esq.	5	1 0	71 T	43·05	193
" (Trevean)	Major Ross	5	1 6	90 B	44·71	223
d " (St. Clare)	Rev. Preben. Hedgeland	5	1 0	213 T	44·06	215
Marazion	T. W. Field, Esq.	5	2 0	30?	37·61	183
d St. Just-in-Penwith	Rev. G. B. Hooper	8	5 0	386	35·27	182
d Falmouth (New Observatory)	E. Kitto, Esq.	11	2 0	169 T	41·87	187
" (,,,)	""	8	1 9	169 T	41·93	179
" (Gillyngvase)	W. F. Fox, Esq.	50	38·69	183
d " (Carclew)	Mr. J. Simmons	5	0 9	...	45·73	157
d St. Ives (Phillack Rectory)	Rev. Canon Hockin ...	5	1 0	70	37·29	180
""	Dr. J. M. Nicholls.....	5	4 0	25	41·36	150
d Redruth (Trevince)	E. B. Beauchamp, Esq.	8	0 8	240 T	45·40	174
d " (Trewirgie)	S. Trevail, Esq.	5	1 0	400 T	45·09	...
d " (Tehidy Park)	Mr. A. Mitchell.....	8	1 1	287 T	39·48	181
Truro (Killow)	J. C. Daubuz, Esq.	5	1 0	230	36·41	...
d " (St. Michael Penkevil)	Rev. A. R. Tomlinson..	5	3 0	200 T	39·75	166

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1895	Days on which .01 or more fell.
		Diameter	Height Above Ground ft. in.	Height Above Sea Level feet.		
CORNWALL—(con.)						
†Truro (Royal Institution)	R. A. Greg, Esq.	5	40 0	56 T	40·53	182
d Probus (Lamellyn).....	H. Tresawna, Esq.	5	0 6	...	41·95	145
St. Agnes	Mr. Opie	5	1 3	278 B	38·77	148
d Fowey (Menabilly)	Mr. W. H. Bennett ...	5	1 0	250	39·80	157
d†*St Austell (Trevarna).....	W. Coode, Esq.	5	0 6	300 T	44·95	198
Par Station (Penellick)	W. E. Geach, Esq. ...	5	0 9	240 T	32·17	...
Empacombe [Devonport]	J. Sandercock, Esq. ...	5	0 6	20	35·79	172
d Cremyll [,]	Mr W E. Marchant...	5	20 0	25	33·78	182
d St. John's [,]	Rev. J. H. Kirwan....	5	1 0	20	39·52	179
d Lostwithiel (Lanwithian)	Miss Foster	10	1 0	80	40·91	179
d Newquay	A. Hardwick, Esq., M.D.	5	1 0	130	35·42	186
d† Liskeard (Dean Terrace)	S. W. Jenkin, Esq., C.E.	5	1 1	375 T	46·51	187
d „ (Wadeland Terrace) ..	Capt. L. J. Bateman...	5	0 9	270	51·39	191
d† Saltash (Pentillie Castle)	Mr. W. T. Johnson ...	5	2 4	150 B	47·07	167
d† Bodmin (Lanhydrock)	Rev. Prebendary Every	5	1 0	390	46·95	213
Liskeard (St. Cleer Down)	S. W. Jenkin, Esq., C.E.	5	1 1	620	44·92	...
Callington (Hingston Down) ..	Mr. Wadge	5	3 0	850 T	45·63	192
d† Launceston (Altarnon)	Rev. A. H. Malan	5	1 0	570 B	57·11	197
„ North Tamerton (Ogbeare)	Captain L. Ching	5	0 10	446	43·82	162
d Bude	Mr. J. S. Bray	5	4 0	460	40·31	187
d Stratton (Trelana, Poughill) ..	J. Arthur, Esq.	5	1 0	16 B	32·56	130
„ („ „)	Col Field	5	1 0	200 T	36·94	183
	„ „ „	5	1 0	230	37·09	...
SOMERSET.						
Chard (Cricket St. Thomas)	RtHn. Viscount Bridport	5	1 0	444	38·48	125
d Crewkerne (Bincombe House) ..	F. J. Sparks, Esq.	5	1 2	250 T	33·70	129
d Yeovil (West Coker)	Major Aldworth	5	1 0	260 T	32·30	179
d „ (Hendford)	J. Curtis, Esq.	5	1 0	132 T	30·58	145
d „ (Gas Works)	E. Howell, Esq.	5	1 0	110 T	29·15	137
d Ilminster (White Lackington) ..	Rev. Prebendary Gowring	5	1 0	136 T	33·67	164
d „ (Ilton Vicarage)	Rev. R. B. Poole	5	1 0	100 T	30·09	173
d South Petherton (Bridge)	W. Blake, Esq.	8	0 8	110 T	29·79	159
Taunton (Blagdon Hill)	H. T. Coles, Esq.	8	33·47	133
(Leigh Hill)	„ „ „	8	33·30	133
d Wellington (Windwhistle House)	Mrs. Lyndon	5	0 8	300 T	33·79	165
d „ (The Avenue)	F. J. Burnett, Esq. ...	5	0 10	250 T	32·31	158
Sandford Orcas Rectory	Rev. W. Esaile	5	1 0	200	28·60	125
d Temple Combe (Stowell Rect.) ..	Rev. H. J. Poole	8	1 0	376 T	31·93	193
d Taunton (Claremont)	E. Ball, Esq.	8	1 2	80 T	28·17	158
d Milverton (The Lodge)	R. Bere, Esq.	5	1 0	198	35·70	163
d Taunton (The Mount, Halse) ..	Miss Smith	5	1 1	254	34·21	199
d „ (The Priory, Ash Priors) ..	R. E. Jackson, Esq. ...	5	1 0	...	31·90	174
d Wincanton	Rev. Walter Farrer ..	8	1 0	240	31·86	172
Cothelston House	C. E. J. Esaile, Esq. ...	5	1 0	430	37·86	175
d Somerton (Butleigh Court)	R. Neville Grenville Esq.	8	1 2	80	30·77	137
Glastonbury (Portway, Street) ..	Miss E. C. Impey	5	21 8	...	26·36	...
„ (Street)	W. S. Clark, Esq.	8	1 0	100	30·00	181

DIVISION V.—SOUTH WESTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter.	Height Above Ground.	Height Above Sea Level		
		ft.	in.	feet.	inches.	1895
SOMERSET—(con.)						
Glastonbury (High Street)	J. Spire, Esq.	8	7 0	94 $\frac{1}{2}$	31.91	175
d " (Ynyswytryn)	Major Swayne	5	1 8	245 T	32.35	173
d " (Magdalene House).	J. G. L. Bulleid, Esq.	5	1 6	52 T	30.69	161
Bridgwater (Emore Park)	T. P. Broadmead, Esq.	8	1 9	268	32.64	...
" (Nurseries)	H. Corder, Esq.	5	1 0	...	28.11	148
d " (Ashford)	F. Parr, Esq., C.E.	28.22	153
d Shepton Mallet (Charlton)	F. H. Berryman, Esq..	5	0 7	480 T	39.04	128
d Dunster (Knowle)	Worsley Battersby, Esq.	5	1 4	269 T	36.43	142
Minehead	Rev. J. Utten Todd ...	5	1 0	50	33.75	156
d Cranmore (Cranmore Hall)	Sir R. H. Paget, Bt., M.P.	8	1 0	600	38.99	178
d Frome (Mells Rectory)	Mrs. Horner	5	1 0	344 $\frac{1}{2}$	34.44	174
Radstock (Downside College)	Rev. O. J. Berkeley ...	8	1 0	596 T	41.34	158
Chewtown Mendip (The Priory) ...	Mr. J. Batt	5	1 5	550 T	44.96	178
Ston Easton	H. E. Hippisley, Esq..	5	3 0	480 $\frac{1}{2}$	37.72	172
Axbridge (Cross)	R. Binns, Esq.	5	0 9	100 ?	30.92	...
E. Harptree (Sherborne Reservoir)	Bristol Water Works...	5	1 0	338 T	35.56	168
d " (Harptree Court) ...	W. W. Kettlewell, Esq.	5	1 0	346 $\frac{1}{2}$	39.26	166
Axbridge (Loxton)	Rev. J. G. Tiarks	8	1 0	120	37.63	148
" (Winscombe Court) ...	Rev. R. F. Follett	8	1 0	180 T	33.43	141
Radstock (Paulton House)	H. L. L. Macdonald, Esq.	5	1 0	384 $\frac{1}{2}$	34.57	157
" (High Littleton)	Rev. A. M. Foster	5	0 10	442 $\frac{1}{2}$	31.82	172
d Pensford (Sutton Court)	Sir E. Strachey, Bt.	8	1 0	280	37.28	183
Weston-super-Mare (High St.)	The Royal Meteor. Soc.	5	1 0	20	27.95	127
d " " (Beaufort Rd.)	W. A. Fussel, Esq.	8	5 0	18 T	31.48	161
d " " (Worle Vic.)	Rev. W. F. Rose	5	1 0	16	32.63	169
d Wrington (The Rectory)	Rev. G. M. Ashdown....	5	5 0	68	37.08	149
" (West Hay)	Gen. Harrison	5	2 0	95	32.86	157
Chew Magna	Bristol Water Works...	5	1 0	160 T	33.16	166
d Bath (Royal Institution)	W. J. Helps, Esq.	6	8 0	75	29.13	154
" (Bathwick)	Mrs. Dunn	5	1 0	50 T	30.60	157
d " (Charlcombe)	C. Gilby, Esq., C.E.	8	2 0	325 T	33.05	166
d Batheaston	Col. Linley Blathwayt.	5	1 0	166 $\frac{1}{2}$	30.69	170
d " Reservoir	C. Gilby, Esq., C.E.	6	2 0	248 $\frac{1}{2}$	29.04	185
Yatton (Chelvey)	Bristol Water Works...	7	0 6	...	31.31	140
Barrow Gurney Reservoir	" " "	5	1 0	320 T	33.75	163
d Long Ashton Estate Office	T. Dyke, Esq.	8	1 0	134	32.71	169
d Flax Bourton (Tyntesfield)	A. Gibbs, Esq.	5	1 7	320 T	29.93	175
d Clevedon (Pembroke Villa)	E. Sturge, Esq.	5	2 0	90 T	31.30	190
" (Water Works)	E. Button, Esq.	5	0 9	28 $\frac{1}{2}$	33.12	...
d Bristol (Coronation Road)	H. C. Martin, Esq.	5	0 10	50	29.26	161
Wraxall	Rev. H. Vaughan	5	0 11	191	33.88	196
Abbots Leigh	H. R. Miles, Esq.	5	1 0	333 T	34.63	152
d Failand House [Bristol]	Miss Fry	12	2 10	...	29.46	162

DIVISION VI.—WEST MIDLAND COUNTIES.

GLOUCESTER.

d Monkswood Reservoir [Bath] ...	C. Gilby, Esq., C.E. ...	6	2 0	363 T	29.09	177
d Bristol Docks (Underfall Yard)..	J. M. McCurrich, Esq., CE	8	19 6	45 T	28.49	164

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell
		Diameter	Height above Ground.	Height above Sea Level		
		ft. in.	feet.	inches.	1895	
GLOUCESTER—(con.)						
Bristol (Small Street)	Bristol Water Works...	12	33 10	52	29·59	145
D Clifton (Royal York Crescent)...	Miss Bridge	5	8 2	226 T	31·95	150
D " (Cecil Road)	Miss Hooper	5	1 5	230	31·18	157
D " (Pembroke Road)	R. F. Sturge, Esq. ...	8	1 0	215	31·64	163
D " (College)	D. Rintoul, Esq.	8	1 2	230	32·59	157
" "	"	8	1 3	230 T	31·61	...
Bristol (Montpelier)	late J. H. Jones, Esq...	5	1 0	96 T	32·04	166
" (Hampton Lodge)	J. H. Dix, Esq.	5	1 0	310	32·33	156
" (Redland Green)	T. D. Sibly, Esq.	5	1 3	282	32·06	172
D " (The Grove, Fishponds)...	H. H. Harding, Esq....	5	1 0	160 T	29·40	168
" (Cote House)	H. St. V. Ames, Esq...	8	1 3	243 T	32·45	...
Pucklechurch	Rev. S. G. Gillum.....	5	0 10	370 T	29·36	150
D Filton	F. W. Gayner, Esq. ...	5	1 0	266	28·09	148
D Chipping Sodbury (Frampton Cotl)	J. Marsh, Esq.	5	1 0	180 T	30·14	151
D " " (Stanshawes Ct) ...	R. N. Hooper, Esq. ...	5	1 3	280 T	29·10	158
D " " (Ridge House)	Mrs. Burges	5	1 4	357 T	29·28	157
D Bristol (Over Court Park)	R. C. C. Lippincott, Esq.	5	0 9	147	33·58	169
D " " " Garden)	" " "	8	1 0	137	32·59	164
D Almondsbury	Rev. C. O. Miles.....	5	2 0	144	30·49	154
D Wickwar Rectory	Rev. R. J. Lyon ...	5	2 0	260 T	29·80	150
Thornbury (Prospect House)	T. H. Taylor, Esq.....	5	2 3	150 T	33·98	...
Alderley	Gen. Hale	5	1 0	300 T	34·45	...
Tortworth Court	Mr. T. Shingles	8	1 0	264	30·40	153
Tutshill [Chepstow]	E. J. Lowe, Esq., F.R.S.	195	34·08	157
Wirewoods Green [Chepstow] ...	" " "	220	43·90	157
Dursley (Farnley)	The Meteor. Council ...	5	0 10	320	30·04	146
D Fairford (Kempsford)	A. T. Iles, Esq.	5	1 0	...	23·25	165
D " (Horcott)	R. A. Iles, Esq.	5	0 8	...	24·13	138
D Berkeley (Castle Gardens)	Mr. R. Shore	5	1 6	60	29·12	150
D " (Sharpness New Docks) ...	F. A. Jones, Esq., C.E.	8	3 9	50	30·18	162
D Lechlade	T. Arkell, Esq.	5	0 9	253	23·07	139
" (Southrop)	T. Arkell, Esq.	1 0	...	24·98	...
D Amberley (Highlands)	Mrs. Blackwell	8	0 10	550 T	27·61	129
D Lydney (Clanna)	Capt. Marling.....	5	1 0	260	36·40	162
D " (Priors Mesne)	H. Cook, Esq., M.D. ...	5	1 6	500 T	35·67	170
D Cirencester (Claremont Place) ...	R. Gorton, Esq.	8	1 0	356 T	28·39	164
" " " " "	" " " " "	8	2 0	357 T	28·46	164
" " " " "	" " " " "	8	0 6	356 T	28·47	164
" " " " "	" " " " "	8	11 0	366 T	26·95	164
D " (Royal Agricultural Coll.)	C. C. Duncan, Esq. ...	5	1 0	443 T	26·59	152
D " (Further Barton)	Miss Brown	5	1 0	425	28·97	169
D Stroud (Stanley Park)	W. J. Paley Marling, Esq	8	1 0	365	28·56	161
D " (The Acre)	P. Witchell, Esq.	5	1 0	300	26·90	120
D " (Upfield)	Miss Stanton	5	1 0	226 T	27·04	175
Stonehouse	F. A. Sibley, Esq.	8	12 0	120	27·40	149
D Fairford (Hatherop Rectory) ...	Rev. R. P. Davies	8	1 3	411 T	24·25	147
D Whitminster	F. A. Jones, Esq., C.E.	5	1 0	32	27·36	154
Haresfield Court	Mr. S. Pearce.....	5	1 0	100	26·31	152

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
		ft. in.	feet.	inches.		
GLOUCESTER—(con.)						
D Coleford (The Coombs)	I. Trotter, Esq.	5	1 0	660	40·53	188
Newnham-on-Severn.....	D. J. Wintle, Esq.	5	1 3	56 $\frac{1}{2}$	33·17	...
D Coleford (Staunton Rectory)	Mrs. Jay Jones	5	0 8	726 $\frac{1}{2}$	38·20	169
D Westbury-on-Severn (Chaxhill)	H. S. Grant, Esq.	5	1 0	120 $\frac{1}{2}$	26·04	138
D Great Barrington	H. J. Barrett, Esq.	5	1 6	430 $\frac{1}{2}$	27·54	146
Northleach (Sherborne House) ...	Mr. Scott	5	1 0	405	29·66	139
Gloucester (Quedgeley House)...	W. G. Robinson, Esq.	5	1 0	65 $\frac{1}{2}$	25·95	157
D " (Birdlip Hill)	A. S. Helps, Esq.	5	1 0	800 B	26·83	160
" (Witcombe Res.).....	R. Read, Esq., C.E.	8	3 0	297 $\frac{1}{2}$	25·42	148
D Mitcheldean (Blaisdon)	P. Stubs, Esq.	5	1 0	117 $\frac{1}{2}$	30·80	169
" () M	"	5	1 0	117 $\frac{1}{2}$	30·77	...
D Gloucester (Hempsted)	F. A. Jones, Esq., C.E.	5	1 6	70 $\frac{1}{2}$	28·56	194
D " (Llanthony Lock)	E.D. Marten, Esq., C.E.	5	1 2	39 $\frac{1}{2}$	22·25	133
D " (Lower Barton Street)	W. P. Brown, Esq.	5	1 0	65 $\frac{1}{2}$	24·93	156
D " (Churcham)	L. H. Hall, Esq.	5	2 1	90	26·08	141
D " (Wotton Asylum)....	Dr Johnson	8	0 9	90 $\frac{1}{2}$	26·06	158
D Cheltenham (Dowdeswell)	J. Hall, Esq., C.E.	5	1 0	357	27·33	150
D† Gloucester (Maisemore Lock)	E.D. Marten, Esq., C.E.	5	1 1	39 $\frac{1}{2}$	23·25	145
D Bourton-on-the-Water	E. W. Kendall, Esq.	5	1 0	434 $\frac{1}{2}$	31·22	158
D Cheltenham (Battledown).....	Sir Brook Kay, Bt.	5	0 8	393 $\frac{1}{2}$	24·25	160
D " (Northfield)	J. Hall, Esq., C.E.	8	5 0	637 $\frac{1}{2}$	26·17	156
D " (Hewletts Res.)	" " "	8	1 6	419 $\frac{1}{2}$	24·85	156
D " (Sandford)	" " "	5	2 8	210	23·38	149
D " (Naunton Pk. Villas)	M. Llewellyn Evans Esq.	5	0 9	240	24·88	167
" (Heath Lodge)	Rev. M. A. Smelt	8	1 0	206	24·63	171
D " (Southam Villa)	R. Tyrer, Esq.	5	1 0	184 $\frac{1}{2}$	24·99	174
" () M	"	5	1 0	184 $\frac{1}{2}$	23·20	...
D Moreton-in-Marsh (Longbro) new	W. Arkell, Esq.	5	1 0	...	29·11	153
D† Tewkesbury (Upper Lode)	E.D. Marten, Esq., C.E.	5	1 0	41 $\frac{1}{2}$	24·70	112
D "	J. Hall, Esq., C.E.	5	0 10	47	21·08	128
D " (Beckford)	F. Slade, Esq., C.E.	8	1 0	120 $\frac{1}{2}$	21·25	155
HEREFORD.						
Wyastone Leys [Monmouth]	J. M. Bannerman, Esq.	6	1 0	200 $\frac{1}{2}$	31·29	160
D Ross (Croome Hall)	W. E. Hancock, Esq.	8	2 0	284 $\frac{1}{2}$	27·03	152
D† " (The Graig)	H. Southall, Esq.	5	1 0	213 $\frac{1}{2}$	25·96	159
Upton Bishop (The Baches)	W. Hogarth, Esq.	5	1 0	300	24·81	130
Ross (Perrystone Court)	Mr. T. Greenway ..	5	1 3	...	23·88	135
Much Dewchurch (Bryngwyn)	J. Rankin, Esq., M.P.	5	0 9	416 $\frac{1}{2}$	28·84	155
D Much Marcle (Homme House)	Mr. J. Maxton	5	0 11	280 $\frac{1}{2}$	24·42	161
D " (Caerswall)	T. Charles, Esq.	5	1 0	423 B	25·80	149
D Fownhope (Morney Cross)	O. E. Cresswell, Esq.	5	1 5	...	23·43	140
D† Ledbury (Orchardleigh)	M. A. Wood, Esq.	5	3 0	230	24·08	151
" (Underdown)	S. H. Bickham, Esq.	5	1 0	307 $\frac{1}{2}$	24·55	150
" () M	" " "	5	1 0	306 $\frac{1}{2}$	23·54	...
" (Putley Court)	J. Riley, Esq.	5	1 0	290	23·30	133
Hereford (Bullinghope)	Rev. Preb. Elliot	5	1 0	...	27·40	143
D " (Breinton Court)	H. A. Wadworth, Esq.	5	1 0	238	24·90	158

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1895	Days on which .01 or more fell.
		Diameter	Height Above Ground ft. in.	Height Above Sea Level feet.		
HEREFORD—(con.)						
Hereford (St. Michael's Priory)	Rev. J. O. Smith	8	1 0	291 $\frac{1}{2}$	26·95	178
Ledbury (Canon Frome Vic.)	Rev. M. Hopton.....	8	1 3	252 $\frac{1}{2}$	23·40	151
Malvern Hills (Upper Wych)	Baldwin Latham Esq C.E.	5	1 0	1006 $\frac{1}{2}$	23·93	141
Hereford (Burghill) No. 3	T. A. Chapman, Esq. M.D.	5	1 0	275	24·25	160
" (") No. 4	" "	5	1 0	275	24·05	160
Brinsop Vicarage	Rev. A. Relton	5	1 0	290	22·94	...
Bodenham Vicarage	Rev. H. C. Sturges ..	5	0 9	240	26·50	...
Hope-u-Dinmore (Hampton Ct.)	J. H. Arkwright, Esq..	8	1 2	212 B	25·80	140
Weobley (Dilwyn).....	T. L. Hall, Esq., M.D.	5	0 8	290 T	26·50	157
Kington (Lynhales) .. .	S. Robinson, Esq.	8	1 0	...	28·05	173
Pembridge (Marston)	H. Langston, Esq.....	5	1 5	347 $\frac{1}{2}$	25·98	148
Bromyard (Buckenhill).....	R. Phipps Esq.....	8	1 9	...	24·23	111
Leominster (Farm)	Mrs. Southall	5	1 6	268	27·78	165
SHROPSHIRE.						
Ludlow (Ashford)	Rev. J. Selwood Tanner	5	1 2	265 T	26·42	160
" (" House)	W. Downes Hall, Esq.	5	0 5	315 T	30·17	179
Cleobury Mortimer (The College)	J. Davis, Esq.	5	1 6	440 T	25·64	140
Bromfield (Priors Halton).....	Miss Beddoes	5	1 0	300	30·16	180
" Vicarage	Rev. W. Selwyn	5	1 0	300 T	30·69	171
Cleobury Mortimer (Neen Savage)	Rev. F. Burd	5	0 11	367 T	27·01	158
Clun (Bettws).....	Mr. R. F. Brand	5	2 0	1150 T	28·26	...
Craven Arms (Stokesay Vicarage)	Miss La Touche	5	1 0	371 $\frac{1}{2}$	28·53	159
Burwarton	Rev. A. James	5	1 0	830	31·07	178
Bridgnorth (Coton Hall)	E. M. Wakeman, Esq..	3	3 0	460 T	24·04	130
" (")	" "	5	1 2	460 T	24·03	130
Bishop's Castle (Totterton)	W. H. Whitaker, Esq.	5	0 7	...	31·97	...
" (Castle Street)	E. Griffiths, Esq.	5	2 0	720 B	27·55	155
Church Stretton (Burway Ho.)...	H. Barnett, Esq., M.D.	5	1 0	640	32·10	180
Bridgnorth (Aldenham Park) ...	W. F. De Wend, Esq..	5	3 0	430 T	25·23	140
Church Stretton (Preen Manor)...	A. Sparrow, Esq.	5	7 0	700 T	25·57	160
" (Woolstaston)	Rev. E. D. Carr	5	1 0	800 $\frac{1}{2}$	26·08	179
Middleton Chirbury	Rev. W. Brewster.....	5	1 2	702 $\frac{1}{2}$	28·69	195
Much Wenlock (Willey Park) ..	Rt. Hon. Lord Forester	5	1 0	502 $\frac{1}{2}$	24·96	149
Minsterley (Hampton Hall)	J. Whitaker, Esq.	1 0	630 T	28·16	...
" (Wallop)	J. E. Severne, Esq. ...	8	1 3	700 T	34·43	164
Shifnal (Neachley).....	Hon. F. Bridgeman ...	5	1 6	280 T	22·64	163
" (Haughton Hall).....	J. T. Brooke, Esq.	5	3 0	355	23·28	182
Wem (The Clive Vic.)	Rev. J. Cooper Wood...	5	1 0	299 $\frac{1}{2}$	23·91	184
Cheswardine (Knighton Res.) ..	G. R. Jebb, Esq., C.E.	8	0 3	351 $\frac{1}{2}$	26·37	175
Market Drayton (Buntingdale) ..	Mrs. Tayleur	5	1 0	276 $\frac{1}{2}$	26·28	...
" (Fernleigh)	J. Beaumont Piercy, Esq.	5	1 0	310 $\frac{1}{2}$	24·66	171
Ellesmere (Oteley)	Mr. Pearse	8	1 8	292	24·27	167
Adderley Rectory	Rev. A. Corbet	5	0 9	290 T	25·00	175
STAFFORD.						
Dennis [Stourbridge]	E. B. Marten, Esq., C.E.	8	6 6	270 B	23·66	164
Netherton (Lodge Farm Res.) ...	G. R. Jebb, Esq., C.E.	5	1 0	445 $\frac{1}{2}$	22·30	154

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Day on which .01 or more fell.
		Diameter	Height Above Ground	Height Above SeaLevel		
		ft.	in.	feet.	inches.	
STAFFORD—(con.)						
d Dudley (Shavers End)	H. A. Hill, Esq., C.E..	5	1	0	744 T	21·33
Handsworth	A. E. Ellis, Esq.	5	1	0	440	27·29
d Perry Hall [Birmingham]	Mr. G. B. Mitchison ...	5	2	6	343 T	27·07
d West Bromwich.....	J. T. Eayrs, Esq., C.E.	8	4	6	547 T	22·10
d Wombourne (The Bratch)	Baldwin Latham Esq CE	5	0	9	271	23·25
Walsall	E. B. Marten, Esq., C.E.	8	4	0	463 T	26·64
d " Sewage Farm	R. H. Middleton, Esq. CE	8	0	11	376 T	21·14
d " (Wednesbury Sewage Wks.)	T. Wicks, Esq.	5	2	0	...	20·31
Wolverhampton (Town Hall)	J. W. Bradley, Esq. C.E.	5	15	6	481 T	19·58
" (West Park)		5	1	0	432 T	22·78
d " (Tettenhall)	R. T. Smith, Esq., C.E.	5	1	0	486 T	21·80
d " (Wrottesley)	Mr. E. Simpson	8	1	0	500	22·55
d Bloxwich (Sneyd Res.)	G. R. Jebb, Esq., C.E..	5	1	0	507 T	22·07
d Hammerwich (Cannock Chase Res)	" , " , " ,	5	1	0	475 T	21·84
d Weston Park [Shifnal].....	Rt. Hon. Earl of Bradford	5	1	6	400 T	21·78
d Brewood (Belvide Res.)	G. R. Jebb, Esq., C.E.	8	1	0	367 T	21·16
d Penkridge (Rodbaston)	H. Ward, Esq.	5	1	0	324 T	23·38
d Hednesford.....	H. A. Hill, Esq., C.E..	5	1	0	750 T	17·99
Alrewas	E. Sellick, Esq.	5	1	6	181 T	22·58
d Burton (Rangemoor).....	Mr. Bennett	5	5	6	424 T	25·60
d " (Shobnall)	Messrs. Bass & Co.	5	5	0	156 T	22·50
d " (Derby Road).....	J. G. Wells, Esq.	5	1	0	151 T	23·35
d " (Hoar Cross)	F. Lycett, Esq.	8	4	0	400 T	25·07
d Salt Vicarage.....	Rev. S. W. Jones	8	0	8	266	26·51
d Uttoxeter (Brook House)	Mr. J. J. Gibbons	5	1	0	283 T	28·29
d Market Drayton (Old Springs)	F. E. Harding, Esq.	5	0	8	422	26·10
d† Cheadle (The Heath House).....	J. C. Philips, Esq.	5	1	0	647 T	29·53
d† " (Tean Vicarage)	Rev. G. T. Ryves	5	1	1	470 T	29·31
d Longton (The Meir)	J. B. Piercy, Esq.	5	1	0	618 T	29·28
d Newcastle (Madeley Vic.).....	Mr. W. Pye	5	1	0	347 T	24·61
d Stoke (Hartshill)	J. Knight, Esq.	5	1	0	485 T	29·47
" (Stanley Reservoir).....	E. B. Smith, Esq., C.E.	5	3	1	550 T	22·46
Etruria		5	4	2	440	27·88
Alstonfield Vicarage	Rev. W. H. Purchas ...	5	1	0	910	32·34
d Leek (Wall Grange)	J. B. Piercy, Esq.	5	1	0	458 T	30·64
Knypersley [Congleton]	E. B. Smith, Esq., C.E.	5	3	1	550 T	32·23
Leek (Rudyard).....	" , " , " ,	5	12	7	500 T	31·46
WORCESTER.						
Northwick Park.....	Lady Northwick.....	8	1	6	410 T	24·55
Upton-on-Severn (Willow Bank)	J. S. Cowley, Esq.	5	1	3	...	23·25
d Evesham (Lansdowne)	R. Burlingham, Esq.	5	5	0	108 T	19·56
† Great Malvern (Church Street)	H. P. Maybury, Esq.	5	1	0	361 T	27·35
d† " , " (Belle Vue House)	A. Mander, Esq.	5	4	0	520	26·46
† " , " (Madresfield Rect.)	Rev. G. S. Munn	5	1	4	124 T	25·03
d† " , " (,, Court)	Mr. W. Crump	8	2	6	135 T	23·34
d Leigh Lodge	Insp.-Gen. M. W. Cowan	5	1	3	110 T	22·91
d† Worcester (Diglis Lock)	E. D. Marten, Esq., C.E.	5	1	0	49 T	24·15

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above SeaLevel		
		ft.	in.	feet.	inches.	
WORCESTER—(con.)						
Worcester (Belmont Road)	G. B. Wetherall, Esq..	5	1	6	175	22·95
D " (Water Works)	T. Caink, Esq., C.E.	5	0	8	52 $\frac{1}{2}$	19·21
D† " (Bevere Lock)	E.D. Marten, Esq., C.E.	5	1	1	52 $\frac{1}{2}$	21·66
D " (Hawford Lodge)	F. Ames, Esq.....	5	1	1	70	23·78
D† Droitwich (Holt Lock)	E.D. Marten, Esq., C.E.	5	1	1	55 $\frac{1}{2}$	21·46
"	B. Godfrey, Esq., C.E.	5	4	0	161 $\frac{1}{2}$	23·63
D Tenbury (Orleton) No. 2	T. H. N. Davis, Esq.	5	0	9	193 $\frac{1}{2}$	24·75
" (") No. 1	" "	5	0	9	193 $\frac{1}{2}$	25·47
" (") No. 3	" "	5	0	9	193 $\frac{1}{2}$	25·29
" (Rochford)	The Meteor. Council	1	0	317	26·08	142
D Redditch (Prospect Hill)	H. Page, Esq., M.D....	5	1	0	425 $\frac{1}{2}$	26·04
D Bromsgrove (Stoke Reformatory)	Mr. J. Salter	5	5	0	225 L	19·57
D " (Tardebigge Res.)	F. A. Jones, Esq. C.E.	5	3	0	433 T	27·09
D† Stourport (Lincombe Lock)	E.D. Marten, Esq., C.E.	5	1	0	62 $\frac{1}{2}$	21·80
D Bromsgrove (Lower Bittal Res.)	F. A. Jones, Esq. C.E.	5	3	0	430 T	24·95
D Bewdley (Winterdyne Gardens)	Mr. W. Wrathier	8	2	0	...	24·13
D Kidderminster (Woodfield)	Rev. J. R. Burton	5	3	0	167	23·03
D " (Prospect Hill)	Mr. J. T. Cowderoy	1	0	161 $\frac{1}{2}$	20·85	
Stourbridge (Pedmore)	E.B. Marten, Esq., C.E.	8	0	11	350 $\frac{1}{2}$	25·24
(Longlands)	" "	23·34	157
D Northfield (Longbridge)	Mrs. Impey	6	0	9	560	27·77
King's Heath [Birmingham]	R. Godfrey, Esq., C.E.	5	8	0	523 $\frac{1}{2}$	27·25
Selly Oak (The Dell)	G. F. Lyndon, Esq.	5	1	0	485 T	26·05
Moseley (Woodstock Road)	C. J. Fowler, Esq.	5	2	4	440 $\frac{1}{2}$	25·33
Dudley (Trindle House)	E.B. Marten, Esq., C.E.	8	1	0	575	27·66
WARWICK.						
D Long Compton (Weston Park)	H. A. Warriner, Esq....	8	3	0	510 T	25·35
D Shipston (Compton Wynnyates)	J. Sargent, Esq.	5	2	6	480	23·99
Radway (Ivy Lodge)	Rev. G. Miller	5	1	1	400 T	26·27
Farnborough Vicarage	Miss Prater	5	1	0	520 T	27·35
D Stratford-on-Avon (Guild Street)	Rev. F. Smith	12	4	0	135 T	22·39
D Alcester (Ragley Hall)	The Marquis of Hertford	5	1	0	260 T	24·08
D " (" , Gardens)	Mr. A. Christie	5	1	0	150 T	24·57
D Warwick (Barford Rectory)	Rev. C. Mills	8	0	11	167 $\frac{1}{2}$	21·64
Southam	E. Turner, Esq.	5	1	0	304	24·29
Leamington (The Parade)	J. Barnett, Esq.	5	4	8	195 $\frac{1}{2}$	20·82
Henley-in-Arden (Barrells Park)	T. H. G. Newton, Esq.	5	1	0	318 $\frac{1}{2}$	23·90
D Warwick (Hatton Vicarage)	Rev. H. Trethewy	5	0	6	384 T	24·88
Milverton (Latmos)	Rev. E. Healy	5	1	2	191 T	23·87
D Kenilworth (Park Hill)	T. G. Hawley, Esq.	8	0	8	300	22·97
D " (The Spring)	W. Evans, Esq.	5	1	0	312 $\frac{1}{2}$	22·87
Rugby (Dunchurch Hall)	A. H. Harrison, Esq.	5	3	0	...	22·30
D " (Temple Observatory)	H. P. Highton, Esq.	5	1	3	383 T	22·89
D Coventry (City Hospital)	Dr. Fenton	8	1	0	266 T	23·99
" (Priory Row)	J. Gulson, Esq.	8	1	3	279 $\frac{1}{2}$	24·47
" (Stoke)	" "	8	1	3	241	25·77
D " (Coundon)	Colonel Caldicott	8	1	11	355 T	28·42

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
		ft. in.	feet.	inches.		
WARWICK—(con.)						
D Solihull (Blossomfield)	B. Boothroyd, Esq.	5	1 0	460 T	26·39	170
D Birmingham (Sheldon Rectory) ..	Mrs. Jones Bateman ...	8	1 0	323	25·46	132
D " (Edgbaston)	A. Cresswell, Esq.	8	1 0	526	24·91	170
D† " (Botanic Gardens) ..	Mr. Latham	5	5 2	505 T	23·85	152
D " (The Crescent)	J. J. Gilbert, Esq.	5	21 0	495 T	23·25	132
" " ") M	" " "	5	7 0	480 T	25·05	...
D Bedworth Cemetery	Mr. D. Bosworth	5	1 0	385 T	24·83	136
D Castle Bromwich Hall	Mr. G. M. Allcock....	5	1 2	363 T	26·60	143
Witton Reservoir	Mr. W. Fleming	5	2 6	345	26·51	143
D Sutton Coldfield.....	C.F. Marston, Esq., C.E.	5	1 0	361 T	28·38	142
" " (Ladywood)	F. Rathbone, Esq.	5	0 8	...	26·06	...
D Atherstone	Baldwin Latham Esq CE	5	1 0	286 T	23·36	145

DIVISION VII.—NORTH MIDLAND COUNTIES.

LEICESTER.

Lutterworth (Walcote)	Major Corbet Smith	5	0 6	...	22·57	...
Fleckney	J. B. Putt, Esq.	5	1 0	411 T	26·86	...
D† Kibworth Beauchamp	E. V. Phillips, Esq.	5	2 6	355 T	22·74	154
D Hallaton Hall	Capt. Bankart	8	1 3	324	21·37	128
D Leicester (Town Hall Square) ..	E.G. Mawbey, Esq., C.E.	9	1 7	212 T	20·97	146
D " (Humberstone Asylum) ..	" " "	5	0 6	211 T	21·13	147
" " (Ashby-de-la-Zouch Cole Orton) ..	J. E. M. Finch, Esq., M.D	8	1 0	244 T	21·69	191
D† Thornton Reservoir	F. Griffith, Esq., C.E..	8	1 2	371 T	24·86	152
D Barkby	Rev. E. N. Pochin	8	0 4	221 T	21·92	175
D Thurcaston Rectory	Rev. T. A. Preston	5	1 0	253 T	20·64	139
D " (Cropston)	F. Griffith, Esq., C.E..	8	1 0	246 T	25·16	166
Swithland (The Brand)	" " "	8	1 0	...	24·56	162
D Ratcliffe-on-Wreake Rectory ..	Rev. C. Allison Holmes ..	5	0 4	...	21·98	125
D " College	Rev. J. Cremonini	5	1 0	288 T	21·94	152
D Rotherby Hall	J. Hames, Esq.	5	1 0	240 T	21·76	193
D " Ashby-de-la-Zouch (Cole Orton)	Rev. Canon Beaumont.	5	1 6	480	25·48	...
D Loughborough (Nan Pantan Res.) ..	A. W. Cross, Esq., C.E.	8	2 11	269 T	24·18	157
D " (Forest Road) M	" " "	8	2 0	269 T	23·78	...
D " (Forest Road) ..	W. Berridge, Esq., C.E.	5	0 9	147 T	23·01	160
D Waltham-le-Wolds	" " "	8	1 0	147 T	22·97	160
D Belvoir Castle old g.	Mr. Higgens	5	1 0	568	23·64	169
D " new g.	W. H. Divers, Esq.	8	1 0	260 T	23·08	213
RUTLAND.						
D Uppingham (West Deyne)	Rev. G. H. Mullins ...	8	1 6	485 T	20·15	161
D Ketton Hall [Stamford]	F. Coventry, Esq.	5	1 0	130 B	20·37	171
D Tolethorpe Hall [Stamford]	C. O. Eaton, Esq.	8	0 8	160 T	18·09	146
Burley-on-the-Hill	Mr. W. Temple	8	1 0	506	21·58	132
D Market Overton	Miss Grace Wingfield...	8	0 11	475 T	25·59	170

DIVISION VII.—NORTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Diameter	Rain Gauge.		Depth of Rain. 1895	Days on which .01 or more fell
			Height Above Ground	Height Above Sea Level		
LINCOLN.						
D Market Deeping (Wilsthorpe)	J. C. Gill, Esq., C.E.	8	3 10	55 $\frac{1}{2}$	18.58	160
Long Sutton	Mr. J. Tilson	5	4 0	18	24.08	146
Spalding (Pode Hole)	Mr. W. Grigg	12	1 0	20 $\frac{1}{2}$	21.88	...
Grantham (Stainby)	Rev. W. A. H. Thorold	5	0 9	496	23.62	100
D " (Denton Manor)	Sir W. Welby Gregory Bt.	5	1 6	280 T	23.02	210
D " (Little Ponton Rect.)	Rev. P. R. Worsley	5	1 0	250	24.43	201
" (Saltersford)	H. Preston, Esq.	5	0 6	188 $\frac{1}{2}$	19.89	152
D " (Guildhall)	J. Evans, Esq.	5	13 6	202 $\frac{1}{2}$	20.58	154
" (Heydour Vicarage)	Rev. G. Deedes	5	1 10	244 T	21.49	...
" (Syston Park)	J. Ashby, Esq.	5	1 0	200	20.99	192
D Boston (Grand Sluice)	C. G. W. Phillips, Esq., C.E.	8	8 0	18	22.52	168
D " "	W. H. Wheeler, Esq., C.E.	5	6 6	25 $\frac{1}{2}$	21.56	144
D Sleaford (Rauceby Hall)	Col. Willson	5	0 6	125 T	24.11	167
Leake (Lade Bank Engines)	C. G. W. Phillips, Esq., C.E.	8	1 0	8 $\frac{1}{2}$	20.29	123
D Stubton [Newark]	G. Nevile, Esq.	5	4 6	94 T	20.88	132
D Fulbeck	Rev. V. F. Willson	5	0 11	180 $\frac{1}{2}$	22.06	174
Sleaford (Bloxholm)	Mr. W. Lumsden	5	1 6	20	23.23	121
Carlton-le-Moorland	J. Brocklebank, Esq.	5	1 2	...	22.14	...
Kirkstead	Mr. R. H. Brett	5	1 3	...	20.80	...
D " (Woodhall Spa)	C. J. Williams, Esq., M.D.	5	1 0	37 T	21.78	...
D Horncastle (Miningsby)	W. H. Wheeler, Esq., C.E.	5	0 6	135 $\frac{1}{2}$	22.75	128
D Spilsby (Hagnaby Priory)	Miss Pocklington	8	1 8	47 $\frac{1}{2}$	26.40	138
D " "	Dr. J. W. Walker	5	1 0	160 T	28.23	186
D " (Boston Road)	Mr. J. J. Rainey	8	0 6	130 T	26.51	148
D " (Hagworthingham)	Mr. R. Wright	5	1 1	252 $\frac{1}{2}$	26.74	177
D " (Dalby Grange)	W. Wright, Esq.	5	1 6	250	27.61	173
D Horncastle (Bucknall)	W. Carter, Esq.	5	1 0	50	22.39	141
D " (Louth Road)	C. J. Caswell, Esq.	8	1 6	132 T	24.92	152
D Lincoln (Branston)	A. S. Leslie Melville, Esq.	5	1 0	120	23.39	150
D† " (Boultham)	Mr. F. Terrill	5	1 0	18 $\frac{1}{2}$	24.50	144
† " (St. Botolphs)	H. Teague, Esq.	5	1 2	25 $\frac{1}{2}$	23.48	...
" (St. Catherine's)	J. H. Teague, Esq.	5	5 0	33 T	23.71	...
D " (Doddington)	Rev. R. E. Cole	5	1 2	92 $\frac{1}{2}$	23.97	152
" " (The Close)	M. S. & L. R. Co. \ddagger	9	3 6	26	22.68	133
" (D'Isney Place)	The Royal Meteor. Soc.	8	1 0	185	24.12	179
D " (Brayford Wharf)	A. H. Leslie Melville Esq.	4	1 0	215 T	23.65	158
" (The Quarry)	Mr. J. W. Horton	5	5 8	28 $\frac{1}{2}$	22.88	178
" (Skellingthorpe Hall)	R. Swan, Esq.	8	1 8	165 T	23.35	160
D Horncastle (Hemingby)	A. H. B. Coupland, Esq.	5	1 0	...	22.70	137
Alford (The Burial Ground)	Rev. E. S. Bengough	5	1 0	158	24.36	168
D Farforth (Maidenwell House)	Mr. E. Hodgson	5	1 0	29 $\frac{1}{2}$	22.02	...
Gate Burton	Miss H. E. Browne	5	1 0	380 T	27.56	194
D† Louth (Gospelgate)	M. S. & L. R. Co.	9	3 6	96	24.65	145
† " (Westgate)	T. W. Wallis, Esq.	5	6 0	111 $\frac{1}{2}$	26.40	179
D Market Rasen	Dr. F. Fawssett	5	0 9	120 $\frac{1}{2}$	25.41	167
	Mr. W. B. Jevons	5	0 8	84	26.71	140

‡ Kept for the Canals Department of the Manchester, Sheffield, and Lincolnshire Railway Company.
Returns supplied by G. Taylor, Esq.

DIVISION VII.—NORTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
		ft. in.	feet.	inches.		
LINCOLN—(con.)						
Market Rasen.....	M. S. & L. R. Co.	9	... 100	21·20	120	
Gainsborough.....	" " "	9	... 76	20·81	155	
Stockwith	" " "	9	3 6 21	23·90	159	
d North Thoresby Rectory	Rev. H. Garrett.....	5	1 0 46 T	23·87	183	
Caistor (Cabourne).....	Rev. R. Thomas	5	29·54	...	
Wroot Engine	A. L. Peace, Esq., C.E.	23·68	...	
Brigg	M. S. & L. R. Co.	9	3 6 16	23·46	162	
d "	A. Atkinson, Esq., C.E.	8	1 2 11 T	27·86	180	
d Grimsby (Waltham)	Rev. W. Tuckwell.....	5	1 0 50	24·59	169	
"	M. S. & L. R. Co.	9	15 0 42	20·39	151	
Barnetby.....	" " "	9	3 6 51	26·92	147	
d N. Level Engine [Thorne Donec'st'r]	A. L. Peace, Esq., C.E.	5	2 3 ...	23·25	157	
Crowle (Keadby)	M. S. & L. R. Co.	9	... 10	20·46	138	
d Burton on Stather Vicarage	Rev F. A. Jarvis	5	0 6 212 T	28·96	190	
Horkstow	E. J. Turton, Esq.	5	0 10 ...	25·69	138	
d West Halton	Rev. R. D. Pierpoint....	5	1 6 0	27·78	154	
Ferriby Sluice	A. Atkinson, Esq., C.E.	5	1 0 18 T	27·08	124	
New Holland	M. S. & L. R. Co.	9	3 6 18	23·56	157	
NOTTS.						
d Kingston Hall [Loughborough]	Mr. W. English.....	5	0 8 ...	21·80	129	
d Plumtree (Normanton on Wolds)	T. A. Hill Esq.	8	1 0 170 T	20·97	156	
Cropwell Bishop (Cropwell Grove)	H. Smith, jun., Esq.	5	1 1 160 T	20·66	...	
Bramcote	H. H. Enfield, Esq.	5	3 6 292 T	23·71	172	
Bingham (Whatton Manor)	M. H. Hall, Esq.	5	1 5 101 T	19·69	135	
d Nottingham (Beeston Fields)	G. Fellows, Esq.	5	0 9 206 T	23·31	157	
d " (The Castle)	A. Brown, Esq., C.E.	8	1 2 192 T	20·75	136	
" (,, ,)	" 76 0 268 T	18·00	137			
" (The Park)	G. Elmsley Coke, Esq.	5	1 0 247 T	22·92	...	
d " (,, , Carisbrook Ho.)	W. Bradshaw, Esq.	5	1 0 247	22·34	140	
Radcliffe-on-Trent (Chestnut Ho.)	Mr. W. P. Green	8	2 0 ...	21·17	113	
d Ntngm (Stoke Bardolph Sew Fm)	Mr. J. Avis	8	10 0 83	20·94	143	
d " (Strelley Hall)	T. L. K. Edge, Esq.	8	1 0 396 T	22·62	148	
d " (Mapperley Hill)	E. Powell, Esq.	8	1 0 400 T	23·07	129	
d " (Basford)	D.M.F.Gaskin, Esq., C.E.	8	0 10 169 T	22·58	167	
Bulwell (Springfield)	G. W. Walker, Esq.	5	0 9 166 T	23·53	...	
d " (Bestwood)	D.M.F.Gaskin, Esq., C.E.	8	1 5 317 T	24·51	147	
d Eastwood Colliery	Mr. E. Lindley	5	1 0 245 T	24·80	167	
d Hucknall Torkard (Forge Mills)	J. D. Walker, Esq.	5	1 0 200 ?	22·34	190	
† Gonalston Rectory	Rev. F. H. Paley	5	1 0 70	23·40	...	
d Papplewick (Water Works)	D.M.F.Gaskin, Esq., C.E.	8	0 10 317 T	24·72	165	
Newark (Averham Rectory)	Rev. J. Walker	5	1 0 ...	21·59	...	
d Farnsfield	Dr. Wills	5	1 0 210 T	25·35	152	
Mansfield (Market Place)	Mr. P. J. Shacklock	5	1 0 350	28·19	205	
d South Scarle	Rev. E. C. Shawfield	5	1 4 52	23·73	143	
d Ollerton (Thoresby Gardens)	Mr. A. Henderson	8	0 9 125	27·61	161	
Worksop	M. S. & L. R. Co.	9	3 6 127	23·97	161	

DIVISION VII.—NORTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above Sea level		
		ft. in.	feet.	inches.	1895	
NOTTS—(con.)						
Worksop (Osberton Gardens)	Mr. T. H. Crasp	5	4 0	70	25·75	171
Retford	M. S. & L. R. Co.	9	3 6	52	21·80	179
,, (Morton Hall)	W. H. Mason, Esq.	5	1 0	140	25·25	157
,, (Babworth Hall)	Col. Denison	5	0 6	92 $\frac{1}{2}$	23·41	123
,, (W. Retford House) ..	Mrs. Overend	5	1 4	63	23·33	138
Worksop (Hodsock Priory)	H. Mellish, Esq.	8	1 0	56 $\frac{1}{2}$	25·11	172
,, „ „ „ M	„ „ „	5	1 0	56 $\frac{1}{2}$	24·64	...
The Gardens [Bawtry Hall]	L. T. Baines, Esq.	5	1 0	31 $\frac{1}{2}$	23·70	102
Hesley Hall [Tickhill]	B. I. Whitaker, Esq....	8	0 11	61 $\frac{1}{2}$	23·38	158
DERBY.						
Stanton House [Burton]	J. L. P. Barber, Esq...	5	1 0	210	24·17	159
Winshill [Burton].....	A. J. Brown, Esq.....	5	1 0	...	24·39	...
Melbourne (The Grange)	Miss Tasker	5	0 3	...	24·18	145
,, Vicarage	Rev. Canon Singleton..	5	2 0	...	25·74	153
,, (The Hollow)	Mr. W. Garratt	5	1 0	182 $\frac{1}{2}$	22·39	125
Chellaston	H. Chambers, Esq.....	5	1 0	...	20·65	159
Findern (The Longlands).....	Rev. B. W. Spilsbury..	5	0 9	186 $\frac{1}{2}$	22·30	...
Etwall (Blakeley Lodge)	Mr. R. Giles	5	1 0	...	23·00	121
Mickleover Manor	Mr. J. Campbell	5	2 0	200	22·32	135
Derby (Wild Street)	Messrs. J. Davis & Son	5	1 0	174	24·34	175
,, (Midland Railway).....	W. Langdon, Esq.....	5	1 5	156 $\frac{1}{2}$	21·52	158
,, (Arboretum)	R. J. Harrison, Esq., C.E.	8	1 0	196	23·69	157
Breadsall Lodge	W. B. Woodforde, Esq	5	1 3	280 $\frac{1}{2}$	24·68	185
Duffield	Messrs. J. Davis & Son	24·30	174
Hazelwood (Holmside)	C. H. B. Hambly, Esq.	5	1 3	500 $\frac{1}{2}$	27·68	173
,, „ „ „	8	1 3	500 $\frac{1}{2}$	28·35	...	
,, (Chevin)	Sir J. G. N. Alleyne, Bart.	5	4 0	515 $\frac{1}{2}$	23·72	174
Belper (Northfield).....	J. Hunter, Esq., C.E....	8	0 8	225 $\frac{1}{2}$	28·89	179
Codnor (Cross Hill)	News cutting	372	24·62	151
Alderwasley	A. F. Hurt, Esq.	5	5 5	541 $\frac{1}{2}$	31·99	151
Matlock (The Gables)	R. Wildgoose, Esq.	5	1 0	459 $\frac{1}{2}$	31·22	171
+ „ Bath	Mrs. Chadwick	5	1 6	500 $\frac{1}{2}$	29·33	...
Darley Dale (Whitworth Inst.)..	J. H. Dawson, Esq.	5	1 8	361 $\frac{1}{2}$	32·30	188
North Darley	A. Clay, Esq.	5	1 0	400 $\frac{1}{2}$	32·80	190
Stretton (Lindway Res.)	Mr. Peers	5	4 3	447 $\frac{1}{2}$	23·47	122
Stuffynwood Hall [Mansfield]..	J. Paget, Esq.	5	1 3	389 $\frac{1}{2}$	24·27	179
Hardwick Hall	Mr. Wilson	8	2 6	594 $\frac{1}{2}$	28·71	137
Grassmoor Colliery	J. Norman, Esq.	5	19 10	370 $\frac{1}{2}$	22·74	155
Chatsworth Gardens	W. Chester, Esq.	8	5 5	404 $\frac{1}{2}$	30·47	205
Chesterfield (Gas Works) ..	C. E. Jones, Esq., C.E.	5	1 0	279	23·95	137
,,	M. S. & L. R. Co.	9	3 6	251	24·83	159
,, (Linacre Reservoir) old g.	C. E. Jones, Esq., C.E.	8	3 6	490 $\frac{1}{2}$	26·19	149
,, („ „ „ new g.	„ „ „	5	1 0	490	30·48	164
,, (Tapton Grove)	Mr. Bloxham	5	3 3	400	24·70	111
Buxton (Devonshire Hospital)...	The Royal Meteor. Soc.	5	1 0	986 $\frac{1}{2}$	43·36	208
Tideswell (Sterndale Ho., Litton)	W. F. Jackson Esq. C.E.	5	4 0	1005 $\frac{1}{2}$	32·76	161
Comb's Moss	M. S. & L. R. Co.	9	3 6	1669 $\frac{1}{2}$	31·00	...

DIVISION VII.—NORTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height above Ground.	Height above SeaLevel		
		ft. in.	feet.	inches.	1895	
DERBY—(con.)						
†Comb's Reservoir	M. S. & L. R. Co.	9	3 6	710 T	33.01	198
†Chapel-en-le-Frith	„ „ „	9	3 6	965 T	33.44	193
†Killamarsh (Norwood)	„ „ „	9	3 6	238 T	25.89	180
¶ Norton [Sheffield]	Col. Creswick	6	0 8	700 T	30.33	179
Glossop Hall	Lord Howard of Glossop	8	1 5	620 T	38.64	182
Woodhead Station	M. S. & L. R. Co.	9	3 6	878 T	44.13	204

DIVISION VIII.—NORTH WESTERN COUNTIES.

CHESHIRE.

d Baddiley (Nantwich W. W.) ...	Baldwin Latham Esq CE	5	1 0	231	25.46	152
d Nantwich (Dorfold Hall)	J. A. Saner, Esq., C.E.	8	1 6	190	26.92	154
d „ (Reaseheath Hall)	„ „ „	8	1 0	130	26.28	157
Aldford	W. H. Phillips, Esq....	5	1 1	43 T	26.45	136
d Eaton Hall Gardens	Mr. N. F. Barnes	5	3 0	64 T	27.24	171
Eccleston	E. Wells, Esq.	5	1 1	94 T	28.74	156
„ Rectory	Rev. A. G. Robins	5	6 0	50 T	28.69	166
d Congleton (Buglawton Vic.)....	Rev. W. Besant	8	5 0	347 T	26.59	142
Bosley Reservoir	M. S. & L. R. Co.	9	3 6	590 T	27.37	185
„ Minns	„ „ „	9	3 6	1210 T	29.72	191
Macclesfield (Winchle)	E. B. Smith, Esq., C.E.	5	3 0	500	32.00	147
d Chester (Christleton Hall)	Mr. T. Weaver	5	1 2	142 T	27.71	172
„ (Waterworks)	A. Bell, Esq.	5	0 10	85 T	26.65	168
„ (Northgate Station)....	M. S. & L. R. Co.	9	3 6	84 T	29.58	152
d „ (Parkgate Road)	Rev. Dr. Mitchell	5	1 0	60 T	28.19	165
d† „ (The Nurseries)	Messrs. Dicksons	5	1 0	62 T	28.90	146
d „ (Hoole Lodge)	Mrs. Hamersley	5	1 0	108 T	31.42	167
Middlewich (Bostock Hall)	Col. France Hayhurst..	5	2 0	157 T	29.53	141
d Macclesfield (The Park)	Mr. J. Dale	5	1 0	501 T	34.09	171
„	M. S. & L. R. Co.	9	3 6	539	37.62	181
d Chelford (Astle Hall)	G. Dixon, Esq.	5	1 0	250 T	28.46	138
„ („ ,)	M „ „ „	8	1 0	250 T	27.53	...
Northwich	M. S. & L. R. Co.	9	3 6	76 T	27.69	138
d „ (Highfield)	J. A. Saner, Esq., C.E..	8	3 4	118 T	28.38	180
d „ („ ,) Snowdon	„ „ „	8	1 0	115 T	27.85	180
d „ (Winnington)	Mssrs Brunner Mond & Co	5	3 8	110 T	26.55	200
„ (Wincham Hall) ...	H. Neumann Esq	8	1 6	120 T	29.34	160
d Macclesfield (Swanscoe Park) ..	T. C. Horsfall, Esq.	5	1 0	676 T	33.21	187
d* Neston (Hinderton)	Reginald Bushell, Esq.	5	1 0	215 T	27.26	165
* „ („ ,)	„ „ „	8	1 0	215 T	27.55	...
* „ („ , Lodge)	„ „ „	5	1 0	145 T	26.62	...
d Frodsham (Dunsdale)	J. Simpson, Esq.	5	1 1	206	29.56	160
Bollington (Spond's Hill)....	M. S. & L. R. Co.	9	3 6	1279 T	32.38	...
d Hooton Grange	W. H. Jones, Esq.	5	1 0	110 T	27.55	152
d Wilmslow (Southside)	G. Pearson, Esq.	8	1 0	255 T	30.36	164
„ (Poplar House).....	J. Holden, Esq.	5	1 0	237 T	29.77	170

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell
		Diameter	Height Above Ground.	Height Above Sea level		
		ft. in.	feet.	inches.	1895	
CHESHIRE—(con.)						
†Whaley	M. S. & L. R. Co.	9	3 6	602 T	36·46	191
Disley (Lyme Park).....	No. 1 T. Molyneux, Esq.	9	3 8	720 T	38·82	157
D " () No. 2	" , " , "	12	2 9	674 T	31·44	157
D Runcorn (Weston Point)	J. A. Saner, Esq., C.E.	8	2 4	18	25·61	158
D West Kirby (Caldy Manor)	Mr. W. Neish.....	5	1 0	129 L	26·70	150
D " (Greenfield)	H. Bell, Esq.	5	1 0	75 T	27·14	165
B Bowdon (The Firs).....	R. Swindells, Esq., C.E.	5	1 0	215 T	28·57	...
D " (Erlesdene)	E. J. Sidebotham, Esq.	5	1 0	211 T	24·71	174
D " ()	M	5	1 0	211 T	28·17	...
D Thelwall (Highfields)	T. G. Rylands, Esq.	5	1 0	118 T	29·08	159
D " ()	M	5	1 0	118 T	29·06	...
D " (Millington House)	L. W. Reynolds, Esq.	5	1 0	85 T	31·30	163
" ()	M	5	1 0	82 T	30·90	...
Altringham (Barrington House).	J. Newton, Esq., C.E.	8	3 0	105	28·61	...
D Cheadle (Harthill).....	R. A. Grundy, Esq.	5	1 0	142 T	29·40	166
D Hoylake (The Chase East)	J. F. Leigh Clare, Esq.	5	1 0	29 T	24·37	150
† Birkenhead (Bidston Obs.)	W. E. Plummer, Esq.	8	1 0	189 T	26·27	172
D Northenden (Wythenshawe)	T. E. Tatton, Esq.	5	1 0	114 T	29·95	165
Marple Top Lock	M. S. & L. R. Co.	9	3 6	543 T	31·28	172
Aqueduct		9	3 6	321 T	30·84	175
New Brighton (Stanley Rock) ...	A. C. Abraham, Esq.	5	1 0	130 B	26·06	166
D Broadbottom (Harewood Lodge)	Col. Sidebottom, M.P.	5	1 0	440	33·39	166
Godley Reservoir	G. H. Hill, Esq., C.E.	12	2 0	500	29·25	...
Newton	M. S. & L. R. Co.	9	3 6	396 T	29·84	149
Mottram	Mr. W. Pitt	8	3 0	679 T	36·87	179
(Hill End)	M. S. & L. R. Co.	9	3 6	680 T	33·65	182
(Matley's Field)		9	3 6	399 T	32·30	159
Hadfield (Millbrook)	Mr. S. H. Doxon	8	3 10	442 T	36·92	...
Arnfield Reservoir	G. H. Hill, Esq., C.E.	12	2 6	550	39·23	...
† Rhodes Wood Reservoir	" , " , "	12	1 0	520	41·84	...
† Torrside Reservoir	" , " , "	12	1 6	680	42·73	...
Staleybridge (Swineshaw)	" , " , "	8	3 0	884 T	43·07	...
† Woodhead Reservoir	" , " , "	12	0 10	660	46·68	...
LANCASHIRE.						
D Garston (Grassendale Park)	Miss E. C. Abraham ...	5	1 0	35 T	29·57	177
D Aigburth (Kelton)	J. Sing, Esq.	5	1 0	150 T	29·33	181
D " (Holmfield)	Miss Maxwell	5	1 0	100 T	29·57	177
D Gateacre (The Nook)	P. C. Hall, Esq.	5	1 0	90 T	29·10	183
D Warrington (Howley)	T. Longdin, Esq.	10	0 10	19 T	27·37	185
(The Cemetery)		10	1 0	32 T	29·32	...
(Central Station)	M. S. & L. R. Co.	9	3 6	59 T	27·79	157
Liverpool (St. John's Gardens)	H. P. Boulnois, Esq., C.E.	9	2 3	48 T	25·88	171
()	" , " , "	5	0 9	47 T	26·98	168
(Grove Park)	J. R. Darsie, Esq.	3	6 0	160	27·01	...
(Huskisson Station)	M. S. & L. R. Co.	9	3 6	40 T	28·74	184
D Heaton Moor [Stockport] new g.	Dr. F. W. Jordan	5	1 0	235	29·17	186

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1895	Days on which .01 or more fell.
		Diameter	Height Above Ground ft. in.	Height Above Sea Level feet.		
LANCASHIRE—(con.)						
d Manchester (Withington) No. 2	J. King, jun., Esq. ...	5	1 3	110 T	28.59	177
d " () No. 3	" " " " " ...	8	1 6	110 T	28.30	177
d " (Stretford)	H. Royle, Esq., C.E. ...	5	1 0	86 T	30.95	182
St. Helens	The Meteor. Council ...	8	1 0	152	27.98	173
Denton Reservoir	G. H. Hill, Esq., C.E. ...	12	2 0	324 T	28.79	...
Gorton	" " " " " ...	12	2 0	263 T	28.99	...
d Manchester (Plymouth Grove) ...	J. F. Roberts, Esq. ...	5	4 2	150 T	29.97	165
† " (Piccadilly)	M. S. & L. R. Co.	9	40 0	194 T	27.36	171
" (Fairfield)	" " " " " ...	9	6 0	312 T	32.85	198
d " (Oldham Road)	Dr. Niven	5	1 0	191 T	33.88	186
d " (Alexandra Park) ...	J. Casartelli, Esq.	8	3 0	100 T	27.13	171
Eccles (Worsley Hall)	Mr. W. B. Upjohn	8	8 0	80 L	24.6	124
d " (Old Hall)	W. Bourke, Esq., C.E. ...	5	1 0	185 T	32.83	177
Blundellsands (Park Corner) ...	T. M. Reade, Esq. C.E. ...	5	1 0	36 T	26.43	...
d Stalybridge (West Hill)	Capt. Harrison	5	0 10	412 T	34.27	183
d Manchester (Newton Heath)....	J. Warren, Esq.	5	1 0	275 T	37.32	172
d " (Cheetham Hill)....	R. B. Worthington Esq. C.E. ...	5	1 0	264 T	31.35	193
Ashton (Waterhouses)	M. S. & L. R. Co.	9	3 6	345 T	34.70	187
Prestwich Asylum	The Meteor. Council ...	8	1 0	295	34.19	188
" Reservoir	G. H. Hill, Esq., C.E. ...	12	2 0	336 T	31.49	...
Oldham (Gas Works)	" " " " " ...	5	4 0	600 T	37.89	...
" (Honeywell Lane)	M. S. & L. R. Co.	8	553	39.16	200
" (Brushes Clough)	G. H. Hill, Esq., C.E. ...	5	4 0	930 T	48.17	...
" () New gauge	" " " " " ...	5	5 0	955 T	43.14	...
Ormskirk (Aughton Springs) ...	G. Cooke, Esq.	5	0 6	150	28.68	...
d Wigan Waterworks	W. Bolton, Esq.	8	1 6	225 T	32.13	188
d Dalton (Ashurst Beacon)	J. Baxendell, Esq.	5	1 9	540 T	29.45	192
d Bolton (The Park)	W. W. Midgley, Esq. ...	5	1 0	390 T	38.51	186
" (Heaton) new gauge	R. H. Swindlehurst Esq. C.E. ...	5	1 0	500	39.91	208
d " (Ash Lawn, Heaton). ...	F. Taylor, Esq.	5	1 0	406	40.40	211
d " (Hurst Bank ") ...	J. Watkins, Esq.	5	3 10	442 T	40.05	200
d " (Moss Bank)	R. H. Ainsworth, Esq. ...	8	1 6	530 T	42.86	182
d " (Smithills Hall)	" " " " " ...	8	1 2	535 T	41.11	158
Bury (Gin Hall)	T. Rigby, Esq.	8	1 0	475	40.25	149
† Milnrow (Piethorne, Kitcliffe)...	G. H. Hill, Esq., C.E. ...	5	4 6	767	41.77	...
" (Coldgreave)	" " " " " ...	5	4 2	891 T	40.79	...
Rochdale (Deeplish Hill)	J. H. Lancashire, Esq. ...	5	1 0	475 T	39.71	194
d " (Park Observatory) ...	Dr. Henry	8	0 6	472	42.11	204
d " (Fieldhead)	S. S. Platt, Esq., C.E. ...	8	12 0	484 T	41.15	192
d Ormskirk (Rufford)	T. Hobkirk, Esq.	5	0 8	39 T	28.75	184
Bolton (Belmont) old gauge	R. H. Swindlehurst Esq. C.E. ...	6	0 9	800	50.70	195
" " " " new gauge	" " " " " ...	5	1 0	800	49.83	...
d Southport (Birkdale)	J. Baxendell, Esq.	5	1 0	29 T	26.75	182
Rochdale (Nayden Dean)	J. Diggle Esq., C.E. ...	5	1 3	948 T	41.51	...
d " (Facit)	T. S. Smithson, Esq.	5	0 6	855 T	48.41	197
d " (Spring Mill, Whitworth)	W. Tomlinson, Esq. ...	8	1 7	720	44.71	172
d " (Cowm)	" " " " " ...	8	1 7	760	46.83	167
Southport (Hesketh Park).....	M. J. Baxendell, Esq. ...	5	1 0	22 T	26.98	...

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1895	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above SeaLevel		
		ft.	in.	feet.	inches.	
LANCASHIRE—(con.)						
Southport (Hesketh Park) <i>M.O.g.</i>	J. Baxendell, Esq. ...	8	1 0	22	26.97	177
(Lord Street Station)	M. S. & L. R. Co.	9	...	21 $\frac{1}{2}$	25.59	152
Entwistle <i>old gauge</i>	RHSwindlehurst Esq C.E	7	1 0	700	45.50	188
" <i>new gauge</i>	" "	5	1 0	700	45.72	...
Blackstone Edge (Hollingworth)	Rochdale Canal Compy \ddagger	10	1 5	650	36.80	...
† " (Windy Bank)	" "	10	1 6	600	37.90	...
† " (Canal Summit)	" "	10	1 9	1225	34.60	...
† " (Chelbourne) ...	" "	10	1 3	800	34.50	...
† " (Lenches)	" "	10	1 10	800	41.70	...
† " (Calf Lee)	" "	10	1 6	960	35.30	...
Chorley (Crooke Hall)	Carlton Cross, Esq. ...	5	2 6	265 T	33.63	154
Haslingden (Holden Wood)	T. Rigby, Esq.	8	1 0	670	47.39	168
Over Darwen (Sunnyhurst Hey). " (Earnsdale Res.)...	W. Stubbs, Esq., C.E.	8	1 8	915 T	40.62	170
" (St. James's Vic.) .	Rev. W. H. Blamire ...	5	1 0	564 $\frac{1}{2}$	41.96	180
" (Hoddlesden)	G. W. Lund, Esq., C.E	8	4 0	680	62.64	178
" (Daisy Green) No. 1	" "	8	1 0	969	46.91	176
" (,, ,) No. 2	" "	8	1 0	969	47.19	176
" (Pickup Bank) No. 1	" "	8	1 0	720	45.68	176
" (,, ,) No. 2	" "	8	1 0	720	43.72	176
Haslingden	Dr. Harrison	5	1 9	750	46.21	147
„ Vicarage	Rev. A. Spencer.....	8	1 6	800 T	44.34	192
Todmorden (Water Works) No. 1	J. Radcliffe, Esq.	8	1 0	980 $\frac{1}{2}$	48.12	229
„ No. 2	„	5	1 0	1326 $\frac{1}{2}$	47.95	229
Blackburn (Guide Reservoir) ...	G. W. Lund, Esq., C.E	8	1 0	650	34.70	167
" (Witton)	" "	8	2 6	315 $\frac{1}{2}$	37.51	175
" (Store Yard)	" "	8	30 0	373 $\frac{1}{2}$	31.44	145
" (Waterworks Office). " (Pumping Station)	" "	8	60 0	436	29.65	154
Accrington (Milnshaw Grounds). Rawtenstall (Clough Bridge Res.)	Mr. Carr..... T. Rigby, Esq.	5	1 6	464 $\frac{1}{2}$ 8	36.71 49.62	178 211
Burnley Waterworks	+ Causway Side	W. Williamson, Esq.	8 2 0	1116	41.93	...
+ Sheddin	" "	8 2 0	960	43.07	...	
+ Cant Clough, S. Side	" "	8 2 0	900	41.89	199	
+ „ „ N. Side	" "	8 2 0	900	40.03	199	
+ Rams Clough Head	" "	8 2 0	1260	42.76	...	
Huncoat (Burnley Road Res.) ...	C. Harrison, Esq.	9	1 6	620 $\frac{1}{2}$	40.15	174
Burnley (Yorkshire Street)	W. Williamson, Esq...	8	30 0	420 $\frac{1}{2}$	41.44	190
† " (Swinden, Upper)	" "	8 12 0	820 $\frac{1}{2}$	43.39	211	
† " („ Lower)	" "	8 2 0	745 $\frac{1}{2}$	44.12	210	
† " (Extwistle Moor)	" "	8 2 0	1310 T	42.68	...	
" (Gawthorpe Hall)	A. Ford, Esq.....	8 1 3	316 T	39.59	179	
Preston (Haughton)	J. J. Myres, Esq., C.E.	5 1 2	255 $\frac{1}{2}$	34.17	177	
Alston	H. Reah, Esq., C.E. ...	8 1 2	320 $\frac{1}{2}$	35.33	...	

† Returns supplied by C. R. Dykes, Esq.

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above SeaLevel		
			ft in.	feet.		
LANCASHIRE—(con.)						
Kirkham (Weeton)	C. Arthur, Esq.	10	1 0	95 T	34.84	...
D Blackpool Hospital	Dr. Anderson.....	5	1 0	66	29.43	175
D Barton (Anderton Fold)	W. H. Mason, Esq.	5	0 6	90 T	34.25	174
Nelson (Coldwell Reservoir).....	J. Newton, Esq., C.E....	8	2 0	950	32.18	...
D Eccleston (Elswick Lodge) old g.	S. King, Esq.	6	1 4	50 T	30.43	171
" (") Field	,, "	5	1 0	52 T	32.91	...
" (") "	,, "	5	6 0	56 T	31.51	...
Stonyhurst College	Rev. W. Sidgreaves ...	11	1 0	376 T	42.37	198
D " "	,, "	11	2 0	377 T	42.34	198
D " " M	,, "	11	1 0	376 T	40.92	...
Preston W. Works (Knowle Green)	H. Reah, Esq., C.E.	8	1 2	400 T	33.40	...
Loud-scales	,, "	8	1 2	400 T	37.17	...
Spade Mill	,, "	8	1 2	400 T	38.22	...
Jeffrey Hill	,, "	8	1 2	900 T	41.75	...
D St. Michael's-on-Wyre Vic. No.3	Rev. P. J. Hornby	5	1 0	26 T	31.79	177
D Beaton Fell (Barnsfold Res.)	J. J. Myres, Esq., C.E.	5	1 6	506 T	38.20	178
" (") M	,, "	5	1 6	506 T	38.25	...
D Garstang (Calder Mount)	Sydney Wilson	5	0 6	71 T	33.54	181
Clitheroe (Downham Hall)	R. Assheton, Esq.	10	1 6	464 T	38.08	...
Chatburn (Middlewood)	W. K. Wilkinson, Esq.	5	1 3	363 T	40.10	...
Garstang (Barnacre Reservoir)	C. Arthur, Esq.	10	1 0	617 T	39.35	...
" (Grizedale Reservoir)	,, "	10	1 0	519 T	38.50	...
D " (Forton)	W. G. Welch, Esq.	5	2 0	130 T	35.17	187
Wyresdale (Abbeystead)	J. Cook, Esq., C.E.	8	1 0	366 T	46.13	172
Quernmore (Old Gauge Basin) M	,, "	8	1 0	963 T	45.44	...
Wyresdale (Wardstone)	,, "	8	1 0	1440 T	57.93	...
Quernmore (Brow Top)	,, "	8	1 0	552 T	35.09	164
Heysham House	Miss Tomlinson	5	1 6	80	40.76	129
D Hall	Mrs. Grafton	5	1 0	96	38.51	129
Lancaster (Marton Street Yard)	J. Cook, Esq., C.E.	8	1 9	70 T	37.21	188
D " (Greg Observatory)	Dr. Schloesser	8	1 0	312	39.34	193
" (Escowbeck, Caton)	A. Greg, Esq.	10	3 0	150 T	37.13	160
D Wray Vicarage	Rev. C L Reynolds	5	1 0	165 T	42.58	186
Melling (Hornby Castle)	Col. Foster	8	1 8	100	37.17	163
Barrow-in-Furness	W. Fergusson, Esq.	11	1 6	36 T	34.61	175
Arkholme (Storrs Hall)	F. F. Pearson, Esq.	5	1 0	220	40.61	...
D Ulverston (Urswick)	Rev. R. B. Billinge	5	0 6	...	43.22	189
†Cartmel (Holker)	Mr. W. Fox	8	4 8	155 T	40.76	172
D† Ulverston (Poaka Beck)	W. Fergusson, Esq.	11	1 6	512 T	46.30	196
D Cartmel (Pit Farm)	Mr. W. R. Nash	5	1 0	122 T	43.54	191
" (Broughton Hall)	Col. Ainsworth	5	2 8	210 T	43.13	177
D Colton	Rev. A. Christopherson	5	1 0	226 T	46.48	168
D Finsthwaite Vicarage	Rev. S. Inman	8	1 2	250	49.76	164
Broughton-in-Furness	Rev. F. A. Malleson	5	1 3	40	50.00	...
D Blawith	Rev. J. Ashburner	5	0 10	185 T	52.65	175
D Cartmel Fell Vicarage	Rev. W. Summers	5	0 8	220 T	52.89	182
D Hawkshead (Esthwaite Lodge)	Major Alcock-Beck	5	3 6	232 T	58.54	204
" (,, Strickland Ease)	,, "	5	3 6	254 T	49.50	...

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain 1895	Days on which .01 or more fell.
		Diameter	Height Above Ground ft. in.	Height Above Sea Level feet.		
LANCASHIRE—(con.)						
† Duddon Valley (Seathwaite Vic)	Rev. S. R. M. Walker	5	1 0	330 T	61·74	190
† Monk Coniston Park	Mr. Etty	5	1 2	305 T	67·52	185
Hawkshead (Black Fell)	M. S. A. Marshall, Esq. ..	5	1 6	1055 T	49·10	...
Skelwith Fold [Ambleside]	" " "	5	1 0	333	63·36	213
" " ["] M	" " "	5	1 0	333	62·63	...

DIVISION IX.—YORKSHIRE.

WEST RIDING.

† Sheffield (Brincliffe Rise)	A. W. Chadburn, Esq.	5	1 0	500 T	31·64	174
† " (Edge)	M. S. & L. R. Co.	9	3 6	336 T	30·14	162
„ (Redmires Fairthorne Lodge)	D. Doncaster, Esq.	8	2 0	1220	35·10	...
† „ (Res.)	E. M. Eaton, Esq., C.E.	10	5 0	1110 T	39·79	190
„ („ weekly)	" "	8	4 0	1110 T	39·44	...
D „ (Tylecote, Ranmoor)	J. Dixon, Esq.	5	1 0	610 T	34·21	173
† „ (Broomhall Park)	D. Doncaster, Esq.	10	2 0	330 T	29·00	166
„ (Rivelin)	E. M. Eaton, Esq., C.E.	10	4 0	564 T	35·77	178
„ („ weekly)	" "	8	4 0	564 T	35·69	...
† „ (Crookes)	" "	10	2 0	629 T	30·46	169
† „ („ weekly)	" "	8	2 0	629 T	30·37	...
D „ (Weston Park)	E. Howarth, Esq.	8	1 0	430 T	31·45	176
† „ (Victoria Station)	M. S. & L. R. Co.	9	3 6	188 T	25·66	159
„ (Tinsley Locks)	" "	9	... 0	117 T	27·79	148
D Tickhill (Sandbeck Park)	Mr. G. Summers	8	1 0	150 T	24·74	161
† Rotherham (Moorgate Grove)	R. Chrimes, Esq.	5	1 0	262 T	28·62	167
„ (Thrybergh)	W.H.R.CrabtreeEsqCE	8	1 0	184 T	29·06	168
D Tickhill	G. G. Phillips, Esq.	8	1 0	61 T	24·76	135
D Sheffield (Chapeltown)	Mr. D. Bell	8	5 0	582 L	28·52	164
Doncaster (Firsby)	W.H.R.CrabtreeEsqCE	8	1 3	189 T	32·49	172
D „ (Wadworth Hall)	Rev. J. C. Ross	8	1 0	190 T	27·01	173
„ („ „)	" "	5	1 0	190 T	26·87	173
D Bolsterstone (Waldershaigh)	C. M. Wilson, Esq.	8	3 1	950 T	31·80	205
D Wentworth Woodhouse	Mr. J. Hughes	5	0 6	360	32·14	104
Wortley	M. S. & L. R. Co.	9	3 6	548 T	29·88	165
Elsecar	" "	9	3 6	181 T	27·02	151
D Hoyland (King Street)	J. W. Wilson, Esq. 0	27·14	124
D Wath-upon-Dearne (Chapel St.)	Dr. Burman	8	1 0	185 T	27·58	165
Worsborough	M. S. & L. R. Co.	9	... 0	225 T	25·15	153
D Stainborough (Wentworth Castle)	W. Fisher, Esq.	8	2 6	520 T	28·26	162
Doncaster	M. S. & L. R. Co.	9	... 0	32 T	23·94	163
„ (Pumping Station)	WHR Crabtree,EsqCE	8	0 6	30 T	27·50	153
D „ (Magdalens)	Mr. C. Parkin	5	4 9	46 T	26·55	160
Dunford Brdg. (Up. Windleden) M	H. F. Marks, Esq., C.E.	12	2 2	...	44·50	...
† „ (Dearden Res.) M	" "	12	1 6	1244 T	44·55	...
† „ (Station)	M. S. & L. R. Co.	9	3 6	954 T	45·75	171
† „ (Reservoir)	H. F. Marks, Esq., C.E.	12	2 0	1111 T	45·28	178

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
		ft. in.	feet.	inches.	1895	
WEST RIDING—(con.)						
Greenfield (Chew Mount)	G. H. Hill, Esq., C.E..	7	0 7	...	49·40	...
(Yeoman Hey)		7	0 7	759	48·80	...
†Penistone (Carlcotes)	M. S. & L. R. Co.	9	4 0	1075 T	44·11	178
† " (Hazlehead)	" " "	9	3 6	717 T	34·80	181
† " (Ingbirchworth Res.)	J. H. Taylor, Esq. C.E.	8	1 3	853 T	36·01	166
Holmbridge (Yateholme)	O. J. Kirby, Esq., C.E.	7	1 0	861 T	52·60	...
† " (Holme Styes)	Mr. L. Hincliffe	7	2 0	830 T	45·80	...
† " (Boshaw Whams)	" " "	7	2 6	930 T	47·80	...
† " (Bilberry Reservoir)	" " "	7	2 6	820 T	53·40	...
♦ Barnsley (Church Street)	Dr. Sadler	5	5 2	350 T	28·96	187
,, (Beckett Square)	J. H. Taylor, Esq., C.E.	28·66	156
,,	M. S. & L. R. Co.	9	...	317 T	23·75?	123
† Saddleworth Station	M L. K. Jones, Esq.....	5	4 2	630 T	38·24	...
Barnsley (Cawthorne)	Rev. C. T. Pratt.....	5	1 6	340 T	31·18	...
Strinesdale [Oldham]	G. H. Hill, Esq., C.E..	5	4 0	815	35·82	...
† Meltham (Harden Moss)	J. W. Schofield, Esq....	8	1 2	1212 T	41·76	...
,, (,, ,) new g.	" " "	8	1 0	1212 T	43·11	...
Wessenden Head	" " "	8	1 0	1270 T	41·98	...
,, (Hollin Bank Moss)	" " "	8	1 0	1360 T	28·22?	...
,, (Great Butterley)	" " "	8	1 0	1110 T	37·90	...
,, (Bobus)	" " "	8	1 0	1200 T	39·04	...
Standedge (Castleshaw)	G. H. Hill, Esq. C.E..	8	4 6	876 T	43·48	...
,, (Redbrook Res.) old g.	L. K. Jones, Esq.	8	1 8	1150	40·85	...
,, (,, ,) new g.	" " "	8	1 6	1150	39·95	...
† Meltham (Brow Grains)	J. W. Schofield, Esq....	8	1 0	900 T	43·91	...
Denshaw (Ox Hey)	G. H. Hill, Esq., C.E..	5	4 6	1030	44·16	...
,, (New Year's Bridge)	" " "	5	4 0	1012 T	46·49	...
,, (Ready Con Dean)	" " "	5	4 6	1414	38·92	...
Meltham (Royd Edge)	C. L. Brook, Esq.	8	1 0	585 T	47·22	...
♦ " (Harewood Lodge) new g.	" " "	8	1 0	514 L	44·89	201
† " Grange	J. W. Schofield, Esq....	8	1 2	850 T	39·75	...
† Marsden (Deer Hill)	" " "	8	1 0	1149 T	44·42	...
,, (,, ,) new g.	" " "	8	1 0	1149 T	44·50	...
♦ Doncaster (Kirk Bramwith)	B. S. Brundell, Esq. C.E.	5	1 0	17 T	26·85	175
♦ Slaithwaite (Blackmoorfoot)	J. W. Schofield, Esq....	8	1 0	800 T	41·30	211
♦ Wakefield (Walton)	E. Simpson, Esq.	5	1 0	140 T	26·24	158
Huddersfield (Bank Field, Golear)	J. E. Ramsden, Esq....	5	1 0	400 T	38·47	174
,, (Firth Obs.= Cemetery)	Mr. J. Firth	8	4 0	400	34·80	175
♦ " (Dalton)	J. W. Robson, Esq.	12	1 0	350 T	39·22	166
Longwood (Bilberry Edge)	J. W. Schofield, Esq....	8	1 0	1090 T	34·30	...
♦ Ackworth (Nostell Priory)	Mr. J. Easter	5	4 0	...	29·68	148
♦ Mirfield (Cote Wall)	E. B. W. Balme, Esq..	8	0 9	200	32·03	160
♦ Wakefield Prison	Dr. H. Clarke	8	1 0	96 T	27·78	141
♦ " (Field Head)	R. Porter, Esq.	8	1 6	250 T	25·21	125
♦ " (Stanley Grange)	F. E. Haworth, Esq....	5	1 0	180 T	27·56	167
♦ Goole	W. E. Grayburn, Esq.	5	1 0	18 T	25·37	151

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. inches.	Days on which .01 or more fell.
		Diameter	Height Above Ground ft. in.	Height Above Sea Level feet.		
WEST RIDING—(con.)						
Rastrick	Messrs. J.T. Clay & Sons	5	20 0	380	30·53	141
Batley (Staincliffe Reservoir)	O. J. Kirby, Esq., C.E.	7	1 0	492 $\frac{1}{2}$	25·60	...
D Sowerby Bridge (Haugh End)	J. S. Rawson, Esq.	5	0 8	450 $\frac{1}{2}$	43·44	191
Halifax (Bents, Norland)M	" " "	5	0 8	800 $\frac{1}{2}$	37·76	...
D " (Bermerside Observatory)	J. Gledhill, Esq.	8	0 6	500	37·81	191
D " (Hall Ings, S. Owram)....	Rev. G. E. Aspinall	5	0 7	750 $\frac{1}{2}$	37·67	187
D " (Thorpe)M	J. S. Rawson, Esq.	8	0 8	345 $\frac{1}{2}$	45·66	...
D " ()	" "	5	0 8	345 $\frac{1}{2}$	46·26	192
D " (Public Library)	J. Whiteley, Esq.	8	1 0	625 $\frac{1}{2}$	36·87	145
+ " (Albert).....	J. A. Paskin, Esq., C.E.	5	1 0	795 $\frac{1}{2}$	36·17	...
+ " (Gibbet).....	" "	5	6 0	568 $\frac{1}{2}$	37·30	...
+ " (Ramsden Wood).....	" "	8	1 2	816 $\frac{1}{2}$	40·64	...
D Methley Park	J. Richardson, Esq. C.E.	5	0 9	98 $\frac{1}{2}$	28·98	125
Mytholmroyd (Ewood Hall).....	<i>News cutting</i>	41·39	...
Hebden Bridge (Falling Royd)...	A. R. Crossley, Esq....	4	1 0	479 $\frac{1}{2}$	45·02	198
" " (Summerfield)	" "	1	0	480	45·14	...
Halifax (Castle Carr)	J. A. Paskin, Esq., C.E.			750	45·79	184
+ " (Midgley Moor)M	" "	7	0 6	1350 $\frac{1}{2}$	46·08	...
+ " (Warley Moor)....M	" "	7	0 6	1425 $\frac{1}{2}$	43·61	...
+ " (Ogden)M	" "	8	1 3	990 $\frac{1}{2}$	44·99	...
" (Ovenden)	" "			1375	48·85	...
" (Widdop)	" "			1050	48·86	...
+ " (Walshaw Dean)....M	" "	8	0 3	1380 $\frac{1}{2}$	43·94	...
D South Milford Rectory	Rev. F. J. Young	5	1 2	70 $\frac{1}{2}$	26·46	173
Bradford (Queensbury).....	R. J. Foster, Esq.....	8	2 2	1050	40·48	144
" (Bowling Dyeworks)...	H. Ripley, Esq.....	8	1 0	490 $\frac{1}{2}$	35·91	168
" (Brayshaw Reservoir)...	J. Watson, Esq., C.E..	5	1 0	982 $\frac{1}{2}$	37·14	187
D " (Merton Road)	A. Wilson, Esq.....	5	0 6	443 $\frac{1}{2}$	37·38	194
D " (The Exchange).....	A. E. Preston, Esq., C.E.	8	65 6	395 $\frac{1}{2}$	30·49	181
D " (Allerton Road)	J. Clayton, Esq.....	5	1 0	522 $\frac{1}{2}$	36·70	193
D " (Thornton Road)		5	0 6	370 $\frac{1}{2}$	33·52	168
" (Thornton Moor)	J. Watson, Esq., C.E..	5	1 0	1218 $\frac{1}{2}$	46·31	227
" (Stubden) <i>old gauge</i> ...	" "	8	1 0	1075 $\frac{1}{2}$	49·03	232
" ()	" "	5	1 0	1071 $\frac{1}{2}$	41·66	232
" (Nan Scar, Oxenhope) M	" "	5	1 0	1101 $\frac{1}{2}$	49·50	...
" (Stairs Top)	" "	5	1 0	1401 $\frac{1}{2}$	46·87	...
" (Doe Park) <i>old gauge</i> ..	" "	8	1 0	810 $\frac{1}{2}$	48·24	205
" ()	" "	5	1 0	811 $\frac{1}{2}$	42·46	205
" (Manningham)	J. McLandborough, Esq	5	6 6	428 $\frac{1}{2}$	32·54	...
" ()	J. Priestman, Esq.....	5	1 0	507	35·41	177
" (Leeshaw Res.)M	J. Watson, Esq., C.E..	5	1 0	875 $\frac{1}{2}$	45·65	...
" (Chellow Dean)	" "	5	1 0	645 $\frac{1}{2}$	38·95	189
" (Hewenden Res.). <i>old g.</i>	" "	5	1 0	700 $\frac{1}{2}$	42·63	202
" ()	" "	5	1 0	701 $\frac{1}{2}$	38·67	202
" (Heaton Res.) <i>old g.</i>	" "	8	1 0	530 $\frac{1}{2}$	35·74	185
Leeds (Wortley Res.)	T. Hewson, Esq., C.E..	5	1 0	531 $\frac{1}{2}$	27·60	185
		8	0 9	307 $\frac{1}{2}$	31·92	164

DIVISION IX.—YORKSHIRE.—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1895	Days on which .01 or more fell.
		Diameter	Height Above Ground ft. in.	Height Above SeaLevel feet.		
WEST RIDING—(con.)						
Leeds (Knostrop)	T. Hewson, Esq., C.E..	8	0 9	72 T	30·54	161
D " (Holbeck)	Messrs. J. Rhodes & Co.	10	32 0	127 T	25·36	119
D " { " }	S. A. Marshall, Esq....	5	1 8	95 T	28·14	105
D " { " } W. WorksDepot)	T. Hewson, Esq., C.E..	8	0 9	93 T	30·71	168
D " (Museum).....	H. Crowther, Esq.....	10	46 0	177	30·44	181
" (Woodhouse Moor).....	T. Hewson, Esq., C.E.	8	0 9	307 T	30·23	174
D " (Cliff)	R. Reynolds, Esq.....	5	1 0	330	29·11	174
D " (Elmet Hall, Roundhay).....	J. H. Kitson Esq....	5	1 6	400 T	29·49	173
" (Weetwood Reservoir)	T. Hewson, Esq., C.E.	8	0 9	328 T	29·12	163
" (Lodge).....	J. P. Reay, Esq.	5	0 9	400 T	29·12	166
D " (Allerton Hill)	T. Fenwick, Esq., C.E.	5	0 7	418 T	29·21	184
D " (Oliver Hill, Horsforth)...	C. France, Esq.	3	1 0	250 T	32·27	175
D Shipley (Moor Head).....	Mrs. Knowles.....	8	10 0	500	31·92	143
Bingley (Gilstead Filters)	J. Watson, Esq., C.E.	5	1 0	572 T	29·53	180
Yeadon (South View House) ...	H. Harris, Esq.....	5	0 8	480 T	36·44	198
Adel (Lawns Wood)	Mr. C. S. Irvine.....	5	1 0	475 T	33·00	176
" (Eccup South)	T. Hewson, Esq., C.E..	8	0 9	390 T	32·11	176
" (" East)		8	0 9	375 T	30·88	172
+ Bingley (Sunnydale).....	J. Watson, Esq., C.E..	5	1 0	975 T	36·15	174
Harewood (Arthington)	T. Hewson, Esq., C.E.	8	0 9	139 T	33·04	172
Boston Spa	Rev. P. M. Eastman	5	1 0	...	27·23	...
Skipton(Gill Grange,Silsden)	M J. Watson, Esq., C.E..	5	1 0	883 T	31·66	...
D Ilkley	G. W. Worfolk, Esq..	5	20 0	331 L	34·83	152
+ " (Cherry Bank)	Mrs. H. Richardson ..	8	1 3	600	33·60	...
Skipton (Silsden Reservoir)	J. Watson, Esq., C.E..	5	1 0	560 T	32·42	179
Leathley (Lindley Wood S).....	T. Hewson, Esq., C.E.	8	0 9	312 T	36·12	198
" (" N).....		8	0 9	320 T	35·69	198
Slaidburn (Hareden Brook)	M H. Reah, Esq., C.E..	8	1 2	540	62·60	...
" (Langden Brook)		8	1 2	556	63·20	...
" (Whiteholme)	W. K. Wilkinson, Esq.	5	1 3	475 T	52·04	157
Skipton (Cringle's Reservoir)	J. Watson, Esq., C.E..	5	1 0	760 T	33·68	179
" (Chelker Reservoir)	M "	5	1 0	730 T	33·63	...
+ " (Craven Herald Office)...	E. Townsend, Esq.....	8	2 0	360	34·54	181
Slaidburn (Dunsop Houses)	G. W. Lund, Esq., C.E	8	1 0	450 T	56·61	165
" (Middle Knoll).....M	" "	8	2 6	1298 T	49·95	...
" (Brennand)	" "	8	1 0	820 T	64·40	180
" (Whitendale)	" "	8	1 0	830 T	61·94	177
" (Cabin Hill).....M	" "	8	3 1	1559 T	52·48	...
" (Baxton Fell)	M "	8	2 6	1540 T	54·43	...
York (Mount Villas)	J. S. Rowntree, Esq....	5	1 0	70	26·47	206
D " (Burton Croft)	G. Crawhall, Esq.	5	1 0	45 T	27·21	195
D " (Cherry Hill)	Mrs. H. Richardson ...	5	1 6	40	25·64	188
" (Phil. Soc. Gardens)	The Meteor. Council ..	8	1 9	53 T	25·82	188
" (" ")		8	1 9	53 T	25·83	190
D " (Bootham)	J. E. Clark, Esq.	5	0 4	50	26·04	175
D Wetherby (Ribston)	Mr. Jones	5	1 2	130 T	24·21	107
D Bolton Abbey Estate Office	A. Downs, Esq.....	5	1 2	350	35·98	170
Fewston (Swinsty E).....	T. Hewson, Esq., C.E.	8	0 9	460 T	41·21	196

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1895	Days on which .01 or more fell.
		Diameter ft. in.	Height Above Ground feet.	Height Above SeaLevel inches.		
WEST RIDING—(con.)						
Fewston (Swinsty W)	T. Hewson, Esq., C.E.	8 0 9	425 T	42·23	196	
" (Timble)	" "	8 0 9	720 T	40·86	197	
" South	" "	8 0 9	525 T	39·59	201	
" North	" "	8 0 9	525 T	36·73	201	
" (Spinksburn)	" "	8 0 9	636 T	34·31	188	
Blubberhouses	" "	8 0 9	575 T	39·51	192	
† Harrogate (Bog Valley Gardens)	J. Farrah, Esq.	5 1 0	344 T	34·83	193	
D " (The Stray)	Mr. Gledhill	5 1 0	...	35·83	186	
D "	"	5 1 0	...	36·14	186	
Skipton (Barden Res.) old g.	J. Watson, Esq., C.E.	8 1 2	746 T	40·21	216	
" "	"	5 1 0	746 T	40·18	216	
Otterburn-in-Craven	W. Gomersall, Esq.	5 1 0	510 T	41·07	174	
West End	T. Hewson, Esq., C.E.	8 0 9	787 T	44·76	183	
" (Thruscross)	"	8 0 9	900 T	40·83	201	
Skipton (Upper Res., Barden)	J. Watson, Esq., C.E.	5 1 0	1250 T	38·66	228	
" (Thorpe Fell ..,) M	"	5 1 0	1661 T	36·47	...	
Burnsall (Sandbed Beck)	M	5 1 0	676 T	38·27	...	
D "	Rev. W. J. Stavert	8 4 5	503	40·16	214	
Nun Monkton	G. Crawhall, Esq.	5 0 8	35 T	27·51	138	
† Knaresborough (Conyng'h'm Hall)	Mr. G. Knight	5 1 3	200 T	31·35	126	
D " (Farnham)	R. Elmhirst, Esq.	5 1 0	170 T	30·55	180	
D Ripley Castle	Mr. J. Tunnington	5 1 0	230 T	32·50	178	
D Settle (The Terrace)	J. W. Shepherd, Esq.	8 1 2	525 T	48·04	198	
D † Pateley Bdg. (Castle Stead)	Mr. Young	5 1 0	410	41·29	170	
" " (Grimwith Res) old g.	J. Watson, Esq., C.E.	8 1 0	890 T	38·94	196	
" " { "	"	5 1 0	893 T	39·22	196	
Pateley Moor (Smaden Head)	T. Hewson, Esq., C.E.	5 1 0	1201 T	34·66	...	
† Malham Tarn	Mr. Coulthard	5 1 0	1296 T	55·75	211	
D "	"	8 1 0	1296 T	55·33	211	
D Austwick (Crow Nest)	J. Howson, Esq.	8 1 0	570	44·13	188	
Dallow Moor (High Skeldon)	T. Hewson, Esq., C.E.	8 0 9	719 T	36·13	162	
" (Harper Hill)	"	8 0 9	859 T	40·69	176	
D † Ripon (The Red House)	F. D. Wise, Esq.	5 1 0	120	31·92	121	
D " (W.W. Lumley Moor)	Mr. G. Craggs	8 0 6	572 T	41·45	159	
† Ramsgill (Raygill House)	J. Watson, Esq., C.E.	5 1 0	925 T	45·03	198	
D † Arncliffe Vicarage	"	5 1 0	450 T	41·07	183	
D " (Amerdale)	Rev. W. A. Shuffrey	8 3 0	734 T	53·71	198	
† Nidderdale (High Riggs)	J. Hammond, Esq.	8 1 6	730	54·21	208	
" (East Gill Head)	J. Watson, Esq., C.E.	5 1 0	1010 T	47·81	185	
" (Rain Stang) M	"	5 1 0	1710 T	51·21	...	
" (Angram)	"	5 1 0	1470 T	45·01	...	
" (New Houses)	"	5 1 0	1150 T	52·06	135	
Kirkby Malzeard (Drovers' Inn)	T. Hewson, Esq., C.E.	8 0 9	633 T	38·16	165	
" (Hawset)	"	8 0 9	820 T	38·31	197	
" (Hambleton Hill)	"	8 0 9	1106 T	44·00	...	
" (Bagwith Brae).	"	8 0 9	697 T	41·56	188	

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above SeaLevel	1895	
		ft.	in.	feet.	inches.	
WEST RIDING—(con.)						
Kirkby Malzeard (Stone & Ears Wham)	T. Hewson, Esq., C.E.	8	0	9	1118 $\frac{1}{2}$	50·43
d Ripon (High Bank, Mickley) ...	Miss Harrison	5	1	6	225 T	34·37
Masham Moor (Benji Guide) ...	T. Hewson, Esq., C.E.	8	0	9	1412 $\frac{1}{2}$	43·41
" " (W Somerside) ...	" " "	8	0	9	960 $\frac{1}{2}$	35·87
" " (High Sour Mire) ...	" " "	8	0	9	884 $\frac{1}{2}$	35·62
" " (Leighton) ...	" " "	8	0	9	636 $\frac{1}{2}$	38·38
" " (Low Houses) ...	" " "	8	0	9	693 $\frac{1}{2}$	38·68
Oughtershaw Hall	C. H. B. Woodd, Esq..	8	1	6	1175 T	65·75
Sedbergh (Gate)	The Meteor. Council ...	5	0	6	400 T	45·47
d† " (Brig Flatts) ...	J. Handley, Esq.	5	1	0	300 T	47·17
† " (Thorns Hall)	Miss Sedgwick	5	1	0	400 T	48·69
EAST RIDING.						
Patrington (Spurn Head)	The Meteor. Council ...	8	1	0	27	19·90
d Hull " (Tranby Park)	W. B. Pugh, Esq.	5	2	6	46 $\frac{1}{2}$	26·71
d Market Weighton (Houghton) ...	G. Bohn, Esq., C.E. ...	5	1	0	161 $\frac{1}{2}$	29·33
d† " (Pearson Park) ...	E. A. Peak, Esq.	5	0	6	6	29·43
d Hedon (The Vicarage)	Rev. J. H. Richardson ...	5	1	0	...	25·67
d Cottingham	J. H. Hill, Esq.....	8	1	3	26 T	32·36
Market Weighton (Houghton) ...	Canon J. Wells	5	1	0	175 T	28·38
d Beverley (East Riding Asylum). " (Register House) ...	Dr. Macleod	5	1	0	175 T	26·21
" (Hen Gate) ...	G. A. Thompson, Esq...	5	1	0	22	31·21
" (Hull Bridge) ...	W. Evans, Esq.....	5	8	0	...	29·64
d Cherry Burton	H. J. Hildyard, Esq....	8	0	8	...	31·58
Mapleton Manor House	Mr. T. Clappison	5	4	0	74 T	30·41
d Market Weighton (Dalton Hall) ...	Mr. J. Allsop	8	1	4	150 T	32·55
d Hornsea (Elim Lodge)	T. B. Holmes, Esq. ...	8	1	3	30 $\frac{1}{2}$	30·80
Brandesburton (Hempholm) ...	W. Evans, Esq.....	5	2	6	11 $\frac{1}{2}$	28·13
d Middleton-in-the-Wolds	Rev. H. D. Blanchard. ...	5	1	0	156	27·98
d Pocklington (Warter)	J. Coxon, Esq.	5	1	10	230 T	34·95
Catton Rectory [York]	Rev. H. L. Puxley.....	5	0	2	50 T	27·79
d Driffield (Beverley Road). " (York Road) Snowdon.	Rev. J. T. Harwood ...	8	8	0	68 T	29·44
" (Highfield) ...M	W. E. Lovel, Esq. ...	5	1	0	76 T	32·61
Wetwang	" " "	5	1	0	76 T	31·96
d Thixendale	Mr. G. R. Merryweather ..	6	1	0	76	30·09
d Lowthorpe (The Elms)	Rev. E. M. Cole	5	1	0	235 T	30·77
d Ganton Hall [Scarborough].	Rev. W. H. Fox	10	0	10	425 T	35·81
Hunmanby (Holly Bank)	H. Onslow Piercy, Esq.	5	1	0	63 $\frac{1}{2}$	31·21
NORTH RIDING.						
d Malton	E. K. Spiëgelhalter, Esq.	5	1	0	50	27·50
† Old Malton	H. Hurtley, Esq. ...	10	1	0	75 T	27·23
d Terrington (Wiggan thorpe) ...	Mr. J. S. Upex	5	1	0	350 T	31·70
d Melmerby (Baldersby)	W. Gregson, Esq.	5	1	0	101 T	30·91
d Thirsk (Sowerby)	C. M. Swarbreck, Esq..	5	1	0	105 T	27·07

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1895	Days on which 1 or more fell
		Diameter	Height Above Ground ft. in.	Height Above Sea Level feet.		
NORTH RIDING—(con.)						
Thirsk (Sowerby)	A. C. Bamlett, Esq.	5	25·17	...
D Pickering (The Rectory)	Rev. G. H. Lightfoot..	5	0 8	180	27·05	191
D Bedale (Thorpe Perrow)	Mr. W. Culverwell ...	5	1 6	170	29·05	152
† Hawes Junction.....	The Meteor. Council ...	8	1 0	1135	55·80	220
† Aysgarth Vicarage.....M	Rev. F. W. Stow	3	1 0	644 T	41·14	...
D	" "	8	1 0	659 T	39·30	176
D † Leyburn (Bolton Hall)	Mr. F. Scrivener	8	1 0	420	38·68	175
D Seamer (Irton)	W. Millhouse, Esq. C.E.	8	1 0	94	34·09	165
D Scarborough (Osgodby).....	" "	8	1 0	166	31·98	151
D Boltby	A. C. Bamlett, Esq.	30·53	108
Cloughton (Burneston)	Rev. J. T. Hartley ...	5	3 9	110 T	27·75	...
D Hawes (South Lunds School)	Mr. Masheter	5	1 0	1100	55·18	170
D Northallerton	W. Stead, Esq., C.E....	8	1 0	130	28·38	189
D " (Osmotherley).....	T. Yeoman, Esq.	8	0 8	650	25·69	139
Richmond (The Grove)	G. Roper, Esq.	5	1 3	430 T	32·88	...
D	Mrs. Davidson	5	1 1	463 T	32·53	156
Northallerton (Rounton Grange). .	The Royal Meteor. Soc	8	1 0	242	28·42	188
D Ingleby Manor	The late Hon. H. Sidney	5	0 11	440 T	34·48	186
D " Greenhow Vicarage.....	Rev. J. Hawell	5	1 0	448 T	32·64	196
D East Layton	Mrs. Proud	5	1 0	575 T	30·15	147
D Stanwick Park [Darlington]	Mr. W. Higbie	5	1 1	300 T	35·48	187
D Forcett Park ["]	J. Michell, Esq.	5	1 0	360 T	31·91	198
Whitby (Royal Crescent)	T. Newbitt, Esq.	8	1 6	150 T	30·22	154
Bowes	G. J. Symons, Esq. F.R.S	8	1 0	950	35·90	...
Guisborough (Hutton Hall)	Sir J. W. Pease, Bt., M.P.	5	1 3	400 T	33·29	169
D " (Lockwood Beck Res) .	W. I. Anson, Esq., C.E.	8	1 0	632 T	33·52	184
Middlesborough (Albert Park)...	J. M. Parnaby, Esq.	8	2 0	30	29·44	...
D Barnard Castle (Hury Res.).....	D. D. Wilson, Esq.	8	1 0	866 T	42·63	206
D Mickleton	G. J. Symons, Esq. F.R.S	8	1 0	...	33·34	170
† " (Lime Kiln Pasture)M	" " "	8	1 0	1175 T	32·90	...
† " (" , " , ")M	" " "	8	1 0	1175 T	33·60	...

DIVISION X—NORTHERN COUNTIES.

DURHAM.

D Darlington (Hurworth Grange)...	J. E. Backhouse, Esq..	5	1 0	161 T	28·76	187
D " (Elcott, Hurworth)...	Rev. W. E. Stewart ...	5	1 0	121 T	29·38	206
D " (Dinsdale Rectory)...	Rev. J. W. Smith	5	2 0	54 T	25·74	...
D " (South End)	Mr. N. Black	8	0 10	140	28·98	182
D † " (Cleveland Parade)...	S. Hare, Esq.	5	1 0	160 T	28·21	187
D " (Langholme Crescent)...	J. H. Simpson, Esq.	5	1 6	165 T	30·17	184
D " (Hummersknott) ...	Mr. J. Short	5	1 0	...	33·03	142
D " (Brinkburn)	Mr. H. Waud	8	1 6	165	29·33	139
D Barnard Castle (County School)...	E. Wells, Esq.	5	1 6	540 T	33·16	184
† Staindrop (Raby Castle)	Mr. R. W. Smith	8	0 9	460 T	43·64	...
Stockton (Rimswell)	W. Anderson, Esq., C.E.	5	1 0	150 T	27·60	199

DIVISION X.—NORTHERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height above Ground	Height above SeaLevel		
		ft.	in.	feet.	inches.	1895
DURHAM—(con.)						
d Stockton (Norton)	H. Matravers, Esq.	8	1 2	150	28·41	124
d Bishop Auckland (Mt. Pleasant) (The Castle)....	E. Lingford, Esq.	6	3 0	408	30·85	172
d Witton-le-Wear (Witton Tower)....	Mr. E. Ford	5	1 0	300	30·85	167
d West Hartlepool	W. R. I. Hopkins, Esq.	5	0 8	420 T	34·17	170
d Hartlepool (Heugh Lighthouse)....	Mr. H. Lamb.....	5	63 0	84	22·43	182
d (Hurworth Burn) ...	W. Belk, Esq., C.E.	5	0 6	34 T	26·44	203
d (Hart Reservoir)....	T. Fenwick, Esq., C.E.	5	0 7	360	33·27	137
d " " (Waskerley 6)....	" " " "	8	0 9	164	28·25	151
d† Wolsingham	Mr. A. Mitchell	5	1 0	464 T	38·78	211
d Tow Law	Rev. T. E. Espin	5	1 0	990	37·84	163
Durham Observatory.....	The Meteor. Council ...	12	4 0	340	27·91	216
Weardale W.W. (Tunstall) ...	R. Askwith, Esq., C.E.	8	1 2	724 T	40·41	177
† " " (Smiddy Shaw)....	" " " "	8	4 2	1229 T	37·36	...
d Seaham Harbour Cemetery	Mr. R. Leith	8	1 6	150	30·07	202
" Vicarage	Rev. A. Bethune	5	0 6	80 T	29·54	107
d Hall	Mr. R. Draper	5	1 0	106 T	30·45	141
Houghton-le-Spring (Myre Hall)....	D. Balfour, Esq., C.E.	5	1 0	261 T	32·96	162
d Shotley Bridge	E. H. Hayward, Esq.	5	0 8	345 T	34·14	144
d Sunderland (W. Hendon Ho) No. 5 (., ., ., .) No. 6	T. W. Backhouse, Esq.	5	1 0	130 T	30·96	175
d " (Fever Hospital)	Med. Officer of Health	5	1 0	130 T	31·15	...
d " (Willow Bank Lodge)....	C. Stamp, Esq.	5	2 6	100	34·12	195
d Gateshead (Eighton Cottage) ...	Miss Favell	5	3 1	515	31·05	198
Ryton-on-Tyne	J. W. Smith, Esq., M.D.	5	1 6	...	29·98	...
NORTHUMBERLAND.						
d Haltwhistle (Unthank Hall).....	Rev. D. Dixon Brown..	5	0 9	380 T	31·33	175
d Ovingham (W. Tyne Colliery)....	J. K. Guthrie, Esq., C.E.	8	2 0	179 T	30·55	193
d Corbridge (Howden Dene)	J. H. Straker, Esq.	5	0 9	200	30·88	181
d Newcastle (Clifton Road).....	R. Foster, Esq.	8	1 6	314 T	28·09	178
d (., ., .) M	" " " "	5	1 0	314 T	28·20	...
d (Lit. and Phil. Soc.)....	H. Richardson, Esq.	8	55 0	160	30·32	122
,, (Chronicle Office)....	A. Yarrow, Esq.	8	30 0	148	29·35	169
,, "	N. H. Martin, Esq.	8	45 0	200	27·12	209
,, (Gladstone Terrace)....	W. Smurthwaite, Esq.	2	6 0	156 T	26·94	113
,, (Portland Road)	Mr. T. Bone	4	9 6	...	27·91	124
d (Town Moor)	A. Wright, Esq.	5	2 0	201 T	30·16	175
,, (Wellburn, Jesmond). North Shields (Post Office)	W. H. Holmes, Esq....	5	1 6	161 T	32·35	171
,, " (Tynemouth)	The Meteor. Council ...	8	1 4	100	26·88	167
	P. J. Messent, Esq., C.E.	5	1 8	65 T	27·02	177

DIVISION X.—NORTHERN COUNTIES—(*continued.*)

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.
		Diameter	Height Above Ground.	Height Above Sea Level	
		ft	in.	feet.	inches.
NORTHUMBERLAND—(con.)					
Newcastle ar.d Gateshead W. W.	Whittle Dean	G. Smith, Esq.	10	27·61 ...
	Swinburn (Woodford).....	„ „ „	10	0 6	500 $\frac{1}{2}$ 34·36 ...
	North Tyne (Green Crag)	„ „ „	10	0 6	800 $\frac{1}{2}$ 30·36 ...
	„ „ Valley	„ „ „	10	0 6	300 $\frac{1}{2}$ 30·35 ...
	Hallington	„ „ „	10	0 6	469 $\frac{1}{2}$ 35·72 ...
	„ (Fawcett)	„ „ „	10	0 6	563 $\frac{1}{2}$ 32·37 ...
	Gunnerton Burn (Camphill)	„ „ „	10	0 6	676 $\frac{1}{2}$ 27·82 ...
d Angerton Hall	Mr. R. Elliott	5	1 0	...	35·62 150
d Morpeth (Meldon Park)	Mr. J. Finlay	5	1 0	350	33·09 168
„ (Stobhill)	Captain Terry	5	1 0	...	30·63 196
d „ (Bothalhaugh Garden)	Hon. & Rev. W. C. Ellis	5	0 10	35?	30·30 195
d „ (Lawn)	„ „ „	5	0 10	130	30·12 196
„ („) M	„ „ „	5	0 10	135	30·24 ...
Scots Gap (Rothley Lake)	J. Daglish, Esq.	5	0 6	665 $\frac{1}{2}$ 37·62 163	
† Redesdale (Horsley)	G. Smith, Esq.	8	1 0	600	25·25 ...
Rothbury (Brinkburn Priory)	A. H. Cadogan, Esq.	8	1 2	257 $\frac{1}{2}$ 34·73 ...	
d „ (Cragside)	Lord Armstrong, C.B.	8	1 0	400 $\frac{1}{2}$ 38·66 181	
† Redewater (Blakehope)	G. Smith, Esq.	8	1 1	830	33·97 ...
† „ (Ellis Crag)	„ „	8	1 0	1200	35·92 ...
† „ (Chattlehope)	„ „	8	1 0	830	34·04 ...
† „ (Catscleugh)	„ „	8	1 0	794	35·97 ...
d Alwinton (Harbottle Castle)	Mr. J. Clark	5	1 0	500	35·85 162
„ (Biddleston Hall)	P. Dodds, Esq.	5	1 0	820 $\frac{1}{2}$ 39·42 153	
Whittingham (Callaly Castle)	Major Browne	10	5 1	...	31·50 ...
Alnwick Castle	The Meteor. Council	5	0 4	178	37·48 206
d Howick Hall	Rt. Hon. Earl Grey	8	0 10	121 $\frac{1}{2}$ 32·90 186	
Cheviot (Broadstruther)	M G. P. Hughes, Esq.	8	1 8	1694	84·00 ...
Wooler	Dr. R. Walker	5	0 10	176 $\frac{1}{2}$ 35·52 ...	
d Bamburgh	Mr. W. C. Good	5	1 0	75 $\frac{1}{2}$ 28·40 166	
d Pawston [Coldstream]	B. P. Selby, Esq.	8	1 0	328 $\frac{1}{2}$ 32·71 200	
Wooler (Milfield)	G. Grey, Esq.	5	0 6	215 $\frac{1}{2}$ 30·52 ...	
„ („ Hill)	„ „	5	3 0	695 $\frac{1}{2}$ 25·14 ...	
d Ancroft (Cheswick)	Gen. Sir W. Crossman.	5	0 8	100 $\frac{1}{2}$ 29·21 206	
CUMBERLAND.					
d Millom (Leyfield)	Cedric Vaughan, Esq. CE	5	1 2	81 $\frac{1}{2}$ 38·90 188	
d Kirksanton (The Croft)	J. E. Brockbank, Esq.	5	1 5	...	33·50 179
† Duddon Valley (Ulpha Vic.)	Rev. W. Kewley	5	1 3	175	59·61 211
d Eskdale	Rev. R. H. Snape	5	1 6	130?	59·34 214
d Seascale (Whinthwaite)	Dr. Hellon	5	1 0	52 $\frac{1}{2}$ 32·73 161	
Braystones	W. H. Watson, Esq.	10	3 6	36	30·41 ...
Seawfell Pike	M G. J. Symons, Esq. F.R.S.	4	0 6	3200	93·75 ...
Sprinkling Tarn	M „ „	4	0 6	1985	104·30 ...
Wastdale Head	„ „	4	0 6	204 $\frac{1}{2}$ 65·75 ...	
Styhead Tarn	„ „	4	0 6	1472 $\frac{1}{2}$ 83·25 ...	
† The Styte	M „ „	4	0 6	1077 $\frac{1}{2}$ 127·65 ...	
† „ „ New S.E. gauge	M „ „	4	1 0	1077 $\frac{1}{2}$ 126·00 ...	

DIVISION X.—NORTHERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. inches.	Days on which 0·1 or more fell
		Diameter	Height Above Ground. ft. in.	Height Above Sea Level. feet.		
					1895	
CUMBERLAND—(con.)						
Gable Hawes	M G. J. Symons, Esq. F.R.S.	8	... 0	1077 T	70·90	...
†Seathwaite	M „ „ „	4	0 6	422 T	101·70	...
D „	M John Marshall, Esq.	5	1 0	422 T	99·73	200
*† „	M G. H. Hill, Esq., C.E.	5	1 0	420 T	97·34	...
Ullscarf	M G. H. Hill, Esq., C.E.	7	1 0	2100 T	87·10	...
Egremont (Park Ho., Bigrigg)	P. L. Addison, Esq.	5	4 0	280	40·68	194
D Cleator (The Flossh)	D. Ainsworth, Esq.	5	1 11	208 T	41·67	145
†Helvellyn (Birkside)	M G. H. Hill, Esq., C.E.	7	1 0	1900 T	61·50	...
†Wythburn	M „ „ „	7	1 0	580 T	71·10	...
D Borrowdale Vic.=Rosthwaite ..	Rev. A. J. Heelis	5	1 0	330 T	77·60	195
D† Buttermere (Hassness)	Mr. S. Stewart	5	1 0	355	73·91	205
D† Borrowdale (Grange)	Mr. Threlkeld	5	0 9	271 T	68·03	186
Armbeth Fells (The Pewitts)	M G. H. Hill, Esq., C.E.	7	1 0	1650 T	70·30	...
Helvellyn (Whiteside)	„ „ „	7	1 0	2100 T	65·30	...
Thirlmere (Dale Head Hall)	„ „ „	7	1 0	620 T	64·60	...
D† Whitehaven (Irish Street)	Dr. I'Anson	5	1 1	21 T	37·52	164
D† Keswick (Barrow House)	Miss E. G. Langton ...	8	0 6	282 T	59·64	207
D Distington (Gilgarron)	Mr. A. Kydd	5	4 9	470 T	35·34	154
Ullswater (Hallsteads)	S. A. Marshall, Esq.	5	2 0	497 T	44·65	...
Keswick (Deer Close)	John Marshall, Esq.	7	1 9	300 T	48·63	205
„ (Derwent Island) old	„ „ „	5	0 7	280	49·63	200
„ (Eskin Place) new	J. Postlethwaite, Esq.	5	0 6	290	48·41	200
D „ (Bank)	J. F. Crosthwaite, Esq.	5	1 0	265 T	48·32	193
D† „ (Shu-le-crow)	A. Mitchell Dawson, Esq.	5	0 7	296 T	51·58	204
D Cockermouth (Whinfell Hall)	W. Robinson, Esq.	5	2 0	265 T	42·37	206
D „ (Brandlingill)	Col. F. R. Sewell	5	1 0	320 T	42·65	179
D Bassenthwaite (Mire House)	Lady Jane Spedding	5	0 6	300 T	47·60	154
D „ (Bassenfell)	Mrs. S. G. Rathbone	8	1 0	384	38·52	183
D† Cockermouth (Higham)	Miss Hoskins	5	1 0	478 T	39·76	186
D „ (Broughton Grange)	G. S. Wilson, Esq.	5	1 3	209 T	35·53	167
Penrith (Nandana)	G. Varty Smith, Esq.	5	4 0	650 T	28·83	154
† „ (Fell Lane, Fir Bank)	T. Lester, Esq.	5	1 0	575 T	31·21	175
„ (Greystoke)	H. Walker, Esq.	5	1 3	650	38·74	...
D „ (Belle View)	Mr. M. Rowe	5	4 0	640	35·98	211
D „ (Edenhall Vicarage)	B. W. Lovejoy, Esq.	5	1 0	310 T	31·68	196
„ (Kirkland Vicarage)	Rev. A. Edwards	5	1 0	640 T	33·76	...
D† Blencowe School	T. Fawcett, Esq.	8	0 9	601 B	36·96	198
Maryport (Netherhall)	H. P. Senhouse, Esq.	8	0 6	27 T	32·01	142
D Penrith (Nunwick Hall)	Mrs Heywood Thompson	5	1 0	298 T	30·49	175
D Melmerby	Rev. W. Y. Craig	5	... 0	...	34·47	137
D Mealsgate (Uldale Rectory)	Rev. J. Greenwood	5	1 4	550	44·12	173
D Aspatria (Brayton Hall)	Mr. W. Stewart	8	2 0	200	43·46	184
D „ (Brookfield)	J. J. Jopling, Esq.	5	0 9	124 T	37·78	219
D Carlisle (Rose Castle)	Miss E. W. Bardsley	8	0 8	200	31·90	180
† „ (Wreay Vicarage)	Rev. A. R. Hall	5	2 0	310 T	33·66	204
† „ (Cemetery)	S. Cartmell, Esq.	8	3 0	114 T	32·34	191
„ (Rickerby House)	M. MacInnes, Esq.	8	1 0	50 T	29·13	...

DIVISION X.—NORTHERN COUNTIES—(*continued.*)

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1895	Days on which .01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level		
			ft.	in.	feet.	
CUMBERLAND—(con.)						
Carlisle (Stanwix).....	B. Scott, Esq.....	8	1	6	100	32·04
D " (Castletown).....	Mr. A. Smith	5	1	6	...	30·58
D " (Scaleby)	The Royal Meteor. Soc.	5	1	0	112	35·07
D Brampton (Denton House)	Mr. J. Charlton	5	1	5	541 $\frac{1}{2}$	31·46
" (,, ,) ... M	,, ,	5	1	2	541 $\frac{1}{2}$	31·16
WESTMORELAND.						
Witherslack (Halecote)	Rev. Canon Cross	5	1	0	100 T	45·94
D Kendal (Natland Park).....	Mrs. Shipley	5	1	0	195 T	44·83
D " (Kent Terrace)	R. J. Nelson, Esq.	5	1	6	146 T	47·92
D " (Underfell)	W H. Crewdson, Esq.	8	1	0	300 B	49·44
D " (Hawesmead)	G. F. Braithwaite, Esq.	8	0	6	175 $\frac{1}{2}$	47·54
" (Ellergreen)	J. Cropper, Esq.	5	1	6	270 T	52·78
D Bowness (Fallbarrow)	H. E. Rawson, Esq....	8	1	0	135 T	53·66
D Windermere (Woodland Terrace)	Rev. T. Mackereth ...	5	6	5	376	49·09
Longsleddale	Mrs. Burrows	5	6	0	512 T	60·25
Ambleside (Skelwith Bridge)	A. J. Adams, Esq.....	5	1	8	190 T	66·32
Little Langdale (Fell Foot) ... M	S A. Marshall, Esq....	5	2	2	380	85·30
† Ambleside (Lesketh Howe)	F. M. T. Jones, Esq.	5	2	6	175 T	62·95
D Elterwater (Birch Hill)	Capt. Robinson	5	1	1	243	70·24
D Dungeon Ghyll	S. A. Marshall, Esq.	5	0	5	310	91·41
Mickleden	M	5	1	6	311	88·05
Mickleden	M	5	1	6	490	103·50
D† Grasmere (High Close)	E. B. W. Balme, Esq....	8	0	9	553 T	67·18
D " (Pavement End)	T. A. Green, Esq.	5	1	0	211 T	69·85
D Ravenstonedale (Brownber)	J. Fothergill, Esq.	5	3	0	826 T	41·69
Orton Vicarage	Rev. E. Holme	5	3	6	770 T	50·28
D† Kirkby Stephen (Redmaine Ho.)	Mrs. T. Mason	5	1	0	574 T	45·29
Fairfield	M T. A. Green, Esq.	5	1	0	2860 T	67·09
M	M	8	1	0	2860 T	68·39
Asby (Town Head)	Mr. J. Clemmet	5	1	0	685 T	45·23
Grisedale (Ruthwaite Lodge) M	Mr. A. Milne	8	1	6	1750	79·87
D† Patterdale Hall	," , ,	7	1	3	490 T	65·56
Appleby (Ormside)	Rev. J. Brunskill	5	4	0	480	33·34
D " (Castle Bank)	C. R. Rivington, Esq....	5	1	2	440 T	35·97
Ullswater (Swarth Fell)	M G. J. Symons Esq. F.R.S.	5	1	3	1000 T	46·00
Lowther Castle [Penrith]	Mr. F. Clarke	8	3	0	750 T	38·32

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS.

MONMOUTH.

D† Marshfield (Llwynarthan)	F. G. Evans, Esq.	5	1	1	72 B	36·48	161
D Portskelewett (Sudbrook)	T. D. Roberts, Esq. C.E.	8	1	6	53 T	31·85	159
(Caldicot Hall)	Rev. E. T. Williams ..	9	1	3	40	33·25	...
Newport (Friar Street Yard) ...	The Meteor. Council	36·73	173
" (Ynis-y-bro)	,, , ,	5	1	0	115	36·76	179

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1895	Days on which >01 or more fell.
		Diameter	Height Above Ground.	Height Above SeaLevel		
		ft.	in.	feet.		
MONMOUTH—(con.)						
d Ynysddu (W. W. Pontllanfraith)	O. Thomas, Esq.	5	1 0	801 T	50·25	162
d Chepstow (Shirenewton Hall) ...	E. J. Lowe, Esq., F.R.S.	8	1 0	531 T	39·46	177
d " (The Mount).....	G. M. Smith, Esq.	5	1 0	150 T	36·07	148
d " (Piercefield Park).....	H. Clay, Esq.	5	1 6	300	36·62	154
v " (Itton Court).....	E. Curre, Esq.	8	3 6	390	37·47	133
d Llanfrehfa Grange Tredunnock	F. J. Mitchell, Esq. Rev. C. T. Salusbury....	5	4 0	326 T	39·31	152
d Abersychan (The Hawthorns)...	J. W. Mulligan, Esq., MD	5	1 0	755 T	51·87	193
d Tredegar (The Willows)	G. A. Brown, Esq.	8	1 0	1024 T	56·55	162
Blaenavon Gas Works	C. White, Esq.	5	0 9	980	49·96	...
d Monmouth (School House)	E. H. Culley, Esq.	5	1 3	76	30·61	170
d " (The Hendre)	Mr. Coomber	8	1 0	176 T	29·19	173
Abergavenny (Larchfield)	Dr. Glendinning	5	1 0	240 T	35·15	153
" (Dyne House)	Dr. Steel	5	1 2	220 T	37·61	167
d " (The Chain).....	W. Baker Gabb, Esq.	5	1 0	250	38·71	187
d Llantilio Court	Sir H. M. Jackson, Bt.	5	0 10	207 T	34·85	133
Llantilio Crosseny (Brynderie)	Lady E. M. Jackson ...	5	1 2	600	30·90	142
d Llanvihangel Court	Col. Sturt	5	2 4	508 T	37·61	177
" " Crucorney	M. " "	5	2 4	508 T	38·39	...
d Monmouth (Pentwyn)	Mr. J. Winfield	5	1 0	489	37·22	...
	Rev. J. T. Harding ...	5	1 0	191 B	28·07	137
GLAMORGAN.						
d Barry	J. Bell, Esq.	5	4 0	191 T	32·36	163
* Cowbridge (Fonmon Castle)....	O. H. Jones, Esq.	8	1 2	130	39·64	155
d Barry W. W. (Biglis)	E. W. Waite, Esq., C.E.	5	1 0	20 T	30·47	149
" (Pencoedtre)	C. H. Priestley, Esq. C.E.	5	1 0	200 T	33·99	...
Cardiff (Cogan Pill, Landough)	C. H. Priestley, Esq. C.E.	5	1 0	122 T	32·48	154
" Sanatorium	Dr. Walford	5	6 3	...	32·99	157
d " Castle.....	Mr. A. Pettigrew	5	1 0	38 T	35·04	163
d " (Ely)	C. H. Priestley, Esq. C.E.	8	1 0	53 T	38·56	170
d " (Lisvane)	" " "	5	1 0	150	33·02	160
" (New Filters, Heath)....	" " "	5	1 0	132	37·87	168
" (Llanishen Res.)	" " "	5	1 0	155	36·47	160
d Porthcawl (The Rest)	G. Evans, Esq.	5	1 0	60	31·07	140
d Cowbridge (Ash Hall)	late D. Owen, Esq. ...	8	1 0	315 T	38·63	166
Gower (Penmaen)	Miss Bostock	5	1 0	300 T	36·47	132
d Oystermouth (Newton)	Rev. S. Jones	5	0 9	279 T	39·03	188
d Pontypridd (The Reservoir)	W. Jones, Esq.	5	1 0	300	52·52	122
d Swansea (Sketty)	T. T. Wood, Esq.	5	1 0	281 T	40·18	171
Morriston (Glanravon)	J. Naysmith, Esq.	5	1 0	53 T	41·27	183
d Neath	E. C. Pole, Esq.	5	1 0	204 T	40·90	173
d " (Fairy Land)	Major Green	5	1 9	170 B	42·72	183
d " (Glyncoorwg)	T. F. Brown, Esq., C.E.	5	4 6	717 B	75·33	195
d Mountain Ash (Maesydderwen)	M. Morgan, Esq.	5	1 0	483 T	55·45	165
d Treherbert (Bute Colliery)	Sir W. T. Lewis, Bt. ...	5	1 0	670	70·84	154
d " (Tyn-y-waun)	A. R. Cawley, Esq. ...	5	1 0	800	74·86	180

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1895	Days on which .01 or more fell
		Diameter	Height above Ground.	Height above SeaLevel		
			ft.	in.	feet.	
GLAMORGAN—(con.)						
† Treherbert (Tyn-y-waun) M	A. R. Cawley, Esq.	5	1	0	800	75·54
D Gorseinon (Penllergaer)	Sir J.T.D. Llewelyn, Bt.	5	3	0	240 T	41·46
D Rhondda (Castell-nos Res.)	W. Jones, Esq.	5	1	0	1110	48·57
D Aberdare (Cwmaman)	W. J. Heppell, Esq.	5	2	3	740 T	63·63
D " (The Mardy)	Sir W. T. Lewis, Bart.	5	2	0	431 T	57·69
D† " (Abernant)	Evan Jones, Esq.	5	4	6	430	57·26
D Felindre (Lliw Reservoir)	R. H. Wyrill, Esq., C.E.	8	1	3	426 T	45·44
D Merthyr Tydfil (Plymouth Wks.)	T. H. Bailey, Esq.	5	0	6	497 T	56·82
D Dowlais (Gwernllwyn)	R. C. Harrison, Esq.	5	1	9	1035 T	53·95
" (Cwm Bargoe)	G. A. Lundie, Esq., C.E.	5	1	0	1237 T	42·26
D Ystalyfera (Wern Schools)	Mr. J. Williams	5	1	3	230 T	56·33
" (Tanyrallt)	Miss H. A. Lewis	8	1	6	300	53·85
CARMARTHEN.						
D Llanelly (Old Market Place) ...	G. Watkeys, Esq., C.E.	5	10	0	35 T	35·28
" (Cwmlliedi W.W.)	" " " " "	5	3	0	240 T	43·41
Llandilo (Dynevor Castle)	Rt. Hon. Lord Dynevor	8	1	0	202 T	44·83
D Llandovery	J. Watkins, Esq.	5	1	0	217 T	41·36
PEMBROKE.						
Pembroke (Stackpole Court)	Rt. Hon. Earl of Cawdor	6	1	6	60 T	34·17
St. Ann's Head	The Meteor. Council	8	0	8	150	31·12
D Haverfordwest (High Street) ...	E. P. Phillips, Esq.	5	1	0	95 T	38·79
D St. David's	Dr. W. P. Propert	5	1	0	216	31·05
D Llanrhian Vicarage	Rev. J. Lewis	5	1	0	295 T	32·83
D Newport (The Castle)	Genl. C. S. Sturt	8	1	2	240	36·82
D Castle Malgwyn [Llechryd]	Mr. Evasion	5	1	0	...	37·02
CARDIGAN.						
D Troedyraur Rectory	Rev. R. J. Lloyd	5	1	0	140?	36·71
Tregaron Vicarage	Rev. T. Phillips	5	1	0	520?	39·03?
D Strata Florida (Hafod)	T.J. Waddingham, Esq.	5	1	0	580 T	50·07
D Aberystwith (Castle Grounds) ...	A. Thomas, Esq.	8	1	0	59	25·68
D " (Gogerddan)	Sir Pryse Pryse, Bart.	5	1	0	80 B	42·04
BRECKNOCK.						
† Nanthir Reservoir [Aberdare] ...	O. Williams, Esq., C.E.	5	1	0	860 T	54·63
" " " " " M	" " " " "	5	1	0	860 T	54·97
D Colbren (Penwyllt)	Mr. G. Palmer	5	1	0	1108 T	61·16
D† Taff Fechan (Pentwyn Res.) ...	T. F. Harvey, Esq., C.E.	5	1	0	1120	60·89
† " " " " " M	" " " " "	5	1	0	1120	60·20
† Cardiff WW (Cwm Taff Fawr No5)	J.A.B. Williams, Esq., C.E.	5	1	0	1143 T	60·97
† " " " " " No1 M	" " " " "	5	1	0	2350 T	65·08
" " " (Cantref Res.) ...	" " " " "	5	1	0	1120	59·06
" " " (Cwm Taff Fawr No6)	" " " " "	5	1	0	1328 T	72·12
D† Taff Fechan (Neuadd Res.) No. 1	T. F. Harvey, Esq., C.E.	5	1	0	1462	60·03
† " " " (No. 1 M)	" " " " "	5	1	0	1462	60·14
" " " (No. 4)	" " " " "	5	1	0	1487	70·15

DIVISION XI.—MONMOUTH, WALES AND THE ISLANDS—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. — 1895	Days on which .01 or more fell.
		Diameter	Height above Ground.	Height above SeaLevel		
		ft.	in.	feet.	inches.	
BRECKNOCK—(con.)						
Taff Fechan (Neuadd Res.)	No. 2 T. F. Harvey, Esq., C.E.	5	1	0	1993	69·03
" "	No. 5 " "	5	1	0	1515	74·26
" "	No. 7 " "	5	1	0	2017	74·68
" "	No. 8 " "	5	1	0	1723	79·63
" "	No. 3 " "	5	1	0	1843	52·96
" "	No. 9 " "	5	1	0	1997	54·22
" "	No. 6 " "	5	1	0	2099	83·65
Crickhowell (Glanusk Park).....	Sir J. R. Bailey, Bt.	5	1	0	290	38·87
" (Penmyarth)	S. H. Cowper Coles, Esq.	5	1	0	330	37·77
†Brecknock (Cantref Rect.) old g.	Rev. J. J. Evans	5	1	0	630 T	44·38
† " (The Barracks)	Colonel Bromhead	5	1	0	630 T	43·38
† " (Llandefaelog-fach)..	Rev. W. Williams....	5	1	0	660 T	42·85
" " ("new g.")	" " " "	5	1	0	660 T	37·05
D Hay (Gwernyfed Park).....	Major Wood	5	1	0	350 T	32·46
D Builth	Dr. Baldock Fry	5	1	0	430 T	31·03
D " (Abergwesyn Vic.)	Rev. J. Jones	5	1	0	904 T	60·35
Newbridge (Llysdinam)	Mrs. Lister Venables...	5	1	3	640 T	29·90
RADNOR.						
Glasbury (Woodlands)	A. Battiscombe, Esq....	5	1	0	300 T	31·80
Old Radnor (Evancoyd)	Mrs. Mynors	8	1	0	760	30·22
D New Radnor (Downton)	Col. Pearson	5	0	8	712	36·15
D " (Ednol)	Mr. W. Jones	5	1	0	950	40·39
D Llandegley (Gwern-i-Arwlwydd)	Mr. J. Campbell	5	2	0	1000	33·68
D Pen-y-bont.....	Mr. J. Hamer	5	3	6	788	28·78
† Rhayader (Nant-y-car)	M G. J. Symons, Esq., FRS	5	1	0	1545	65·15
D " (Tyrmynydd)	G. M. Yourdi, Esq., CE	5	1	0	832 T	52·26
D " (Nantgwillt) ...old g.	" " " "	5	1	0	768 T	50·41
D " ("new g.")	" " " "	5	1	0	764 T	53·36
† " (Bwlchyrhendre) ...M	G. J. Symons, Esq., FRS	5	1	0	1585	55·55
D " (Claerwen)	" " " "	5	1	0	1250	46·65
† " (Pryddellau)	M " " " "	5	1	0	1710	57·25
D " (Abergwngy)	E. Percy Fairbairn, Esq.	5	1	0	1200	45·95
Knighton	E. Percy Fairbairn, Esq.	5	1	0	570 T	33·84
MONTGOMERY.						
† Llangurig (Esgair Clochfan) M	G. J. Symons, Esq., FRS	5	1	2	1330	39·40?
† " (Ystrad-olwyn-fawr) ...M	" " " "	8	1	0	950	47·50
Llandinam (Plas Dinam)	The Meteor. Council ...	5	4	0	500	32·34
D Newtown (Dolfor)	W. B. Pugh, Esq.....	5	2	6	1027 T	28·08
D Churchstoke (Mellington Hall) ..	P. Wright, Esq.	5	1	6	540 T	30·03
† " ("new g.") M	" " " "	5	1	6	540 T	30·19
D Welshpool (Park Lane).....	Mrs. Hawksworth	5	1	3	325	27·64
D " (Pool Quay Vic.).....	Rev. R. J. Roberts ...	5	1	0	230	31·27
† Garthbibio (Bwlch Tomlyd) ...M	G. J. Symons, Esq., FRS.	5	1	2	1370	114·05?
Meifod (Tan-y-fron)	A. George, Esq.	5	1	0	...	26·82
D Lake Vyrnwy.....	E. D. Marten, Esq. C.E.	5	0	7	770	48·38

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1895	Days on which it fell.
		Diameter	Height above Ground.	Height above SeaLevel		
		ft.	in.	feet.	inches.	
FLINT.						
Hawarden	M. S. & L. R. Co.	9	3	6	35	23·42
†Flint (Soughton Hall, Northop). .	J. Eldon Bankes, Esq..	5	1	0	418	30·81
St. Asaph (Nantllys)	P. P. Pennant, Esq.	5	1	0	173 $\frac{1}{2}$	27·33
†Halkyn	Capt. Williams	5	1	3	895 $\frac{1}{2}$	30·33
St. Asaph (Bodelwyddan Castle). .	Mr. W. Brewster	5	0	9	222	29·94
Holywell (Bagillt).....	I. Roberts, Esq.....	5	1	6	20 $\frac{1}{2}$	25·18
Rhyl (Sedgley House)	W. T. Girdlestone, Esq.	5	2	6	21 $\frac{1}{2}$	25·31
Prestatyn (Edlestone House)	T. J. Scott, Esq.	5	0	6	30	29·00
DENBIGH.						
D Ruabon (Wynnstay).....	Mr. Middleton	5	1	6	484 $\frac{1}{2}$	38·41
Llangollen (Plas Berwyn).....	Col. Tottenham	5	0	5	440	37·72
Wrexham (Pack Saddle Res.) ...	F. Storr, Esq.	5	0	9	370 $\frac{1}{2}$	32·29
" (Cae Llwyd Res.) ...	"	8	0	9	918 $\frac{1}{2}$	38·13
" (" , ")	"	5	0	9	918 $\frac{1}{2}$	37·50
D Gresford (Broughton).....	J. Hall, Esq.	5	1	0	500 $\frac{1}{2}$	37·55
Gresford (Trewythen)	Mrs. Howell Evans ...	5	0	3	350	27·40
D Rosset (Trevalyn Hall)	Capt. Griffith Boscowen.	5	1	0	58 $\frac{1}{2}$	28·25
Nantglyn (Pant-y-maen)	W. Barker, Esq.	8	1	0	1320 $\frac{1}{2}$	45·82
Llangerniew (Hafodunos).....	H. R. Sandbach, Esq... .	5	1	0	512 $\frac{1}{2}$	39·13
Penbedw [Nannerch].....	Mr. W. McMurray.....	8	0	6	650 $\frac{1}{2}$	35·93
D Denbigh (Garn)	W. D. W. Griffith, Esq.	5	1	0	447 $\frac{1}{2}$	31·77
Dolben [St. Asaph]	T. G. Dixon, Esq.	5	1	2	...	32·54
Trefnant (Maes Elwy)	Major Birch	5	2	0	157 $\frac{1}{2}$	26·47
D Colwyn Bay (Nant-y-Glyn) ..	A. O. Walker, Esq.	5	1	0	180 $\frac{1}{2}$	32·80
" (Bryn Euryn)	Mr. T. Hutchings	5	1	0	125 $\frac{1}{2}$	32·39
MERIONETH.						
†Dolgelly (Werngoch).....	O. Hill, Esq.	5	1	6	465 $\frac{1}{2}$	60·56
D Bala (Eryl Arran)	Mrs. Burton	8	1	0	590 $\frac{1}{2}$	47·66
D Llanderfel (Palé Gardens) ..	Mr. T. Ruddy.....	8	1	0	606 $\frac{1}{2}$	45·94
D Rhiwbryfdir = Oakley Quarries.	Mr. R. Roberts	5	10	0	1100	79·89
CARNARVON.						
*Llanystumdw (Talarvor)	Dr. J. Roberts	5	5	0	49	31·13
Llandwrog (Glynllivan Park) ...	Hon. F. G. Wynn.....	5	1	0	100	39·83
" (" , Garden)	"	5	1	0	170	40·47
" (" , Fort)	"	8	1	0	180	38·12
" (Bodfean)	"	5	1	0	100	34·84
D Llanberis (Glyn Padarn)	Major Allen	6	6	0	370	65·22
Capel Curig (Lake Cowlyd)	T. B. Farrington, Esq.	8	1	3	1168 $\frac{1}{2}$	66·50
Carnarvon (Belan Fort).....	Hon. F. G. Wynn.....	5	1	0	15	30·32
D " (Cocksidia)	J. Jackson, Esq.	5	1	0	120	37·00
" (North Road)	Dr. Taylor Morgan ...	5	0	8	80	33·58
Llanbedr-y-Cennin	E.P. Stephenson Esq. CE	8	1	0	510 $\frac{1}{2}$	49·85
" (Llyndulyn). .	"	8	1	6	1622 $\frac{1}{2}$	89·85
D Llanfairfechan	R. Luck, Esq.	5	0	8	150 B	36·70
†Llandudno (Warwick House) ...	Dr. Nicol	8	0	8	99 $\frac{1}{2}$	186

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1895	Days on which .01 or more fell.
		Diameter	Height Above Ground.	Height Above SeaLevel		
			ft. in.	feet.		
ANGLESEA.						
D Llangadwaladr (Bodorgan)	Mr. J. Gray	8	3 6	...	34.60	164
D Penmynydd Vicarage	Rev. H. D. Owen	5	5 0	300	32.86	172
Holyhead	The Meteor. Council ...	8	33.83	181
LlanerchymeddLlwydiarthEsgob	T. Prichard, Esq.	5	1 0	112 1	35.49	187
ISLE OF MAN.						
Castletown (Langness)	Bd. of Northern Lights	30.35	...
Derbyhaven	A. W. Moore, Esq.....	5	1 0	20	32.96	...
Santon Vicarage	„ „ „	250	33.93	173
D Douglas (Derby Square)	P. Killey, Esq.	5	1 1	78	32.20	182
D „ (Victoria Road)	H. Story, Esq.	5	0 9	160 1	35.58	174
„ (Cronkbourne)	A. W. Moore, Esq. ...	8	0 10	138 T	34.72	175
„ (Clypse, Onchan)	„ „	8	1 0	439 T	39.17	201
Ramsey	„ „	8	1 3	18	38.10	...
Point of Ayre	Bd. of Northern Lights	23.27	108
ISLES OF SCILLY.						
St. Mary's	The Meteor. Council ...	8	1 6	77 1	29.86	187
†Tresco Abbey	T. A. D. Smith, Esq... 11	3 0	40	31.35	176	
JERSEY.						
D St. Helier (St.Louis Observatory)	Rev. M. Dechevrens ...	8	5 0	180	31.79	162
St. Aubins	The Meteor. Council ...	8	1 0	...	34.72	189
GUERNSEY.						
D St. Martin's (Les Blanches)	B. T. Rowswell, Esq....	5	1 0	310 T	35.26	193
D St. Peter Port (Beaulieu)	A. Collenette, Esq. ...	5	1 0	190 1	37.74	189
D Villa Carey	Dr. Carey	8	1 2	180	33.97	186

S C O T L A N D.

DIVISION XII.—SOUTHERN COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1895	Days on which .01 or more fell.
		Diameter	Height Above Ground.	Height Above SeaLevel		
		ft. in.	feet.	inches.		
WIGTON.						
Mull of Galloway	Bd. of Northern Lights	24·76	119
d Garliestown (Galloway Ho.).....	Mr. J. Day.....	5 4 6	20 ?	36·44	138	
d Stoneykirk (Ardwell House).....	Sir M.J. Stewart, Bt. MP	8 5 0	125	32·01	...	
Loch Ryan	Bd. of Northern Lights	31·48	130	
Corsewall	„ „ „	3 4	22 ?	24·66	...	
KIRKCUDBRIGHT.						
Little Ross	Bd. of Northern Lights	3 3	130 ?	29·47	143	
d Kirkcudbright (Senwick).....	A. J. Corrie, Esq.	5 1 0	113 $\frac{1}{2}$	37·11	182	
„ „ „ M	„ „ „	5 1 0	113 $\frac{1}{2}$	36·54	...	
Auchencairn (Torr House)	W. Ovens, Esq.	5 0 8	50	44·15	...	
Dalbeattie (Colvend Manse).....	Rev. J. Fraser	5 1 6	120 $\frac{1}{2}$	34·76	...	
Gatehouse (Cally)	Dr. Buchan	5 1 0	50	40·35	160	
Creetown (Cassencary)	J. A. Caird, Esq.	8 0 8	40	36·09	...	
d Castle Douglas (Slogarie)	H. A. Timms, Esq.	5 1 0	300	44·79	132	
Kirkpatrick Durham (Glenlair). .	A. W. Maxwell, Esq.	5 0 8	250	40·42	112	
d Cargen [Dumfries]	R. F. Dudgeon, Esq.	5 0 4	80 $\frac{1}{2}$	38·70	136	
d New Galloway (Glenlee)	Mr. W. Melville	5 1 3	208	47·64	201	
d Dalry (Glendarroch)	J. Barbour, Esq.	5 0 11	192 $\frac{1}{2}$	44·04	151	
„ (Old Garroch)	T. R. Bruce, Esq.	8 6 0	400	51·38	...	
Irongray (Drum park)....old g.	D. J. Kay, Esq.	3 0 6	230	46·60	...	
„ (Trool)	„ „	5 1 0	230	45·53	...	
Glenhead of Trool	Mr. J. McMillan	5 0 11	320	54·42	...	
Carsphairn(Holm of Dalquhairn)	R. McMillan, Esq.	5 1 2	800	52·51	...	
DUMFRIES.						
d Dumfries (Ivy Bank)	Rev. W. Andson	5 0 10	70 $\frac{1}{2}$	35·03	193	
d Lochmaben (Esthwaite)	W. J. Halliday, Esq.	5 1 0	166 B	37·07	191	
Langholm (Westwater).....	W. Elliot, Esq.	5 2 0	550 $\frac{1}{2}$	45·70	...	
„	Mr. D. Elder	5 1 0	270 $\frac{1}{2}$	44·72	167	
Moniaive (Glencrosh)	Miss M. R. McMillan...	5 1 2	350	43·16	155	
„ (Maxwelton House) ...	Rev. Sir E. Laurie, Bt.	8 1 2	400 $\frac{1}{2}$	39·77	189	

DIVISION XII.—SOUTHERN COUNTIES (*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1895	Days on which 1 or more fell
		Diameter	Height Above Ground.	Height Above SeaLevel		
		ft. in.	feet.	inches.		
DUMFRIES—(con.)						
Langholm (Ewes School)	Mr. J. C. Lyall	3	1 0	445 T	43.35	...
" (Burnfoot)	J. C. Little, Esq.	3	1 0	541 T	47.83	...
Thornhill (Capenoch House) ...	Mr. J. Dunlop	5	31.19	...
Durrisdeer(Drumlanrig Gardens)	Mr. D. Thomson	4	0 9	191	26.50	...
Moffat (Craigielands).....	Mr. L. Frazer.....	5	0 9	360 T	39.15	...
" (Ericstane)	J. J. Welsh, Esq.	3	0 6	550	46.05	...
ROXBURGH.						
New Castleton (The Flatt)	J. Elliot, Esq.	3	0 9	350 T	45.30	...
" (Kirndean)	J. M. Elliot, Esq.	3	0 8	450 T	49.48	...
Hawick (Wolfelee)	Dr. Buchan.....	5	0 6	601	39.20	197
d " (Branxholme)	J. G. Winning, Esq....	5	0 6	457 T	35.02	140
d " (Ladylaw)	The Meteor. Council ...	8	0 10	462	33.77	194
d* Jedburgh (Sunnyside)	G. Hilson, Esq.	5	6 0	351 T	29.74	148
Lilliesleaf (Riddell)	Gen. Sprot	5	0 5	550 T	33.50	195
d St. Boswell's (Elliston)	The Hon. G. Dalrymple	5	1 0	352	31.02	186
Kelso (Springwood Park)	Mr. W. Chaplin.....	10	1 0	130 T	20.72?	...
" (Broomlands)	Dr. Buchan.....	205	31.40	219
d Melrose (Asylum).....old g	Mr. Pattman	5	0 6	480 T	32.99	193
" ()	5	1 0	480 T	32.83	193
d Wooplaw [Galashiels]	J. Murray, Esq.....	5	1 0	880 T	34.42	176

DIVISION XIII.—SOUTH EASTERN COUNTIES.

SELKIRK.

d Selkirk (The Hangingshaw) ...	Miss Johnstone	5	0 6	670 T	33.28	145
Galashiels (Abbotsford Rd.).....	Dr. Somerville	5	0 6	416 T	37.46	193
" (Stantling Craigs) ...	Mr. W. Ross	12	1 3	650	34.19	...

PEEBLES.

Stobo Castle	Dr. Buchan.....	600	30.20	155
Innerleithen (Leithen Lodge) ...	Mr. D. Clark	11	0 0	700	34.81	...
Eddlestone (Portmore Res.)	W. Anderson, Esq.....	11	0 6	1000	34.23	179
d N. Esk Reservoir [Penicuick] ...	Mr. W. Tod	11	0 6	1150 T	37.60	165

BERWICK.

d Coldstream (The Hirsel)...new g.	Mr. Cairns	5	1 0	94 T	28.02	184
d Marchmont House	Mr. J. A. Wood.....	5	1 0	500 T	34.73	164
Dunse Castle	Mr. R. Aikman	5	1 0	500	38.05	139
Eyemouth	Dr. Buchan.....	30	28.94	...
St. Abb's Head	Bd. of Northern Lights ...	0	4	211	27.58	124

DIVISION XIII.—SOUTH EASTERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1895	Days on which 0.1 or more fell.
		Diameter	Height Above Ground ft. in.	Height Above SeaLevel feet.		
HADDINGTON.						
D Drummore [Musselburgh]	Mr. J. Robson.....	5	0 8	75	22.88	184
D Whittinghamie Gardens	Mr. J. Garrett	5	1 0	348 T	32.76	137
D Haddington (Asylum)	J. Mowat, Esq.	5	0 9	238 T	26.71	207
Prestonkirk (Smeaton).....	Dr. Buchan.....			100	25.84	...
North Berwick Reservoir	Mr. J. McKellar	11	0 2	150 T	33.70	...
," , (Fidra).....	Bd. of Northern Lights	21.46	112
EDINBURGH.						
Moorfoot Hills (Bowbaste)	W. Anderson, Esq.....	11	0 6	2042	42.34	...
," , (Gladhouse Res.)	,"	11	0 6	900	36.34	182
," , (Rosebery)	,"	11	0 6	750	34.97	...
Pentland Hills (Crosswood)	,"	11	0 6	950	36.07	...
D Gorebridge (Middleton).....	Miss Anstruther.....	5	1 0	750	35.23	185
Penicuick (Edgelaw Res.).....	W. Anderson, Esq.....	11	0 6	654	34.85	...
Pentland Hills (Harper rig)	,"	11	0 6	900	42.55	...
," , (Harehill)	,"	11	0 6	1470	40.23	...
," , (Loganlea)	,"	11	0 6	850	38.45	...
West Calder (Addiewell)	J. Fyfe, Esq.	5	0 6	600	34.11	...
Rosewell Asylum	Dr. Buchan			690	30.08	201
Pentland Hills (Swanstont)	W. Anderson, Esq.....	11	0 6	550	34.40	...
," , (Glencorse Res.)	,"	11	0 6	787	40.30	153
," , (Harlaw)	,"	11	0 6	800	35.11	...
," , (Clubbiedean Res)	,"	11	0 6	750	34.97	...
," , (Harbour Hill)	,"	11	0 6	1112	49.05?	...
Dalkeith	Dr. Buchan			190	20.65	148
D Dalmahoy	Countess D. of Morton	5	0 10	358	32.03	169
Liberton (Alnwick Hill)	W. Anderson, Esq.	11	0 6	400	28.70	100
D Edinburgh (Blacket Place)	R. C. Mossman, Esq....	5	0 8	252 T	29.18	195
," , (Charlotte Square)	Messrs. Leslie & Reid..	11	0 6	230	26.72	...
," , ()	,"	12	63 0	300	21.90	...
," , (Roy. Obs., Calton Hill)	Dr. Copeland	5	1 0	347 T	23.59	150
D , (Royal Botanic Garden)	Mr. A. D. Richardson..	8	1 0	74 T	27.73	206
Leith	The Meteor. Council ...	8	1 8	22	21.87	179
," , (Navigation School)	Dr. Buchan.....	5	0 5	70	26.70	200
LINLITHGOW.						
Whitburn (Polkemmet)	Lady Baillie	5	1 0	600 T	40.49	178
Uphall	J. Fyfe, Esq.	5	0 9	380	29.17	...
Linlithgow (Nether Parkley)	J. Storey, Esq.	5	0 3	290 T	32.90	154
," , (Rockville)	Mrs. Adie	3	0 9	260	31.22	...

DIVISION XIV.—SOUTH WESTERN COUNTIES.

LANARK.

D Biggar (Cambus Wallace)	Captain Paul	6	0 6	748 T	29.05	163
D Cleghorn	W. Elliott Lockhart, Esq.	3	0 3	720	33.78	191
Lanark (Fence)	C. M. Irvine, Esq.	5	4 0	441 T	28.65	...

DIVISION XIV.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above SeaLevel		
		ft.	in.	feet.	inches.	1895
LANARK—(con.)						
D Dalzell House	Rt. Hon. Lord Hamilton	6	5 6	89 T	28·01	159
Hamilton Water Works	Mr. R. Watson	7	1 6	436 T	28·65	...
D „ (Ardencutha)	Rev. T. M. B. Paterson	5	1 9	260 T	29·06	166
Bothwell Castle	Mr. W. F. B. Archibald	10	18 0	146 T	25·74	166
Uddingston (View Park)	T. Addie, Esq.	5	1 6	180	29·89	...
Glasgow (Belvedere Hospital)	Dr. Buchan.....	54	32·05	186
„ (Green Park)	J. Whitton, Esq.	5	0 6	35	32·51	...
„ (Alexandra Park)	„ „ „	5	0 6	141	30·70	...
„ (Kelvin Grove Park)	„ „ „	5	0 6	48	31·84	...
„ Observatory	J. Connell, Esq.	11	2 0	182	32·85	188
„ (Springburn Park)	J. Whitton, Esq.	5	0 6	361	34·26	...
D Airdrie (Hillend Reservoir)	Mr. W. A. Ritchie	6	4 6	620 T	35·52	104
AYR.						
Barrhill (Dochroyle)	M Mr. J. Scott	6	0 6	548 T	41·68	...
D Colmonell (Clachanton)	R. Aitken, Esq.	6	0 6	140 T	38·13	157
D Girvan (Pinmore)	Capt. Hamilton	5	1 0	187 T	39·42	182
D Barr Manse	Rev. G. Dods	5	1 0	330	39·34	197
Loch Finlas	J. Eaglesham, Esq.	5	1 0	849	37·98	...
Girvan (Turnberry)	Bd. of Northern Lights	34·40	128
D Dalmellington (Benquhat)	A. Gillespie, Esq.	1 6	1068	38·82	190
Maybole (Culzean Gardens)	Mr. D. Murray	9	3 0	200	32·97	126
D „ (Sauchrie)	E. A. Miller, Esq.	5	1 0	380	36·85	190
Ayr (Ballantine Drive)	P. Murdoch, Esq.	5	1 0	41 T	30·30	163
Mauchline	Mr. A. Muir	5	4 4	483 T	36·65	...
Muirkirk (Glenbuck)	Mr. W. F. Hamilton	6	1 0	900	44·55	...
Kilmarnock (North Craig)	R. Blackwood, Esq.	12	1 0	319 T	35·80	...
Ardrossan	The Meteor. Council	8	1 0	10	25·28	183
D „ (Kirkhall)	H. F. Weir, Esq.	8	2 9	106 T	31·17	179
Paisley W. W. (Camphill)	J. W. Moncur, Esq. C.E.	12	1 6	611	48·85	...
Wemyss Bay (Asheraig)	Miss Stewart	10	2 10	30	44·44	...
Shaws W. Works (Kelly Dam)	R. Gilmour, Esq., C.E.	6	1 0	640 ?	52·90	...
„ „ (Knockencorsan)	„ „ „	6	1 0	1040	49·50	...
RENFREW.						
Lochwinnoch (Garthland)	H. Macdowall, Esq.	5	0 11	150	51·57	207
„ (Castle Semple)	Mr. J. M. McMillan	6	30 0	240	42·10	171
Paisley Gorbal's Dist. W. Works	Ryat Lynn	J. M. Gale, Esq., C.E.	8	0 5	310	39·50
Waulk Glen	„ „ „	12	0 5	280	38·30	...
Middleton	„ „ „	12	0 5	550	44·95	...
Nether Cairn	„ „ „	12	0 5	700	42·80	...
Stanely	J. W. Moncur, Esq., C.E.	12	1 0	190	32·99	...
Back Thornleymuir	„ „	12	1 0	646	42·40	...
Muirhead	„ „	12	1 0	482 T	43·83	...
Springside	„ „	12	1 0	532 T	46·64	...
D Glasgow (Queen's Park)	J. Whitton, Esq.	8	0 9	144 T	27·57	163
„ (Maxwell Park)	„ „	5	0 6	69	32·21	...
Paisley (Crookston)	Major Hotchkis	3	0 5	...	26·65	115
„ (The Coats Observatory)	Dr. Buchan	10	1 0	107	26·70	...

DIVISION XIV—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. inches.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above SeaLevel		
		ft.	in.	feet.	inches.	
RENFREW—(con.)						
Duchall Moor	R. Gilmour, Esq., C.E.	1150	53·90	...
Creuch Hill	" "	6	1 0	1100	50·70	...
Largs Road	" "	910	48·23	...
Green Water	" "	6	1 0	788 \ddagger	55·90	...
Gryfe Reservoir	" "	6	1 0	640 \ddagger	54·60	...
Mansfield	" "	5	1 0	573 \ddagger	54·40	223
Compensation Reservoir	" "	5	1 0	600	49·84	...
Loch Thom	" "	5	1 0	643 \ddagger	48·49	237
Shielhill	" "	6	1 0	962 \ddagger	47·70	...
Darndaff Moor	" "	850	57·50	...
Spango Burn	" "	6	0 9	757 \ddagger	48·00	...
Hole Glen	" "	5	1 0	603	54·74	224
New Yetts Dam	" "	5	1 0	800	54·48	223
D Prospect Hill	" "	5	1 0	233	50·13	190
Port Glasgow (Dougliehill Res.)	S.W. Dalzell, Esq., C.E.	5	1 0	549 \ddagger	44·42	160
" " (Auchendores Res.)	" "	5	1 0	321 \ddagger	41·05	160

DIVISION XV.—WEST MIDLAND COUNTIES.

DUMBARTON.

New Kilpatrick (Chesters)	J. Kennedy, Esq.	5	1 0	245 \ddagger	35·34	...
Dumbarton (Leven Shipyard)	Messrs. Denny, Bros....	5	1 0	9 \ddagger	37·46	198
Helensburgh (Lyleston)	late Forrest Frew, Esq.	6	0 6	120	39·10	...
D " (Ferniegair)	J. R. Wilson, Esq. ...	6	0 6	18	38·67	178
D " (Water Works)	" " "	300	38·37	178
Arrochar	Rev. J. Dewar	5	0 9	12	49·14?	...

STIRLING.

Strathblane (Mugdock Reservoir)	J. M. Gale, Esq., C.E..	8	0 6	320	42·50	...
v " (Craigend Castle)	Sir J. Buchanan, Bart.	5	0 9	543 \ddagger	48·14	229
Banton by Bonnybridge	J. J. Cadell, Esq.	5	0 6	715	43·70	...
Craigdouffie	Dr. Buchan	204	48·90	155
Duntreath	C. Brown, Esq.	8	1 0	18	31·00	...
Falkirk (Kerse)	J. J. Cadell, Esq.	5	0 4	80	31·79	...
Larbert (Carron Park)	Col. J. S. Stirling	36·40	...
Little Denny	" " "	49·60	...
Earlsburn Reservoir	" " "	42·55	...
St. Ninians (Faughlin)	" " "	43·67	...
Stirling (Touch Reservoir)	" " "	31·42	...
," (Polmaise Gardens)	Mr. W. W. Ritchie ..	6	1 3	12	34·79	...
," (Victoria Place)	Mr. R. Kidston	5	2 10	100	33·22	209
D " (Ravenna Cottage)	Mr. G. McDougall	5	1 8	14	42·99	203
Buchlyvie (The Manse)	Rev. J. A. Macdonald..	5	1 3	118 \ddagger	41·17	...
Gargunnock	Col. J. S. Stirling	5	5 8	85	43·71	...
Kippen (Garden House)	" " "	1800	69·00
Ben Lomond	J. M. Gale, Esq., C.E...

DIVISION XV.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain 1895	Days on which .01 or more fell.
		Diameter	Height Above Ground ft. in.	Height Above SeaLevel feet.		
BUTE.						
Arran (Pladda)	Bd. of Northern Lights	39·71	124
Holy Island (Lamlash)	"	44·30	115
Kingarth (Plan)	H. Hastings, Esq.	5	1 0	40	37·60	...
D Rothesay (Barone Cottage)	J. Kay, Esq.	5	1 0	116 $\frac{1}{2}$	39·78	193
D " (Crichton Road)	H. Lauder, Junr., Esq.	5	4 0	97	42·17	201
ARGYLL—(MAINLAND.)						
Ardrishaig	Dr. Buchan.....	8	0 6	14	55·07	...
Loch Eck (Benmore)	H. J. Younger, Esq.	5	1 0	40	65·84	169
D Lochgilphead (Kilmory) Snowdon " (Poltalloch)	Sir J. Campbell Orde, Bt.	5	45·98	178
D Inverary Castle	Mr. D. S. Melville	3	4 6	126	38·92	173
D " (Newtown)	Mr. G. Taylor	5	1 0	40	65·31	217
D Oban (The Corran)	Mrs. Little	5	1 0	17	60·58	203
D Appin (Airds)	Dr. Baily	5	1 0	20	45·29	203
D Morvern (Drimnin)	R. Macfie, Esq.	5	0 11	41 $\frac{1}{2}$	41·64	...
D Ballachulish (Ardsheal) " (Craigrannoch)	Mrs. Gordon	5	1 0	225	49·51	216
D Strontian (Laudale)	Dr. W. D. Anderson	8	1 0	103 $\frac{1}{2}$	60·78	202
D Loch Sunart (Glenborrodale) Ardnamurchan	D. Campbell, Esq., M.D.	8	1 0	15	65·52	212
D Loch Eil (Corran)	A. Fletcher, Esq.	8	1 0	15 $\frac{1}{2}$	53·05	244
D " (Conaglen)	J. J. Dalgleish, Esq....	5	0 2	60 $\frac{1}{2}$	54·09	237
ARGYLL—(INSULAR.)						
Kintyre, Mull of	Bd. of Northern Lights	279 ?	39·90	147
" (Campbeltown, Devaar)	"	3	4	75 ?	36·89	163
" (Skipness Castle)	Mr. P. McLean	5	1 6	27	44·32	...
" (Stonefield, Tarbert)	Colin G. Campbell, Esq.	5	0 9	90	59·10	135
D Islay (Ardbeg)	C. Hay, Esq.	5	7 0	46	37·97	176
" (Rhinnis)	Bd. of Northern Lights	...	3 0	74 ?	26·25	127
" (Lochindaul)	" , "	36·59	155
" (McArthurshead)	" , "	18·48	133
D " (Gruinart School House)	Mr. D. MacGillp.	5	1 0	214 $\frac{1}{2}$	30·12	171
Jura (Bay of Small Isles)	H. Evans, Esq.	80	51·50	...
" (Fladda)	Bd. of Northern Lights	42·43	101
" (Ardfin)	Miss J. H. Campbell ...	5	0 6	130	50·45	...
Lismore (Mousdale)	Bd. of Northern Lights	...	3 4	37 ?	31·73	117
D Mull (Quinish)	J. N. Forsyth, Esq. ...	5	0 9	35	44·04	187
" (Sound of)	Bd. of Northern Lights	25·87	132

DIVISION XVI.—EAST MIDLAND COUNTIES.

CLACKMANNAN.

Alloa (Mar Street)	J. Melville, Esq.	5	0 6	70	31·46	...
Alva House	Miss Johnston	5	1 2	180	40·72	...
D Dollar	Mr. A. Blackwood	9	1 0	178	43·82	162

DIVISION XVI.—EAST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1895	Days on which .01 or more fell
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
KINROSS.						
Blairingone [Dollar]	Rev. J. F. Cameron ...	5	1 6	300 T	39·42	181
D Loch Leven Sluice	Mr. W. Clark.....	7	0 7	360 L	33·20	131
D Kinross (Gelly Bank).....	G. Henderson, Esq. ...	5	0 6	440 T	29·98	189
FIFE.						
Inchkeith	Bd. of Northern Lights	20·48	...
D Dunfermline (Keavil)	L. Dalgleish, Esq.	5	0 2	150	27·72	166
Carnock (Luscar House)	A. Mitchell, Esq.	5	0 10	430 T	32·55	...
(" ") No. 2	" "	5	0 10	430 T	32·45	...
D Beath (Outh)	L. Dalgleish, Esq.	5	0 2	890	49·01	141
Isle of May	Bd. of Northern Lights	18·98	116
Pittenweem (The Priory)	Rev. F. K. Lloyd	5	0 10	50	21·03	...
Kilconquhar (Balcarres)	Mr. E. Tate.....	5	1 0	300 T	32·48	201
D Cupar (Fife & Kinross Asylum)	Dr. Turnbull	5	0 4	210	26·00	138
Kilmarny (Mountquhanie House)	D. Gillespie, Esq.	3	1 3	240	22·10	...
Tayport	D. Cunningham, Esq... ...	5	1 0	27	22·57	138
PERTH.						
Aberfoyle	J. M. Gale, Esq., C.E..	8	0 6	60	48·95	...
Ochtertyre [Stirling]	Capt. Dundas, R.N. ...	5	1 0	18	40·93	...
Dunblane (Kippenross)	Col. P. Stirling	3	0 4	150 T	45·63	...
D Doune (Gartincaber).....	G. Burn Murdoch, Esq.	5	1 0	200	40·58	182
Sheriffmuir (Lynns Farm)	Col. P. Stirling	1 0	680	44·14	...
Loch Dhu	J. M. Gale, Esq., C.E..	8	0 6	325	64·10	...
Ledard	" " "	1500	47·25	...
Loch Drunkie	" " "	8	0 6	420	49·15	...
" Vennachar	" " "	8	0 6	275	45·00	...
D Lanrick Castle	Mr. J. Begg	3	1 0	...	40·70	154
Bridge of Turk	J. M. Gale, Esq., C.E..	8	0 6	275	49·60	...
Loch Katrine (Tunnel Hill Top)	" " "	8	0 6	830	68·90	...
Between Glen Finlas & Ben Ledi.	" " "	8	0 6	1800	40·45	...
Callander (The Gart)	C. A. Ainslie, Esq.....	5	0 7	250	46·60	...
" (Leny)	J. B. Hamilton, Esq....	3	0 4	345 T	41·50	...
Glen Gyle	J. M. Gale, Esq., C.E..	380	74·20	...
Braco (Nether Cambushinnie)	Col. Stirling	550	46·63	...
D Balquhidder (Stronvar)	J. Carnegie, Esq.	6	1 0	422 T	60·82	203
D Crieff (Ochtertyre)	Mr. G. Croucher	5	2 6	326 T	36·95	189
Perth (Rosebank)	Dr. Buchan	140	34·32	175
" (Huntingtower Field)	Mr. A. Bayne.....	6	1 0	40	28·50	...
D Coupar Angus Station	Mr. J. Robertson	5	1 3	183 T	31·20	171
D Dunkeld (Inverbraan)	Rev. J. M. B. Murdoch	5	1 0	500	36·76	119
D Ballinluig	Mr. J. Morrison	5	1 0	250 T	33·19	190
Pitlochry (Donavourd)	W. Maxwell, Esq.	6	0 7	400	31·20	108
Blair-Atholl	Mr. A. Cameron.....	5	1 0	420	31·55	180
D Dalnaspidal (H.R.S.)	The Station Agent.....	5	3 0	1414 T	54·92	251

DIVISION XVI.—EAST MIDLAND COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above SeaLevel		
		ft. in.	feet.	inches.	1895	
FORFAR.						
Buddonness	D. Cunningham, Esq...	5	1 0	17	25·16	172
Dundee (Harbour).....	" "	5	0 10	14	27·31	188
D Broughty Ferry (Douglas Ho.)...	Mr. K. Graham	5	5 6	60 \ddagger	26·50	163
" " (CoronaGardens)	Mr. J. Machar	5	4 6	68	26·16	...
D Dundee (Eastern Necropolis) ...	Mr. J. Carnochan	3	0 4	199 T	26·20	144
D " (") new	" "	5	0 4	199 T	26·69	187
D " (Dens Works)	Messrs. Baxter Bros.	5	...	119 T	24·50	177
D " (Camperdown Works)...	Messrs. Cox Bros.	5	3 8	290	23·61	134
Monifieth (Fountain Brae)	Messrs. Laird & Sinclair	5	1 0	55	21·62	107
D† Craigton	G. Baxter, Esq., C.E...	8	1 0	481	36·08	156
+ "	M	11	0 3	481	34·31	...
+ Crombie Reservoir	M	11	0 3	522 T	34·61	...
+ Hill Head	M	11	0 3	570 T	34·16	...
D Arbroath (Waterworks)	W. Stewart, Esq., C.E.	5	0 11	57	25·29	160
" (")	M	5	1 0	57	25·14	...
D " (") Tower...	"	5	48 0	157	16·30	149
" (") M	"	5	48 0	157	15·81	...
D " (Dishland Hill)	Mr. J. Campbell	5	0 11	69	23·40	159
D Inverarity Manse	Rev. P. Stevenson	5	1 0	301 T	31·55	140
D Kirriemuir (Lednathie)	Mr. W. Morrison	5	1 0	720	41·43	200
D " (Lintrathen)	G. Baxter, Esq., C.E..	8	1 0	700	33·60	187
" (") M	"	8	1 0	700	36·40	...
" (" , CreichHill) M	"	8	1 0	1500	33·65	...
Montrosseness	Bd. of Northern Lights	18·08	...
D Montrose (Melville Gardens) ...	Mr. J. R. Findlay	5	0 9	23	27·06	151
D " (Sunnyside Asylum)...	Dr. J. C. Howden	5	0 10	200	26·06	140
D " (Kinnaber W.W.) ...	Mr. J. R. Findlay	5	1 0	38	30·02	162

DIVISION XVII.—NORTH EASTERN COUNTIES.

KINCARDINE.

Laurencekirk (Johnstone Lodge)	Dr. Buchan	37·62	...
The Burn [Brechin]	late Col. McInroy	5	0 6	250	34·00	...
Fettercairn (Arnhall)	J. H. Hay, Esq.....	5	0 6	194	32·36	...
Girdleness	Bd. of Northern Lights	24·57	107

ABERDEEN.

D† Braemar	J. Aitken, Esq.	8	0 9	1114 T	32·72	213
Forest of Glen Tana	Sir W. C. Brooks, Bt..	5	1 0	576 T	29·43	108
D Cromar (Logie Coldstone Manse). .	Rev. Dr. Davidson	5	1 0	694 \ddagger	34·84	199
D " (" " School)	Mr. H. Cowie	5	1 0	607 T	35·65	221
" (" " Loanhead)	Mr. A. Farquharson ...	5	1 0	743 \ddagger	36·31	198
" (Tillypronie)	Mr. R. Littlejohn	5	1 0	1120 \ddagger	39·97	210
D Aberdeen (Cranford)	D. McHardy, Esq. ...	5	1 0	120 T	38·83	221
+ " (Rose Street)	Dr. A. Cruickshank ...	5	0 5	95 T	32·29	...
" (Gordon's Hospital) ...	Dr. Buchan	8	1 6	66 T	36·08	...
" (King's College)	The Meteor. Council ...	8	2 0	48	35·78	228

DIVISION XVII.—NORTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1895	Days on which .01 or more fell
		Diameter	Height above Ground.	Height above SeaLevel		
			ft.	in.	feet.	
ABERDEEN—(con.)						
Towie (Culquoich)	Mr. F. Berry	5	1	0	780	28·08?
Ellon (Kermuck)	Mr. T. Mair	11	0	6	300 \ddagger	42·85
Haddo House	Mr. J. Forrest	5	0	5	180 \ddagger	42·43
Peterhead (Buchanness)	Bd. of Northern Lights	28·02
	Dr. Buchan	126	30·70
D New Deer (Artamford Cottage)	J. Joiner, Esq.....	5	1	0	551 \ddagger	32·31
D Old Deer	J. Walker, Esq.....	5	2	0	135 \ddagger	37·79
Kinnairdhead	Bd. of Northern Lights	26·78
BANFF.						
D Keith (H.R.S.)	The Station Agent.....	5	1	0	364 \ddagger	36·64
Banff (Earl Hill)	A. Ramsay, Esq.	5	1	0	115 \ddagger	34·57
D Boyndie (Whitehills)	Rev. W. Anderson ...	5	1	0	68 \ddagger	34·84
Cullen House	Mr. J. F. Smith.....	5	1	0	100 \ddagger	39·35
ELGIN OR MORAY.						
Grantown	Mr. W. Duncan.....	5	1	1	712 \ddagger	35·05
Craigellachie (Wester Elchies Sch)	Mr. J. Milne	5	1	0	560 \ddagger	37·37
D Forres (H.R.S.)	The Station Agent.....	5	1	0	25	27·72
„ (Grange Hall)	J. Grant Peterkin, Esq.	5	1	0	52 \ddagger	29·12
D Gordon Castle	Mr. C. Webster	8	1	0	107 \ddagger	34·80
Elgin (Highfield)	R. F. Cameron, Esq....	5	1	0	80 \ddagger	32·10
NAIRN.						
D Cawdor (Budgate)	J. Joss, Esq.	5	1	0	250 \ddagger	33·86
D Nairn (Achareidh)	Col. Clarke	8	1	0	59	28·13
„ (School Ho.)	The Meteor. Council ...	8	1	9	84	27·64

DIVISION XVIII.—NORTH WESTERN COUNTIES.

WEST ROSS.‡

Applecross Gardens	Mr. D. McCowan	5	1	0	70 \ddagger	56·35	...
D Strathconan [Beauly]	Mr. D. McIver	5	1	0	450	56·40	129
D Glencarron Lodge	Mr. D. D. Munro	5	1	0	504	78·54	243
D Loch Torridon (Bendamph)	Mr. K. MacPherson ...	5	0	5	25	72·59	234
„ „ (Shieldaig)	C. D. Rudd, Esq.	52·41	...
Loch Vraon	Sir J. Fowler, Bt.	8	0	7	750	52·55	...
Braemore House	„ „ „	8	0	7	750	59·37	...
„ Lodge=Foich	„ „ „	8	0	7	100	58·17	...
Isle of Lewis (Stornoway)	Bd. of Northern Lights ...	3	4	31 ?	31·29	190	
„ („)	Dr. Buchan.....	56	39·80	230	
„ („)	The Meteor. Council...	8	1	0	24	44·30	238
„ (Butt of Lewis)	Bd. of Northern Lights ...	3	6	...	35·29	148	

EAST ROSS.‡

D Strathpeffer Spa (Ambatovory)	J. T. Fox, Esq.	5	1	0	254	36·47	224
D „ Station	Mr. J. Baxter	5	2	0	150	37·69	207

‡ Including Cromarty.

DIVISION XVIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above SeaLevel		
		ft. in.	feet.	inches.	1895	
EAST ROSS‡—(con.)						
Dingwall (Uplands)	A. Beattie, Esq.....	3	1 3	360 T	26·10	...
Evanton (Swordale House)	Dr. Buchan	33·10	...
Cromarty	Bd. of Northern Lights	23·60	...
d Alness (Ardross Castle)	Mr. R. Massie.....	5	1 0	450 T	39·32	178
d Fearn (Lower Pitkerrie)	R. Gordon, Esq., C.E..	5	1 0	95	22·18	117
“ (Geanies Mains)	Miss Hope Douglas	5	1 0	200	24·45	...
Tarbetness	Bd. of Northern Lights	3 4	61 ?	18·86	...
WEST INVERNESS.						
d Ben Nevis Observatory	Dr. Buchan	5	...	4407	117·93	255
d Fort William (Public School) ...	C. Livingstone, Esq.	5	1 0	36 T	61·26	224
“ (Observatory)	The Meteor. Council ...	8	1 8	33	58·14	231
Moidart (Roshven, Glenmutchkin) ...	Mr. J. McPherson	5	1 0	100	61·56	234
“ ()	Prof. Blackburn	5	1 0	68 T	54·08	248
d Loch Shiel (Glenaladale)	Major Macdonald	5	1 2	50 ?	83·60	246
d Arisaig	Mr. A. Grant	5	1 0	20 ?	52·12	225
d Glenquoich	Mr. D. Grant	8	2 4	660	86·13	232
Skye (Oronsay)	Bd. of Northern Lights	0 6	15 ?	38·85	134
“ (Kyleakin)	“ “ “	47·48	163
“ (Edinbane, Loch Grishinish)	Dr. K. M. Macdonald	5	0 6	30	52·46	...
“ (Kilmuir)	Dr. Buchan	275	40·73	172
Barra (Barrahead)	Bd. of Northern Lights	3 0	640 ?	33·32	127
S. Uist (Askernish)	D. Paterson, Esq.	5	1 0	10	38·68	185
“ (Ushenish)	Bd. of Northern Lights	0 4	157 ?	40·80	108
N. Uist (Monach)	“	42·53	159
d “ (Loch Maddy)	J. M. Fraser, Esq.....	5	1 0	...	43·54	172
Harris (Island Glass)	Bd. of Northern Lights	35·75	103
EAST INVERNESS.						
d Invergarry	Mrs. Ellice	5	1 0	...	48·70	...
d Fort Augustus (St. Benedict's)	Rev. M. Wall	5	1 6	68	43·44	225
d Aviemore (H.R.S.)	The Station Agent	5	1 0	710	32·08	227
d Loch Ness (Drumnadrochit)	Mr. A. Grant	5	1 0	104	38·24	221
Inverness (High School)	Dr. Buchan	114	29·26	...
† “ (Culloden House)	D. Forbes, Esq.	4	4 0	104 T	23·88	...
d Beauly (Lovat Estate Office) ...	J. T. Garrioch, Esq. ...	5	1 3	25	29·21	158

DIVISION XIX.—NORTHERN COUNTIES.

SUTHERLAND.

d Invershin	Mr. G. Young	5	4 0	20 T	25·53	145
d Golspie (H.R.S.)	The Station Agent	5	0 9	27	28·08	122
d “ (Dunrobin Castle)	Mr. D. Melville	5	1 0	14 T	32·32	182
“ “ “	“	3	0 3	13 T	30·22	...
Stourhead	Bd. of Northern Lights	39·50	159
d Scourie	J. Simpson, Esq.	5	0 4	28	42·14	183
Cape Wrath	Bd. of Northern Lights	3	3 6	355	27·66	...

‡ Including Cromarty.

DIVISION XIX.—NORTHERN COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain	Days on which .01 or more fell.
		Diameter	Height Above Ground.	Height Above SeaLevel		
		ft.	in.	feet.	inches.	
CAITHNESS.						
Wick	The Meteor. Council ...	8	1 9	77	32.93	228
† „ (Nosshead)	Bd. of Northern Lights	8	4 8	127 ?	24.17	140
† Watten (H.R.S.)	The Station Agent	5	2 6	75 ?	26.11	207
Thurso (Holburnhead)	Bd. of Northern Lights	3	0 8	60 ?	33.60	128
Dunnethead	„ „ „	... 3	0	...	22.92	110
Pentland Skerries	„ „ „	... 3	3	72 ?	14.72	...
ORKNEY.						
South Ronaldshay (Roeberry)	J. Gray, Esq.	5	1 2	101 ?	30.15	235
Hoy (Cantickhead)	Bd. of Northern Lights	...	0 6	...	23.50	...
„ (Graemsay Sound, East=High) „ (West=Low)	„ „ „	... 3	4	27 ?	25.63	141
Pomona (Deerness)	Dr. Buchan	3 4	...	30.33	174
„ (Kirkwall)	Mr. J. W. Cursiter	3	1 3	20	35.76	214
Hellyar Holm	Bd. of Northern Lights	39.95	133
Auskerry	„ „ „	16.53	104
Shapinsay (Balfour Castle)	Mrs. Balfour	5	0 6	50	33.45	...
Sanda (Start Point)	Bd. of Northern Lights	11	0 6	29 ?	32.00	112
SHETLAND.						
Fair Isle, S.	Bd. of Northern Lights	22.65	145
„ „ N.	„ „ „	27.47	100
Sumburghhead	„ „ „	51.03	118
„ (Dunroseness)	The Meteor. Council ...	8	1 0	84	39.70	244
Bressay	Bd. of Northern Lights	38.80	...

IRELAND.

DIVISION XX.—MUNSTER.

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height above Ground.	Height above SeaLevel		
		ft. in.	feet.	inches.	1895	
CORK.						
D Castletownshend (Glen Barrabane)	E. B. Coghill, Esq. ...	5	3 0	25 T	38.06	159
Bantry House.....	The Meteor. Council	64.72	172
D Dunmanway (Coolkelure)	Col. Shuldharn	5	1 6	500 T	72.55	228
Roche's Point.....	The Meteor. Council ...	8	1 9	32	44.17	161
D Douglas (Villa Franca)	R. C. Sikes, Esq.	5	1 0	49 T	48.70	192
D Cork (Queen's College)	Prof. Jack	8	1 0	60	49.68	194
D " (The Palace)	Rt. Rev. Bishop of Cork	5	1 0	40 T	47.49	179
D " (Clarence Place)	W. Miller, Esq.	5	1 0	106 T	46.62	190
D " (St. Ann's Hill)	Dr. M. Altdorfer	5	1 0	240	45.81	202
D Mallow (Old Dromore)	late B. Williamson, Esq.	5	1 11	291 T	46.23	193
," (Longueville)	R. E. Longfield, Esq...	5	0 10	300	33.41	210
KERRY.						
D Darrynane Abbey	D. O'Connell, Esq.	5	1 0	13 T	50.53	218
D Waterville (Iveragh Lodge)	T. J. Wilmot, Esq.	5	1 0	86 T	48.33	219
Kenmare (Derreen)	Mr. W. Holbrow	5	1 0	74 T	61.72	205
Valencia (Glenleam)	The Meteor. Council ...	8	1 0	12	48.88	231
Cahirciveen	" , " , "	8	2 0	32	48.47	220
Mangerton	M VenArchdeacon Wynne	8	0 8	1760	74.00	...
D Killarney (Woodlawn)	" , " , "	5	1 1	96 T	53.47	217
WATERFORD.						
D Knockaderry	M. J. Fleming, Esq. C.E.	5	0 9	230 T	46.46	222
D Waterford (Rockenham)	A. E. Graves, Esq. ...	8	2 6	140 T	41.25	120
D " (Brook Lodge)	C. P. Bolton, Esq., C.E.	5	1 0	104 T	42.89	158
" (Cove Lodge)	T. N. Harvey, Esq. ...	11	4 9	88	40.14	...
" (" , ")	" , " , "	5	1 0	72	41.20	...
D " (Ticor)	M. J. Fleming, Esq. C.E.	5	0 7	171 T	41.16	148
D Portlaw (Mayfield)	J. Anderson, Esq.	5	4 0	70	48.45	170
D Glenam [Clonmel]	Miss Grubb.....	8	1 4	80 T	47.94	187
TIPPERARY.						
D Clonmel (Bruce Villa)	J. H. Grubb, Esq.	5	1 3	110 T	44.22	186
D Caher (Duneske)	G. N. Smith, Esq.	5	0 11	193 T	37.39	181
D " (Cahir House)	Mrs. Rochfort.....	5	0 9	...	35.62	147

DIVISION XX.—MUNSTER—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above SeaLevel		
			ft.	in.	feet.	inches.
TIPPERARY—(con.)						
Ballina [Killaloe]	T. Crosthwaite, Esq. C.E.	5	2	0	124 $\frac{1}{2}$	35.88
D Derry Castle [Killaloe]	Mr. T. Manly	5	1	6	580 $\frac{1}{2}$	39.05
D Nenagh (Clashnevin)	J. Mounsey, Esq.	5	1	2	300 $\frac{1}{2}$	34.29
“ (Castle Lough)	A. Parker, Esq.	5	1	3	120 $\frac{1}{2}$	33.52
D Ballingarry (Hazelfort)	Mrs. Fraser	5	1	0	...	29.55
LIMERICK.						
Foynes	The Meteor. Council ...	5	1	0	104	34.30
Pallaskenry (Kilcornan)	Mr. J. Smyth	5	1	0	130	32.80
Limerick (Roxborough)	A. W. Shaw, Esq.	8	1	6	112 $\frac{1}{2}$	33.34
D “ (Victoria Terrace) ... No. 2	“ “ “	5	1	0	108 $\frac{1}{2}$	32.51
“ (Victoria Terrace) ...	J. Horan, Esq.	5	1	0	60 $\frac{1}{2}$	31.88
CLARE.						
D Killadysert (Paradise Hill)	Rev. H. Henn	5	0	11	105 $\frac{1}{2}$	36.73
D O'Briensbridge (Ross)	J. Digan, Esq.	10	2	0	93	33.33
D Broadford (Hurdlestow)	Major Bentley	5	1	0	167 $\frac{1}{2}$	27.79
D Ennis	O.J.K. Dobbin, Esq., C.E.	10	3	2	21 $\frac{1}{2}$	29.12
“ (Roslevan)	Mrs. Scott	5	1	11	40	31.29
D Miltown Malbay	M. Molohan, Esq.	5	1	0	400 $\frac{1}{2}$	38.44
						215

DIVISION XXI.—LEINSTER.

WEXFORD.

D New Ross (Longraigue)	J. W. Deane, Esq.	5	1	0	210 $\frac{1}{2}$	40.22	183
D Wexford (Alma)	E. F. Ryan, Esq.	5	1	5	50 $\frac{1}{2}$	37.59	178
D Templeudigan (Ballindoney)	J. Budgen, Esq.	5	1	0	...	48.75	196
D Enniscorthy (Ballyhyland)	Mrs. Moffat	5	1	0	365 $\frac{1}{2}$	43.02	200
“ (Monksgrange)	E. M. Richards, Esq.	5	1	0	565 $\frac{1}{2}$	50.60	221
D Oulart (Wells)	C. M. Doyne Esq.	5	1	0	215 $\frac{1}{2}$	36.09	164
D Gorey (Courtown House)	Rt Hon Earl of Courtown	5	3	0	80 $\frac{1}{2}$	35.54	162

KILKENNY.

D Inistioge (Woodstock)	Lady Louisa Tighe ...	5	1	0	400 $\frac{1}{2}$	47.93	177
D Graigue (Brandondale)	R. R. Burtchaell, Esq.	5	2	0	90 $\frac{1}{2}$	36.61	103
Kilkenny (Lavistown)	D. A. Milward, Esq.	5	2	0	180 $\frac{1}{2}$	31.31	167

D “ (Sion Villa)	J. O'Connell, Esq., C.E.	5	1	0	198	31.62	179
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WICKLOW.

D Laragh (Glendalough)	Wyndham H Wynne Esq	5	2	9	460 $\frac{1}{2}$	55.79	170
Greystones (Knockdolian)	R. Catheart Dobbs Esq C.E	5	1	2	68 $\frac{1}{2}$	35.13	173
D† Bray (Fassaroe)	R. M. Barrington, Esq.	10	5	0	250	40.23	182

CARLOW.

Bagnalstown (Fenagh House)	D. R. P. Beresford, Esq	5	1	0	340	35.59	154
D Carlow (Browne's Hill)	W. Browne Clayton, Esq	5	1	0	291 $\frac{1}{2}$	34.74	176

DIVISION XXI.—LEINSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1895	Days on which .01 or more fell.
		Diameter	Height Above Ground ft. in.	Height Above SeaLevel feet.		
QUEEN'S COUNTY.						
Abbey Leix (Blandsfort)	J. L. Bland, Esq.	5	3 0	532 $\frac{1}{2}$	37.45	201
KING'S COUNTY.						
Parsonstown (Birr Castle)	The Meteor. Council ...	8	0 11	180	29.27	187
" " (" ,)	RtHonEarl of Rosse FRS	8	1 0	183	29.03	185
Banagher	Mr. J. Deegan	5	2 0	...	26.73	126
KILDARE.						
B Straffan House	Mr. F. Bedford	5	2 0	240 $\frac{1}{2}$	31.01	166
DUBLIN.						
Glen-na-Smoel (Water Works)...	F. P. Dixon, Esq., C.E.	5	1 6	516 $\frac{1}{2}$	48.02	210
B Killiney (Cloneevin)	R. O'B. Furlong, Esq..	5	1 0	250 T	32.85	190
Rathmines (Terenure)	F. P. Dixon, Esq., C.E.	8	0 6	125 $\frac{1}{2}$	30.54	188
(Leinster Road)	E. H. Cannon, Esq. ...	5	1 0	170	32.00	191
B† Dublin (Fitz William Square) ...	J. W. Moore, Esq., M.D.	8	1 6	54 T	31.24	194
" (Phoenix Park)	Col. Kirkwood, R.E. .	8	1 0	155 $\frac{1}{2}$	32.65	209
B Lucan (The Garden).....	Mr. P. Reid	5	1 0	105 $\frac{1}{2}$	30.83	166
B Glasnevin (Botanic Gardens) ...	F. W. Moore, Esq. ...	8	1 0	68 $\frac{1}{2}$	35.00	175
B Balbriggan (Ardgillan).....	Capt. Taylor	5	1 0	210	32.38	179
B " (Laragh).....	Rev. S. P. Warren	5	1 0	57 T	33.52	202
MEATH.						
B Summerhill House.....	Rt. Hon. Lord Langford	5	1 0	372	31.88	186
B Athboy	C. P. Coghill, Esq.....	8	1 3	227	32.58	164
B Kells (Headfort)	Major Somerset Maxwell	5	3 6	230	38.37	211
Moynalty (Westland)	W. A. Barnes, Esq. ...	5	1 2	260	35.07	198
Aclare House	Admiral Singleton, C.B.	5	3 0	170 T	29.41	184
B " "	" " "	10	2 6	170 T	32.06	200
WESTMEATH.						
B Athlone (Twyford)	J. P. Hodson, Esq.....	5	5 0	188 $\frac{1}{2}$	32.17	216
B Mullingar (Belvedere)	Mr. J. Bayliss	5	1 0	367 T	34.42	171
B Street [Edgeworthstown]	Major Somerset Maxwell	8	36.71	226
LOUTH.						
B Ardee (Lissrenny)	T. F. Filgate, Esq.....	8	0 10	75 T	32.90	194
Dundalk (Farndreg)	J. Barton, Esq.	5	1 0	90 T	31.83	127
B Greenore	T. Chambers, Esq.	5	1 0	4 T	27.41?	171
Ravensdale School	Mr. Locke	8	1 6	200	36.99	163
LONGFORD.						
Cloondra [Tarmonbarry]	T. Crosthwaite, Esq. C.E.	5	2 0	131 $\frac{1}{2}$	28.89	...
B Edgeworthstown (Currygrane Ho)	J. M. Wilson, Esq.....	5	1 0	265 T	31.66	179

DIVISION XXII.—CONNAUGHT.

GALWAY.

B Woodpark [Scariff]	R. F. Hibbert, Esq. ...	5	1 0	170 $\frac{1}{2}$	32.63	208
B Ballinasloe	W. H. Kempster, Esq.	5	3 0	160 $\frac{1}{2}$	31.26	195

DIVISION XXII.—CONNAUGHT—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1895	Days on which .01 or more fell.
		Diameter ft. in.	Height Above Ground feet.	Height Above Sea Level inches.		
GALWAY—(con.)						
d Woodlawn	Mr. A. Porter	5	3 6	300 T	38·71	226
d Ahascragh (Clonbrook)	Rt. Hon. Lord Clonbrook	10	5 4	200 T	34·35	155
d Clifden (Kylemore House)	Mr. T. McNab	5	1 0	105	70·91	224
d " (Castle)	Mr. A. Cameron	5	0 9	...	67·98	223
Tuam (Castle Hacket)	Mrs. Percy Bernard ...	5	1 0	...	34·76	189
" (Gardenfield)	M. H. Kirwan, Esq.	5	1 0	155 T	37·93	...
" () ... Snowdon	„ „ „ ..	5	6 0	160 T	37·28	...
ROSCOMMON.						
Athlone	T. Crosthwaite, Esq. C.E.	5	2 0	130 T	27·10	...
Rooskey	„ „ „ ..	5	2 0	136 T	26·51	...
MAYO.						
Ballinrobe (Cranmore) ...	Miss Knox	5	0 9	99	45·18	...
" (Kilrush)	J. Simson, Esq.	5	1 0	120 T	35·35	...
d Crossmolina (Enniscoe)	J. Pratt, Esq.	5	0 11	74 T	48·18	234
Belmullet	The Meteor. Council ...	8	1 0	40	43·69	260
SLIGO.						
Ballymote (New Park)	R. A. Duke, Esq.	5	1 2	300	40·80	...
d Collooney (Markree Observatory)	A. Marth, Esq.	5	1 0	130 T	38·42	231
" ()	„ „ „ ..	5	16 6	148 T	35·24	227
d Ballysadare Bay (Glen Lodge) ..	Vernon Cockram, Esq.	5	1 0	14	40·69	213
d Sligo (Mount Shannon)	F. M. Olpherts, Esq.	5	4 5	70 B	41·85	200
LEITRIM.						
Jamestown (Albert Lock)	T. Crosthwaite, Esq. C.E.	5	2 0	142 T	28·74	...
d Ballinamore (Lawderdale) ...	J.O. Lawder, Esq., C.E.	5	1 0	275 T	35·00	201
Drumshanbo (Lough Allen)	T. Crosthwaite, Esq. C.E.	5	2 0	165 T	34·43	...

DIVISION XXIII.—ULSTER.

CAVAN.						
d Lough Sheelin (Arley)	No. 2	Major Somerset Maxwell	8	1 0	225 L	35·47
d " ()	No. 1	„ „ „ ..	5	1 0	210 L	31·22
d " ()	No. 3	„ „ „ ..	5	1 0	270 L	31·33
d " (Fortland)	„ „ „ ..	5	1 0	325	32·65	
d Stradone House	„ „ „ ..	5	1 0	280	33·77	
Cavan (Water Works)	M	„ „ „ ..	8	32·56
d " (Farnham)	„ „ „ ..	5	1 0	210	31·32	
d Belturbet (Cloverhill)	„ „ „ ..	5	1 0	...	30·25	
d " (Red Hills)	„ „ „ ..	5	0 9	208 T	32·50	
FERMANAGH.						
d Brookboro' (Colebrook Park) ...	The Meteor. Council ...	8	1 0	279	37·85	208

DIVISION XXIII.—ULSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which 0·1 or more fell
		Diameter	Height Above Ground	Height Above SeaLevel	1895	
		ft.	in.	feet	inches.	
MONAGHAN.						
Dartrey [Cootehill]	Major Somerset Maxwell	5	3 0	270	39·62	...
Monaghan (Rowantree House)	Dr. J. C. Hall	5	5 6	240	31·02	184
ARMAGH.						
d Edward St. Station [Newry]	J. L. D. Meares, Esq.	5	1 0	22 $\frac{1}{2}$	36·52	100
d Armagh Observatory	Dr. Dreyer	8	1 0	205 $\frac{1}{2}$	30·54	220
Rich Hill (Fruitfield)	Messrs. Lamb Bros.	5	3 9	...	30·58	215
d Loughgall (Manor House)	Mrs. Cope	5	1 0	205 $\frac{1}{2}$	29·42	186
d Charlmont Lock [Moy]	W. J. O'Neill, Esq., C.E.	5	1 0	61	26·81	128
d Lurgan (Belle Vue)	S. A. Bell, junr., Esq.	5	0 5	200 $\frac{1}{2}$	29·28	196
DOWN.						
d Warrenpoint (Summer Hill)	Mr. B. M. Kernan	5	1 0	30 $\frac{1}{2}$	35·79	130
Mourne Mountains (Windy Gap)	R. Hamilton, Esq.	5	3 6	1625	45·75	...
Newcastle (Fairleigh)	Rev. Canon Seymour	5	1 2	12	38·80	171
d Rathfryland (Ballynagappoge)	J. Smyth, Esq., C.E.	5	1 0	300	33·45	168
d Castlewellan (Lough Island)	" " "	5	1 0	440 $\frac{1}{2}$	42·10	153
Banbridge (Katesbridge)	A. Mulligan, Esq.	5	1 0	230	23·07	...
d Seaforde	Rt. Hon. Col. Forde	8	0 5	180 $\frac{1}{2}$	34·81	176
d Banbridge (Corbet Reservoir)	J. Smyth, Esq., C.E.	5	1 0	234	26·70	131
d† " (Milltown)	" " "	8	0 8	200 $\frac{1}{2}$	30·25	205
d† Waringstown	Col. Waring, M.P.	8	0 8	191 $\frac{1}{2}$	30·40	193
d Lisburn (Union Locks)	W. J. O'Neill, Esq., C.E.	5	1 0	138	29·59	162
Donaghadee	The Meteor. Council	8	1 6	30	31·43	216
ANTRIM.						
Stonyford (Belfast W. W.)	W. J. King, Esq.	5	1 6	437 $\frac{1}{2}$	38·67	223
d† Belfast (Queen's College)	Mr. W. Taylor	11	7 4	68 $\frac{1}{2}$	33·01	182
d " (Springfield)	J. Firth, Esq.	5	1 0	150 $\frac{1}{2}$	39·61	208
d† " (Antrim Road)	F. W. McCullough Esq., C.E.	7	7 0	144 $\frac{1}{2}$	31·63	180
Carrickfergus (Dorisland)	" " "	5	1 0	250 $\frac{1}{2}$	39·21	259
" (South Woodburn)	" " "	5	1 0	640 $\frac{1}{2}$	35·79	243
" (North Woodburn)	" " "	5	1 0	735 $\frac{1}{2}$	38·31	250
" (Copeland)	M " "	5	1 0	380 $\frac{1}{2}$	37·33	...
" ()	" " "	5	1 0	424 $\frac{1}{2}$	37·92	243
" (Lough Mourne)	" " "	5	1 0	596 $\frac{1}{2}$	36·53	245
Ballynure (Ballyboley)	Mr. T. H. Craig	5	1 4	400	51·09	194
d Ballymena (Harryville)	J. R. Williams, Esq.	5	1 5	150 $\frac{1}{2}$	38·23	237
d Broughshane (Quolie)	H. O'Hara, Esq.	5	1 4	893	36·90	197
d Ballymoney (Balnamore)	W. H. Lawlor, Esq.	5	1 5	50 $\frac{1}{2}$	35·69	253
Stranocum (Gardenvalle)	A. McNeill, Esq.	5	1 0	160	37·34	184
d Bushmills (Dundarave)	Sir F. E. Maenaghten, Bt	5	1 0	162 $\frac{1}{2}$	34·66	228
LONDONDERRY.						
d Garvagh (Moneydig)	H. R. Morrison, Esq.	5	1 0	121	36·04	181
d Londonderry (Clooney Terrace)	Mr. J. Conroy	5	1 0	68 $\frac{1}{2}$	39·53	247
d " (The Asylum)	T. Campbell, Esq.	5	1 0	36 $\frac{1}{2}$	37·63	211
d " (Creggan Res.)	Mr. J. Hutchison	8	1 0	320 $\frac{1}{2}$	41·69	239

DIVISION XXIII.—ULSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground.	Height Above SeaLevel		
		ft.	in.	feet.	inches.	
LONDONDERRY—(con.)						
D Limavady	late C. D. H. Campbell Esq.	5	4	0	81 T	31.76
„ (Drenagh)	C. T. McCausland, Esq.	5	1	0	80	36.40
Bellarena	Sir F. G. Heygate, Bt.	5	1	0	12 T	37.31
D Coleraine	J. Kennedy, Esq.	5	4	0	52 T	37.10
TYRONE.						
D Moy (Derrygally)	W. M. Bond, Esq.	10	5	0	42	30.69
D „ („)	„ „ „ ..	5	5	0	42	32.14
Sixmilecross Rectory	Rev. R. S. G. Hamilton	5	1	0	400	41.91
D Stewartstown (The Square)	A. Johnston, Esq.	5	1	4	300 T	32.60
D Dungannon (Rockdale)	Col. Lowry	5	1	0	300 T	32.99
D Omagh (Edenfel)	Col. Buchanan	8	1	0	280 T	36.96
D Newtown Stewart (Baron's Court)	Mr. R. Bell	5	1	0	250 T	36.77
DONEGAL.						
Killybegs	A. Brooke, Esq.	5	1	0	30	53.94
Castlefinn (Finn Lodge)	Sir F. G. Heygate, Bt.	5	3	2	50	34.42
Raphoe (Convoy Ho.)	Col. Montgomery	5	1	0	110 T	46.78
Rathmullen	Dr. Loughnan	5	1	0	1	43.36
„ (Fort Royal)	Capt. Montgomery	5	1	0	35	42.40
Bloody Foreland (Ardnadrean)	Rev. W. S. Griffith ...	5	0	9	39	43.42
D Buncrana (Rockfort)	T. Colquhoun, Esq. ...	5	1	0	40 T	39.46
D Moville (Prospect Villa)	Mr. J. Lowry	8	2	0	80	40.50
D Horn Head	C. F. Stewart, Esq. ...	5	1	0	160	42.36
D Lough Swilly (Carrablagh)	H. C. Hart, Esq.	5	1	0	130	44.70
Malin Head	The Meteor. Council ...	8	1	0	220	31.65?

ARRANGEMENTS
FOR THE
SYSTEMATIC OBSERVATION
AND
RECORD
OF THE
RAINFALL ^{OF} _{THE} BRITISH ISLES.

COMPILED BY

G. J. SYMONS, F.R.S.,

Chevalier de la Légion d'Honneur;

*Secretary Royal Meteorological Society; Membre du Conseil Société Météorologique de France;
Member Scottish Meteorological Society; Korrespondirendes Mitglied der Deutsche
Meteorologischen Gesellschaft; Fellow Sanitary Institute; Fellow Royal
Colonial Institute; Membre correspondant étranger Soc. Royale de
Médecine Publique de Belgique; Socio correspondiente Sociedad
Científica Antonio Alzate, Mexico, &c., &c.*

TWELFTH EDITION.

LONDON :
EDWARD STANFORD, COCKSPUR STREET, S.W.
1896.

Introductory and Historical.—I cannot help this section appearing to be egotistical ; the rainfall organization being entirely my own creation, it is impossible for it to be otherwise.

In the early part of the year 1859 I began collecting copies of records of the fall of rain, and early in 1861 wrote to all the observers of whom I was then aware, and asked them to send me all the records for the year 1860 that they could. I received 168 returns, and printed a table showing the total fall at all those places, being a larger number than had ever before been classed together. This publication gave a stimulus to observers, and from that time onwards their number has steadily increased until it now exceeds 3,000.

The amount of information published has increased even more, for whereas at first I printed only the total annual fall, I now publish essays on various branches of rainfall enquiry, and full abstracts of the most remarkable falls in short periods (ten minutes, half-an-hour, and so on), the heaviest falls in one day, tables of the monthly fall at several hundred stations, and, in short, give all the information which I can collect and which it seems expedient to print.

From the foregoing it will be evident that the compilation of the present annual volume (of which the short title is “British Rainfall, 1895,” &c.) is a very serious labour. The mere checking of more than two thousand returns takes a long time, and so does the due arrangement of the various facts reported, and by no means the least onerous matter is ensuring the accuracy of the printing of the whole.

During the first few years I not only gave my own time gratuitously to the work, but also bore all the cost of postages and of printing. It soon, however, became far too great for me to bear, and my correspondents kindly offered to share it with me. In 1865 the price of the annual volume was fixed at five shillings, and, although the size and cost of the volume has since so largely increased, that the price to the general public has had to be doubled, those observers who desire it are still allowed one copy at the old price. There are two reasons for this : (1) Because as the book could not be compiled without the help of observers, they ought to be allowed to have it as cheaply as possible ; (2) Because a small number of the observers (about 300, whose subscriptions are duly published) contribute annually from one to ten guineas towards the general expenses of the work.

The existing state of matters is, therefore, shortly as follows. There are more than 3000 persons, well spread over England and Wales,

Scotland and Ireland, each of whom is, I hope, strictly obeying the rules on p. [235]. To each of them I send on December 31st each year, blank forms for them to return to me filled with the facts observed by them. At the same time I send a list of the various publications, and invite such pecuniary aid as it may be agreeable to them to send.

I ought, perhaps, to say what becomes of the subscriptions. I will mention some of the outlets. (1) There are nearly a thousand observers whose returns have to be collected, examined, discussed, and printed, who do not contribute sixpence towards the cost thereof. (2) In some localities it is impossible to obtain volunteer observers, and there the observers receive regular salaries. (3) The mass of office work, correspondence, &c., is far beyond what I can myself accomplish; two regular assistants are, therefore, employed, and besides that, considerable sums are paid for extra assistance at times of pressure. (4) The expenditure for printing and postages is very large.

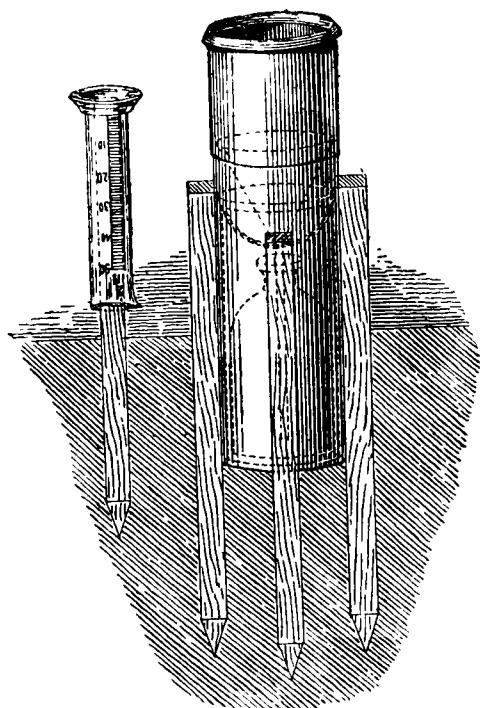
In addition to the annual volume, I publish a monthly periodical, *Symons's Monthly Meteorological Magazine*, giving, in addition to a full chronicle of the progress of meteorology, details of rainfall at upwards of 100 stations. This is sent free to subscribers.

It may, perhaps, be added that it always affords me pleasure to reciprocate as far as possible the assistance which the observers render to me, either by affording them meteorological information, data as to the height of their stations above sea level, or advice as to the purchase of instruments.

In short, the state of the case is this : I have given myself up to the collection of statistics of rainfall—old ones and current ones ; I invite everybody to help me, both with observations and with funds, and I promise, in return, to render to all my correspondents all the help that is in my power.

Patterns of Rain Gauges, and where to Buy them.--This is not a pleasant section to write, for there is considerable jealousy among the manufacturers, and I am almost certain to be accused of favouritism by some one. However, I have never patented any pattern of rain gauge, and therefore leave the field open to all.

Upon one point it is necessary to be despotic, viz., that amateurs never try to make their own gauges ; they are almost certain to go wrong in some respect, and nothing is more vexing, both to the observers and to myself, than for it to be discovered after observations have been recorded for a long time that the labour of years is vitiated by an inaccurate instrument.



For use in ordinary localities I recommend the Snowdon gauge; it is five inches in diameter, is easily fixed by four stakes, as shown; the glass jar, each division on which denotes $\frac{1}{100}$ th of an inch of rain, when filled up to the top division holds 0·50 in., or half an inch; the bottle holds about three inches of rain, and, of course, in the very rare case of the fall exceeding that, the excess is saved by the can, and must be carefully measured. It costs 12s. 6d. or £1 1s., according as it is made of galvanized iron, or of copper. Where cost is no object, it is, by some, thought better to have a larger gauge, viz., eight inches diameter, costing from £2 to £3, but I do not advise it.

Snowdon pattern rain gauges can be obtained from any optician, but it may be convenient to give, in alphabetical order, the names and addresses of a few of the principal makers (the gauges can easily be sent by Parcel Post):—

CASELLA, L., 147, Holborn, E.C.

HICKS, J. J., Hatton Garden, E.C.

NEGRETTI & ZAMBRA, Viaduct, E.C., and Regent Street, W.

PASTORELLI, F., 10, New Bond Street, W.

Testing.—Wherever, and of whomsoever, a rain-gauge may be bought it is very desirable that the purchaser should insist upon having a certificate of its accuracy. Rain gauges are examined, and certificates issued, by Kew Observatory, and by myself, the charge in each case is the same, namely, 2s. 6d.

Blank Forms.—All blank forms required for returns to myself and additional ones wherever desired, are supplied gratuitously, and even those sold are charged at little more than their actual cost.

Change of Residence.—Each observer is requested to decide upon a specific name for his station, and to notify immediately any change in the position of the gauge or the discontinuance of his record.

S U G G E S T I O N S
FOR SECURING UNIFORMITY OF PRACTICE AMONG
RAINFALL OBSERVERS.

I.—**SITE.**—A rain gauge should not be set on a roof, a slope, or a terrace, but on a level piece of ground, at a distance from shrubs, trees, walls, and buildings—at the very least, as many feet from their base as they are in height. Tall-growing flowers, vegetables, and bushes must be kept away from the gauge. If a thoroughly clear site cannot be obtained, shelter is most endurable from N.W., N., and E., less so from S., S.E., and W., and not at all from S.W. or N.E.

II.—**OLD GAUGES.**—Old established gauges should not be moved, nor their registration discontinued until, at least, two years after a new one has been in operation; otherwise the continuity of the register will be irreparably destroyed. Both the old and the new ones must be observed at the same time, and recorded for comparison. Changes, where inevitable, are least objectionable if made on January 1st.

III.—**LEVEL AND FIXING.**—The funnel of a rain gauge must be set quite level, and the gauge so firmly fixed that it will remain so in spite of any gale of wind or ordinary circumstance. Its correctness in this respect should be tested from time to time.

IV.—**HEIGHT.**—The funnels of gauges newly placed should be 1 ft. above grass. Information respecting height above sea level may be obtained from the Editor.

V.—**RUST.**—If the funnel of a japanned gauge becomes so oxidised as to retain the rain in its pores, or threatens to become rusty, it should have a coat of gas tar, or japan black. Copper gauges are free from this evil, and far the best.

VI.—**FLOAT GAUGES.**—The measuring rod should be detached from the float, and never be left in the gauge. If it is attached to the float, it should be pegged or tied down, and only allowed to rise to its proper position at the time of reading. To allow for the weight of the float and rod, these gauges are generally so constructed as to show 0 only when a small amount of water is left in them. Care must always be taken to set the rod to the zero or 0.

VII.—**CAN AND BOTTLE GAUGES.**—The measuring glass should always be held upright, or placed on a level slab ; the reading is to be taken midway between the two apparent surfaces of the water.

VIII.—**TIME OF READING.**—Nine a.m. daily ; if taken only monthly, then 9 a.m. on the 1st.

IX.—DATE OF ENTRY.—The amount measured at 9 a.m. on any day is to be set against the previous one ; because the amount registered at 9 a.m. of, say, 17th contains the fall during 15 hours of the 16th, and only 9 hours of the 17th.

X.—MODE OF ENTRY.—If less than one-tenth (.10) has fallen, the cypher must *always* be prefixed ; thus, if the measure is full up to the seventh line, it must be entered as .07, that is, no inches, no tenths, and seven hundredths. There must always be two figures to the right of the decimal point. Even in the case of one-tenth of an inch (usually written .1) a cypher must be added, making it .10. Neglect of this rule causes much inconvenience. All columns should be cast *twice*—once up and once down, so as to avoid the same error being made twice. Never copy a total, always cast the column afresh. When there is no rain, a line should be drawn rather than cyphers inserted.

XI.—CAUTION.—The amount should always be written down before the water is thrown away.

XII.—SMALL QUANTITIES.—The unit of measurement being .01, observers whose gauges are sufficiently delicate to show less than that, are, if the amount is under .005, to throw it away, if it is .005 to .010 inclusive, they are to enter it as .01.

XIII.—ABSENCE.—Every observer should train some one as an assistant ; but where this is not possible, instructions should be given that the gauge be emptied at 9 a.m. on the 1st of the month, and the water bottled, labelled, and tightly corked, to await the observer's return.

XIV.—HEAVY RAINS.—When very heavy rains occur, it is desirable to measure immediately on their termination, and it will be found a safe plan after measuring to return the water to the gauge, so that the morning registration will not be interfered with. Of course if there is the slightest doubt as to the gauge holding all that falls, it must be emptied, the amount being written down, and added to the subsequent measurement.

XV.—SNOW.—In snow three methods may be adopted—it is well to try them all. (1) Melt what is caught in the funnel by adding to the snow a previously ascertained quantity of warm water, and then, deducting this quantity from the total measurement enter the residue as rain. (2) Select a place where the snow has not drifted, invert the funnel, and turning it round, lift and melt what is enclosed. (3) Measure with a rule the average depth of snow, and take one-

twelfth as the equivalent of water. This being a very rough method, is not to be adopted if it can be avoided. Some observers use in snowy weather a cylinder of the same diameter as the rain gauge, and of considerable depth. If the wind is rough, all the snow is blown out of a flat-funnelled rain gauge. Snowdon pattern gauges are much the best.

XVI.—OVERFLOW.—Hardly a year passes in which some gauges are not allowed to overflow, it is therefore necessary to call attention to the fact that there does not seem to be any part of the British Isles where 4 inches may not fall in 24 hours. It is not desirable to purchase any gauge which will not hold 6 inches.

XVII.—SECOND GAUGES.—It is desirable that observers should have two gauges, and that one of them should be capable of holding 8 inches of rain. One of the gauges should be registered daily, the other weekly or monthly as preferred, but always on the 1st of each month. By this means a thorough check is kept on accidental errors in the entries, which is not the case if *both* are read daily. Observers having two gauges and recording both daily, should keep the records distinct, and forward a copy of each. Never take a mean of two.

XVIII.—DEW AND FOG.—Small amounts of water are at times deposited in rain gauges by fog and dew ; they should be added to the amount of rainfall, because (1) they “tend to water the earth and nourish the streams ;” and not for that reason only, but (2) because in many cases the rain gauges can be visited only monthly, and it would then obviously be impossible to separate the yield of snow, rain, &c. ; therefore, for the sake of uniformity, all must be taken together, and as except by watching all night it is never possible to be certain that small amounts are wholly dew, it is best to count all entries of .01 in. or upwards as days with rain.

XIX.—DOUBTFUL ENTRIES.—Whenever there is the least doubt respecting the accuracy of any observation, the entry should be marked with a ?, and the reason stated for its being placed there.

XX.—BREAKAGE.—The Editor has no desire to supply rain gauges or glasses, or in any way to undertake, or interfere with, the business of Opticians ; but the continuity and permanent accuracy of the records of his correspondents is of such importance, that any assistance in his power is always at their service.

XXI.—LEAKAGE.—Observers should test their gauges occasionally to see that the amount collected is neither increased nor decreased by leakage.

LIST OF PUBLICATIONS.

B R I T I S H R A I N F A L L ,

Cloth 8vo, 10s. (to Observers, 5s.)

This is the general summary and epitome of the year's work ; it contains a report upon the progress of rainfall investigations, and full records of the rainfall of each year. It is published annually, and all the volumes since 1864 can still be had.

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