

BRITISH RAINFALL,
1894.

LONDON :

G. SHIELD, 4, LEETE STREET, CHELSEA ; & LANCELOT PLACE, BROMPTON

—

1895.



A STREET IN ST. IVES AFTER THE FLOOD.

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BRITISH RAINFALL, 1894.

ON

THE DISTRIBUTION OF RAIN

OVER THE

BRITISH ISLES,

DURING THE YEAR

1894,

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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Médecine Publique de Belgique, Socio correspondiente
Sociedad Científica Antonio Alzate, Mexico,
&c.*

AND

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Member Sanitary Institute.*

LONDON:

EDWARD STANFORD, COCKSPUR STREET, S.W.

1895.

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ERRATA IN BRITISH RAINFALL, 1893.

- Page [134]. Table II., col. 3, the + *should be against* 9·9 in. 1889, *not against* 9·5 in 1879.
- „ [239]. Raphoe (Convoy House), *for* 47·53 *read* 43·62.

BRITISH RAINFALL, 1894.

It seems as if an ordinary uneventful rainfall year were becoming a rarity. Our report for 1892 was delayed by work upon the drought in 1893, which also added to the labour of preparing *British Rainfall*, for that year, and now the 1894 volume is even later, partly because some correspondents will be dilatory, but chiefly because of the great flood in the autumn of 1894 and the correspondence and study to which it gave rise.

Another thing which delays the appearance of the volume is the yearly increasing number of publications in which rainfall tables are published. Nearly all observers send direct to us, but we pick up many errors by carefully comparing the returns sent to us with those printed in newspapers, reports, transactions of societies, &c. Errors will creep into the best work, but to attain as nearly as possible to perfect accuracy, irrespective of the trouble it may give, has been our aim for more than a third of a century, and will be as long as our splendid staff of observers enables *British Rainfall* to make its appearance.

G. J. SYMONS.

62, CAMDEN SQUARE, LONDON, N.W.

July 29th, 1895.

REPORT.

Concerning our Organization.—In editing an annual volume two difficulties arise ; either you must frequently repeat what has been printed in a previous volume, or you must omit much which it would be expedient for every reader to know. The former plan is adopted in the volumes of *Greenwich Observations*, page after page of which is verbatim year after year. We have adopted the other course, but as it is not reasonable to assume that all our readers have the whole 35 volumes to refer to, or remember all that has been in them, it is as well once in a way to explain how this volume is prepared.

It would be too long a story to tell how the rainfall organization has been developed from the little band of 168 observers in 1860, to its present strength of more than three thousand. So again as regards what is more important than their number, namely their distribution over the country. This is best seen by the general tables at the end of the volume, which show that there is not a single county, however small, without an observer and that even remote ones like Caithness, Galway and Donegal have respectively 6, 10 and 13 observers.

The collecting of the returns is comparatively easy. Of course among so large a staff there are many deaths and removals, these are all entered up as soon as known, and thus the address book is kept nearly perfect. In December each year an envelope is addressed to every known observer. The thousands of forms requisite are obtained from the printers, and folded. These forms are then placed in the envelopes, but this has to be done with care, for some observers have more than one gauge and require extra forms, others read their gauges only on the first of each month, and it would be useless to send them forms for the entry of the *daily* fall, and there are many other little points requiring consideration. Finally the envelopes are all filled, but kept in alphabetical order to the last, so that alterations can be made if needed, and then they all go to the post. Generally two or three come back *too soon*. It has been the

rule for more than a quarter of a century, to date the rainfall back, *i.e.*, that the amount measured at 9 a.m. on January 1st is the amount to be entered against December 31st. It therefore follows that if a return from (say) Durham arrives by the morning post on January 1st, the observer who sent it *must* have broken the rule, and probably has been in the habit of entering to the wrong date—and thus he unconsciously convicts himself. During the first week or so, the returns come in by hundreds every day. It is by no means easy to keep them all in perfect order, and yet one must be very wide awake, for returns without either the name of the station or of the observer are by no means unknown, and immediate examination of the handwriting on the envelope and of the post mark is indispensable, *e.g.*, a return came from Glen Alla, Letterkenny, Donegal, seeing the name of the station we did not notice that it bore no signature. When the time came for it to be printed we found no signature; it was the first year of the record, and so we were obliged to enter it as “Anonymous.” Our correspondent was naturally puzzled, but we are glad to say that for 1894 we have been able to quote the proper authority. Along with some of the returns come subscriptions towards the cost of the work, these, if exceeding 10s., are all acknowledged the same day, and (although we should not at all object to there being more of them) the sending off of receipts requires both care and time. A greater difficulty arises from the kindness of observers who, in order to save us the trouble of reading two letters, save up any questions which they desire to ask until they are sending their returns. This very thoughtfulness really leads to extra trouble, because these questions often require research before they can be answered, this is generally impossible when so many routine letters have to be dealt with, and thus during January there is always a steadily growing pile of unanswered letters—we regret but cannot help it.

At last the stream slackens and then commences the process of checking the returns—the first step being to re-cast every column of figures sent in, ticking the right ones, and sending every wrong one back to the observer. As there are about two thousand daily sheets, each with twelve columns, and more than three thousand of the perforated forms, this alone means the adding of 27,000 columns of figures. We receive returns monthly from about 400 of our own stations, and at the end of the year these are all checked against the yearly summaries sent in by the several observers. Then the returns

are sorted into the order in which their results will appear in the volume, and they are compared with all that are published in any form, and all discrepancies are enquired into—leading again to much correspondence. This part of the work has grown very fast; in the early years (say, 1860-75) there were no county organizations, and the records published in transactions, journals and newspapers were not much more than a tenth of what they are now—about 70, instead of 700. Subsequently, the total for every station is compared with that for the previous year, and all unusual differences are examined.

After this, which altogether takes three or four months, we send a second application to every observer who has not sent in his return; generally there are more than three hundred who need this stimulus, and when the bulk of their returns are received, examined and sorted into their places, we can begin to prepare the materials for the volume. What this involves in the way of calculation and of care those alone can understand who have tried to bring out a volume of tables which shall earn a character for accuracy. We hope that no one will regard this narrative as being vain-glorious or self-laudatory, that is not at all our view of the matter. We ask every good observer in the British Isles to help us by sending us accurate records; they almost all do so, and many of them help us to defray the cost of their examination and publication. We should be unworthy of their confidence if we did not take all the care in our power to make the publication worthy of those who supply the information, and all that we have just written is but a record of how we try to secure that end.

Old Observations.—The extra work caused by the droughts and floods of the past two or three years has almost entirely stopped search for additions to our collection of old records. This is much to be regretted, and the general development of the organization is such that we fear that it will have to wait until we are in a position to increase our staff.

Absolute Maxima in each year.—In the article last year upon "*Heavy falls of rain at Camden Square, 1858-94*," we gave a list of the absolute maxima in each of the 37 years, and added "We hope that long before this time next year we shall be favoured with several complete lists like the above." Our hopes have been dissipated, not one has been sent.

Percolation experiments at Apsley Mill, Herts.—Meteor-

ologists and Hydraulic engineers have long known of the important records upon this subject kept by Sir John Evans, K.C B., at Nash Mills, Hemel Hempstead—but they do not all know that some years since he started another series at Apsley Mill, about a mile distant. He has most kindly furnished us with a complete copy of the monthly values, and we anticipated the pleasure of printing them in this volume, but alas, it is nearly August, and we have not finished the analysis, and it will never do to delay the volume, so we can only express regret at their non-insertion, and our hope to have them all ready for another year.

Finance.—We are, as usual, greatly indebted to about 400 of our correspondents for the subscriptions enumerated on the following pages. It says much for the interest which they take in the work, that in spite of bad trade, decreasing dividends, and agricultural depression, very few have stopped their subscriptions. Our difficulty does not lie in that direction, but in finding new subscribers to replace the necessarily numerous annual losses by death. The majority of the general public, and many even of my own correspondents, do not realize that I am personally responsible for the whole cost of the organization, or I am sure that, great as is the help I now receive, it would at once be afforded by double the number, and I should be relieved from the heavy strain which I have borne for so many years.

LIST OF ALL SUMS OF £1 AND UPWARDS RECEIVED IN PAYMENT
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GENERAL EXPENSES OF RAINFALL INVESTIGATIONS IN 1895.

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Parsons, H., Esq.	1	0	0	Sidney, Hon. H.	1	0	0
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„ F. F., Esq.	1	1	0	Slatter, T. J., Esq.	1	1	0
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Perry, F. C., Esq.	1	0	0	„ Rupert, Esq., C.E.	1	1	0
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Phillips, F. H., Esq.	1	0	0	Soames, Rev. Gordon	2	0	0
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Pike, L. W., Esq.	1	0	0	Spooner, Albert, Esq.	1	1	0
Pitt-Rivers, Gen., F.R.S.	1	0	0	Stanton, Miss R.	1	0	0
Plater, Rev. C. E.	1	0	0	Stewart, Sir Mark J., Bt., M.P.	1	1	0
Plenderleath, Rev. W. C.	1	11	0	„ Rev. W. E.	1	0	0
Pleydell, J. C. M., Esq.	1	1	0	Stirling, Colonel	2	2	0
Pocklington, Miss.	1	2	0	Stocker, Rev. A. H.	1	0	0
Preston, A. E., Esq., C.E.	1	0	0	Stone, W. H., Esq.	1	10	0
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Prior, R. C. A., Esq., M.D. ...	1	0	0	Stubs, Peter, Esq.	1	1	0
Rankin, J., Esq., M.P.	1	0	0	Sturge, R. F., Esq.	1	1	0
Rathbone, Mrs. S. J.	1	1	0	Sturt, Col.	2	0	0
Ravenshaw, T. E., Esq.	1	12	0	„ Gen.	2	0	0
Rawlings, E., Esq.	1	10	0	Styring, F., Esq.	1	5	0
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Reynolds, L. W., Esq.	1	1	0	Swan, R., Esq.	1	1	0
„ R., Esq.	1	0	0	Swindells, R., Esq., C.E.	1	0	0
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Roberts, Dr. I., F.R.S.	1	10	0	Tatton, T. Egerton, Esq.	1	10	0
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[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.]

THE DRYNESS OF YEARS ENDING WITH 4.

On February 28th, 1894, at the request of the *Society of Arts*, I read before that venerable Society a paper entitled "Rainfall Records in the British Isles."

In that paper appeared the following paragraph :—

"I do not at all desire the mantle of the weather prophet and make no prediction, but just thirty years ago I noticed that for many years two rules seemed to have prevailed—(1) that every year ending with 4 had less than the average rainfall, except when that rule collided with the other rule, which was (2) that every twelfth year back from 1860 had more than the average rain. Thus we get—

Wet.	—	—	—	1836	—	1848	—	1860	—	1872	—	—
Common to both series.	}	—	1824	—	—	—	—	—	—	—	—	1884
Dry.		1814	—	1834	—	1844	—	1854	—	1864	—	1874

Thus far the rule has not been broken since 1812. How much longer it will hold good it is not in my power to say."

This was seized upon by several newspaper writers, who made themselves and their readers very merry at my expense, when June and July and August proved in their localities decidedly wet. Some of them made me say much which I never did say ; for instance, a leader in the *Journal of Commerce* begins as follows (whereas reference to my words will show that I did not say one word about the summer) : "A contemporary in the early part of the year was rash enough to predict that dwellers in our islands might depend upon having a fine warm summer. This utterance of the false prophet was based on the presence of the figure 4 in 1894, in a peculiar combination which we forget just at the moment, and which is not worth the loss of one instant in any attempt to remember."

Then a little later an extremely able paper, *The Newcastle Daily Journal*, devoted a couple of columns to an article from "A Special Correspondent," entitled "Unreliability of Modern Weather Prophets," in which the writer said, "A Fellow of the Royal Society, whose fame rests solely upon the acquisition and dissemination of facts with respect to the rainfall of our islands, was good enough to become a weather prophet for this occasion only. The result has been simply disastrous for his reputation. He somehow arrived at the conclusion that 1894 would have a fine, dry summer, and hastened to inform

the public of this deduction. Whether his assistants waxed weary while plodding through the uninviting columns of rainfall statistics, or whether the seer himself nodded, even as Homer and other great men, for we are not wise at all times, is uncertain. This at least is certain. He forecasted a summer that should rejoice the hearts of pleasure-seekers ; yet the rainfall is decidedly above the average, and the temperature below, nearly all over our islands."

It was not worth while to protest against the misrepresentation of what I had said, but now that the original and the development are brought together one sees how far imagination had gone.

For the actual facts as to 1894 other portions of this volume can be consulted. They show that the rule failed, except in the Midland Counties.

I am not in the habit of making suggestions without a basis, that basis was general knowledge, but as the suggestion has been criticized, I will give some tables based upon figures printed more than twenty years ago, which any one can verify, and which cannot be overthrown.

For quite a different purpose I gave on page 24 of *British Rainfall*, 1881, the fall in each of 52 years at nine stations well distributed over England, and on page 25 the ratio of each year at each station to the mean of the 50 years, 1830-89, and the mean ratio for the whole country for each year. In the following table these figures are reprinted, but arranged so that all the years ending with the same numeral are vertical, 1830, 1840, 1850, 1860, 1870, in the first column, and so with the other years, and the subsequent 13 years have been added so as to bring it up to date. If the rule as to the 4's is all nonsense, the figures in that column should not differ from those in the others ; if they do differ, it was not unreasonable to call attention to it.

	0	1	2	3	4	5	6	7	8	9	Mean.
1830-9	109	116	98	101	88	98	107	88	91	118	101
1840-9	84	118	96	106	82	96	100	97	126	96	100
1850-9	90	86	136	96	71	83	93	95	80	99	93
1860-9	122	93	102	93	74	103	113	95	103	106	100
1870-9	78	96	133	91	90	113	118	117	106	109	105
1880-9	119	107	124	111	80	102	112	69	96	92	101
1890-9	83	110	91	81	109	...	...	...	...	...	...
Difference from Mean, 1830-89 ...	0	+3	+15	0	-19	-1	+7	-6	0	+3	0

This shows that not merely was the mean ratio for the years ending with 4 far below any other, but also that in every one of the six decades the year ending with 4 was from 10 to 29 per cent. below the average.

Another table which anyone can check was given in *British Rainfall*, 1882, facing page 22. There are 45 records, each for 43 years, or nearly two thousand yearly values. I have marked the year of least rainfall in each record, and then tabulated the dates, and this is the result :—

Years ending with ...	0	1	2	3	4	5	6	7	8	9
„ of absolute min.	6	1	2	1	20	12	1	2	0	0

Here again, the years ending with 4 have more extreme minima than any other, having 20 instead of $4\frac{1}{2}$, *i.e.*, more than four times the number which chance would have given them; and it is perhaps significant that the next numeral (5) has more than twice its share, so that 4 and 5—which should have 9 out of 45—had 32, while all other years had only 13 among them; or, to put it another way, years ending with 4 or 5 had an average of 16 minima, years ending with any other numerals had 1·6, so that there were ten times as many minima in years ending with 4 and 5 as with each of the rest of the numerals taken in the aggregate; or to put it in yet another way, it is—

First	4	with 20 instances
Second	5	„ 12 „
Third	0	„ 6 „

and all the other numerals had only 2, 1, or 0.

I said that the rule had “not been broken since 1812.” I have just found in *British Rainfall*, 1870, p. 53, a table admirably adapted for testing this question. It gives the percentages for each of 140 years, and I have worked out the averages for each decadal year for 1730—1799, and for 1800—69. Owing to the extreme dryness of the early period, it is best to give the values as departures from the mean, instead of giving the arithmetical means of the ratios. Figures with — signs show that years with those signs were below the average :

	0	1	2	3	4	5	6	7	8	9
1730-99	-11	-7	+4	0	+11	0	+2	+7	-4	-2
1800-69	0	+4	+4	0	-11	-4	+3	-3	+3	+1

This shows that for the first seventy years those ending in 0 were generally dry, and those ending with 4 were wet; and for the sub-

sequent seventy years the only noticeable departure from a general average was the dryness of the years ending with 4. It was because I was aware of this that I stated distinctly "for many years two rules seem to have prevailed," and again, "Thus far the rule has not been broken since 1812." I do not know why it did not prevail last century, nor do I know why it has failed now; it is quite possible that the period is not *exactly* 10 years, and that 1893 really represented 1894.

In spite of my critics, I will not withdraw one word of what I said; on the contrary, I will add to it that (if the rule holds good) 1896 should have a total rainfall above the average.

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

WE are glad to be able to state that both the above records have been continued with no other interruption than that produced by the long frost.

The construction of the tanks, and the mode of reading off the amount of evaporation, having been recently mentioned, need not be again stated.

We showed last year that for the 29 months during which the two tanks had each been observed, the evaporation at Otterbourne (Southampton W. W.) exceeded that at Camden Square in the ratio of 1·35 to 1·00. During the period of which the details are given on the following pages, the ratio has been slightly less (1·32 to 1·00), but the closeness of the agreement may, we think, be regarded as indicating the accuracy and trustworthiness of the observations.

In fact, we are doubtful whether much more remains to be ascertained, except with regard to the variation to which the total amount is liable.

Last year we estimated the mean evaporation at Camden Square at 14·50 in. ; the following table gives the mean as 14·52 in. :—

Abstract of Camden Square Evaporation Results, 1885—94.

TOTAL IN EACH MONTH AND YEAR.

	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	16·78
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
1894.	+·04	·28	·83	1·17	2·10	2·48	2·49	1·91	·97	·37	·20	·11	12·87
Mean	·05	·21	·68	1·54	2·21	2·87	2·71	2·12	1·23	·60	·22	·08	14·52

We quoted the observed mean at Strathfield Turgiss, Hampshire, for 14 years (1870–83) as 18·03 in., and we computed the mean for Otterbourne as 19·58 in. ; recalculation, with the help of the data given subsequently, only alters this by 0·11 in., reduces it to 19·47 in. So that for all practical purposes it may be regarded as proved, that from a tank 6 ft. square, 2 ft. deep, sunk 1 ft. 9 in. in the soil, and kept with the water at or near soil level, the average yearly evaporation is—

At Otterbourne Water Works, Hampshire	19½ inches.
At Strathfield Turgiss, Hampshire.....	18 ,,
At Camden Square, London.....	14½ ,,

the last being the least, because the least exposed to wind, and to sun (for much of the sun's heat is intercepted by the London smoke-canopy).

The foregoing table is interesting as showing the very small evaporation during the six winter months, and the same is also shown by the following analysis :—

Station.	Season.	1893—4.	1894—5.
Otterbourne	Summer	17·29 in.	16·87 in.
„	Winter	3·20 „	2·68 „
„	Year	20·49 „	19·55 „
Camden Square.....	Summer	13·20 „	13·00 „
„ „	Winter	1·89 „	1·82 „
„ „	Year	15·09 „	14·82 „

DAILY EVAPORATION AT OTTERBOURNE WATERWORKS PUMPING STATION.

(Near SHAWFORD, HANTS.)

Lat., 51° 0' 28" N. ; Long., 1° 19' 55" W. ; Tank, 6' 0" square, 2' 0" deep ;
Edge, 3" above ground ; Ground level, 111½ ft. above Ordnance datum.

1894.							1895.							
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.		
	·14	·04	·07	·03	+·01	·03	}	}	}	·02	·05	·10		
	·14	·09	·07	·06	·00	·02				·03	·07	·09		
3	·15	·19	·08	·03	·02	+·02				·02	·02	·16	·10	
4	·13	·07	·13	·05	·01	·00	}	}	}	·03	·11	·07		
5	·16	·10	·08	·02	·03	·02				·03	·13	·12		
6	·17	·06	·06	·01	·02	·01				·04	·01	·12	·19	
7	·14	·14	·07	·00	·06	·01	}	}	}	·03	·23	·21		
8	·14	·06	·10	·03	·04	·00				·03	·15	·16		
9	·15	·21	·07	·00	+·03	·01				·05	·12	·16		
10	·08	·13	·07	·02	·07	+·02	}	}	}	·06	·14	·20		
11	·07	·11	·05	·01	·02	+·02				·02	·13	·11	·22	
12	·09	·07	·07	·04	·08	+·04				·05	·05	·08	·24	
13	·11	·10	·08	·06	+·06	+·05	}	}	}	·06	·12	·13		
14	·05	·21	·04	·08	·02	·02				·05	·15	·15	·08	
15	·11	·13	·04	·05	·03	·03				·04	·12	·20	·14	
16	·03	·09	·04	·06	·00	+·06	}	}	}	·02	·07	·22		
17	·09	·09	·04	·01	·00	·06				·04	·07	·12	·15	
18	·14	·04	·04	·03	·00	·06				·05	·04	·04	·12	
19	·05	·07	·04	·02	·01	}	·02	}	}	·03	·07	·07		
20	·10	·02	·02	+·02	·01		+·03			·10	·03	·08	·06	·14
21	·10	·07	·01	·01	·00		+·02			·03	·08	·06	·14	
22	·01	·02	·00	·05	·01	·01	}	}	}	·06	·05	·11		
23	·02	+·04	·04	+·01	·01	·02				·05	(·05)	·06	·07	
24	·01	(·08)	·01	·01	·01	·01				+·01	·07	·11	·14	
25	·06	·01	·05	·06	·00	·01	}	}	}	·08	(·05)	·12		
26	·09	·11	·07	·02	·05	·01				·02	·05	·09	·19	
27	·10	·10	·08	·00	·03	·01				·09	·06	·12	·18	
28	·12	·04	·06	·00	·01	·00	}	}	}	·02	·04	·12		
29	·04	·10	·05	·02	·00	·00				·08	·05	·15	·08	
30	·06	·08	·06	+·03	·00	·00				·08	·06	·13	·04	
31	·07	·08	...	+·02	...	...	...	...	...	·05	·08	·06
										·20	...	...
Total	2·92	2·67	1·69	·70	·44	·09	·34	·11	1·00	1·77	3·73	4·09		

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.

1894.

1895.

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	·14	·04	·06	·03	·02	·01	·02		·00	·03	·07	·05
2	·12	·08	·06	·05	+·01	·00	+·03			·02	·10	·05
3	·11	·12	·03	·03	·02	·00	·02			·02	·13	·08
4	·10	·08	·06	+·01	·02	·00	·01			·04	·12	·03
5	·13	·06	·05	·00	·01	·01	·02			·03	·07	·09
6	·14	·01	·02	·00	·00	·01			·00	·03	·13	·14
7	·17	·10	·03	·01	·02	+·01	+·02		·00	·00	·14	·19
8	·09	·09	·07	·00	·02	+·01	·03		+·03	·02	·12	·14
9	·11	·08	·03	·01	·00	+·01			+·01	·05	·09	·13
10	·04	·07	·06	+·02	·02	·01			+·03	·05	·11	·12
11	·10	·06	·03	·01	+·01	·01			·01	·10	·10	·15
12	·09	·07	·06	·01	·03	+·01	·03		+·01	·06	·05	·12
13	·04	·12	·06	·00	+·01	·00			·00	·10	·12	·10
14	·08	·17	·03	·07	+·02	·01	+·04	·62	·00	·08	·12	·14
15	·02	·10	·01	·03	·02	·00	+·03		·03	·06	·17	·14
16	·02	·05	·03	·02	·00	·02	+·05		·00	·05	·16	·18
17	·09	·05	·03	·01	·00	+·03	·00		·02	·03	·06	·08
18	·10	·05	·03	·02	·01	·01	·00		·03	·02	·02	·08
19	·07	·04	·01	·01	+·01	·02	·01		·01	·05	·06	·06
20	·08	·10	·03	·00	·00	·01	·00		·00	·05	·03	·18
21	·04	·04	·00	·03	·00	·00	·04		·01	·03	·04	·11
22	·07	·01	·00	·02	·00	·02	+·05		·04	·02	·09	·09
23	·02	·02	+·01	+·01	·01	·00	·01		·01	·06	·05	·11
24	·02	·05	·01	·02	·00	·00	·01		·07	·02	·09	·07
25	·08	·03	+·01	·03	·01	·00			·05	·05	·11	·18
26	·07	·05	·02	·00	·01	+·01			·04	·02	·09	·11
27	·05	·02	·06	·01	·02	·01			·01	·01	·10	·15
28	·09	·06	·04	+·01	·01	·00	·16	·02	·02	·04	·12	·08
29	·06	·06	·05	·00	·01	·04		...	·03	·07	·12	·09
30	·07	+·01	·02	+·01	·00	+·01		...	·00	·05	·12	·07
31	·08	·04	.	·01	...	·01		...	·02	...	·16	...
Total	2·49	1·91	·97	·37	·20	·11	·14	*·64	·36	1·26	3·06	3·31

* Probably too large, owing to Snow blowing out of tank.

COMPARISON OF GERMAN & ENGLISH¹ RAIN GAUGES,
AND OF
MR. SIDEBOTTOM'S SNOW GAUGE
AT CAMDEN SQUARE, N.W.

In *British Rainfall*, 1892, we described Dr. Hellmann's pattern of gauge, in the volume for 1893 we gave engravings of it and of Mr. Sidebottom's, and in each volume we gave a table similar to the following, epitomizing the results.

1894	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.	in.
Jan.	2·75	2·77	2·85	+·02	+·10	2·81	2·75	—·06
Feb.	1·68	1·59	1·67	—·09	—·01	1·71	1·61	—·10
Mar.	1·14	1·03	1·10	—·11	—·04	1·16	1·10	—·06
April	1·67	1·56	1·65	—·11	—·02	1·70	1·60	—·10
May	1·78	1·62	1·73	—·16	—·05	1·81	1·70	—·11
June	1·77	1·67	1·72	—·10	—·05	1·81	1·73	—·08
July	3·12	3·04	3·23	—·08	+·11	3·19	3·07	—·12
Aug.	2·74	2·63	2·71	—·11	—·03	2·80	2·69	—·11
Sep.	1·00	·95	·99	—·05	—·01	1·02	·96	—·06
Oct.	4·27	4·34	4·43	+·07	+·16	4·39	4·34	—·05
Nov.	2·73	2·74	2·80	+·01	+·07	2·80	2·77	—·03
Dec.	2·19	2·07	2·23	—·12	+·04	2·24	2·16	—·08
Total	26·84	26·01	27·11	—·83	+·27	27·44	26·48	—·96

The results are not quite so accordant as in 1893, but it must be remembered that the total fall is 40 per cent. larger than in 1893, which would give larger differences, and after all they are but small; moreover, we know by the experimental gauges at Strathfield Turgiss, that even in an open level field differences exceeding 0·10 in. will occur in the monthly totals of gauges within distances of 15 ft. It is, moreover, strange that No. 1 has gone *down* while No. 2 has gone *up*.

RAINFALL AT THE ROYAL OBSERVATORY, GREENWICH.

Lat., 51° 28' 38" N.

Long., 0° 0' 0"

Communicated by W. H. M. CHRISTIE, Esq., M.A., F.R.S.,
Astronomer Royal.

		MONTHLY AMOUNT OF RAIN COLLECTED IN EACH GAUGE.							
1894	No. of days on which rain fell.	Osler's Anemometer		On roof of Octagon Room.	On roof of Magnetic House.	On roof of Photographic 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.
		in.	in.	in.	in.	in.	in.	in.	in.
January	21	1·946	1·861	2·374	2·750	2·879	3·093	3·071	3·128
February.....	13	1·094	1·041	1·365	1·421	1·553	1·590	1·607	1·636
March	12	0·252	0·245	0·496	0·582	0·706	0·724	0·738	0·745
April.....	13	1·106	0·970	1·241	1·361	1·408	1·442	1·436	1·449
May.....	17	0·888	0·787	1·209	1·433	1·536	1·520	1·502	1·549
June	14	1·599	1·481	1·748	1·958	2·065	2·042	2·029	2·064
July	22	2·428	2·325	2·838	3·177	3·258	3·259	3·225	3·286
August	17	2·469	2·371	2·649	2·944	2·995	3·033	2·996	3·049
September	13	0·890	0·915	1·086	1·277	1·322	1·248	1·258	1·281
October	18	2·980	2·797	3·462	3·634	3·861	3·986	3·983	4·057
November	17	2·031	1·907	2·445	2·642	2·969	3·001	3·002	3·059
December	15	1·141	1·133	1·575	1·681	1·883	1·953	1·918	2·012
Sums.....	192	18·824	17·833	22·488	24·860	26·435	26·891	26·765	27·315
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.

W. H. M. CHRISTIE.

1895, *February* 28.

THE STAFF OF OBSERVERS.

AT last we have passed the 3,000 ; we have not merely 3,000 observers, but more than 3,000 perfect records are contained in this volume. It may be of interest to know that the first, second, and third thousand were respectively reached in 1865, 1877, and 1894. We must, however, give the usual summary :—

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 ...	109 ...	20 ...	472	...
1871...	1038 ...	88 ...	311 ...	67 ...	1504	...
1881..	1548 ...	131 ...	313 ...	153 ...	2145	...
1891...	2091 ...	168 ...	359 ...	181 ...	2799	23
1892...	2113 ...	178 ...	367 ...	192 ...	2850	51
1893...	2205 ...	193 ...	389 ...	200 ...	2987	137
1894...	2269 ...	184 ...	395 ...	195 ...	3043	—

Difference from 1893—

Increase	64 ...	— ...	6 ...	— ...	70 ...	56
Decrease	— ...	9 ...	— ...	5 ...	14	

As the land area of the British Isles is 119,925 square miles, it follows that, with 3,000 gauges, there should be one to each 40 square miles. Let us see what this would give for each country separately, and compare it with what we have :—

	Area in Square Miles.	Number of Stations.				Excess.	Deficiency.
		Theoretical.	Actual.				
England	50,387 ...	1260 ..	2269 ...	1009	...	—	
Wales	7,425 ...	186 ...	184 ...	—	...	2	
Scotland	29,600 ...	740 ..	396 ...	—	...	344	
Ireland.....	32,513 ...	813 ...	195 ...	—	...	618	

This shows very plainly how far both Scotland and Ireland are still behind in rainfall work ; in Scotland the number of stations requires to be doubled, and in Ireland it needs to be quadrupled. The explanation is partly one of the sparsity of population, and partly of the much greater need for pure water in England than in other parts of the British Isles.

It would be a great help if all English observers who have shooting or fishing quarters in the sister countries would see that their keepers make regular observations ; it would amuse the men, keep them up to their work, and at the same time secure useful information.

MIDDLESEX (71).

ABSENT RECORDS.

Upper Clapton (The Common)—*Rec. ceased.*
Tottenham—*Observer moved.*

INSERTIONS.

Staines (Cherry Orchard).
Twickenham (Manor Road).
Isleworth (Warkworth House).
London (Strand).
Stamford Hill (Castlewood Hill).
Hornsey (Tottenham Lane).
Hendon (Hillwood).

SURREY (106).

Cranleigh (Winterfold)—*Record imperfect.*
Reigate (Holmfels)—*Record ceased.*
Dorking (Polesden Lacey)—*No reply.*
Caterham Valley (Congregational School)—*Rec.*
Purley (Reedham)—*Record ceased.* [*ceased.*
South Norwood (Selhurst Road)—*Rec. ceased.*
Streatham Hill (Wavertree Rd.)—*Gauge moved.*

Chiddingfold.
Hambleton (Matteryes).
Ewburst (Malquoits).
Capel (The Cottage).
Abinger Rectory.
Farnham (Hampton Lodge).
Guildford (Listoke).
Reigate Hill (Margery).
Upper Gatton.
Woking (Lindisaye).
Croydon (Heathfield Road).
„ (Chatfield Road).
Wimbledon Common (Parkside).
„ „ (Richmond Ho.)
„ Park (Woodhouse).

KENT (115).

Tunbridge Wells (Ferndale)— <i>Rec. imperfect.</i>	Wittersham.
Ashford (Pluckley)— <i>Record imperfect.</i>	Sandgate.
Wye (Bilting)— <i>No reply.</i>	Folkestone.
Seven Oaks (Purleigh)— <i>Return doubtful.</i>	Harrietsham (Stede Hill).
Lynsted (The Batteries)— <i>Not received.</i>	Maidstone (Wateringbury).
Rochester (Halling Cottage)— <i>Rec. unreliable.</i>	West Malling (St. Leonards).
Ash (Pettings House) <i>Old g.</i> — <i>Rec. discontinued.</i>	Aylesford (Preston Hall).
Beckenham (Foxgrove) 2 <i>gauges</i> — <i>Obs. moved.</i>	Seven Oaks (The Rectory).
Honor Oak— <i>Record ceased.</i>	" " (Chevening Gardens).
Blackheath (Westcombe Park Rd.)— <i>Rec. ceased.</i>	West Wickham (Wickham Court).
	Bromley Common (Elmfield).
	Chislehurst (Southlaund).
	Bromley (Widmore Road).
	Beckenham (Cedars Road).
	Sydenham (Gorrevod).

WEST SUSSEX (34).

Worthing.
Chichester (Sewage Works).
Steyning (Selehurst).

EAST SUSSEX (49).

Brighton (Goldstone Villas, Hove)— <i>Rec. imp.</i>	Brighton (W.W. Patcham).
Lewes (Iford)— <i>Record ceased.</i>	Hastings (Guestling Rectory).
	Conyborough.
	Ditchling.
	Hurstpierpoint (Danny Park).
	Playden (East Guldeford Lane).
	Lindfield (Wood Knoll).

HAMPSHIRE (84).

Brading (Oaklands)— <i>Record ceased.</i>	Ventnor (Consumption Hospital).
Yarmouth (National School)— <i>Rec. imperfect.</i>	Bonchurch (Lilies).
Botley (Beechcroft, Curdrige)— <i>Record imp.</i>	Ryde (St. John's Park).
Southampton (Red Lodge) M— <i>Record ceased.</i>	Christchurch School.
Bramshott Rectory— <i>No reply.</i>	Southampton (Shirley Warren).
Alton (Thedden Grange)— <i>Record ceased.</i>	Botley (Hall Court).
Aldershot.— <i>No reply.</i>	Alton (Hill House).
Hartley Wespall— <i>Record ceased.</i>	" " (Shalden Manor).
	Heckfield Place.

BERKS (36).

Old Windsor (Beaumont College)— <i>Record imp.</i>	Reading (Calcot Place).
Reading (Russell Street)— <i>Observer dead.</i>	Maidenhead (Pinkney's Green).
Abingdon (Sutton Courtney)— <i>Rec. imperfect.</i>	Abingdon Union.

HERTS (48).

Hertford (Haileybury College)— <i>Record imp.</i>	Barnet (Trent Park).
	Hoddesdon (Fielde's Weir).
	GreatBerkhampstead (Northchreh.)

BUCKS (21).

Slough (Upton Park)— <i>Not received.</i>	Slough (Upton Hall). 3rd gauge.
Marlow (Cromwell House)— <i>Observer dead.</i>	„ (Sefton Park).
	Hedsor.
	Winslow (Addington Manor) 2nd g.

OXFORD (37).

Iffley (The Elms)— <i>No reply.</i>	Watlington (Shirburn Castle).
	Nuneham Park Gardens.
	Garsington
	Banbury (Bodicote).

NORTHAMPTON (47).

Northampton (Little Houghton)— <i>Rec. ceased.</i>	Byfield (Woodford Halse).
„ (Elysium Terrace)— <i>Not receivd.</i>	Rushden.
Holdenby Rectory— <i>Record ceased.</i>	Watford Court.
Hazelbeach— <i>Record imperfect.</i>	West Haddon.
	Kettering (Queensberry Road).
	Corby (Weldon Grange).
	Stamford (St. Martins).

HUNTS (7).

| St. Neots (Great Paxton).

BEDFORD (19).

Ampthill.— <i>Record imperfect.</i>	
Bedford (Western Street).— <i>Record ceased.</i>	
Podington (Hinwick House).— <i>No observations.</i>	

CAMBRIDGE (30).

| Cottenham.
| Wisbech (Tydd St. Giles).

ESSEX (50).

Walthamstow (Forest Road)— <i>Record ceased.</i>	Shoeburyness.
Maldon (Norton Hall)— <i>Record ceased.</i>	Barking Burial Ground.
Harlow (Moor Hall)— <i>Observer dead.</i>	Buckhurst Hill.
Dunmow (Saling Grove)— <i>Observer absent.</i>	Layer Breton Rectory.
	Dedham.
	Saffron Walden (Audley End).

SUFFOLK (39).

Hollesley (Shingle Street)— <i>Record imperfect.</i>	Ash Bocking Vicarage.
Ixworth (Barningham)— <i>Record imperfect.</i>	Bacton.
Kessingland— <i>Record ceased.</i>	Stradbroke Rectory.
Beccles (Sotterley Hall)— <i>No reply.</i>	

NORFOLK (66).

Blo' Norton— <i>Record ceased.</i>	Saxlingham Nethergate.
Ellingham— <i>No reply.</i>	Loddon (Bergh Apton Rectory).
Acle Rectory— <i>Record ceased.</i>	Norwich (Dunston Hall).
Costessey— <i>Record ceased.</i>	„ (Brundall).
	„ (Ipswich Road).

WILTS (50).

Salisbury (Britford)— <i>Record ceased.</i>	Salisbury (Milford Hill).
Ludgershall (Conholt Park)— <i>Record ceased.</i>	Winterslow.
Corsham— <i>Return imperfect.</i>	Trowbridge (Lovemead).
Ogbourne Maizy.— <i>Return imperfect.</i>	Ashley Recto [Tetbury].
Swindon (Pen Hill)— <i>Observer moved.</i>	rv
Malmesbury (Charlton Park)— <i>No reply.</i>	
Highworth (Hannington Hall)— <i>Record imp.</i>	

DORSET (36).

Bere Regis Vicarage— <i>Gauge out of order.</i>	Bere Regis (Whitelovington).
Shaftesbury— <i>Record ceased.</i>	Godmanstone Manor.
	Wimborne (Rowlands).
	Blandford St. Mary.

DEVON. (99)

Salcombe (The Knoll)— <i>Observer dead.</i>	Kingsbridge.
Brixham (Lupton)— <i>Observer dead.</i>	Torquay (Chapel Hill).
Paignton (Sarsden Lodge)— <i>Gauge moved.</i>	Teignmouth (Bitton Street).
Teignmouth (Reservoir)— <i>Record imperfect.</i>	Tavistock (Rose Villa).
Axminster (South Street)— <i>Record ceased.</i>	Exeter (Brampford Speke).
Hatherleigh (Ash House)— <i>No reply.</i>	Tiverton (St. Peter Street).
South Molton (Castle Hill)— <i>No reply.</i>	Otterford (Otterhead).
	Backenford (Cruwyschay).

CORNWALL (36).

Morvah (Bosporthenis)—*Gauge stolen.*
Falmouth (Cardew)—*Gauge leaking.*

Land's End.
Penzance (Morrabs).
St. Just-in-Penwith.
St. Ives
Truro (Killiow).
Liskeard (St. Clear Down).
Launceston.
North Tamerton (Ogbeare).

SOMERSET (65).

Frome (Rock House, Mells)—*Observer moved.*
Bath (Freshford)—*Record ceased.*
Bristol (Coronation Road)—*Record imperfect.*

Yeovil (Gas Works).
Taunton (Blagdon Hill).
„ (Leigh Hill).
Wellington (Windwhistle House).
Sandford Orcas Rectory.
Taunton (The Mount, Halse).
„ (The Priory, Ash Priors).
Somerton (Butleigh Court).
Brent Knoll.
Radstock (High Littleton).
Clevedon (Water Works).
Abbots Leigh.
Failand House [Bristol].

GLOUCESTER (80).

Stonehouse (Haywardsfield)—*Rec. imperfect.*
Northleach (Hampnett Rec.)—*Observer moved.*
Gloucester (Wotton Hill)—*Record imperfect.*
Mitcheldean (Edge Hill House)—*Observer dead.*
Cheltenham (Selsley Lawn)—*Record unreliable.*
Moreton-in-Marsh (Longboro') *Old g.—Discon-*
[*tinued.*

Clifton (College) 2nd gauge.
Bristol (Over Court Park).
" (" Gardens).
Tutshill [Chepstow].
Wirewood Green [Chepstow].
Berkeley (Castle Gardens).
Haresfield Court.

HEREFORD (28).

Wyastone Leys [Monmouth].—*No reply.*
 Hereford (Brinsop Vic.).—*Observer moved.*
 Kington (Evancoyd).—*See Radnor.*
 „ (Eywood).—*No reply.*

Hereford (Bullinghope).

SHROPSHIRE (31).

Cleobury Mortimer (The College).

STAFFORD (35).

Wolverhampton (Tettenhall)—*Gauge moved.*
Alstonfield Vicarage—*Record imperfect.*

Handsworth.
Alrewas.
Salt Vicarage.

WORCESTER (34).

Pendock Rectory [Tewkesbury]— <i>Observer ill.</i>	Evesham (The Drift).
Blockley— <i>Record ceased.</i>	Northfield (Longbridge).
Great Malvern (Davenham Bank)— <i>No reply.</i>	Selly Oak (The Dell).
„ „ (Leigh Sinton)— <i>Record imp.</i>	Dudley (Trindle House).
Moseley [Birmingham]— <i>Record ceased.</i>	

WARWICK (34).

Rugby (Dunchurch Hall)— <i>Record lost.</i>	Long Compton (Weston Park).
Atherstone— <i>Record incorrect.</i>	Warwick (Hatton Vicarage).
	Milverton (Latmos).
	Coventry (City Hospital).
	Solihull (Blossomfield).
	Birmingham (Sparkbrook).

LEICESTER (23).

Swithland— <i>Record ceased.</i>	Hallaton Hall.
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RUTLAND (6).

Ketton Hall [Stamford]— <i>Snowdon—Discontin.</i>	
Oakham (Greetham)— <i>Observer moved.</i>	

LINCOLN (63).

Stamford (Northfields)— <i>Record ceased.</i>	Stamford (Colly Weston Road).
Wrangle— <i>No reply.</i>	Bourne (Wytham-on-the-Hill).
Horncastle (Queen Street)— <i>Observer dead.</i>	„ (Edenham).
Caistor— <i>Observer moved.</i>	Grantham (Syston Park).
Grimsby (Aylesby)— <i>No observations.</i>	Spilsby (Hagnaby Priory).
Barton-on-Humber (Saxby Rec.)— <i>No observ.</i>	Lincoln (St Catherine's).
	Caistor (Cabourne).
	Grimsby (Waltham).
	West Halton

NOTTS (37).

Nottingham (Mapperley Hall)— <i>Record ceased.</i>	Farnsfield.
Nuttall— <i>No observations.</i>	South Scarle.
	Worksop (Osberton Gardens).
	Retford (Morton Hall).

DERBY (39).

Stapenhill [Burton]— <i>Record ceased.</i>	Stanton House [Burton].
„ „— <i>Record ceased.</i>	Derby Arboretum.
Bretby Park— <i>No reply.</i>	Alderwasley.
Elvaston— <i>Record ceased.</i>	Tideswell (Sterndale Ho., Litton).
Alvaston— <i>Record ceased.</i>	
Spondon— <i>Observer dead.</i>	
Stony Middleton— <i>Record ceased.</i>	

CHESHIRE (71).

Chester (Rowton Grange)—*Record imperfect.*
 Frodsham (Fox Hill) - *Record ceased.*
 Knutsford (Heath Side)—*Record ceased.*

Aldford.
 Eaton Hall Gardens.
 Chester (Hoole Lodge).
 Disley (Lyme Park). *No. 1.*
 " (") *No. 2.*
 Bowdon (Erlesdene). *2nd g.*
 Thelwall (Millington House) *2nd g.*
 Birkenhead (Oxton).

LANCASHIRE (161).

Warrington (Cemetery)—*Record imperfect.*
 " (Training College)—*Record imp.*
 Manchester (Stretford)—*Record ceased*
 Southport (Birkdale) M—*Gauge worn out.*
 Over Darwen (Hoddlesden Res.)—*Ret incorrect.*
 Blackburn (Water Works Office)—*Ret incor.*
 Preston (Corporation Offices)—*Rec. imperfect.*
 Clayton-le-Moors (Oakenshaw)—*No observtns.*
 Garstang (Calder Mount)—*Discontinued.*
 Lancaster (Rose Bank) - *Observer moved.*
 Hawkshead (Strickland Ease)—*Record imp.*

Warrington (Fever Hospital).
 St. Helens.
 Eccles (Worsley Old Hall).
 Manchester (Cheetham Hill)
 Milnrow (Piethorne, Kitcliffe).
 Rochdale (Spring Mill, Whitworth).
 " (Cowm, Whitworth).
 Haslingden Vicarage.
 Blackpool Hospital.
 Cartmel Fell Vicarage.

YORKSHIRE—WEST RIDING (229).

Wath-upon-Deerne (West Melton)—*Obs. dead.*
 Barnsley (Wellington Street)—*Gauge moved.*
 Pontefract (Purstone Hall)—*Record ceased*
 Bradford (Stairs) M - *Record imperfect.*
 Skipton (Counter Hill) M - *Record imperfect.*
 Knaresborough—*Observer moved.*
 Nidderdale (East Gill) M—*Record imperfect.*

Tickhill. [Brampton].
 Wath-upon-Deerne (Bierlow).
 Doncaster (Burghwallis Rec.) *2nd g.*
 Huddersfield (Firth Observatory).
 Rastrick.
 Bradford (Allerton Road).
 " (Thornton Road).
 " (Manningham)
 Leeds (Weetwood Lodge).
 " (South View Ho., Yeadon).
 Nun Monkton.

YORKSHIRE—EAST RIDING (27)

Hull (Derringham)—*Record ceased.*
 Beverley (Alexandra Terrace) - *Observer dead.*
 Middleton-on-the-Wolds—*Record imperfect.*

Beverley.
 Mapleton Manor House.

YORKSHIRE—NORTH RIDING (37).

Terrington Hall—*No reply.*
 Oswaldkirk (The Hermitage)—*Observer moved.*
 Thirsk (Sowerby, Rose Cottage)—*No reply.*
 Pickering—*No reply.*
 Aysgarth (Carperby) - *No observations.*
 Hambleton Hills (Paradise) - *No reply.*

Hawes (South Lunds School).
 Richmond.
 Robin Hood Bay (Fylingdales Vic.)
 Barnard Castle (Hury Res.)

DURHAM (37).

West Hartlepool (Lynn Street)—*Gauge moved.*

Shotley Bridge - *Observer dead.*

Gateshead (Southdene Tower)—*Record ceased.*

NORTHUMBERLAND (49).

Haltwhistle (Shaft Hill, Herdley Bk.)—*No reply.* Newcastle (Lit. and Phil. Society).

(*Chronicle Office*).

Morpeth (Stobhill).

Rothbury (Brinkburn Priory).

Whittingham (Callaly Castle).

CUMBERLAND (69).

Egremont—*No reply.*

Seathwaite (2nd g.)—*Not observed.*

Armboth — Gauge moved.

Keswick (Bank)—2nd g. Moved.

Penrith (Newton Reigny) – *Observer moved.*

“ “ “ ” } M—Observer moved.

Kirkoswald (Melmerby) — *Record imperfect.*

Egremont (Park Ho., Bigrigg).

Cleator Moor.

Thirlmere (Dale Head Hall).

Distington (Gilgarron).

Keswick (Eskin Place).

Penrith (Greystoke, Belle View).

„ (Nunwick Hall).

Alston (Love Lady Shield).

WESTMORELAND (34).

Kendal (Underfell) M—*Discontinued.*

Ambleside (Nook Cottage)—*Record ceased.*

Kendal (Ellergreen).

Shap (Church View).

Appleby (Ormside).

WALES.

MONMOUTH (23).

Newport (Ynys-y-bro)—*Record imperfect.*

Abersychan—*Record interrupted.*

Llantillio Crosseny (Brynderie).

GLAMORGAN (34).

Cardiff (Lisvane)—*Record imperfect.*

Swansea (South Dock Lock) — *Rec. unsatisfac.*

Ystalyfera (Tan-yr-allt) — *Observer dead.*

Pontypridd.

Ystaflyfera (Wern Schools).

CARMARTHEN (4).

Tegfynydd [Narberth]—*No reply.*

Carmarthen (Joint Co. Asylum — *Observer dead.*

PEMBROKE (8).

Clarbeston (Penty Park)—*Record imperfect.* | Llanrhian Vicarage.

CARDIGAN (5).

Aberaeron (Dolaeron)—*Record ceased.* |

BRECKNOCK (21).

Nant-y-stalwyn Hill—*Gauge destroyed.* | Brecknock (The Barracks).
Builth.

RADNOR (13).

Disserth (Glanhowey)—*No reply.* | Old Radnor (Evancoyd).
Llandrindod—*Observer dead.* |

MONTGOMERY (10).

Welshpool (Llwynderw)—*No reply.* | Llandinam.

FLINT (9).

Hawarden—*No reply.* | St. Asaph (Maes Elwy).

DENBIGH (17).

Cerrig-y-druidion—*Record unreliable.* | Wrexham (Broughton).
Wrexham (Is-y-coed)—*Record ceased.* |
Trefnant (Maes Elwy)—*No reply.* |

MERIONETH (6).

CARNARVON (13).

Pen-y-gwryd Hotel—*No reply.* |
Carnarvon (North Road)—*Record imperfect.* |

ANGLESEA (4).

ISLE OF MAN (9).

The Dhoon—*Record ceased.* |

ISLES OF SCILLY (2).

JERSEY (3).

GUERNSEY (3).

| St. Martin's (Les Blanchés).

SCOTLAND.

WIGTON (6).

KIRCUDBRIGHT (16).

St. Mary's Isle— <i>No reply.</i>	|	Kirkcudbright (Balmae).
Dalry (Dalshangan)— <i>Record ceased.</i>		

DUMFRIES (13).

Lockerbie (Tundergarth Manse)— <i>No reply.</i>	
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ROXBURGH (14).

	New Castleton (Kirndean).
	Hawick (Wolfelee).

SELKIRK (3).

PEEBLES (5).

BERWICK (5).

Coldstream (Milne Graden)— <i>No observations.</i>	
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HADDINGTON (5).

Garvald (Donolly Reservoir)— <i>No reply.</i>		Drummore [Musselburgh].
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EDINBURGH (27).

Dalkeith— <i>Return unreliable.</i>		Pentland Hills (Swanston).
Colinton (Fernelaw)— <i>No observations.</i>		Liberton (Alnwick Hill).
	|	Rosewell Asylum.
	|	Edinburgh (Royal Botanic Garden).

LINLITHGOW (4).

LANARK (12).

AYR (19).

Ayr (Auchinlee)— <i>Gauge moved.</i>	|	Ayr (Ballantine Drive).
Old Cumnock (Townhead) <i>Record ceased.</i>	|	Muirkirk (Glenbuck).
„ M <i>Record ceased.</i>	|	Shaws W. Works (Knockencorsan).

RENFREW (29).

|	Duchall Moor.
|	Largs Road.
|	Darndaff Moor.

DUMBARTON (7).

| Helensburgh (Water Works).

STIRLING (15).

St. Ninians (Fallin)—*Return imperfect.*| Larbert (Carron Park).
| Stirling (Ravenna Cottage).

BUTE (5).

| Kingarth (Plan).

ARGYLL, MAINLAND (21).

Oban (The Corran)—*Record imperfect.*

| Inverary.

ARGYLL, INSULAR (16).

Sanda—*Return unreliable.*

| Jura (Bay of Small Isles).

Islay (Gruinart School Ho.)—*Record unreliable.*Jura (Lowlandmansbay)—*Return not received.*

CLACKMANNAN (3).

Menstrie (The Myretoun)—*No reply.*

|

KINROSS (3).

FIFE (11).

| Pittenweem (The Priory).

PERTH (27).

Dunkeld (Inver Braan)—*Gauge out of order.*Rannoch (Gauer)—*Record ceased.*| Ochtertreyre [Stirling].
| Ballinluig.
| Blair-Atholl.

FORFAR (23).

| Monifieth (Fountain Brae).
| Arbroath (Waterworks Tower)

KINCARDINE (4).

ABERDEEN (20).

Aberdeen (Duthie Park)—*Return not received.*Inverurie (Manor Farm)—*Record ceased.*| Towie (Culquoich).
| Peterhead.
| New Pitsligo.

BANFF (4).

ELGIN OR MORAY (6).

NAIRN (2).

WEST ROSS (10).

Lochbroom (Loch Drome)—*Record unreliable.* | Loch Torridon (Bendamph).
 Ullapool (Rhidorroch)—*No reply.*

EAST ROSS (9).

Fearn (Geanies Mains)—*Record unreliable.* | Strathpeffer.

WEST INVERNESS (17).

EAST INVERNESS (8).

Loch Treig (Luibruaridh)—*Record ceased.* | Beauly.

SUTHERLAND (7).

Lairg—*Return imperfect.* |

CAITHNESS (6).

ORKNEY (9).

North Ronaldshay—*Record unreliable.* | Hellyar Holm.
 Shapinsay (Balfour Castle)—*Rec. unreliable.* |

SHETLAND (4).

IRELAND.

CORK (9).

KERRY (9).

Killarney (Gap of Dunloe)—*Record imperfect.* | Mangerton.
 Tralee (Meadow Lands)—*No reply.* |

WATERFORD (8).

| Waterford (Rockenham).
 „ (Cove Lodge) 2nd g.

TIPPERARY (9).

LIMERICK (5).

| Limerick (Roxborough) *2nd g.*

CLARE (6).

Sixmilebridge (Kilkishen)—*Observer dead.* | Killalysert (Paradise Hill).

WEXFORD (7).

Wexford (Felt House)—*No reply.* |

KILKENNY (5).

| Kilkenny (Sion Villa).

WICKLOW (3).

Ashford (Ballycurry)—*No reply.* |

CARLOW (2).

QUEEN'S COUNTY (2).

| Maryborough (Meelick House).

KING'S COUNTY (4).

KILDARE (1).

DUBLIN (10).

MEATH (5)

| Summerhill House.

WESTMEATH (2).

Street [Edgeworthstown]—*Record lost.* |

LOUTH (4).

LONGFORD (2).

GALWAY (9).

Galway (Queen's College)—*Record imperfect.* |

ROSCOMMON (2).

Donamon (Castle Coote)—*No observations.* |

MAYO (4).

SLIGO (5).

LEITRIM (3).

CAVAN (12).

Virginia (The Lodge)—*Record imperfect.*Dowra—*Record imperfect.*

FERMANAGH (3).

MONAGHAN (4).

Castleblayney—*Record imperfect.*

ARMAGH (6).

DOWN (12).

; Banbridge (Corbet Reservoir).

ANTRIM (17).

Aghalee [Lurgan]—*No reply.*Lisburn (Prospect Hill)—*No observations.*Stonyford (Belfast W. W.)M—*No observations.*Crumlin (Langford Lodge)—*No reply.*Ballynure (Ballyboley).
Broughshane (Quolie).

LONDONDERRY (7).

TYRONE (7).

Stewartstown (Ardrea Rectory)—*Obs. moved.*

DONEGAL (11).

Lough Eske (The Castle) - *Record ceased.*Bloody Foreland (Ardnadrean)—*Record imp.*Moville Rectory—*No reply.*

Rathmullen (Fort Royal).

O B I T U A R Y.

THE little band of survivors among the helpers to the first issue of this series of volumes—that for 1860—is being gradually reduced ; but considering that it is more than 30 years since, it is, perhaps, rather a subject for thankfulness that 22 remain out of the original 168. This year we have only lost one, the Rev. A. R. Lloyd, at 78—slightly above the average age at death of rainfall observers, which is about 75. This year the mean age of 42 deceased observers is exactly 75. Out of 42 whose age we knew, 37 were over 60, 29 over 70, 21 over 75, 15 over 80, 7 over 85, and 2 over 90.

As regards length of observation, Mr. Lawton, of Hull, heads the list with 43 years ; followed by Mr. Collingwood, of Lilburn Tower, and the Rev. A. R. Lloyd, of Oswestry, with 39 ; Dr. Armstrong, of Appleby, with 38 ; Mr. Dudgeon, of Cargen, with 36 ; and Mr. Morgan, of Tegfynydd, with 35 consecutive years of observation.

It is always sad work, the compiling of this list of friends and helpers who can help no more ; but there is one gleam of brightness shoots across it in the fact (which is becoming more frequent) of sons and, in some cases, grandsons carrying on the work of previous generations. If we could secure that generally, there would be little doubt as to the accuracy of the knowledge of the secular change of rainfall which our successors would possess.

Observers Deceased to July, 1895.

NAMES AND STATIONS.	PERIOD OF OBSERVATION.	
	DATE.	Perfect Yearly Records.
Armstrong, Dr. Fergus, Appleby, Westmoreland ...	C 1856 imp -94	38
Ballingal, J. S. R., Esq., Eallabus, Islay, Argyll ...	C 1866 -94.....	29
Bankes, J. Scott, Esq., Soughton Hall, Northop, Flint.....	1877-94	18
Bentley, G., Esq., Upton, Slough.....	1874-94 C	21
Biddell, M., Esq., Playford, Ipswich	1884-90 T	7
Bowles, Rev. F. A., Singleton, Chichester	1878-92 T	15
Bridge, Rev. S., Droxford Rectory	1874-85 T	12
Clarke, Edwin, Esq., C.E., Cromwell House, Great Marlow	C 1880-89, 93 T	11
Collingwood, E.J., Esq., J.P., D.L., Lilburn Tower, Alnwick.....	1856-94	39
Coulson, Mr. J., { Shotley Hall	1870-79	21
{ Shotley Bridge, Durham	1882-93	
Coupland, R. C. B., Esq., Skellingthorpe Hall, Lincoln	1874-75, 77-94	20
Davy, Mrs. Tanner, Rose Ash, South Molton, Devon	1887-94	8
Devas, Mrs., Colwall, Great Malvern	1876-90 T ...	15
De Winton, The Ven. Archdeacon, Llandrindod Wells	C 1882 imp -93... ..	11
Dudgeon, P., Esq., Cargen, Kirkcudbright	C 1859-94 C	36
Eagles, Rev. C. L., Longtown Vicarage, Abergavenny	C 1873 imp -84 imp T	10
George, Dr. H., Queen Street, Horncastle	1874-93	20
Grey, The Rt. Hon. Earl, K.G., Howick, Northum- berland	C 1863-94 C	32
Hadden, Miss, The Beeches, Guildown, Guildford...	C 1870 imp -93.....	23
Hardy, W. H. Cozens, Esq., Letheringsett Hall, Norfolk	1873-94	22
Heathcote, Rev. Canon, Conington Rectory, Hunts	1864-65 T	2
Heygate, Sir F. W., Bart., Bellarena, Londonderry	C 1864 imp -93 C.....	29
Holmes, R., Esq., The Parade, Arundel, Sussex ...	1879-94	16
Hussey, E., Esq., Scotney Castle, Lamberhurst ...	1862-65, 73-89.....	17
Kingston, Mr. R. C., Brantinghamthorpe, E. Yorks	C 1874 imp -94.....	20
Knowles, G., Esq., Moorhead, Shipley, Yorks	1878, 80-85, 87-94	15
Lawton, W., Esq., { Manor House Street, { Hull	C 1849 imp -71 imp T	43
{ Derringham, {	C 1871 imp -93 T.....	
Lewis, D. H., Esq., Ystalyfera, Glamorgan	1882-93 T	12
Littleboy, R., Esq., Newport Pagnell, Bucks... ..	C 1864 imp -94 C.....	30
Lloyd, Mrs., Gwernvale, Crickhowell	C 1884 imp -94.....	10
„ Rev. A. R., Hengoed, Oswestry, Salop	C 1856-94 T	39
„ Rev. Canon Kilkishen. Co. Clare.....	C 1883 imp -93 T	10
McCallum J.B., Esq., C.E., Waterworks, Blackburn	1884-93	10
Marshall, John, Esq., Derwent Island, Keswick ..	1884-93 C	10
Morgan, H.S., Esq., { Rhydwen, Llandisillio, { South	1859-68 T	35
{ Fegfynydd, Llanfalteg, { Wales	C 1869-93 T	
Norman, Rev. R. M., Bottesford, Leicestershire ..	C 1888 imp -94.....	6
Orr, Rev. J. H., D.D., The Manse, Antrim	C 1864-74, 76-7, 80, 83-94	26
Parkes, C. H., Esq., Netherfield, Weybridge	1886-94	9

Observers Deceased to July, 1895—(continued).

NAMES AND STATIONS.		PERIOD OF OBSERVATION.	Perfect Yearly Records.
		DATE.	
Paulin, T., Esq.	{ Winchmore Hill, Middlesex ...	C 1866-74 imp T	} 26
	{ The Chase, Enfield, „ ...	C 1874 imp -85 imp T	
	{ Forty Hill, „ ...	C 1885 imp -89 imp T	
	{ The Beeches, Keswick	C 1890-94	
Phillips, W. H. M., Esq.,	Edge Hill House, Mitcheldean, Gloucestershire.....	1877-93 T	17
Reynolds, J., Esq.,	Fox Hill, Frodsham, Cheshire...	C 1871 imp -86, 88-93 T	21
Ryan, E. K., Esq., C.E.,	Alma, Wexford	1885-94	10
Sandbach, H. R., Esq.,	Hafodunos, Abergele, North Wales	1882-94	13
Seccombe, Dr.,	Terrington, Lynn, Norfolk.....	C 1876-94 T	19
Shaw, Captain,	Harbour Office, Ramsgate	C 1867	1
Sidebottom, J., Esq., J. P.,	Millbrook, Hadfield, Ches.	1887-94	8
Slatter, T. J., Esq.,	{ The Bank, Evesham, Worcester	1880 imp -92 imp }	} 14
	{ The Drift, „	C 1892 imp 94..... }	
Smith, Mrs.,	St. George's Lodge, Weybridge „ ...	C 1886 imp -92 T	6
Stotherd, Gen., C. B.	{ Ordnance Sur. Off., S'thamptn.	1883-85	} 10
	{ Heathcote, Camberley, Surrey.	C 1887 imp -94..... }	
Tomes, Sir J., F.R.S.,	Upwood Gorse, Caterham...	C 1870-72, 75	4
Vawdrey, W., Esq., C.E.,	South Staff. W. Works.	1889-93	5
Wainwright, B. C., Esq.,	Elmhurst, East Finchley..	C 1880 imp -94	14
Woodd, Basil T., Esq.,	Conyngham Hall, Knares- borough	C 1885 imp -94.	9
Woods, Mr. S. A.,	Osberton Hall, Worksop	1878-94	16
Workman, Dr.,	Russell Street, Reading.....	C 1866-93 T	28
Yool, H., Esq.,	{ Oakfield, {	C 1875 imp -91 T... }	} 20
	{ Field Place, { Weybridge.....	C 1891-94 C }	

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

RAINFALL AND METEOROLOGY
OF
1894.

SYMBOLS EMPLOYED.

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

ON THE METEOROLOGY OF 1894.

WITH NOTES ON SOME OF THE PRINCIPAL PHENOMENA.

[These Notes should be read in conjunction with those on Heavy Rains in 1894.]

JANUARY.

1st—5th.—*Broxbourne* (III). S daily.

1st—6th.—*Horncastle, Hemingby* (VII). S daily.

2nd.—*Chelford, Astle Hall* (VIII). An inch of S fell.

2nd and 3rd.—*Rendlesham Hall* (IV). S.

2nd—5th.—*Seven Oaks, Riverhead Vic.* (II). Considerable falls of S.
—*Coventry, Coundon* (VI). S daily.—*Edinburgh, Blacket Place* (XIII).
S and H.

3rd.—*Haslemere, Hazelhurst* (II). S six inches deep.—*Farnham, Seale* (II). S yielding .35 in.

3rd—5th.—*Pitsford, Sedgebrook* (III). S daily.—*Alderbury* (V). S daily.—*Knaresborough, Farnham* (IX). S 4 or 5 inches deep.—*Lough Sheelin, Arley* (XXIII). S.

3rd to 7th.—*Alton, Ashdell* (II). Temp. did not rise above 28°.—*Horncastle, Bucknall* (VII). Hard frost and heavy drifting snows.

4th.—*Ketton Hall* (VII). S 2½ inches deep.—*Chelford, Astle Hall* (VIII). High N.E. wind, with driving S and sleet.—*Brough, Brantinghamthorpe* (IX). Six inches of S.—*Keswick, The Beeches* (X). Heavy S, much drifted.

4th—6th.—*Alconbury* (III). S daily.—*Crewkerne, Bincombe House* (V). Very cold, with S and sharp frost.—*Inverary, Newtown* (XV). S daily.—*Athlone, Twyford* (XXI). S, which lay till the 8th.—*Lawderdale* (XXII). S.

4th—7th.—*Glenaladale* (XVIII). S daily.

4th—9th.—*Balquhiddier, Stronvar* (XVI). S daily, 3 inches deep on 5th and 4 inches on 8th.

5th.*—*Camden Square* (I). Min. in air 13°·1, being the coldest for 35 years, with the following exceptions: 1860, Dec. 25th,

* See also *Met. Mag.*, February, 1894, p. 1.

and 1867, Jan. 4th, $6^{\circ}7$; and 1881, Jan. 17th, $11^{\circ}8$. Up to 6 p.m. the max. was $18^{\circ}4$, which was the coldest on record here except Jan. 4th, 1867, when it was $16^{\circ}9$.—*Ditchling* (II). Heavy S; depth on ground on morning of 6th, 5 inches.—*Emsworth, Redlands* (II). S 2 inches deep.—*Membland* (V). S 8 inches deep.—*Ross, The Graig* (VI). Exceedingly cold; temp. at 2 p.m. $15^{\circ}6$; max. for the day $19^{\circ}8$ not reached until after sunset.—*Melrose, Abbey Gate* (XII). S $2\frac{1}{2}$ inches deep.—*Ardee, Lisrenny* (XXI). Heavy S, six inches deep on the level.

5th and 6th.*—*Maidenhead, Hedsor* (III). S and intense cold.—*Ashburton, Holne Vicarage* (V). S.—*Witheridge, Bradford Cott.* (V). S about half-an-inch deep; the only time in the winter that S remained on the ground.—*Courtown* (XXI). S 6 inches deep.

6th.*—*Ashburton, Druid House* (V). S on ground 5 inches deep.—*Wellington, Sunnyside* (V). Ground covered with S.—*Ketton Hall* (VII). S $3\frac{1}{2}$ inches deep.—*St. Bride's Bay, Hilton* (XI). S yielding $\cdot35$ in.—*New Galloway, Glenlee* (XII). S 3 inches deep.

6th and 7th.*—*Ross, The Graig* (VI). Skating on the River Wye.

7th.*—*Burton Croft* (IX). The Ouse frozen at York, but not for skating.—*Galway, Queen's College* (XXII). About three inches of S.

17th.—*Maidenhead, Hedsor* (III). Very mild, max. temp. 55° .—*Nottingham, Beeston Fields* (VII). In 30 minutes $\cdot40$ in. of R fell.—*Coolkelure* (XX). L and much T.—*Cork, Clarence Place* (XX). T, L, H and R.

22nd.—*Newport, The Castle* (XI). In 12 minutes $\cdot20$ in. of R fell.

23rd.—*Douglas, Victoria Road* (XI). Ground covered with S.—*Coolkelure* (XX). Heavy S showers.

24th.—*Ashburton, Druid House* (V). Coloured lunar rainbow.

25th.†—*Monmouth, The Hendre* (XI). T and H storm at night.—*Balquhiddy, Stronvar* (XVI). S 3 inches deep.—*Ben Nevis* (XVIII). St. Elmo's fire.

25th—27th.—*Balquhiddy, Stronvar* (XVI). S.—*Miltown Malbay* (XX). T and L daily.

25th—31st.—*Drumnadrochit* (XVIII). S daily, and L at 7 p.m. on 31st.—*Lough Sheelin, Arley* (XXIII). S daily.

26th.—*Glasgow, Queen's Park* (XIV). About 6 inches of S.

* See also *Met. Mag.*, Feb. 1894, p. 1.

† See also *Met. Mag.*, Feb. 1894, p. 8.

27th.—*Ashburton, Druid House* (V). Heavy gale in evening with T and L.—*New Galloway, Glenlee* (XII). Heavy R, H and Sleet.—*Inverary, Newtown* (XV). Heavy H showers and T.—*Balquhiddier, Stronvar* (XVI). S 3 inches deep.

28th.—*Sudbury, Friars Street* (IV). L at night.—*Harrogate, Bog Valley Gardens* (IX). An inch of S.—*Melrose, Abbey Gate* (XII). S 2 inches deep.—*Edinburgh, Blacket Place* (XIII). Heavy S till noon.—*Coolkelure* (XX). Heavy S showers.—*Miltown Malbay* (XX). Squally, L, H and S.

29th.—*Inverary, Newtown* (XV). T and H.—*Balquhiddier, Stronvar* (XVI). T and L at night.—*Killarney, Woodlawn* (XX). TS.—*Miltown Malbay* (XX). Stormy, T, L, H, Sleet, S and R.

30th.—*Tavistock, Rose Villa* (V). T and L at 10.14 p.m.—*Southport, Hesketh Park* (VIII). S.W. gale, H and S.—*Harrogate, Bog Valley Gardens* (IX). Two inches of S.—*Knaresborough, Farnham* (IX). H and S 4 inches deep.—*New Galloway, Glenlee* (XII). Heavy H and S.—*Edinburgh, Blacket Place* (XIII). Slight TS at 11.10 p.m., and heavy S showers.—*Coolkelure* (XX). Snowing heavily all day.—*Ennis* (XX). Heavy showers of S.

30th and 31st.—*Lawderdale* (XXII). S.

31st.—*Miltown Malbay* (XX). N.W. storm, S, sleet, H, R and L.

FEBRUARY.

1st.—*Ross, The Graig* (VI). Ground slightly covered with S.—*Glasgow, Queen's Park* (XIV). Two inches of S.—*Miltown Malbay* (XX). Gale with S, sleet, H and L.

2nd.—*Nottingham, Beeston Fields* (VII). Ther. in shade 50° at 9 a.m.—*Drumnadrochit* (XVIII). L and aurora.

3rd.—*Ben Nevis* (XVIII). L and St. Elmo's fire.

5th.—Great floods in *Perth*, and along the course of the *Tay*; at *Stanley Mill* there is an engraved plate showing the height of a flood in 1848, the present flood is the highest since that date; the *Tummel* higher than it had been for 50 years; at *Kingussie* it was reported that the *Spey* was even higher than in the *Moray* floods of 1829.

6th.—*East Layton* (IX). Strong gale, doing much damage.—*Grasmere* (X). R 3.65 in., falling almost continuously at a fairly uniform rate.—*Ben Nevis* (XVIII). In 24 hours, ending 9 a.m. 7th, 7.74 in. of R fell. The hourly values being as follows:—

	ins.		ins.
Hour ending 10 a.m.	·581	Hour ending 10 p.m.	·226
„ „ 11 „	·812	„ „ 11 „	·234
„ „ noon	·663	„ „ midnight	·180
„ „ 1 p.m.	·583	„ „ 1 a.m.	·235
„ „ 2 „	·273	„ „ 2 „	·260
„ „ 3 „	·240	„ „ 3 „	·295
„ „ 4 „	·243	„ „ 4 „	·705
„ „ 5 „	·163	„ „ 5 „	·188
„ „ 6 „	·481	„ „ 6 „	·072
„ „ 7 „	·341	„ „ 7 „	·116
„ „ 8 „	·416	„ „ 8 „	·070
„ „ 9 „	·232	„ „ 9 „	·136

Cork, Clarence Place (XX). The last of 31 consecutive rainy days.

7th.—*Drumnadrochit* (XVIII). L in morning.

7th and 8th.—*Invershin* (XIX). T and L.

8th.—*Ben Nevis* (XVIII). TS 4.30 a.m to 6 a.m.

8th—12th.—*Nun Monkton* (IX). The Ouse in flood.

9th.—*Dalnaspidal* (XVI). S, T and L.—*Ben Nevis* (XVIII). L and St. Elmo's fire.

9th—11th.—*Marlborough, Mildenhall* (V). Fearful gale for 48 hours.

10th and 11th.—*Southport, Hesketh Park* (VIII). Severe S.W. gale.

10th—12th.—*Wakefield, Stanley Grange* (IX).—Strong gales with heavy R.

11th.—*Kensington Edith Road* (I). Violent S.W. gale at night.—*Sudbury, Friars Street* (IV). Heavy gale at night.—*Clive Vicarage* (VI). One of the strongest gales for many years, at its worst from 9 to 11 p.m. About 40 ft. of the spire of St. Mary's, Shrewsbury, was blown down.—*Bedworth Cemetery* (VI). Violent storm in the night, uprooting trees and unroofing buildings.—*Ketton Hall* (VII). Very heavy gale at night when some of the framework and 20 large squares of glass were lifted from a glass structure.—*Nottingham, Beeston Fields* (VII). Strong W. gale.—*Hurdlestown* (XX). Severe S.W. to N.W. gale all day.—*Miltown Malbay* (XX). W. to N.W. gale with H, T and L.—*Galway, Queen's College* (XXII). T, L, H, R and S.

11th and 12th.—*Handsworth, Soho Road* (VI). Very heavy S.W. gale, causing much damage.—*Findern* (VII). Violent S.W. gale, many trees blown down.—*Colmonell, Clachanton* (XIV). S and H, with L on 12th.

12th.—*Ashburton, Druid* (V). S and H; the moors white on 13th.—*Chelford, Astle Hall* (VIII). Violent storm from W. with L and sleet.—*Southport, Hesketh Park* (VIII). Heavy and destructive W.

gale and H.—*Ulpha Vicarage* (X). H and S storms with some T.—*Keswick, The Beeches* (X). Heavy S during the day. T and L between 5.30 p.m. and 6.30 p.m. Hurricane at night.—*New Galloway, Glenlee* (XII). S and H showers and L.

13th.—*Seathwaite Vicarage* (VIII). T and L at night, followed by sharp frost.

17th.—*Hemingby* (VII). Sleet or S all day. —*Nun Monkton* (IX). Heavy fall of S.—*Knaresborough, Farnham* (IX). Heavy S, depth about 9 inches.—*Melrose, Abbey Gate* (XII). S 2 inches deep.

17th and 18th.—*Nun Monkton* (IX). Great flood on the Ouse.

21st.—*Drumnadrochit* (XVIII). L and aurora.

23rd.—*Southport, Hesketh Park* (VIII). Brilliant aurora from 8.30 p.m. and far into the night.—*Drumnadrochit* (XVIII). Brilliant aurora.

24th.—*New Galloway, Glenlee* (XII). Heavy S and R, and T at 8 a.m.—*Edinburgh, Blacket Place* (XIII). S in morning, TS at 8 a.m.

24th—27th.—*Nun Monkton* (IX). The Ouse in flood.

25th.—*New Galloway, Glenlee* (XII). L at 10.30 p.m.—*Edinburgh, Blacket Place* (XIII). Slight TS at 3.30 p.m., L at 8.5 p.m.—*Colmonell, Clachanton* (XIV). L.—*Balquhiddier, Stronvar* (XVI). Heavy sleet showers, T and L from 8.30 p.m. to 9 p.m.

27th.—*Balquhiddier, Stronvar* (XVI). S showers, T and L from 10.30 a.m. to 11 a.m.—*Coupar Angus Station* (XVI). TS.—*Broadford, Hurdlestown* (XX). T, L and H at night.

28th.*—*Birchington, Thor* (II). Bright aurora from 7 p.m. to 10 p.m.—*Maidenhead, Hedsor* (III). S, bright aurora at night.—*Sudbury, Friars Street* (IV). Brilliant aurora from 7 p.m. to 9 p.m.—*Ross, The Graig* (VI). Brilliant aurora from 7.30 p.m. to 9 p.m.—*Meltham, Harewood Lodge* (IX). Very fine aurora covering more than half the sky.—*Edinburgh, Blacket Place* (XIII). Very fine aurora.—*Drumnadrochit* (XVIII). Aurora.—*Miltown Malbay* (XX). T and L.

MARCH.

4th.—*Norwich, Cantley* (IV). TSS and H.

5th.—*Mullingar, Belvedere* (XXI). S.

10th. — *Glasgow, Queen's Park* (XIV). T and H. — *Mullingar, Belvedere* (XXI). S and H.

11th.—*Southport, Hesketh Park* (VIII). S.W. gale and heavy H.—

* See also *Met. Mag.*, March, 1894, p. 21, and April, 1894, p. 40.

Seathwaite Vicarage (VIII). T, L and H.—*Ulpha Vicarage* (X). TS.—*Edinburgh, Blacket Place* (XIII). Heavy S squalls and T from 2.25 to 3 p.m.—*Hurdlestown* (XX). T and L at 8.50 p.m.—*Miltown Malbay* (XX). L.

11th to 13th.—*Melrose, Abbey Gate* (XII). S daily.

12th.—*East Layton* (IX). Heavy fall of S.—*Drumnadrochit* (XVIII). T between 5 a.m. and 6 a.m.

13th.—*Southport, Hesketh Park* (VIII). Heavy H.—*Douglas, Victoria Road* (XI). Hills covered with S.

14th.—*Southport, Hesketh Park* (VIII). Fine solar halo and parhelia.

14th—30th.—*Borden Wood* (II). Drought.—*Salt Vicarage* (VI). Absolute drought for 16 days.

15th—29th.—*Watergate* (II). Absolute drought for 15 days.

15th—30th.—*Douglas, Villa Franca* (XX). Absolute drought for 16 days.

15th—31st.—*Maidenhead, Hedsor* (III). Absolute drought. —*Pawston [Coldstream]* (X). Absolute drought, but .01 in. was deposited by heavy fog on 27th.

15th—April 2nd.—*Brampton, Denton House* (X). Absolute drought for 18 days.

15th—April 11th.—*Sudbury, Friars Street* (IV). Absolute drought for 26 days.

15th—April 13th.—*Watergate* (II). Partial drought, 30 days, with .24 in. of R.

15th—April 14th.—*Lewes, Bedford Lodge* (II). Absolute drought for 29 days.

15th—April 16th.—*Colchester, Lexden* (IV). Partial drought for 33 days with .24 in. of R.

16th—29th.—*Templecombe, Stowell Rectory* (V). Absolute drought. —*Hawkshead, Esthwaite Lodge* (VIII). Absolute drought.

16th—31st.—*Bury St. Edmunds, Orchard Street* (IV). Absolute drought.

16th—April 14th.—*Hawkedon Rectory* (IV). R .13 in. in the 30 days.

17th—31st.—*Hawkedon Rectory* (IV). Absolute drought for 15 days.

18th—April 13th.—*Throcking Rectory* (III). Drought for 27 days.

23rd—April 10th.—*Tenterden* (II). Absolute drought.

24th and 25th.—*Ben Nevis* (XVIII). Aurora.

30th.—*Southport, Hesketh Park* (VIII). Magnificent aurora, at times covering at least 80 per cent. of the entire sky.—*Wakefield, Stanley Grange* (IX). Fine display of aurora.—*Ingleby Greenhow Vicarage* (IX).

Brilliant display of aurora at 10.30 p.m.—*Pawston [Coldstream]* (X). Brilliant display of aurora.—*Edinburgh, Blacket Place* (XIII). Relative humidity at 3 p.m., only 32.—*Drumnadrochit* (XVIII). Aurora.—*Killorney* (XX). Aurora.—*Miltown Malbay* (XX). Aurora.

30th and 31st.—*Keswick, The Beeches* (X). Brilliant aurora and heavy T on the latter date.—*Douglas, Victoria Road* (XI). Brilliant aurora.—*Melrose, Abbey Gate* (XII). Aurora.—*Ben Nevis* (XVIII). Aurora.

31st.—*Slough, Sefton Park* (III). Sharp R, 0.52 in., between 2 and 4 p.m.—*Galway, Queen's College* (XXII). Aurora.

APRIL.

1st.—*Finchley, Etchingam Park* (I). Absolute drought of 17 days ended.

2nd.—*Kensington, Edith Road* (I). TS about noon.—*Portsmouth Road* (I). TS.—*Thixendale* (IX). TS.—*Barnard Castle, Whorlton* (X). T and L.

2nd and 3rd.—*Keswick, The Beeches* (X). T and L.

3rd.—*Southport, Hesketh Park* (VIII). TS in evening.—*Seathwaite Vic.* (VIII). T and L.—*Llandoverly* (XI). T and H.—*New Galloway, Glenlee* (XII). T, L and heavy R.—*Hurdlestown* (XX). T and L.

4th.—*Tavistock, Rose Villa* (V). Absolute drought for 21 days ended.—*Tipperary, Henry Street* (XX). T and L.

5th.—*Ulpha Vic.* (X). A period of 21 rainless days ended.—*Galway, Queen's College* (XXII). Great TS from 4 p.m. to 7 p.m.

7th.—*Cork, Clarence Place* (XX). T and L.

11th.—*Cheltenham, Southam Villa* (VI). TS, with .45 in. of R in 15 minutes.—*Ross, The Graig* (VI). Heavy TS from 4 to 5 p.m.—*Burton, Hoar Cross* (VI). Very heavy T.—*Bedworth Cemetery* (VI). T and H.—*Handsworth, Soho Road* (VI). Heavy TS.—*Monmouth, The Hendre* (XI). Severe TS and H in afternoon.—*Llandoverly* (XI). T and L.—*Rhiwbryfdir* (XI). Great TS.—*Corwen, Rhug* (XI). Heavy TS.—*Douglas, Victoria Road* (XI). One of the worst TSS experienced here.—*New Galloway, Glenlee* (XII). T.—*Colmonell, Clachanton* (XIV). T and L.—*Stronvar* (XVI). T and L at 6 p.m.

11th and 12th.—*Southport, Hesketh Park* (VIII). TSS in evening.

14th.—*Lewes, Saxonbury* (II). R fell after drought for 30 days.

15th.—*Seathwaite Vic.* (VIII). T and L in evening.—*Nenagh, Castle Lough* (XX). T, L and H.

15th—29th.—*Chiddingfold* (II). Absolute drought.

17th.—*Caistor, Cabourne* (VII). Severe TS with H.—*Chelford, Astle Hall* (VIII). TS in evening.

18th.—*Cheltenham, Southam Villa* (VI). TS with heavy H, and R .82 in. fell in one hour.—*Thixendale* (IX). TS.

20th.—*Fordingbridge, Wood Green* (II). In a few minutes .20 in. of R fell with T.

22nd.—*Miltown Malbay* (XX). T and L.

23rd.—*Hurdlestown* (XX). T and L.

23rd and 24th.—*Cork, Clarence Place* (XX). Great storm causing destruction of coasting vessels and fishing boats.

24th.—*Southport, Hesketh Park* (VIII). Well formed whirlwind at 2 p.m. and slight H.—*Keswick, The Beeches* (X). TS in afternoon.—*Solva, Harbour House* (XI). About 7.15 p.m. a very heavy shower of H fell ; it lasted for about 8 minutes and at the end very large H came down for about half-a-minute, the stones being the size and shape of pigeons' eggs, measuring $1\frac{1}{4}$ inch long and 1 inch in diameter ; 3 of them weighed over an ounce. The shower was quite local, not more than a mile wide and travelled S.W. to N.E. from Solva to Croesgoch, 5 miles. In its course some scores of panes of glass were broken. It had been blowing hard all day, and the H was driven with much force.—*Douglas, Victoria Road* (XI). Violent gale from S.E. with H, sleet, and L, causing great destruction to fruit blossom, &c.—*Melrose, Abbey Gate* (XII). T.—*Stronvar* (XVI). T and H in afternoon.

24th—30th.—*Hedsor* (III). Wet, frequent T showers.

25th.—*Cheltenham, Southam Villa* (VI). TS with heavy R.—*Southport, Hesketh Park* (VIII). T and H.—*Thixendale* (IX). TS.—*Stronvar* (XVI). T and L at 2 p.m.

25th—26th.—*Woodbridge, The Cedars* (IV). Heavy TSS and large H stones.

26th.—*Hemingby* (VII). T and H.—*Knaresborough, Farnham* (IX). T, L and H.

27th.—*Oxford, St. Giles* (III). Very heavy H and R and one vivid flash of L and clap of T.—*Sudbury, Friars Street* (IV). T and L.—*Ipswich, Bishop's Hill* (IV). TS with heavy R.—*Rendlesham Hall* (IV). TS at 3.30 p.m.—*Chelford, Astle Hall* (VIII). TS in evening with heavy R.—*East Layton* (IX). Heavy TS, H stones lay thick on the ground.—*Keswick, The Beeches* (X). TSS in evening.—*Invershin* (XIX). T.

28th.—*Erith, Crossness* (II). TS.—*Ditchling* (II). TS from 10.30 a.m. to 0.30 p.m. with H and heavy R.—*Emsworth, Redlands* (II). L and T, 1 p.m. to 1.30 p.m.—*Diss* (IV). TS at noon.—*Tavistock, Rose Villa* (V). TS from 3.30 p.m. to 4.24 p.m.—*Clifton, Pembroke Road* (VI). TS.—*Llandovery* (XI). T and L.

MAY.

4th.—*Baldersby* (IX). S.—*Whorlton* (X). S.

7th.—*Ulpha Vicarage* (X). H and T.—*Edinburgh, Blacket Place* (XIII). Aurora.

10th.—*Bury St. Edmunds, Orchard Street* (IV). TS.—*Diss* (IV). S.S.W. gale and TS.

14th.—*Ashburton, Druid House* (V). L in night.—*Lilliesleaf, Riddell* (XII). Without stopping, 2.02 in. of R fell.

14th and 15th.—*Hurdlestown* (XX). T.

15th.—*Miltown Malbay* (XX). T and L and heavy R.

17th.—*Tavistock, Rose Villa* (V). T.—*Ulpha Vicarage* (X). T,

18th.—*Killarney, Woodlawn* (XX). T.

18th—21st.—*Dalnaspidal, H.R.S.* (XVI). S daily.

19th.—*Melrose, Abbey Gate* (XII). S.—*Stronvar* (XVI). S.

19th and 20th.—*Horncastle, Hemingby* (VII). S.—*Lilliesleaf, Riddell* (XII). S.—*Watten, H.R.S.* (XIX). S and H, and frost at night.

20th.*—*St. Albans, The Grange* (III). Slight S.—*Burton, Hoar Cross* (VI). S.—*Handsworth, Soho Road* (VI). Severe frost.—*Cabourne* (VII). Very sharp frost.—*Knaresborough, Farnham* (IX). Great damage to vegetation by H, S and frost.—*Thixendale* (IX). S.—*Baldersby* (IX). S.—*Richmond* (IX). S yielding .05 in.—*Haltwhistle, Unthank Hall* (X). Sleet showers and frost at night, all vegetation greatly damaged.—*Melmerby* (X). S and H.—*Abergwessyn* (XI). Sharp frost and S.—*Edinburgh, Blacket Place* (XIII). S and H, the hills white.

20th and 21st*.—*Newport* (IV). Sharp frost.—*Ulpha Vicarage* (X). S.—*Corwen, Rhug Gardens* (XI). S, and frost at night.—*Hurdlestown* (XX). S.

20th—22nd.*—*Blisworth* (III). Very disastrous frosts.—*Brampton, Denton House* (X). Hard frost, doing much damage to vegetation. A heavy shower of S fell on the 21st at 3 p.m. and the distant hills were white for three days.—*Rhiwbryfdir* (XI). S.

* See also *Met. Mag.*, June, 1894, p. 65.

21st.*—*Kensworth [Dunstable]* (III). S and sleet.—*Mildenhall* (V.) Laurels, strawberries, potatoes, &c., cut by frost.—*Ashburton, Druid House* (V). S; moors white.—*Cheltenham, Southam Villa* (VI). Sharp frost, potatoes killed.—*Nottingham, Beeston Fields* (VII). Sharp frost, vegetation much cut.—*Darley Dale* (VII). Ten inches of S fell.—*Chelford, Astle Hall* (VIII). Sharp frost, cutting down potatoes and injuring shoots of oak, acacia, rhododendron, azalea, spruce fir, &c.—*East Layton* (IX). Heavy S showers; the hills white.—*Buttermere, Hassness* (X). S and frost.—*Keswick, The Beeches* (X). S.—*Uldale Rectory* (X). S fell heavily, followed by frost on this and succeeding nights.—*Llandovery* (XI). Frost, fatal to potatoes.—*Douglas, Victoria Road* (XI). Frost; S on the hills.—*Killarney, Woodlawn* (XX). S on the mountains.

21st--22nd.*—*St. Albans, The Grange* (III). Sharp ground frost, damaging vegetation.—*Weston Park* (VI). Much damage from frosts.—*Bedworth Cemetery* (VI). Destructive frost.—*Knaresborough, Conyngham Hall* (IX). Sharp frost.—*Thixendale* (IX). Sharp frost, much damage to fruit.—*Llanvihangel Court* (IX). Sharp frost, greatly damaging vegetation.—*Castle Malgwyn* (XI). Severe frosts.—*Cork, Clarence Place* (XX). Frost on grass, and the lowest temp. in shade in May for at least 12 years.

22nd.—*Tavistock, Rose Villa* (V). T, soft H and S.

22nd and 23rd.—*Coolkelure* (XX). Sharp frosts, doing much damage to vegetation.

25th.—*Worcester, Diglis Lock* (VI). TSS.

25th and 26th.—*Rendlesham Hall* (VI). T.

25th--27th.—*Dalnaspidal, H.R.S.* (XVI). S daily.

26th.—*Little Saxham Rect.* (IV). Heavy H storm.—*Bury St. Edmunds, Orchard Street* (IV). TS.—*Tavistock, Rose Villa* (V). T.—A man killed by L under a tree at *Bridgewater*, a chapel struck at *Malvern*, also the churches of *Shurdington*, near *Cheltenham*, *St. John* at *Bromsgrove*, and a house near *Chester*. Many trees uprooted near *Tenbury*, and at *Ledwyche* a rick of clover was twisted round.—*Bodenhams* (VI). Two dense thunder clouds were seen approaching with their separate storms at about 1.30 p.m., the one from the north-west the other from the north-east. These appeared to meet in the centre of this village, which is in one of the Lugg valleys, eight miles north of Hereford. Within a radius of about 300 yards there was so

* See also *Met. Mag.*, June, 1894, p. 65.

violent a movement of the atmosphere in a circular direction that trees were cut off at the stem, huge branches off the elm trees were carried 50 yards or more, and tiling was lifted off the buildings. At the same time sheets of hailstones were hurled against the windows from all points of the compass. Beyond the radius of the storm vortex the weather was calm and bright, so that our friends three quarters of a mile off to the west, who witnessed us enveloped in an inky darkness, suffered nothing. A pond in the village is almost entirely choked with fallen timber, the trees having fallen against each other. Is it not a very unusual thing in this country for the area of a storm of wind of such violence to be so exceedingly limited in extent? I ought to add that some wind and a great deal of hail were experienced to the east of us, but not wind sufficient to break a branch off a tree.—*Ludlow, Ashford* (VI). A whirlwind passed over the eastern side of the parish, uprooting several large oak trees.

Mr. Richard P. Dansey, of Ludlow, writes as follows with reference to the recent cyclone in the Ludlow and Leominster Districts:—

“About 1 p.m. on Saturday, the 26th ult., a very heavy storm broke over the Clees (whose highest point rises to 1,805 ft. above the sea), accompanied by incessant thunder and lightning. In five minutes, or less, these hills were quite white and completely covered with snow down to about 1,000 ft. high, while the lightning all the time was most vivid and the thunder very loud. A few minutes afterwards a sort of secondary storm appeared to be forming in the north about a mile and a half away. One could see sheets of hail sweeping out of the dark clouds, while clouds of dust were swept across the fields, which evidently indicated a tremendous wind, as indeed proved to be the case. The path of the cyclone, for such indeed it was, seemed about 300 yards wide, and it advanced towards us with tremendous rapidity, and even as it came we could trace its passage by the trees and branches which could be seen falling in the distance as the cyclone approached. Suddenly it reached us, together with a downpour of huge hailstones and lumps of ice. The centre or vortex of the whirlwind seemed to pass directly over our house, and swept everything before it. We saw three trees fall in the garden—including a magnificent fir, 80 ft. in height—at the same moment and within 60 yards of each other, while others were bent double; a roof was lifted bodily off a French barn, and carried over fields and hedges a distance of 200 yards; big, heavy glass lights were blown off cucumber frames; a large garden bench was whirled through the air, and deposited upside down; hens were caught off their feet and sent literally flying through the air, and the air was filled with branches and *débris* to such a degree that, coupled with blinding snow, which had succeeded the hail, and was whistling round and round, one could not see more than 80 yards. The wind and storm had all passed in a very few minutes, the extreme height of the cyclone being limited to about 30 sec. In every field could be seen oaks or chestnuts or other trees prostrate, and in places, also, the snow still lay where it had drifted. The whirlwind seemed to go up into the air about

half-a-mile beyond us, coming down to the ground again about $1\frac{1}{2}$ mile to our south, where it again wrought enormous destruction, though outside its narrow path not a tree was touched. We all thought the gale of Sunday, February 11th, severe, even though it blew down only half-a-dozen trees in our vicinity, but it was merely a gentle breeze compared with the awful intensity of the cyclone experienced on the 26th, which must have uprooted hundreds of trees in its path, narrow though it was."

—From these and other records it appears that the storm originated in the *Clee Hills* in the South of Shropshire, and passed at least 20 miles in a narrow track almost precisely due S. to *Hereford*, beyond which city we are unable to trace it.—*Ketton Hall* (VII). T and H at 4 p.m.—*Eccleston* (VIII). Severe H storm.—*Melrose, Abbey Gate* (XII). T at noon.

26th—28th.—*Findern* (VII). TSS daily.

27th.—*Bedworth Cemetery* (VI). Severe frost, damaging ivy.—*Miltown Malbay* (XX). T, L and H.

28th.—*Diss* (IV). TS in afternoon.—*Burton Croft* (IX). T and L.—*Keswick, The Beeches* (X). S.

28th and 29th.—*Corwen, Rhug Gardens* (XI). TSS.

28th—30th.—*Norwich, Cantley* (IV). TSS daily.—*Burton, Hoar Cross* (VI). T and L.—*Chelford, Astle Hall* (VIII). T daily.

29th.—*Finchley, Etchingham Park* (I). L and T.—*Abinger Hall* (II). Severe H storm.—*Erith, Crossness* (II). TS.—*Oxford, Magdalen College* (III). Heavy T and R.—*Rendlesham Hall* (IV). T.—*Bolton, The Park* (VIII). T and L.—*Cerrig-y-druuidion* (XI). TS, with conical lumps of ice $\frac{1}{2}$ in. in diameter at base, 2 to 3.30 p.m.

29th and 30th.—*Portsmouth Road* (I). TSS.—*Oxford, St. Giles* (III). T and L.—*Cheltenham, Southam Villa* (VI). TSS.—*Ketton Hall* (VII). T.—*Ulpha Vicarage* (X). T.—*Llanvihangel Court* (XI). T.—*Ben Neris* (XVIII). St. Elmo's fire.

29th—31st.—*Birchington, Thor* (II). T, L and H daily.—*Banbury, Bloxham Grove* (III). T daily.—*Little Saxham Rectory* (IV). TSS.—*Bury St. Edmunds, Orchard Street* (IV). TSS.—*Colmonell, Clachanton* (XIV). T, H on 29th.

30th.—*Bedworth Cemetery* (VI). T.—*Findern* (VII). TS at 3 p.m., and remarkable H storm at 5 p.m., nearly 2 inches deep in half an hour.—*Southport, Hesketh Park* (VIII). TS and H.—*Burton Croft* (IX). T and L.—*Belfast, Springfield* (XXIII). T and heavy showers.—House struck in *Kingsland*, tree at *Bishop's Stortford*, factory chimney at *Lynn*, two houses in *Birmingham*, hotel at *Tadcaster*, two horses at *Bridlington*.

30th and 31st.—*Diss* (IV). Heavy TSS.—*Worcester, Diglis Lock* (VI). Heavy TSS.—*Douglas, Victoria Road* (XI). TSS with H, and S in places on 30th.—*New Galloway, Glenlee* (XII). T, L and H.

31st.—*Wallington* (II). TS.—*Stowell Rectory* (V). TS.—*Handsworth, Soho Road* (VI). TS.—*Thixendale* (IX). TS, a horse killed by L.—*Keswick, The Beeches* (X). T.—*Uldale Rectory* (X). T in afternoon.—*Allonby, Cumberland*. Sharp TS at 11 a.m., wall by the side of the road either struck or shaken down by L.—*Lilliesleaf, Riddell* (XII). TS.—*Melrose, Abbey Gate* (XII). T and L.—*Glasgow, Queen's Park* (XIV). T.—*Ballinluig* (XVI). Slight TS.

JUNE.

1st.—*Uldale Rect.* (X). T.—*New Galloway, Glenlee* (XII). T, L, H and R.—*Lilliesleaf, Riddell* (XII). TS from 4 to 6 p.m.—*Melrose, Abbey Gate* (XII). Severe TS at 4 p.m.—*Edinburgh, Blacket Place* (XIII). Slight TS at 4.30 p.m.—*Stronvar* (XVI). T at 5 p.m.—*Dalnaspidal* (XVI). T and L.—*Ballinluig* (XVI). T and L.

1st and 2nd.—*Invershin* (XIX). T.

3rd.—*Tavistock, Rose Villa* (V). L in evening.—*Penzance* (V). Terrific TS.—*Clifton, Pembroke Road* (VI). TS.—*West Bromwich* (VI). In 1 hr. 30 mins. '36 in of R fell.—*Llanvihangel Court* (XI). T.

4th.—*Portsmouth Road* (I). TS.—*Birchington, Thor* (II). T and L.—*Ditchling* (II). TS from 10.30 to 11.30 a.m.—*Oxford, Mag. Coll.* (III). Heavy T at 6.30 a.m.—*Oxford, St. Giles'* (III). T.—*Bloxham Grove* (III). Very heavy R, with T at 7 a.m.—*Bishops Cannings* (V). T.—*Ashburton, Druid House* (V). TS at 3 a.m.—*Tavistock, Rose Villa* (V). Heavy TS at 3 a.m.—*Further Barton* (VI). TS.—*Cheltenham, Southam Villa* (VI). TS at 6.30 a.m.—*Salt Vicarage* (VI). Heavy TS.—*Handsworth, Soho Road* (VI). Severe TS, with 1.10 in. of R.—*Ketton Hall* (VII). T.—*Melmerby* (X). Strong helm wind and R.—*Llandovery* (XI). T and L.—*Abergwessyn Vic.* (XI). T.—*Dalnaspidal* (XVI). Fog, R and S.—*Hurdlestown* (XX). T.

4th and 5th.—*Hedsor* (III). T and heavy R .73 in.—*Edinburgh Blacket Place* (XIII). Heavy R 1.21 in. in 16 hours.

8th.—*Rendlesham Hall* (IV). T and L.

9th.—*Hurdlestown* (XX). T at 3 p.m.

10th.—*Edinburgh, Blacket Place* (XIII). TS.

- 12th.—*Stronvar* (XVI). T at 4 p.m.
 18th.—*Ben Nevis* (XVIII). Brilliant St. Elmo's fire.
 20th.—*Diss* (IV). T in afternoon.
 20th and 21st.—*Dalnaspidal* (XVI). Frost.
 21st.—*Invershin* (XIX). Frost.
 21st to July 5th.—*Throcking Rectory* (III). Absolute drought for 15 days.
 21st to July 7th.—*Alton, Hill House* (II). Absolute drought.
 22nd—24th.—*Niton, St. Catharine's House* (II). Sea fog.
 30th.—*Southport, Hesketh Park* (VIII). Relative humidity, at 1 p.m. only 33.

JULY.

1st.—*Witheridge, Bradford Cottage* (V). Much T and L.—*Keswick, The Beeches* (X). Vivid L at night.—*Rhiwbryfdir* (XI). T.—*Douglas, Victoria Road* (XI). L at night.—*Belfast, Springfield* (XXIII). T at night.

2nd.—*Little Saxham Rectory* (IV). Thundering all day.—*Diss* (IV). At 1.30 p.m. a violent squall occurred with a TS and heavy H, destroying much glass and damaging crops. The H stones were singularly alike in form and size, 1 inch to 1½ inches across, double convex compressed at the poles, and each surrounded by a zone of transparent ice projecting slightly from the equatorial line. Nine of them weighed 320 grains.—*Rochdale, Fieldhead* (VIII). In 23 minutes, .33 in. of R fell.—*Knaresborough, Farnham* (IX). T, L and R, .45 in. fell between 4.45 p.m. and 5 p.m.—*Baldersby* (IX). TS at 5 p.m.—*Melrose, Abbey Gate* (XII). Severe TS at noon.—*Haddington Asylum* (XIII). During a TS in the evening, 2.20 in. of R fell between 6 p.m. and 9 p.m.—*Edinburgh, Blacket Place* (XIII). T.—*Ballinluig* (XVI). TS at 1.30 p.m.—*Dalnaspidal* (XVI). T and L.—*Drumnadrochit* (XVIII). T from noon to 3 p.m.—*Invershin* (XIX). T and heavy R, 1.05 in.

3rd.—*Taristock, Rose Villa* (V). Solar halos, morning and evening.

5th.—*Eskdale* (X). Violent TS from 5 p.m. to 8 p.m.

6th.—*Portsmouth Road* (I). TS.—*Finchley, Etchingham Park* (I). Much L, but not much T, between 5 p.m. and 10 p.m.—*Wallington* (II). TS.—*Tenterden* (II). A succession of TSS with 1.22 in. of R.—*Hythe* (II). TS.—*Erith, Crossness* (II). Severe TS about 5 p.m.—*Battle, Whatlington* (II). Severe TS from 9 p.m. till 2 a.m., with

1·67 in. of R. — *Keston Tower* (II). TS in afternoon. — *Sheppey, Leysdown* (II). Violent TS. — *Birchington, Thor* (II). T and L. — *Ditchling* (II). TS from 4 p.m. till 10 p.m. — *Emsworth, Redlands* (II.) Distant T and L. — *Harlow, Sheering* (IV). T and L. — *Rendlesham Hall* (IV). TS. — *Little Saxham Rectory* (IV). TS in evening. L very vivid and incessant. — *Bury St. Edmunds* (IV). Severe TS in night. — *Diss* (IV). A sudden gale and TS occurred at 10.20 p.m., with H and drenching R, filling cellars and flooding streets. The fall in 24 hours was 1·27 in., 1·15 in. of which fell in the first half hour. — *Hemingby* (VII). L. — *Southport, Hesketh Park* (VIII). TSS in afternoon and evening. — *Broughton-in-Furness* (VIII). TS. — *Ulpha Vicarage* (X). TS. — *Whitchaven, Irish Street* (X). During a TS, '85 in. of R fell in 15 minutes. — *Keswick, The Beeches* (X). Terrific TS with heavy H and R from 5 to 7 p.m. T incessant from 5 to 6.40 p.m. — *Melmerby* (X). Severe TS in afternoon. — *Uldale Rectory* (X). Heavy R with much T and L. — *Nunwick Hall* (X). In 2 hours 1·15 in. of R fell, with heavy T. — *Douglas, Victoria Road* (XI). T and L. — *New Galloway, Glenlee* (XII). Severe TS with 1·09 in. of R. — *Lilliesleaf, Riddell* (XII). TS from 7 p.m. to 11 p.m. — *Melrose, Abbey Gate* (XII). Severe TS from 8.30 p.m. till 10 p.m. — *Edinburgh, Blacket Place* (XIII). Severe TS from 7 p.m. to 9.30 p.m. — *Colmonell, Clachanton* (XIV). T and L. — *Glasgow, Queen's Park* (XIV). TS and 1·18 in. of R. — *Helensburgh, Dalglenan* (XV). Prolonged and severe TS. — *Inverary, Newtown* (XV). TS from 4 p.m. to 8 p.m. with 1·39 in. of R. — *Stronvar* (XVI). T and L from 5 p.m. to 9 p.m., and 2·53 in. of R in the 4 hours. — *Coupar Angus Station* (XVI). Severe TS. — *Dalnaspidal* (XVI). T and L.

6th and 7th. — *Sedgebrook* (III). T. — *Ballinluig* (XVI). T.

7th. — *Great Barrington* (VI). Heavy H storm. — *Knaresborough, Farnham* (IX). T and L. — *Llandovery* (XI). T. — *Forres* (XVII). T and L. — *Ben Nevis* (XVIII). St. Elmo's fire. — *Watten, H.R.S.* (XIX). T.

8th. — *Hedsor* (III). TSS.

9th. — *Camden Square* (I). TS and '20 in. of R in 9 minutes. — *Rendlesham Hall* (IV). T. — *Diss* (IV). TS in afternoon. — *Thixendale* (IX). Heavy T. — *Lilliesleaf, Riddell* (XII). TS at 5 p.m.

9th and 10th. — *Melrose, Abbey Gate* (XII). T, L and R.

10th. — *Wallington* (II). The heaviest R recorded in this district. 1·80 in. falling principally in the evening. — *Keston Tower* (II). Heavy R at night, 1·63 in., being the largest fall since December, 1886. — *Sheppey, Leysdown* (II). Heavy R in night, 1·29 in. in less than 12

hours.—*Arundel, The Parade* (II). In 24 hours 2·30 in. of R fell, being the heaviest fall since the record commenced in 1882.—*Ditchling* (II). Heavy R, 2·13 in. after 4.20 p.m.—*Ipswich, Bishop's Hill* (IV). Steady R at night, 1·05 in. falling in about 7 hours.—*Tenbury, Orleton* (VI). In 40 minutes ·73 in. of R fell.—*Nun Monkton* (IX). T and L.—*Guernsey, St. Martin's* (XI). Total R 2·06 in.—*Belfast, Springfield* (XXIII). Three quarters of an inch of R fell between 5.30 p.m. and 6 p.m.

11th.—*Little Saxham Rect.* (IV). TS.—*Handsworth, Soho Road* (VI). TSS.—*Witton Tower* (X). In 25 minutes ·68 in. of R fell, with some L.—*Lilliesleaf, Riddell* (XII), TS at 4 p.m.

11th and 12th.—*Diss* (IV). TSS.

11th—13th.—*Sedgebrook* (III). T.—*Ketton Hall* (VII). T.

12th.—*Bloxham Grove* (III). T.

13th.—*Findern* (VII). TS.—*Nun Monkton* (IX). T and L.

13th and 14th.—*Broxbourne, Stafford House* (III). T.

14th.—*Godalming, Charterhouse* (II). During a remarkable storm of very limited range from 0.50 p.m. to 1 p.m. ·45 in. of R fell.—*Shawford, Otterbourne W.W.* (II). Between 3 p.m. and 7 p.m. 1·49 in. of R fell, the bulk falling in 2 hours, from 3 p.m. to 5 p.m.—*St. Albans, The Grange* (III). TS, with ·25 in. of R from 2 p.m. to 2.30 p.m.—*Diss* (IV). T all afternoon.—*Handsworth* (VI). Heavy R, 1·18 in.—*Knaresborough, Farnham* (IX). T, L, and H.—*Baldersby* (IX). Severe TS with H at 4 p.m.

15th.—*Melrose, Abbey Gate* (XII). T.

18th.—*Baldersby* (IX). T and H at noon.

19th.—*Tavistock, Rose Villa* (V). Solar halo.

19th—21st.—*Drumnadrochit* (XVIII). T.

20th.—*Normanton-on-Wolds* (VII). In five minutes ·25 in. of R fell.—*Rochdale, Fieldhead* (VIII). In 3½ minutes ·09 in. of R fell.—*Thixendale* (IX). TS.—*Eskdale* (X). Heavy TS, R 1·19 in.—*New Galloway, Glenlee* (XII). T.—*Colmonell, Clachunton* (XIV). T and L.

20th and 21st.—*Edinburgh, Blacket Place* (XIII). TSS.

21st.—*Tavistock, Rose Villa* (V). Solar halo.—*Handsworth, Soho Road* (VI). TS.—*Tenbury, Orleton* (VI). In 30 minutes ·39 in. of R fell.—*Findern* (VII). TS.—*Seathwaite Vic.* (VIII). R 1·22 in. falling mostly in 2 hours.—*Knaresborough, Farnham* (IX). T and L.—*Brough, Brantinghamthorpe* (IX). Heavy TS.—*Rosset, Trevalyn Hall* (XI). More than an inch of R fell in 25 minutes.—*Stronvar* (XVI). T, L and R from noon to 2 p.m.—*Ballinluig* (XVI). Severe TS for

two hours from 1.45 p.m.—*Dalnaspidal* (XVI). T and L.—*Forres* (XVII). TS with heavy R between 4 p.m. and 5 p.m.—*Ben Nevis* (XVIII). St. Elmo's fire.

21st and 22nd.—*Watten H.R.S.* XIX). T.

22nd.—*Woodbridge, The Cedars* (IV). In a little over an hour .54 in. of R fell.—*Great Barrington* (VI). Very heavy R after 6 p.m., .90 in.

23rd.—*Norwich, Brundall* (IV). Between 7 a.m. and 8 a.m. .79 in. of R fell in a TS.—*Long Ashton* (V). R 2.89 in. exceeding that of any other day in 20 years.—*Cork, Clarence Place* (XX). L and T.—*Hurdlestown* (XX). T and L at 5.34 p.m.

24th.*—*Tenterden* (II). TS.—*Dedham* (IV). TS at night with 1.40 in. of R.—*Little Saxham Rectory* (IV). TS at night.—*Bury St. Edmunds* (IV). Severe TS, very vivid L and heavy R.—*Witheridge, Bradford Cottage* (V). Heavy TS.—*Ashburton, Druid House* (V). Heavy TS.—*Failand [Bristol]* (V). R began about 1 p.m., and, by 6 p.m., 1.65 in. had fallen, and an additional 1.00 in. was measured at 9 a.m. on 25th.—*Clifton, Royal York Crescent* (VI). In about 3 hours, 2.87 in. of R fell.—*Clifton, Pembroke Road* (VI). R began about noon and continued without intermission till after midnight; 2.62 in. falling in little more than 12 hours.—*Bristol, Fishponds* (VI). Between 1 p.m. on 24th and 3 a.m. on 25th, 2.01 of R fell.—*West Bromwich* (VI). In 1 hour, .30 in. of R fell; in 1 hour 15 min., .40 in.; and in 15 min., .12 in.—*Hundsworth, Soho Road* (VI). Heavy R, from 8 p.m. till midnight, 1.18 in. fell.—*Llanfrechfa Grange* (XI). R from noon to 4 a.m. on 25th, 2.44 in.—*Tredunnock* (XI). R 3.12 in., the heaviest fall recorded here.—*Dowlais, Gwernllwyn* (XI). The heaviest R for several years, 2.12 in. in 15½ hours; an E. wind was blowing at the time.—*Builth* (XI). In less than 12 hours, 2.36 in. of R fell.—*Corwen, Rhug* (XI). Heavy T and R.

24th and 25th.—*Birchington, Thor* (II). T and L.—*Melmerby* (X). Strong helm wind.—*New Galloway, Glenlee* (XII). T.

25th.—*Horncastle, Hemingby* (VII). Heavy R with T.—*Nottingham, Beeston Fields* (VII). TS at 4.30 p.m.—*Chelford, Astle Hall* (VIII). Severe TS.—*Southport, Hesketh Park* (VIII). TS in evening.—*Bolton, Hurst Bank, Heaton* (VIII). 0.50 in. of R between 6 and 6.25 p.m.—*Broughton-in-Furness* (VIII). T.—*Seathwaite Vicarage* (VIII). Heavy T shower, 1.33 in. falling mainly in one hour.—*Tickhill* (IX). R 2.05

* See also *Met. Mag.*, August, 1894, p. 97.

in. ; 1.82 in. fell between 5.45 p.m. and 6.15 p.m., doing great damage to roads and growing crops.—*Tickhill, Sandbeck Park* (IX). Very heavy TS and more than an inch of R fell in half an hour.—*Wath-on-Deerne, Chapel Street* (IX). Severe TS from 5.30 to 7.30 p.m., R 1.33 in.—*Meltham, Harewood Lodge* (IX). Severe TS from 4.30 p.m. to 7.30 p.m.—*Wakefield, Stanley Grange* (IX). The most severe TS for some years ; between 6.15 p.m. and 8 p.m., 1.04 in. of R fell, and between 6.32 p.m. and 6.42 p.m., .37 in.—*Eskdale* (X). Heavy TS.—*Ulpha Vicarage* (X). TS.—*Keswick, The Beeches* (X). TS from 7.10 p.m. to 8 p.m.—*Rhiwbryfdir* (XI). TS and heavy R, 1.36 in.—*Douglas, Victoria Road* (XI). T and L.—*Broadford, Hurdlestown* (XX). T L, and heavy R at 3.26 p.m.—*Miltown Malbay* (XX). T and L.—*Ardee, Lisrenny* (XXI). TS with heavy R, the fall lasting about 7 hours. The following are additional particulars :—*Huntingdon*, cattle killed by L ; two cottages were struck at *Chester*, a factory at *Burnley*, one house at *Blackburn*, one at *Bradford*, and several houses in *Sheffield*. Floods occurred at *Bacup*, *Sowerby Bridge*, *Todmorden* and *Drogheda*.

26th.—*Newbury, Welford Park* (II). Heavy R, .79 in. fell in 35 minutes.—*Nenagh, Castle Lough* (XX). TS.—*Killiney, Cloneevin* (XXI). TS from 0.30 a.m. to 3 a.m., L very vivid.

28th and 29th.—*Stowell Rectory* (V). TSS.

29th.*—*Barnes*. TS in afternoon, the Board School struck by L.—*Leatherhead, Oxshott* (II). TS with .60 in. of R in 20 minutes.—*Tenterden* (II). TS with .84 in. of R.—*Midhurst, Lynch Farm* (II). In 19 hours, 1.97 in. of R fell.—*Hollycombe* (II). Steady R without intermission, 2.64 in.—*Emsworth, Redlands* (II). R 4.30 a.m. to 1 p.m., 1.41 in. ; 4 p.m. to 10 p.m., .96 in. ; total 2.37 in.—*Wickham, West Lodge* (II). Between 4 a.m. and 9 a.m., 1.16 in. of R fell.—*Curdridge, The Hollies* (II). R commenced between 3 a.m. and 4 a.m., was very heavy at 4.30 a.m., and ceased before 3 a.m. on 30th. 1.02 in. was measured at 9 a.m. on 29th, and 1.05 in. on 30th.—*Liphook, Borden Wood* (II). Between 5.30 a.m. on 29th and 2 a.m. on 30th, 2.13 in. of R fell.—*Hedsor* (III). T.—*Culham Vicarage* (III). In 45 minutes, .85 in. of R fell.—*Oxford, St. Giles* (III). Between 0.55 p.m. and 1.40 p.m., fully .60 in. of R fell ; at 2 p.m. R began again with L and T.—*Banbury, Bloxham Grove* (III). T and heavy R.—*Norton-sub-Hamdon* (N. Somerset).

* See also *Met. Mag.*, August, 1894, p. 100.

Church struck by L about 4 a.m. and seriously damaged. There was no L conductor.—*Great Barrington* (VI). T and heavy R.—*Cheltenham, Southam Villa* (VI). T in afternoon.—*Ludlow, Ashford House* (VI). R 2.05 in. ; .84 in. fell between 3.10 p.m. and 4.40 p.m., and .96 in. between 5.30 p.m. and 7 p.m.—*Ludlow, Ashford* (VI). R began about 3 p.m., and by 7.45 p.m., 1.75 in. had fallen, and by 9 a.m. next morning, 2.20 in.—*Tenbury, Orleton* (VI). In 6 hours, 2.06 in. of R fell.—*Shirenewton Hall* (XI). R commenced at 5 a.m., and by 9 a.m. .45 in. had fallen, and by 6 p.m. 1.18 in. more.

AUGUST.

1st.—*Whittle-le-Woods* (VIII). Between 9 a.m. and noon, 1.43 in. of R fell.

2nd.—*Nottingham, Beeston Fields* (VII). Heavy T, L and R at 11.45 a.m., followed by several TSS during the day ; a house was struck and damaged.—*Rochdale, Fieldhead* (VIII). In $5\frac{1}{4}$ minutes .24 in. of R fell.—*Lilliesleaf, Riddell* (XII). The greatest R remembered, 2.17 in.—*Melrose, Abbey Gate* (XII). T and heavy R, 1.88 in. falling in 7 hours.—*Edinburgh* (XIII). Total R for 2nd = 1.25, which fell between 4 and 9.30 p.m. on 2nd, and 5 and 9 a.m. on 3rd. Several bridges were carried away in *Aberdeenshire*, the *Dee* at *Cults Bridge* rose 12 ft. above its ordinary level. The *Tain* overflowed and carried away a bridge. The *Clunie* was believed to be higher than for 15 years. Along the *Don* and *Ury* many fields were swept clean of all their crops ; also along the *Ythan* in *Buchan*. There were great floods on the *Avon* and *Conglass*, near *Tomintoul*.

5th.—*Abergwessin Vicarage* (XI). T at night.

6th.—*Birchington, Thor* (II). T and L in afternoon. Man and horse killed at *Thanington*, near *Canterbury*.

7th and 8th.—*Ballinluig* (XVI). T. There were severe TSS in *Perthshire* and *Aberdeenshire*, a haystack was ignited by L at *Murthly*, and 3 bullocks were killed in *Aberdeenshire*.

8th.—*West Bromwich* (VI). In 15 minutes .14 in. of R fell.—*Aberdeen, Cranford* (XVII). In 5 minutes .23 in. of R fell.

9th.—*Melrose, Abbey Gate* (XII). T, L and R in afternoon.—*Edinburgh, Blacket Place* (XIII). TS from 3 p.m. to 5 p.m.—A tremendous fall of R about 10 miles E. of *Carlisle*, near *Castlecarrock* ; the *Gelt* rose so rapidly that it took the wooden bridge at

Gelt mill, carried it over the parapet of the bridge at *Middle Gelt*, and deposited it in a field at *Ryeclose*, about 7 miles distant. It also carried away the stone bridge in *Gelt* woods at *Helbeck*, and so damaged a bridge on the Newcastle & Carlisle line that only one pair of rails could be used. The river rose so high that trout were left stranded in the fields, some of them 500 yards from the bed of the river. Just before reaching the *Irthing* the *Gelt* took a new course, and from 20 to 30 acres of meadow land were left covered with between 2 and 3 feet of sand. Eighty trees (large and small) were stranded in one field. Without pursuing the list of damage, which must include quite a dozen bridges (large and small), we may say that it resulted from excessive rains on the ridge separating Northumberland from Cumberland, especially the portion about 7 miles long reaching N.N.W. from *Gilderdale Forest* (3 miles W. of *Alston*) to *Cold Fell* (2,039 ft.). It was very local, for in many surrounding villages hay making went on all day. The event seems to have closely resembled that on *Bloody Bush Edge*, on July 2nd, 1893, which was fully described and illustrated in *British Rainfall*, 1893. The two localities are scarcely 40 miles apart. An observer in the neighbourhood says that he observed clouds coming from the direction of the Solway, and one after another they settled on the top of the Fells, until they accumulated like long drifts of snow. Soon after this he heard a great roaring noise, and floods of water came down every hollow; the little river *Gelt* rose, not by inches, but all at once, to a raging torrent, and swept trees and bridges before it.

9th and 10th.—*Ketton Hall* (VII). T, H and R.

10th.—*Finchley, Etchingham Park* (I). L and T in afternoon.—*Emsworth, Redlands* (II). T and L.—*Wallington* (II). TS.—*Ditchling* (II). TS after 3 p.m.—*Oxford, Magdalen College* (III). TS in evening.—*Bloxham Grove* (III). TSS.—*Manor Park, Albany Road* (IV). T and L.—*Rendlesham Hall* (IV). T, L and R in afternoon.—*Little Saxham Rectory* (IV). Heavy TS for about an hour.—*Alderton Rectory* (IV). Between 6.20 p.m. and 8.20 p.m. 2.00 in. of R fell.

A correspondent from Thelnetham, Suffolk, reports:—"As there can be little doubt that other accounts will be published of the very remarkable whirlwind or cyclonic effect, which seems to have had its origin and formed its centre at Garboldisham on Friday, it may be interesting to note what was observed of its phenomena and effects by many people as it passed over the Rectory grounds having traversed Blo' Norton from Garboldisham. On the east and west were two very dark thunderstorms reaching from the horizon

almost to the zenith. Between the two the cyclone or whirlwind was passing almost due south, the force of which, however, had very considerably abated, but a most extraordinary effect was produced by the atmosphere to a very great height being filled with stems of barley straw, leaves, &c., matted together, some of which were falling to the ground, whilst other of these mats of straw, as they appeared seemed to float at a very high altitude. The whirlwind at Garboldisham, at a distance of over three miles, had in one field twisted off the branches of a very large elm tree and at the same time whirled up into the air two or three loads, it is said, of barley from the harvest field, and no doubt it was some of this which was observed at Thelnetham. The altitude, at which the various straw stems, lightly matted together, was observed, of course could only be measured by probable calculation and comparison. They were far above the height to which any rocket could have penetrated. No fire balloon had ever been seen to go so high ; above the average height of the wild goose flight in the winter ; far more nearly would it be measured at the altitude at which the eagle is often seen soaring almost out of sight in mountainous regions, or vulture just visible over the desert. Comparing the altitude at which this very remarkable sight was observed and calculating from the appearance of summits of known height, or the bull's eye of a target at 1000 yards distant, the lowest estimate that can be put to the height at which these phenomena were observed would be from two to three thousand feet at least, and probably the real height was very much greater than this. What was observed may perhaps be of no very unusual occurrence in tropical countries, but nothing approaching it had ever been seen by the dwellers in these more temperate climes."

—*Diss* (IV). Heavy TS with H in the afternoon.—*Westbury* (Wiltshire). Two men killed by L.—*Lydney*. Two cottages struck by L at *Yarkley*.—*Ross, The Graig* (VI). TS with H at 2.45 p.m.—*West Bromwich* (VI). In 15 minutes .20 in. of R fell.—*Stamford*. TS in afternoon, an ash tree struck at *Ingthorpe*, and a stack at *Wilsthorpe*.—*Holbeach*. A horse and several fowls killed by L.—*Grantham, Stainby* (VII). TS.—*Newark, Averbham Rectory*.—TS with H ; 1.30 in. of R in 22 minutes.—*Chelford, Astle Hall* (VIII). Heavy TSS all round.

12th.—*Uldale Rectory* (X). Sea fog all day.

13th.—*Ballinluig* (XVI). R 1.14 in., and floods on the Tay and Tummel.—At *Kingussie* R began at 9 p.m. and heavy R to 4 a.m. 14th, great floods

14th.—*Crieff*. It poured all the night 13th—14th and 14th—15th, and the *Earn* is in flood. On the night of the 14th, the large grain stores of Messrs. J. and M. White, at *Partick*, were undermined, and 10,000 sacks of grain fell into the Kelvin.

15th.—*Diss* (IV). S.W. gale.—*Witheridge, Bradford Cottage* (V). Much T and L in morning and evening.—*Cheltenham, Southam Villa*

(VI). TS, .20 in. of R fell in 10 minutes.—*Ketton Hall* (VII). T and half a gale.—*Holbeach* (VII). Two men killed by L.—*Horncastle, Hemingby* (VII). T.—*Beverley, East Riding Asylum* (IX). In 20 minutes .25 in. of R fell; probably .20 in. in 7 minutes.—*Keswick, The Beeches* (X). Frequent T from 4 to 6 p.m.—*Uldale Rectory* (X). T at 3 p.m.—A TS passed over *Muirkirk (Ayrshire)*, and a waterspout burst on *Cairntable* hill, the river *Ayr* soon overflowed its banks and flooding ensued, one iron bridge was carried away.

16th.—*Manor Park, Albany Road* (IV). T and L.—*Rendlesham Hall* (IV). Heavy TS at 7 p.m.

17th.—*Lilliesleaf, Riddell* (XII). Heavy TS at 5 p.m.—*Melrose, Abbey Gate* (XII). Frost, T and R.

21st.—*Lilliesleaf, Riddell* (XII). TS from 3 p.m. to 7 p.m.—Heavy TS at *Fraserburgh (Aberdeenshire)* at 1 p.m., some shops flooded.

22nd—26th.—*Melrose, Abbey Gate* (XII). Frost daily.

23rd and 24th.—*St. Albans, The Grange* (III). R 2.19 in.

24th.—*Upper Gatton* (II). During a TS .38 in. of R fell in 10 minutes at 7 p.m.—*Birchington, Thor* (II). T and L.—*Ashburton, Druid House* (V). Heavy R and TS after 9 p.m.

24th and 25th.—*Tavistock, Rose Villa* (V). TSS.—*Wellington, Sunnyside* (V). T and L.—*Crewkerne, Bincombe House* (V). Very heavy TSS at night with vivid L, 1.80 in. of R fell in 4 hours.—*Stowell Rectory* (V). TSS.—*Llanvihangel Court* (XI). T and 2.05 in. of R in the two days. A boy was killed by L at *Milton Abbas (Dorset)*.

25th.—*Tenterden* (II). TS.—*Sheppey, Leysdown* (II). TS.—*Hitchin* (III). Between 7 a.m. and 10 a.m. 1.58 in. of R fell.—*Alderbury* (V). T and L at 6 a.m.—*Langton Herring* (V). Between 3.45 a.m. and 11.30 a.m. 2.51 in. of R fell.—*West Coker* (V). During a TS 2.61 in. of R fell, mostly in three or four hours at night, causing a heavy flood.—*South Petherton, Bridge* (V). R 2.32 in.; in 48 hours 3.49 in. fell, and the flood was high; the water rose 1½ inches in the Lodge higher than it has been before for 30 years.—*Wellington, The Avenue* (V). Two terrific TSS, one from about 5.30 a.m. to 7.30 a.m., the other from about 7.30 p.m. to 11 p.m., the L at night being frequent and vivid. About two inches of R fell between 6 a.m. on 25th and 6 a.m. on 26th.—*Clifton, Pembroke Road* (VI). TS between 9 and 10 p.m.—*Further Barton* (VI). TS at 9.30 p.m. with vivid L.—*Great Barrington* (VI). Heavy TS after 10 p.m.—*Hempsted* (VI). TS and heavy tropical R about 11 p.m.—*Ross, The Graig* (VI). Steady R with occasional T and L.—*Llanfrechfa Grange* (XI). T and L and

heavy R, 1·66 in.—*Monmouth, The Hendre* (XI). Heavy R during day (1·46 in.) and TS at night.—*Treherbert, Tynywaun* (XI). T, L and heavy R, 1·30 in.—*Llandovery* (XI). T and L at night. —*Builth* (XI). T and vivid L for 3 hours.—*Cork, Clarence Place* (XX). T and L and a tropical shower in the morning. The following are additional particulars:—*Beaminster*. TS and L; great flood at night. Serious floods also at *Axminster, Bridport, Closworth, Sutton Bingham, and East Coker*.—*Yeovil*. The footbridge near the station was swept away. The *Yeo* and the *Frome* both overflowed. A horse was killed by L at *Plymouth*; cattle at *Falmouth, Helston, Redruth and Honiton*; and a tree was struck at *Torquay*; the flagpost at *Berry Head* was split, and a house was struck at *Penttyrch*, near *Cardiff*. Floods in several parts of *Cornwall*.

26th.—*Diss* (IV). L and distant T in the afternoon.—*Tavistock, Rose Villa* (V). L at night.—*Handsworth, Soho Road* (VI). T, L and heavy R, ·76 in.—*Findern* (VII). Heavy R, ·57 in. fell in half an hour.—*Chelford, Astle Hall* (VIII). Sharp TS about 6.30, accompanied for 3 or 4 minutes by a deluge of R, ·25 in. falling in that time.

27th.—*Ashburton, Druid House* (V). TS in afternoon.—*Tavistock, Rose Villa* (V). Solar halo, 8.30 a.m. to 9 30 a.m., and T in afternoon.

SEPTEMBER.

2nd.—*Ashburton, Druid House* (V). L and T.

2nd—6th.—*Tavistock, Rose Villa* (V). L every day.

4th.—*Ashburton, Druid House* (V). L in evening.—*Ketton Hall* (VII). T and heavy R at 4 p.m.

4th and 5th.—*Cheltenham, Southam Villa* (VI). TSS.—*Treherbert, Tynywaun* (XI). T.

4th—6th.—*Blandford, Whatcombe* (V). T daily.

5th.—*Emsworth, Redlands* (II). T and L at 6 p.m.—*Datchworth Rectory* (III). T, H and R, the H 2 inches deep on the ground.—*Oxford, Mag. Coll.* (III). Very heavy TS in afternoon.—*Pitsford, Sedgbrook* (III). TS.—*Rendlesham Hall* (IV). T.—*Teukesbury* (VI). Heavy H storm, covering the ground to a depth of some inches.—*Ross, The Graig* (VI). L, T and H.—*Ketton Hall* (VII). T and heavy R at 6.30 p.m.—*Chelford, Astle Hall* (VIII). TS.—*Southport, Hesketh Park* (VIII). Slight TSS.—*Knaresborough, Farnham* (IX). T, L and H.—*Baldersby* (IX). T and H at noon.—*Thixendale* (IX). H.—

Burton Croft (IX). T, L and H.—What was very charitably called “an accident” occurred on this day at *Aldershot*. We should have thought that Franklin’s experiment in drawing lightning from a cloud by raising a kite was familiar to everybody, but somebody forgot it. A military balloon was sent up, held captive by a wire rope (an excellent lightning conductor), the rope was wound on a windlass with metal handles, the balloon was struck and the men turning the windlass were burned and otherwise seriously hurt.

5th and 6th.—*Bloxham Grove* (III). T.—*Further Barton* (VI). T.

6th.—*Ditchling* (II). TS from 2.20 p.m. to 3 p.m.—*Sheppey, Leysdown* (II). T.—*Abington Pigotts* (III). T and L; a tree was struck 180 yards distant from gauge. The same tree had been struck some years before.—*Stowell Rect.* (V). TS.—*Great Barrington* (VI). TSS.

6th—23rd.—*Carrickfergus, South Woodburn* (XXIII). Drought for 18 days.—*Carrickfergus, North Woodburn* (XXIII). Drought for 18 days.—*Lough Mourne* (XXIII). Absolute drought for 18 days.

6th—Oct. 2nd.—*Carrickfergus, Dorisland* (XXIII). Absolute drought for 27 days.

7th.—*Hedsor* (III). T.

7th—22nd.—*Ludlow, Ashford* (VI). No R.

8th.—*Eastbourne, Wilmington Square* (II). Between 2 a.m. and 9 a.m. 2.00 in. of R fell; at 7.30 a.m. .50 in. must have fallen in five minutes.—*Eastbourne, Gildredge Road* (II). R 2.03 in.; between 4 a.m. and 6.15 a.m. .87 in. fell, and between 7 a.m. and 7.50 a.m. .90 in.

8th—22nd.—*Edenhall Vic.* (X). Absolute drought for 15 days.

8th—October 12th.—*Edenhall Vic.* (X). Partial drought for 35 days, with only .21 in. of R.

23rd.—*Hedsor* (III). T.—*High Wycomb* (III). Excessive R during a TS, 2.75 in. fell between 4.15 p.m. and 5.45 p.m.—*Ashley Rectory* (V). Between 2.30 p.m. and 2.40 p.m. .25 in. of R fell.—*Bolton, Heaton* (VIII). Absolute drought for 15 days commenced.

24th.—In the early morning a very violent TS with excessive R extended from near *Billericay* to near *Witham* in *Central Essex*. At *Wickford*, the storm began about 8 and ended about 9.30 a.m., there was quite one foot of water on the roads, but no houses were flooded. At *Danbury*, the storm was violent beyond precedent, the roads being steep the rush of water cut them up very much and carried soil and gravel from one part of the parish to another; several houses were flooded and the lower roads were impassable for

several hours. At *Woodham Ferris* station the water was 1 ft. 7 in. deep over the level crossing and the traffic had to be stopped. At the *Whalebone Inn*, between 6.40 a.m. and 8.30 a.m., the water in the tap room rose 7 feet ; in some houses the water was 6 feet deep, one side of a cottage was swept away, and the door of the post office burst in. At *Heybridge* near *Maldon* the workmen had to go to the foundry in boats. *Langford Rectory* had 2 feet of water in the sitting rooms and became uninhabitable. At *Great Totham* the roads were much damaged and the church and several houses were flooded.—*Clifton, Pembroke Road* (VI). In about 7 hours 1.33 in. of R fell.—*Rotherby Hall* (VII). A partial drought ended on this day, which commenced on August 26th, only .22 in. of R having fallen in that time.

25th.—*Bristol, Fishponds* (VI). Between 0.15 a.m. and 8 a.m. 1.27 in. of R fell.

26th.—*Carrickfergus, Copeland* (XXIII). In a local H shower .15 in. fell.

27th.—*Norwich, Cantley* (IV). T, S and H.

28th—30th.—*Castle Malgwyn* (XI). Frost daily.

OCTOBER.

6th.—*Keswick, The Beeches* (X). Absolute drought commencing on September 19th, ended.

8th.—*Bolton, Hurst Bank* (VIII). An absolute drought of 15 days, ended.

11th.—*Tavistock, Rose Villa* (V). L.

15th.—*Ballinluig* (XVI). S on Ben Vrackie.

18th.—*Melmerby* (X). S on the fells.

18th and 19th.—*Drumnadrochit* (XVIII). Sharp fall of S, which soon melted on low ground, but the hills retained a coat for a few days.

18th—November 18th.—*Wickwar Rectory* (VI). R 9.06 in.

19th.—*Sudbury, Friars Street* (IV). L.—*Ashburton, Druid House* (V). TS.—*Ulpha Vicarage* (X). S on the hills.—*Uldale Rectory* (X). First S on Skiddaw.

19th—November 17th.—*Alton, Hill House* (II). R daily, with the exception of November 6th.

20th.—TS at *Torquay* in the early morning, with very heavy rain, causing the water in the main sewer to rise 5 feet in about as many minutes, and one man working therein was drowned. *Cork, Clarence Place* (XX). First S, unusually early, and T, L and H.—*Fermoy, Gas Works* (XX). Stormy with T and L.—*Killarney, Woodlawn* (XX). Slight fall of S.

20th and 21st.—*Tavistock, Rose Villa* (V). TSS.

20th—24th.—*Crewkerne, Bincombe House* (V). Heavy TSS and gales.

20th—November 16th.—*Angmering* (II). In the 28 days 8·32 in. of R fell.—*Lewes, Bedford Lodge* (II). R every day.—*Wadhurst, Lower Cousley Wood* (II). R fell daily, with the exception of October 25th to the amount of 8·42 in.

20th—November 18th.—*Botley, Curdridge* (II). R was measured daily for 30 days to the amount of 8·39 in.

20th—November 20th.—*Alderbury* (V). R fell every day ; total 9·25 in.

21st.—*Sudbury, Friars Street* (IV). L.—*Ballinluig* (XVI). Ben Vrackie white with S.—*Miltown Malbay* (XX). S and sleet.

21st—November 21st.—*Fordingbridge, Oaklands* (II). The amount of R, 11·35 in., was very unusual, causing an unprecedented flood, the water standing in some houses for about 12 hours.

22nd—November 16th.—*Hall Court* (II). R fell daily excepting November 4th, the fall in the 25 days being 9·09 in.

23rd.—*St. Albans, The Grange* (III). Slight fall of S.—*Llanfrechfa Grange* (XI). L.—*Killiney, Cloneevin* (XXI). R 1·91 in., the greatest fall in ten years.—*Seaforde* (XXIII). The heaviest R recorded since observations commenced in 1868, 3·80 falling between 10.30 a.m. on 23rd and 10.30 a.m. on 24th.

23rd and 24th.—*Douglas, Victoria Road* (XI). Furious gales S.E. on 23rd, and S.W. on 24th ; R 1·85 in.

23rd—26th.—*Carrickfergus, Dorisland* (XXIII). R 3·58 in.

23rd—November 14th.—*Bourton-on-the-Water* (VI). In the 23 consecutive days 8·35 in. of R fell, causing serious floods.

23rd—November 15th.—*Southam* (VI). R fell on 23 days amounting to 6·95 in., causing very great and exceptional floods.

24th.*—*Watergate* (II). Between 9 a.m. and noon 1·25 in. of R fell.—*Emsworth, Redlands* (II). S.W. gale ; R from 9. a.m. to 11.50

* See also *Met. Mag.*, November, 1894, p. 155.

a.m., 1·24 in. L at 9 p.m.—*Hedsor* (III). Strong S.W. gale ; L at night.—*Diss* (IV). S.E. gale, and L in evening.—*Ashburton, Druid House* (V). L in evening.—*Tavistock, Rose Villa* (V). L.—*Cheltenham, Southam Villa* (VI). L.—*Llanfrechfa Grange* (XI). Terrific S.E. gale.—*Hurdlestown* (XX). Severe N.W. gale.

24th—30th.—*Kensington, Edith Road* (I). R 3·55 in.

24th—November 14th. —*Watergate* (II). In 22 days 10·89 in. of R fell, an average of ·49 in. per diem.

25th.—*Sudbury, Friars Street* (IV). L.—*Diss* (IV). S.W. gale.—*Tavistock, Rose Villa* (V). TS.—*Melrose, Abbey Gate* (XII). The Tweed in flood.

26th.*—*Dorking, West Street* (II). About 7.30 p.m. ·08 in. of R fell in two minutes.—*Bloxham Grove* (III). The heaviest gale since August 27th, 1892, with 1·10 in. of R.—*Newport, The Castle* (XI). Between 3.30 p.m. and 4.40 p.m. ·92 in of R fell.—*Llanfrechfa Grange* (XI). T, L and heavy R 1·01 in.

Stretton, Rutland.—A TORNADO.—A blast of wind of intense fury did great damage in the neighbourhood of Stretton and Stocken Hall, about 8 p.m. The area covered was about 100 yards wide, and the course taken was about two miles long. The direction of the squall, which was by no means straight, can easily be traced by the lopping of trees and other havoc. Starting apparently at the end of the village of Stretton, the gust proceeded in a north-easterly direction to Stocken Hall, the residence of Lady Francis Cecil, at the time of reaching which its fury seems to have been spent. A bullock hovel at Stretton, occupied by Mr. Wm. Hart and covered with corrugated iron, was entirely unroofed, and the greater part of the roofing and rafters was carried a distance of a mile, passing over trees at least 50 feet high, to Stretton Wood. One sheet of the iron, 7 feet long and 2 ft. 3 in. in breadth, was found at Stocken Hall, two miles away. A curious circumstance is the fact that this piece of iron must have travelled in one position, as the nails by which it was fastened to the roof were still in the holes and must have fallen out if the iron had overturned. There was no scratch on the iron, nor was it dented at all, which proves that it did not come in contact with any obstacle while it was being carried away with the wind. This sheet is being preserved by Lady Francis Cecil, and an inscription is being painted thereon, giving particulars of the remarkable occurrence. From the same hovel at Stretton a fence post, 7 feet high and about 9 in. square, was lifted from the ground and blown a distance of 100 yards. Straw stacks, trees, and everything which came in the way of the hurricane, were demolished. Fortunately there were no dwelling-houses in the course of the storm. In the fields and park adjoining Stocken Hall are many oak trees of great size and age ; and branches of these trees torn off by the gale, and (weighing in some instances nearly a ton) were carried

* See also *Met. Mag.*, November, 1894, p. 155.

away about 80 yards by the force of the wind. Happily, no one was hurt. The noise made by the storm was like the roar of an express train. Rain fell in torrents during the tempest, which lasted for about half-an-hour. A remnant of the hurricane seems to have reached Little Bytham, Mr. Pick's barn in that village being stripped of its tiles, and some planks being blown out of the Adamantine Clinker Works adjoining the Great Northern Railway. Clipsham, in a straight course from Stretton to Little Bytham, escaped altogether, and at Castle Bytham there is no trace of any storm of unusual severity.

[The inferences in the concluding portion of the above are probably erroneous. The damage at *Little Bytham* was probably independent, and therefore there was nothing noteworthy in the escape of *Clipsham* and *Castle Bytham*. The real track was, as correctly stated in the early part of the above, from *Stretton*, about N.E. or N.N.E., to *Stocken*, on the borders of *Rutland* and *Lincolnshire*.]

27th.—*Ashburton, Druid House* (V). TS from 8.30 a.m. to 1 p.m.—*Bedworth Cemetery* (VI). Loud T and vivid L in afternoon.

27th—28th.—*Turistock, Rose Villa* (V). TSS

29th.—*Sudbury, Friars Street* (IV). L.—*Ashburton, Druid House* (V). Heavy TS at 8.30 a.m.—*Chelford, Astle Hall* (VIII). Heavy TS about 4.30 p.m.—*Rochdale, Fieldhead* (VIII). In 3 minutes .09 in. of R fell.—*Bolton, The Park* (VIII). TS.—*Southport, Hesketh Park* (VIII). Heavy squalls, with slight H, L, and T at intervals in afternoon and evening.—*Meltham, Harewood Lodge* (IX). T and L 4.30 to 5 p.m.—*Knaresborough, Farnham* (IX). T and L.—*Baldersby* (IX). T and L at 4 p.m.—*East Layton* (IX). Heavy peals of T.—*New Galloway, Glenlee* (XII). L.—*Bullinluig* (XVI). L.—*Miltown Malbay* (XX). TS in early morning, with H as large as musket bullets.

30th.—*Hedder* (III). Heavy R, 1.30 in.—*Neath, Fairyland* (XI). R 2.25 in., the greatest fall recorded in 24 hours.

31st.—*Bullinluig* (XVI). Rivers Tay and Tummel in half flood.

NOVEMBER.

1st.—*Kensington, Edith Road* (I). Max. temp. 63°·6, the highest in November in 11 years.—*Ulpha Vicarage* (X). Heavy R, with slight intermission, 2.65 in.—*Keswick, The Beeches* (X). Heavy R commenced about mid-day on October 31st, and by 9 a.m. on November 2nd 3.42 in. had fallen.

3rd.—*Colmonell, Clachanton* (XIV). T and L.

4th.—*Dorking, West Street* (II). In about 45 minutes .25 in. of R fell.

4th—18th.—*Penzance* (V). R 8.54 in., causing disastrous floods.

5th—17th.—*Stanton St John's, Woodperry* (III). In 13 consecutive days 4.98 in. of R fell.

7th.—*Liskeurd, Wadeland Terrace* (V). Between 10 a.m. and 1 p.m. .70 in. of R fell.—*Douglas, Victoria Road* (XI). S.W. gale, with floods, the railway bridge being damaged by debris washed against it.

7th—14th.—*St. Albans, The Grange* (III). R 4.23 in. in 8 days.

7th—15th.—*Alton, Hill House* (II). In 9 days 4.88 in. of R fell, an average of .54 in. per diem.

10th.—*Bolton, The Park* (VIII). T, L and H.

10th.—12th.—*Treherbert, Tynywaun* (XI). Heavy R, with H and T.

10th—14th.—*St. Albans, The Grange* (III). R 3.52 in. in the 5 days.
—*Yatesbury* (V). In the 5 days 4.27 in. of R fell, causing the great November flood.

11th.—*Hassocks, Danny* (II). Between 7 p.m. and 7 a.m. on 12th, 2.24 in. of R fell.—*Osborne, Newbarn Cottage* (II). The largest fall recorded in 37 years, 2.13 in.—*Kingsbridge* (V). R 2.67 in.; the greatest fall in the last 10 years.—*Bere Ferrers* (V). The greatest R registered in 20 years, 2.30 in. falling between 3 p.m. on 11th and 9 a.m. on 12th.—*Liskeard* (V). Although only 1.92 in. of R fell in the rainfall day, 2.92 in. fell between 3 p.m. on 11th and 3 p.m. on 12th, being the largest fall in 24 hours recorded in 31 years.—*St. Ives* (V). Three inches of R are said to have fallen in two hours, but we have not the precise details.—*Seathwaite Vicarage* (VIII). L at night.—*Ulpha Vicarage* (X). T and L.

11th and 12th.—*Redruth, Trewirgie* (V). In 24 hours ending 2 p.m. on 12th., 2.69 in. of R fell.—*Clifton, Pembroke Road* (VI). Continuous R for 23 hours, 2.17 in.; 1.60 in. falling in 8 hours on the 12th.

11th—13th.—*Bloxworth Rectory* (V). In the 3 days 5.15 in. of R fell.—*Ashburton, Druid* (V). Torrents of R, 6.42 in. in the 3 days, causing floods on 12th and heavy floods on 14th.

11th—14th.—*Hitchin, Bancroft* (III). In 4 days 3.28 in. of R fell.—*Hitchin, High Down* (III). In 4 days 3.57 in. of R fell, which is the heaviest fall recorded here.—*Throcking Rectory* (III). The R in these 4 days 2.56 in., or about the average for the month, caused the roads to be flooded to an extent not equalled since 1879.—*Dorchester* (III). Heavy R causing great floods on the Thame and Thames.—*Culham Vicarage* (III). R began at 8 p.m. on 11th and continued, more or

less, to 8 p.m. on 12th, began again at 8 p.m. on 13th and fell till 4 p.m. on 14th, the total for the 4 days being 4·17 in.—*Amphill, Silsoe* (III). In 4 days 3·86 in. of R fell.—*Bishops Cannings* (V). Two heavy falls of R, 2·45 in. falling in less than 24 hours on the 11th and 12th, and 2·40 in. in less than 18 hours on the 13th and 14th.—*Crewkerne, Bincombe House* (V). S.E. to S.W. gales with heavy R, 4·92 in. in 3 days.—*Wellington, Sunnyside* (V). R 4·04 in.; the greatest in 4 days remembered.—*Yeovil, Gas Works* (V). In 4 days 4·64 in. of R fell.—*South Petherton* (V). R 3·91 in., causing a high flood.—*Sandford Orcas* (V). R 3·81 in.—*Cothelstone House* (V). R 4·03 in., the falls exceeding an inch on 11th, 12th and 13th.—*Frome, Mells* (V). R 4·11 in. causing the greatest flood for many years.

11th—15th.—*Biggleswade, Brook House* (III). R 3·79 in. in 5 days and 1·80 in. on 12th, each the largest amount recorded in any corresponding time.

12th.—*Kensington, Edith Road* (I). Very stormy at night; T and L between 5 p.m. and 6 p.m.—*Finchley, Etchingham Park* (I). Several vivid flashes of L, with T between 5.25 and 5.45 p.m.—*Abinger Hall* (II). Rather sharp TS.—*Dorking, West Street* (II). Severe TS in afternoon.—*Birchington, Thor* (II). TS at 5 p.m.—*Cookham Vicarage* (II). Thames in flood.—*New Barnet, Trent Park* (III). In about half-an-hour 27 in. of R fell.—*Broxbourne* (III). T and L.—*Hedsor* (III). Strong S. gale. TS at 2 p.m., wind veering to N.E.—*Sudbury, Friars Street* (IV). Very heavy R and H with T and vivid L.—*Little Saxham Rect.* (IV). T and L in evening.—*Diss* (IV). T and L and 1·26 in. of R.—*Taunton, Halse* (V). Between 10 a.m. and 2.45 p.m. 81 in. of R fell.—*Harptree Court* (V). Between 8 a.m. and noon 1·37 in. of R fell.—*Cheltenham* (VI). Heavy R and floods.

12th and 13th.—*Wyke Regis* (V). R 4·33 in.

12th—14th.—*Farringdon, The Elms* (II). In the three days 3·44 in. of R fell.—*Devizes, County Asylum* (V). On 12th 1·92 in. of R fell, and on 14th 1·12 in.—*Lee Moor* (V). R 4·15 in., causing immense damage.—*Witheridge, Bradford Cott.* (V). In 5 days 4 inches of R fell, causing floods.

12th—15th.—*Amersham, The Plantation* (III). In four days 3·55 in. of R fell.—*Waterstock* (III). In the 4 days 3·62 in. of R fell, 1·82 in. falling on 15th within 4½ hours.—*Cavendish* (IV). Very wet, 2·06 in. of R in the 4 days; a sharp TS on the 12th.—*Chalbury Rectory* (V). R 4·47 in. in the four days, the greatest fall remembered.

13th.—*Seathwaite Vic.* (VIII). Heavy R, 2·62 in, which was

almost tropical in the night, holes two feet deep being washed in the roads.—*Keswick, The Beeches* (X). Heavy R at night, and S on the mountains.—*Abergavenny, Dyne Ho.* (XI). S.W. gale and 2·18 in. of R, followed by a heavy flood on the Usk on 14th.—*Brecon* (XI). A strong gale at night, with 1·82 in. of R, after previous continuous R, brought the Usk and tributaries into flood, and submerged the lower part of the town.—*Edinburgh, Blacket Place* (XIII). Heavy squall at 8.45 p.m.—*Ballinluig* (XVI). Heavy R and squall at night.

13th and 14th.—*Birchington, Thor* (II). S.W. gale.—*Liskeard, Wadeland Terrace* (V). In 21 hours 2·57 in. of R fell.

14th.—*Kensington, Edith Road* (I). Heavy S.W. gale.—*Hedsor* (III). Strong S.W. gale and heavy R, 1·05 in.—*Chedington* (V). Within half-an-hour ·70 in. of R fell—*Axminster, Great Trill* (V). In 20 minutes ·76 in. of R fell.—*Lechlade* (VI). In 22 days, ending on this date, 8·30 in. of R fell.—*Ross, The Graig* (VI). In one hour ·30 in. of R fell.—*Southport, Hesketh Park* (VIII). Slight H, distant L, and fine lunar rainbow in evening.—*Llandovery* (XI). Flood 2 to 3 feet deep in the town.

15th.—*Keswick, The Beeches* (X). S on the mountains; H and sleet showers. TS at 8.30 p.m.—*Treherbert, Tynywaun* (XI). Heavy R with T and H.—*New Galloway, Glenlee* (XII). L.

15th—16th.—*Oxford, Mag. Coll.* (III). Great Western Railway stopped by floods near Oxford.—*Aberdare, Abernant* (XI). R 4·70 in.

16th.—*Keswick, The Beeches* (X). TS in early morning. H showers and S on the mountains.—*Edinburgh, Blacket Place* (XIII). A shower of R fell from a cloudless sky at 10.45 p.m.—*Killarney, Woodlawn* (XX). In 18 hours 2·16 in. of R fell.

17th.—*Slough, Upton* (III). The Thames valley flood culminated at 1·45 p.m. on this day. The water in this neighbourhood rose 13 inches above the flood of 1876 and 4 inches above the flood of 1852.

18th.—*Staines, Cherry Orchard* (I). The floods reached their highest point 2½ inches below the flood mark of 1821, which is the highest on record.—*East Molesey* (II). The great flood at its highest.—*Cookham Vicarage* (II). Flood at greatest height at 3 a.m.

20th.—*Alderbury* (V). R every day from October 20th to this date. Total fall 9·25 in.

20th—December 6th.—*Borden Wood* (II). Drought.

21st.—*Ballinluig* (XVI). Slight S on Ben Vracken.

23rd.—*Melrose, Abbey Gate* (XII). Fog-bow at 7 p.m., and aurora

at 8 p.m.—*Edinburgh, Blacket Place* (XIII). Aurora.—*Ballinluig* (XVI). Aurora.

23 and 24th.—*Drumnadrochit* (XVIII). Brilliant display of aurora.

23rd—December 15th.—*Stanton St. John's, Woodperry* (III). In 24 days 8·16 in. of R fell.

24th and 25th.—*Douglas, Victoria Road* (XI). Brilliant aurora.

26th.—*Cookham Vicarage* (II). Flood off the fields.

DECEMBER.

9th.—*Ketton, The Holmes* (VII). Mignonette, canariensis, lobelia, ivy-leaved, sweet scented, and scarlet geraniums in bloom.

13th.—*Hemingby* (VII). At midnight the ther. stood at 52°.

15th.—*Miltown Malbay* (XX). N.W. gale and L.

15th and 16th.—*Ballinluig* (XVI). S on the hills.

16th.—*Stronvar* (XVI). S 2 inches deep.

17th.—*Cleator Moor* (X). R 2·53 in., a very local fall.

18th.—*Sudbury, Friars Street* (IV). L at night.—*Uldale Rectory* (X). H and T at night.

18th and 19th.—*Stowell Rectory* (V).—TSS with H.

19th.—*Southport, Hesketh Park* (VIII). Heavy N.W. gale, L in morning.—*Llanvihangel Court* (XI). S.W. gale with T.

21st.—*Kensington, Edith Road* (I). Severe S.W. gale at night.—*Cockermouth, Hassness* (X). Great storm of wind and R., 2·35 in.—*Rose Castle* (X). Sudden fall and rise of bar. accompanied by hurricane of unparalleled force, doing great damage. The Castle (walls 9 feet in thickness) perceptibly rocked during the night.—*Inverary, Newtown* (XV). Great gale destroying thousands of trees.—*Killiney, Cloneevin* (XXI). Severe gale, S.W. veering to N.W.—*Antrim, The Manse* (XXIII). Violent gale and much damage to buildings, stacks and trees, believed to be the most severe gale since January, 1839.—*Limavady, Drenagh* (XXIII). A tremendous storm at night.—*Buncrana, Rockfort* (XXIII). Fearful gale at night and on following morning, from S.W. veering to N.W. ; immense damage to shipping on Lough Swilly.

21st and 22nd.—*Bedworth Cemetery* (VI). Terrific gale.—*Baldersby* (IX). Very strong S.W. to N.W. gale.—*Unthank Hall* (X). Very severe W. to S.W. gale ; extensive damage done to trees and roofs.—*Edenhall Vicarage* (X). Destructive gales.—*Irongray, Drum Park*

(XII). During the gale two inches of R fell in 8 hours.—*Edinburgh, Blacket Place* (XIII). Strong gale; bar. fell 1·6 in. in 18 hours and rose 1·5 in. in 12 hours, lowest reading 28·12 in. (cor. and red.) at 6 a.m. 22nd.—*Colmonell, Clachanton* (XIV). Exceptionally strong and destructive gale.—*Belfast, Springfield* (XXIII). Most severe gale, reaching hurricane force at 3.15 a.m. on 22nd; much damage all over the country.

22nd.—*Hedsor* (III). Violent W. gale.—*Belton [Yarmouth]* (IV). A gale and high tides flooded the marshes round the estuary of the Yare, doing much damage.—*Tavistock, Rose Villa* (V). Heavy W. gale.—*Ketton Hall* (VII). Heavy gale, damaging roofs and uprooting trees.—*Hodsock Priory* (VII). Gale which did much damage to trees, buildings and stacks. From 9 a.m. to 5 p.m. the average velocity of the wind was 60·5 miles per hour.—*Chelford, Astle Hall* (VIII). The most violent gale remembered, from W. and N.W., many trees blown down and great injury to buildings.—*Southport, Hesketh Park* (VIII). Terrific W. gale, force 11 at 9 a.m.—*Cartmel, Pit Farm* (VIII). The wildest hurricane for many years, and an abnormally high tide drowned several hundred sheep on the marshes by Duddon sands.—*Meltham, Harewood Lodge* (IX). Very severe gale lasting 12 hours from 2 a.m., salt deposited on the windows*.—*Ackworth, Nostell Priory* (IX). Fearful gale, doing much damage.—*Wakefield, Stanley Grange* (IX). Very violent gale, causing enormous damage to property.—*Market Weighton, Dalton Hall* (IX). Fearful storm, uprooting many trees and doing considerable damage to life and property.—*Pocklington, Warter* (IX). Very high wind and much damage to trees, stacks and buildings.—*Thixendale* (IX). Tremendous gale, making much havoc with roofs and trees.—*Brampton, Denton House* (X). Heavy storm of wind from S.W. and W., doing considerable damage.—*Douglas, Victoria Road* (XI). Terrific gale, causing greater damage than any noted during 20 years' observations. No mail boat to or from England.—*Garliestown, Galloway House* (XII). Great storm of wind, much damage to trees, houses and shipping.—*Jura Forest, Feolin Farm* (XV). An awful gale, the natives remember none so severe; began S. and finished N.W.—*Forest of Glen Tana* (XVII). Severe gale blowing down quantities of large trees.

28th.—*Eskdale Vicarage* (X). Heavy H storm at night.—*Keswick, The Beeches* (X). Heavy S and H at night.—*Colmonell, Clachanton*

* See also *Met. Mag.*, January, 1895, p. 178.

(XIV). S, H and L.—*Stronvar* (XVI). Two inches of S.—*Drumna-drochit* (XVIII). Gale and S storm.

28th and 29th.—*Crewkerne, Bincombe House* (V). Hard gales with H and S.—*Cheadle, Heath House* (VI). S.—*Unthank Hall* (X). Severe W. to N.W. gale.

29th.—*Handsworth, Soho Road* (VI). S yielding .10 in.—*Chelford, Astle Hall* (VIII). Strong N.W. gale with frequent S and H.—*Southport, Hesketh Park* (VIII). Very heavy W. gale with L in morning and severe H, S and sleet squalls at intervals all day.—*Thixendale* (IX). Gale with violent S storm.—*Abergwessin Vicarage* (XI). Blizzard of S and H.—*Douglas, Victoria Road* (XI). S, the hills well covered.—*New Galloway, Glenlee* (XII). S showers by day, T and L at night.—*Ballinluig* (XVI). $3\frac{1}{2}$ inches of S.

29th and 30th.—*Stowell Rectory* (V). S.—*Llandovery* (XI). S and H.—*Lawderdale* (XXII). S.

29th—31st.—*Hemingby* (VII). S squalls.

30th.—*Denver Rectory* (IV). The first S of the winter.—*Alderbury* (V). S on the ground.—*Tavistock, Rose Villa* (V). L in evening.—*Okehampton* (V). S yielding .25 in.—*The Clive Vicarage* (VI). S.—*Ballinluig* (XVI). $3\frac{3}{4}$ inches of S.—*Markree Observatory* (XXII). S yielding .22 in.

30th and 31st.—*Swaffham* (IV). S $5\frac{1}{2}$ inches deep at 9 a.m. on 31st and 11 inches deep at 9 a.m. on January 1st, 1895.—*Pocklington, Warter* (IX). Heavy S, much drifted.—*Hurdlestown* (XX). S showers, the hills white on 30th and the country white on 31st.

31st.—*Rendlesham Hall* (IV). S storms.—*Diss* (IV). Heavy S.—*Wetheridge, Bradford Cottage* (V). S an inch deep.—*Liskeard, Wadeland Terrace* (V). S, nearly 2 inches deep on the ground.—*Louth, Gospelgate* (VII). S 7.5 in. deep on the level.—*Thixendale* (IX). Very heavy S, roads blocked.

OBSERVERS' NOTES ON THE MONTHS.

JANUARY.

I. *Kensington, Edith Road.* Excepting one week of intense frost, mild and pleasant, and singularly free from fogs.—*Muswell Hill.* R .84 in., or 39 per cent., more than the average of 22 years, R or S falling on 24 days.—*Finchley, Etchingham Park.* Very wet, especially as regards the number of rainy days (25). The total fall is quite 40 per cent. above the average. S fell on the first 5 days.

II. *Abinger Hall.* Very cold in the early part, the remainder wet and cold.—*Wallington.* Wet, warm, and unhealthy as a whole, but the first week cold. The greatest R in January since 1886 being .91 in. in excess of the average, which will tend to fill the underground reservoirs. S daily from 2nd to 6th.—*Hythe.* Unusually severe at the beginning, afterwards very wet and windy.—*Tunbridge Wells, Camden Park.* R 2.16 in. above the average of ten years and the greatest in January in that time; 25 rainy days.—*Keston Tower.* A spell of hard frost lasted till the 9th, from the 5th to the 8th being the coldest consecutive days on record; the temp. on the 7th fell to 8°, which is the lowest min. recorded here. The rest of the month was mostly mild and rainy.—*Birchington, Thor.* The month showed marked extremes; on the 5th the shade temp. fell to 14°, while after the first week the weather was very mild.—*Leysdown.* Unusually severe frost from the 2nd to the 8th, the remainder damp and stormy; S was never more than one-and-a-half inches deep, but there were drifts about 1 ft. deep in places.—*Lewes, Saxonbury.* Very wet and mild after the 8th; sharp frost from 3rd to 8th inclusive, the 5th and 7th giving the lowest readings recorded here.—*Ditchling.* Intense frost during the first part, the mean temp. of the 5 days, 3rd to 7th being 20°.5. The rest of the month was stormy and excessively wet.—*Bonchurch, The Lillies.* Wet, windy, and mild. Prevailing winds W.—*Emsworth, Redlands.* Very rough and unsettled—no two days alike—with sudden and extreme variations of temp. R 2.69 in. above the average of 11 years.—*Lymington, Pennington.* The wettest January for at least 7 years, with more than double the average

fall.—*Maidenhead, Castle Hill House*. The first week was very cold the remainder mild and rather wet ; wind mostly S.W.

III. *St. Albans, The Grange*. Rather warm, except for the first 9 days, which were very cold. R daily from 8th to 20th.—*Culham Vicarage*. Temp. very variable ; on the 5th, which was the coldest day, the thermometer fell to 8° in the afternoon ; it rose in the evening. There was a very small quantity of S on the 4th and 5th, only just covering the ground. R fell on many days, but in no great quantity.—*Bloxham Grove*. Frost set in on the 1st, and continued with more or less severity till the 9th, when it was succeeded by R which fell daily from the 9th to the 18th, mostly at night. High winds prevailed from the 26th to the end, with fine and clear weather.—*Sedgebrook*. More or less frost from the 1st to the 10th, and from the 3rd to the 7th, inclusive, the temp. did not rise above freezing point.

IV. *Sudbury, Friars Street*. Very cold at the commencement with S, but milder after the 9th.—*Ipswich, Bishops Hill*. The first week was very cold, with bitter N.E. and E. winds, the temp. in screen falling to 11° on the night of the 5th. R just the average.—*Diss*. The first week was very cold. S fell all day on the 5th, and at night in the garden, 5 feet above ground, the ther. fell to 1° above zero ; at Scole, 2 miles E., it fell to zero, and at Rushall, 6½ miles N.E., to 2° below zero. After the 9th there was much warm pleasant weather, with heavy gales on the 19th, 27th, and 29th, and distant T almost all day on the 23rd.—*Denver*. Very cold during the first week, then unusually warm, except on 24th. Spring flowers in bloom about 14 days earlier than usual.

V. *Warminster, Rye Hill*. Severe frost in the first week, then mild and dripping to the end.—*Bishops Cannings*. R ·10 in. less than, and rainy days 9 more than, the average. Very little water in the ditches and drains.—*Tavistock, Rose Villa*. Wet, stormy and variable, with temp. and pressure slightly below the mean. R or S fell on every day except the 23rd, but in measurable quantity on only 22 days.—*Stowell Rectory*. A month of average R and temp.

VI. *Further Barton*. The first week was intensely cold ; fog on 7th and 8th when a rapid change took place in the evening with R, and a mild windy time followed. A few morning frosts occurred towards the end of the month. Spring flowers abnormally early.—*Cheltenham, Naunton Park Villas*. Very windy, with penetrating cold during the first week.—*Ross, The Graig*. Very cold till the 8th.

especially the 5th and 6th. Total R slightly less than the average, but the number of rainy days (27) very large, R often falling at night. After the 8th, the wind was almost continuous from S.W., W. or S.—*Handsworth, Soho Road*. Very severe frost from 1st to 10th. R almost daily from 8th to 21st. S on 3 days.—*Bedworth Cemetery*. The sudden severe frost which set in on the 2nd, wrought sad havoc amongst trees and shrubs.

VII. *Ketton Hall*. Very changeable ; a good deal of S in the first 8 days, and very sharp frost on the night of the 5th. Milder and showery afterwards. Wind in a westerly direction on 19 days.—*Hodsock Priory*. The principal feature was the very sharp frost in the first week, which, however, lasted only a few days. The min. temp. was the lowest recorded since December, 1879. The rest of the month was mild and open, with rapidly changing barometer, strong S.W. winds, but little R.

VIII. *Bolton, The Park*. R .03 in. above the average. S on 9 days, the greatest depth being 2 inches on the 30th. Duration of sunshine about an hour below the average.—*Southport, Hesketh Park*. Hard frost from 2nd to 8th, subsequently mild and stormy. An average R, but almost the whole fell after the 14th. Greatest thickness of ice on the lake, 4 inches, on the 8th.—*Seathwaite Vicarage*. Very rainy and mild except during the first week, which was dry and marked by intense frost.

IX. *Harrogate, Bog Valley Gardens*. The intense cold of the 6th, 7th, and 8th, and the heavy R were the marked features of the month, the total fall being .94 in. above the average of 11 years. Duration of sunshine, 46 hours, being nearly 3 hours less than the average of 4 years ; 15 sunless days.—*East Layton Hall*. A spell of very severe weather commenced on the 2nd and lasted to the 7th ; otherwise it was a good winter month, favouring all outdoor operations.

X. *Whorlton*. Cold, with much S in the first week ; high wind in the latter half.—*Ulpha Vicarage*. Generally mild after the first 10 days and very little S. R fell every day from the 8th and the total is considerably above the average, though there were no heavy falls.—*Keswick, The Beeches*. Severe frost prevailed for the first week, the min. on the 6th and 7th being 13°. From the 8th to the 30th wet and stormy, especially from the 24th. Amount of bright sunshine, 45 hours. The R exceeded an inch on 4 days.

XI. *Llanfrechfa Grange*. Hard frost for the first 8 days, with cold

penetrating wind. Much milder afterwards. The rains being gentle and not heavy, were most valuable for the country, soaking in and supplying the springs, which were still very low at the close. —*Llanvihangel Court*. Very unsettled and changeable, and—except from 3rd to 9th and again on 23rd and 24th, when very cold intervals occurred—a mild month. On the 8th, the temp. did not rise above 16°. —*Douglas, Victoria Road*. Wet, stormy, but mild on the whole. R fell daily from the 4th to the 31st (except 14th), though no heavy fall occurred. S fell in small quantities on 6 days. Very strong winds, mostly westerly, prevailed almost daily, attaining the force of a gale on 9 days. Frost occurred on 8 days. Extremely mild from 9th to 18th, the average temp. being that of April.

XII. *Melrose, Abbey Gate*. Very cold at the beginning, two nights with temp. below zero; very stormy at the end, with frequent R and S. R 1·13 in. above the average.

XV. *Craigend Castle*. The first half was wet, with S and some frost, the second half stormy. T and L from 27th to 29th, and a hurricane on 27th.

XVI. *Coupar Angus*. R above, and temp. slightly below, the average. The 7th was the coldest day experienced, the temp. falling to 10° below zero, and being only 1°·0 at 1 p.m.

XVIII. *Glenaladale*. Very wet and changeable, the last ten days, very boisterous with frequent S and sleet.

XIX. *Scourie*. Slight S and keen frost prevailed during the first week; the remainder was very windy with showers of R and H. —*Watten, H.R.S.* Cold winds and keen frost prevailed during the first week, followed by a fortnight of fresh, open and often mild weather. The closing week was most variable, S, R, frosts, gales, and floods alternating in rapid succession.

XX. *Coolkelure*. Extraordinary prevalence of high winds and very squally, gales often arising very suddenly and disappearing in the same manner. —*Cork, Clarence Place*. Remarkable for extreme cold, unusual R and many great storms. The temp. on the morning of the 7th (11°) is the lowest observed in 15 years. The R was the greatest in January since 1879. Mean temp. 3°·5 below the average. —*Killarney, Woodlawn*. —Most wet and stormy with fresh depressions about every second day after the 7th. Destructive frosts in the first week. —*Nenagh, Castle Lough*. After the first week, R, sleet, S, and H seemed to alternate, together with windy weather. —*Waterville*. Very heavy gales throughout, accompanied at times by H, S, and sleet. —

Hurdlestown. On the whole the most severe month in East Clare for some years. The R was .50 in., and rainy days 3, above the average of 9 years. The min. temp. fluctuated from 13° on the 6th to 40° on the 10th. The first week was dreadfully cold, and the last was but little better.—*Miltown Malbay.* One of the most severe months remembered, commencing with five days of intense frost, followed to the end of the month by a succession of tempests, squalls, storms of S, H, and R with T and L. From the long continuance of tempestuous weather the sea on the coast was more agitated than was ever before witnessed and an immense quantity of wreckage was washed ashore.

XXI.—*Kilkenny, Sion Villa.* With the exception of the first week in which the weather was seasonable, with hard frosts and some S, the month was stormy and wet. S.W. gales occurred on the 12th, 20th, and 27th to 29th, with frequent H showers.

XXII. *Tuam, Gardenfield.* Severe frost during the first seven days, the min. on 5th being the lowest for many years. S on the ground from 4th to 8th, the rest of the month was changeable, mostly wet, with S at times. R 2.17 in. above the average of ten years.

XXIII. *Warrenpoint.* Extremely stormy, with S and sleet on 12 days; prevailing wind N.N.W.—*Belfast, Springfield.* The first three days were fine and frosty, S showers fell on the 4th and 5th, and on the 6th occurred the most severe frost since 1860, and shrubs of all kinds suffered severely. From this time to the end, most variable, R, sleet, S and frost, followed by an interval of mild weather.

FEBRUARY.

I. *Muswell Hill.* R .10 in., or 5 per cent., less than the average of 22 years. The latter half of the month, although it had 5 consecutive dry days, 18th to 22nd, produced nearly double the R of the first half.—*Finchley, Etchingham Park.* R about the average, but the weather seemed wet, as the R was distributed over 16 days.

II. *Wallington.* A rather exceptional month, being remarkably warm, sunny and rather wet. Favourable on the whole for the farmers. R .79 in., and sunlight 8 per cent., above the average.—*Keston Tower.* An ordinary February with R about, and temp. above, the average. Strong winds and gales from the westward prevailed during a great part of the month.—*Sheppey, Leysdown.* Generally

mild and dry, with some frosts, strong winds and gales, but not one really cold day.—*Lewes, Saxonbury*. Very mild, with westerly winds, except from 17th to 24th when the wind was east, with frost.—*Ditchling*. Mild and stormy till the 18th; sharp frost from 18th to 23rd, then mild till the last day which was cold with S showers.

III. *St. Albans, The Grange*. Warm, except from the 19th to 23rd.—*Slough, Upton*. A fickle month, with more W. than E. winds, and a great deal of sunshine.—*Culham Vicarage*. A mild month; R a little above the average. Sharp frosts from 19th to 23rd.—*Bloxham Grove*. Very variable. On the morning of the 1st, the ground was covered by about an inch of S, which thawed in the afternoon and was followed by showery weather, and a fall of .92 in. of R on the 17th was sufficient to bring out the floods in some localities. From the 20th to the 24th, frost was somewhat severe, the min. varying from 21° to 24°. Windy and stormy from the 25th to the end.—*Sedgbrook*. Showery and frequently boisterous. R exactly the average.

IV. *Ipswich, Bishop's Hill*. Fine on the whole, with several strong gales and considerable variation of temp. R .08 in. less than the average.—*Woodbridge, The Cedars*. Very unhealthy weather, with constant changes of temp.

V. *Bishops Cannings*. R .64 in. less than the average, but rainy days 3 in excess.—*Tavistock, Rose Villa*. Stormy, unsettled and rather warm, with R below the average. R on every day to the 17th and from the 23rd to 28th, but on 4 of them not in measureable quantity.

VI. *Cirencester, Further Barton*. Another month with frequent R, and wind often amounting to a gale. A short spell of cold with frost occurred from the 19th to 23rd.—*Ross, The Graig*. Unusually windy, and with the exception of the severe spell of frost from 19th to 22nd there was very little cold weather. More sunshine than usual, the days being often extremely bright and fine. Scarcely a trace of S, which is unusual.

VII. *Ketton Hall*. Exceptionally windy during the first half and showery towards the end. R .22 in. above the average.

VIII. *Bolton, The Park*. Changeable, with heavy and frequent R and strong winds, and, one of the strongest gales recorded in 8 years, on the 11th. R 3.14 in. above, or more than double, the average. Duration of sunshine 43 hours, 2½ hours less than the average.—*Southport, Hesketh Park*. Warm, wet and unusually windy; strong W. and S.W. winds and gales, except during the third week. R about 1.50 in. above the average. No S.

IX. *Harrogate, The Stray*. Remarkable throughout for high winds and gales, but a fair amount of bright sunshine.—*Thixendale*. Mild in the early part, and very severe about the 21st.—*Baldersby*. Strong south-westerly winds prevailed during the month, and strong gales from that quarter on the 7th, 11th and 24th.

X. *Whorlton*. Very cold, with tremendous gales occasionally, and much R.—*Unthank Hall*. The wettest February known; almost constant R and S, with terrific gales. R 7·33 in., the greatest recorded in any month excepting July, 1884, when 9·29 in. fell.—*Keswick, The Beeches*. The month was one of continued storm and tempest, the only fine period being from the 17th to 22nd when strong frost prevailed. The storms on the 6th and 7th, 11th and 12th, 23rd, 25th, and the night of the 28th were especially violent.—*Uldale Rectory*. Exceeding wet and boisterous; on some days the force of the wind approached a hurricane, doing much damage.—*Burgh-by-Sands Vicarage*. Generally wet, but mild.

XI. *Llanfrechfa Grange*. An exceptional amount of R on an unusual number of days, but it was very acceptable as it came quietly and soaked into the ground. Temp. rather high, bringing forward vegetation too soon.—*Llandovery*. Very stormy and rough with much R.—*Douglas, Victoria Road*. Another wretched month, the third in succession of almost uninterrupted gales and heavy rains. The period 17th—22nd inclusive was, however, fine and calm. Temp. somewhat in excess.

XII. *Lilliesleaf, Riddell*. The wettest month recorded, and the windiest and most unsettled remembered. The wind was W. throughout, except on four days in the middle. Much damage was done to trees by the gales.—*Melrose, Abbey Gate*. Very stormy and unsettled, with frequent gales and S. The wettest February in 22 years, the R being nearly thrice the average.

XIII. *Edinburgh, Blacket Place*. Exceptionally wet, R 246 per cent. above the average. The wettest February on record during 116 years, and only four other wetter months.*

XV. *Craigend Castle*. Stormy and very wet, S and R without ceasing.—*Inverary, Newtown*. Remarkably wet, with much H and frequent T and L.

XVI. *Dollar*. R, wind and sleet nearly all the month.—*Callander, Leny*. Singularly wet, R 15·60 in.—*Coupar Angus Station*. Unprecedented R,

* See also *Met. Mag.*, March, 1894, p. 17.

3·00 in. above the average. A succession of short severe gales prevailed throughout.

XVIII. *Ben Nevis*. Total R 33·55 in. ; in the 12 days, 2nd to 11th, 25·12 in. fell.—*Loch Maddy*. Characterized by a continuation of very heavy gales, the changes in the direction of the wind being frequent, and at times very sudden. TSS passed over the district on the 25th and 28th.—*Drumnadrochit*. Excessively wet and disagreeable, with great gales. A feature of the month was the brilliance of the aurora.

XIX.—*Scourie*. Cold and wet with frequent gales.—*Watten*. A series of gales of wind with R or S.

XX. *Dunmanway, Coolkelure*. Remarkable for the great prevalence of violent squally gales. With the exception of 2 or 3 days of very severe frost, and 2 or 3 days on which S fell, the temp. of the three winter months was exceptionally high.—*Nenagh, Castle Lough*. Wet and windy with scarcely a trace of frost. Thrushes and blackbirds singing from the middle of the month.—*Hurdlestown*. Wet, the R being ·67 in., and number of rainy days 5, above the average of 9 years. Though the R was not large on any day, the weather was damp and wet throughout.—*Miltown Malbay*. Cold and inclement and mostly wet with boisterous winds, gales, and T and L. Heavy seas on the coast, and much wreckage coming ashore.

XXII. *Woodlawn*. Very stormy throughout.—*Tuam, Gardenfield*. The wettest February since the record began in 1866. Stormy on the 11th, with T, L, H and R, followed by a high flood on the 12th; R 2·94 in. above the average.—*Lawderdale*. Very wet and stormy.

XXIII. *Warrenpoint*. High winds almost throughout from N. and N.W. with cold sleety showers.—*Belfast, Springfield*. Stormy, nearly throughout, especially from the 6th to the 11th, much damage being done on the latter date. Very fine and spring-like from the 17th to 22nd, then milder and showery to the end.—*Buncrana, Rockfort*. Strong winds, increasing to gales, almost throughout.—*Carrablagh*. The worst February on record, R 7·20 in.

MARCH.

I. *Kensington, Edith Road*. A beautiful month, the latter half rainless with almost unbroken sunshine.—*Muswell Hill*. R ·48 in. or 27 per cent. less than the average of 22 years; there was absolute drought during the last 17 days.—*Finchley, Etchingham Park*. R quite 30 per cent. less than the average, none falling in the second half of the month.

II. *Abinger Hall*. The weather was all that one could desire, N. and N.E. winds prevailing.—*Wallington*. The warmest, sunniest and driest March recorded, excepting 1893. Frosty nights, without doing any harm, kept vegetation rather backward. R 1·04 in. less than, or little more than half of, the average of 5 years. Duration of sunshine, 18 per cent. above the average.—*Hythe*. The first half of the month was showery with high winds, the second half very fine and dry.—*Keston Tower*. Strong W. and S.W. winds, amounting occasionally to a gale, prevailed to the middle of the month; afterwards very fine with easterly winds. Vegetation nearly a month in advance of ordinary years.—*Birchington, Thor*. Fine and warm, especially the latter part, when there was much bright sunshine.—*Lewes, Saxonbury*. Mild with S.W. winds till 14th, then dry with N. and E. winds, little frost and high day temp. with bright sunshine.—*Ditchling*. Wet and unsettled till the 17th, then rainless and very fine till the 30th, very slight showers at the close.—*Emsworth, Redlands*. A wonderfully sunny month.—*Maidenhead, Castle Hill House*. Rather dry and fine; 15 days without R. Wind N.E. nearly all the month.

III. *St. Albans, The Grange*. Very warm; very wet for the first half, absolute drought from 16th to 31st.—*Slough, Upton*. On the whole, mild and sunny; suggestive of the Riviera.—*Culham Vicarage*. Rough and stormy in the first part, bright and sunny in the latter half with slight frost at night.—*Bloxham Grove*. Till the 14th, southerly winds prevailed, with R almost daily; from that date the wind was, without exception, northerly, with mostly bright, clear, and pleasant weather. Fog on 6 mornings.—*Sedgebrook*. R ·65 in. less than the average of 10 years. Very bright and fine, with N. and N.E. winds from 14th to 29th.

IV. *Sudbury, Friars Street*. Dry, and especially fine and bright from the 22nd to the end.—*Ipswich, Bishops Hill*. Very fine, especially the latter half. R ·55 in. less than the average. Some cold frosty nights and foggy mornings.—*Woodbridge, The Cedars*. Much bright sunshine after the 16th. Very favourable for farming.—*Diss*. The month commenced with a stiff breeze from W.; from 5th to 13th, an almost continuous gale blew from W. or S.W., being heaviest on the 13th, then no more disturbances, and warm, rainless and almost cloudless weather from the 17th to 31st, on which day a few drops of R fell.—*Denver*. Very dry and cold during the first week and warm in the last. Vegetation as forward as in 1893.

V. *Warminster, Rye Hill*. The first half of the month was rainy,

the latter half fine and pleasant.—*Bishops Cannings*. Beautiful weather from the 15th, with cold nights. R .03 in. above the average.—*Tavistock, Rose Villa*. Warm, fine and sunny. R fell on every day, except the 2nd, until the 15th and slightly on the 31st, but none was measured in the 17 days ending 31st.—*Crewkerne, Bincombe House*. Wet, stormy and mild till the 14th, afterwards cloudless and calm with frost at night.—*Stowell Rectory*. Very warm, with average R.

VI. *Clifton, Pembroke Road*. Westerly winds and a constant succession of depressions till 15th; easterly winds, fine warm days, and ground frosts at night, after.—*Further Barton*. Wet and changeable till after the 15th, then very fine and almost cloudless; summer-like at the close.—*Cheltenham, Naunton Park Villas*. Absolute drought between the 15th and 30th.—*Ross, The Graig*. Exceedingly fine and very settled for March, especially after the 12th. Nearly as many cloudless days as in 1893.—*Leamington, The Parade*. Rainless from 14th to 29th.

VII. *Hodsock Priory*. Fine, dry, warm and bright, with many frosty nights. Strong W. winds for the first 10 days, but the latter part very calm, with foggy mornings.

VIII. *Hoylake, The Chase East*. Rainless from 14th to 31st.—*Southport, Hesketh Park*. Exceptionally warm. Stormy and mild during the earlier half, calm, hot, and brilliantly fine afterwards. Mean temp. 4° above the average. R confined to the first fortnight, but practically equal to the average. Very little cloud and a remarkably large amount of bright sunshine. Ream water very high for March.—*Seathwaite Vicarage*. Mild and dry, with brilliant sunshine nearly every day from the 15th, the last week being of almost summer temp.

IX. *Knaresborough, Farnham*. Splendid weather from 15th to 31st. Gales with R, S and H from 11th to 13th.—*Thixendale*. Remarkably still and clear, with frost every night but four.—*East Layton [Darlington]*. Constant sunshine from the 13th to the end.

X. *Whorlton*. Very changeable; the latter part warm but foggy.—*Ulpha Vicarage*. Wet and unsettled for the first half, then brilliant sunshine by day and sharp ground frosts at night. Little or no March wind after the 2nd.—*Keswick, The Beeches*. Stormy till the 13th, after which a complete change took place, and from the 16th no R fell (except a few drops on the 31st), and the weather was quite summerlike. Amount of bright sunshine, 189 hours.—*Uldale*

Rectory. The first part was remarkable for strong westerly gales accompanied by fine driving R. The latter part was fine and dry and the seed-time was all that could be desired.

XI. *Llanvihangel Court.* A warm month and vegetation forward.—*Douglas, Victoria Road.* Terribly wet and stormy weather to the 15th, when the wind suddenly became easterly, followed by magnificent weather, warm by day and no frost even at night.

XII. *Lilliesleaf, Riddell.* A very fine agricultural month, but often cold at night. No R after the 14th and perfectly cloudless sky, which for Scotland is unprecedented.—*Melrose, Abbey Gate.* R .87 in., and number of rainy days 3, below the average. Absolute drought from the 15th to the end.

XIII. *Edinburgh, Blacket Place.* Very fine after the 14th, mean temp. $44^{\circ}1$, being the highest since 1882. Bright sunshine 171 hours, or 47 per cent. of the possible duration.

XV. *Craigend Castle.* First half wet and stormy, the second half fine and dry.

XVI. *Dollar.* The first half wet, the second half beautiful.—*Coupar Angus Station.* March came in very wild and went out very mild, the mean temp. being $2^{\circ}4$ above, and R about an inch below, the average.

XVIII. *Ben Nevis.* In the first 13 days 13.57 in. of R fell, and St. Elmo's fire was seen on 5 days.—*Glenaladale.* The first fortnight was extremely stormy and inclement, with S on the hills, much sleet and H, and great electrical disturbance. The remainder was exceptionally beautiful, warm, sunny, and calm. Vegetation extraordinarily forward.—*Loch Maddy.* The first 13 days were very boisterous, but this was more than compensated for by the beautiful weather of the last 18 days when there was much more than the usual amount of sunshine and the day temp. was high.—*Drumnadrochit.* R daily till the 14th, then beautiful June-like weather, with slight morning frosts to the close.

XIX. *Scourie.* From the 20th to the end the weather was very warm and favourable.—*Watten.* The first half was windy, and the latter half mild, fine, and dry, with bright, hot sun and slight frosts at night.

XX. *Coolkelure.* The second half of the month was very fine, the wind continuously S.E., but neither high nor cold.—*Cork, Clarence Place.* It is remarkable that the air temp. did not once reach freezing point. R 1.11 in. below the average; absolute drought for 16 days,

ending 31st.—*Nenagh, Castle Lough*. The first half very wet, the latter half dry.—*Hurdlestown*. A favourable month, the R being about the average. The first half was wet, but then came 15 days without any R.

XXI. *Kilkenny, Sion Villa*. Wild and stormy to the 14th, with W., S.W., or N.W. gales, on the 1st, 5th, 10th and 11th. No R fell from the 15th to the 30th inclusive, the weather being mild and even warm, though hoar frost occurred on many mornings.

XXII. *Galway, Queen's College*. Very bad weather till the 15th, but very fine from that date to the end.—*Tuam, Gardenfield*. The first fortnight was rainy; the rest of the month very fine, and some days very warm. Brilliant aurora on the 30th. R $\cdot 32$ in. less than the average.—*Lawderdale*. The first half was very wet, cold and stormy; the second half very fine and warm, and good for farm work.

XXIII. *Lough Sheelin, Arley*. Daily R with westerly winds, during the first 15 days, and drought with easterly winds during the latter half.—*Belfast, Springfield*. R, H and sleet showers to the 14th, most severe on the 10th with L at 1 p.m.; from the 15th to the end lovely spring weather with bright sunshine.

APRIL.

I. *Kensington, Edith Road*. Beautiful weather till the 13th, then cool and showery.—*Muswell Hill*. R $\cdot 26$ in., or nearly 15 per cent., above the average of 22 years. From 1st to 13th $\cdot 28$ in. fell on 4 days and from the 14th to 30th $1\cdot 76$ in. on 13 days.—*Finchley, Etchingham Park*. During the first 13 days only $\cdot 25$ in. of R fell, while in the remaining 17 days R was recorded on 13, amounting to $1\cdot 82$ in., making the total about 16 per cent. above the average.

II. *Abinger Hall*. An ideal month, with an abundance of R, and promise of grass and other crops being plentiful.—*Wallington*. Very warm and wet, R $\cdot 22$ in., and mean temp. $5^{\circ}\cdot 9$ above the average.—*Hythe*. The first half of the month was very fine, the latter half dull and showery.—*Birchington, Thor*. The early part dry and warm, but plentiful R in the latter part, and the last week cold.—*Sheppey, Leysdown*. Abundance of bright sunshine; very warm days, and an absence of R until the last week. E. winds prevailed, occasionally veering to N. and S. W. or S.W. on only 8 days.—*Ditchling*. The early part was warm and dry, a partial drought of 30 days, with $\cdot 14$ in. of R ending on 13th. The last half was wet, cold and unsettled.

—*Maidenhead, Castle Hill House*. Rather fine and warm. TS, with heavy R on the 18th.

III. *St. Albans, The Grange*. Very warm, with scarcely any R during the earlier part. A partial drought of 30 days, with .26 in. of R terminated on the 13th.—*Slough, Upton*. On the whole sunshiny and tolerable, but an ugly feature was the rapid transition from warmth to considerable cold, which was twice repeated. There was only one day when the temp. fell below 32°.—*Culham Vicarage*. A typical April, showery and sunshiny. R rather below the average.—*Oxford, St. Giles*. A very typical April.—*Steeple Aston, The Grange*. The greatest R in April during the 11 years recorded here.—*Sedgebrook*. R .10 in. less than the average.

IV. *Ipswich, Bishop's Hill*. The first part was dry and warm, and the latter showery, cold, and dull. R .77 in. more than the average.—*Diss*. Brilliant weather, but nearly a complete drought (only .04 in. of R in the 25 days ending April 11), then fine, warm, "growing" weather till the end. On the 8th and 11th the thermometer reached 74° and 72° respectively. Vegetation very fine and forward.

V. *Warminster, Rye Hill*. Mild and showery; shade temp. 70° on 1st and 2nd. Blackthorn in bloom on 1st, may on 30th.—*Bishops Cannings*. Warm and forward, plenty of grass, and hawthorn in blossom at the end of the month. R .12 in. less than the average.—*Stowell Rect.* Very warm, with average R.

VI. *Cheltenham, Naunton Park Villas*. Fine and warm, but heavy TSS swelled the R.—*Ross, The Graig*. Fine weather continued from March 13th (with the exception of a TS on the 11th and showers from 14th to 16th) till the 22nd of April, and during this time there was scarcely any frost, and the temp. rose to or above 60° on 17 days. The last week was cool and showery. Hawthorn in flower earlier than remembered.

VII. *Ketton Hall*. The first half was exceptionally warm and dry, only .03 in. of R falling up to the 15th, then nice growing rains on and off till the end. Grass and all crops very forward.—*Hodsock Priory*. Warm and showery, with a normal amount of sunshine and a good deal of E. wind. Vegetation forward, and the country looking well.

VIII. *Bolton, The Park*. Characterised by prevalence of E. winds, high and equable temp. and absence of frost. Mean temp. 50°·1 above, R .39 in. above, and bright sunshine 12 hours below, their respective averages.—*Southport, Hesketh Park*. Hot and calm through-

out. Mean temp. more than 4° above the average and exactly equal to that of the warmest previous April (1874) during the 22 years recorded. Absolute min. temp. the highest for April in 23 years. Persistent E. and S.E. airs. R half an inch under the average, but spread over more days than usual. Sunshine normal.—*Seathwaite Vicarage*. Exceedingly favourable. The first 10 days were almost as warm as summer, and the few night frosts were all slight and did no damage.

IX. *East Layton*. Changeable, but plenty of moisture, and vegetation forward. Several TSS and H showers.

X. *Ulpha Vicarage*. Favourable throughout. There were a few slight ground frosts, but the day temp. was uniformly high. Frequent T.—*Uldale Rectory*. Genial and seasonable on the whole.—*Burgh-by-Sands Vicarage*. A fine seasonable month.

XI. *Llanfrechfa Grange*. Very mild, with genial showers, and vegetation well forward. The early part very warm.—*Llanvihangel Court*. A temperate month, with a good deal of dull weather.—*Douglas, Victoria Road*. Beautiful weather till the 6th, followed by daily R till the 17th. Strong E. winds prevailed from the 22nd to the end.

XII. *Melrose, Abbey Gate*. Very fine, the mean temp. being $3^{\circ}\cdot4$ above, and R $\cdot51$ in. below, the average. Oak in leaf on the 29th which seldom occurs in April.

XIII. *Edinburgh, Blacket Place*. Dull till the 18th, only 36 hours of sunshine recorded; fine and warm from that date to the end.

XV. *Craigend Castle*. Fine; R falling mostly at night.

XVI. *Coupar Angus Station*. A very enjoyable spring time. R frequent and very little below the average; mean temp. $3^{\circ}\cdot5$ above the average.

XVIII. *Glenaladale*. A very beautiful month and vegetation exceptionally forward.—*Loch Maddy*, Excellent weather throughout. No frost at night and the average temp. high. Winds very light (except on the 25th) and variable.

XIX, *Scourie*. Quite summerlike throughout; very little R, bright sunshine during the day, chilly nights.

XX. *Coolkelure*. Very wet, with gales of great violence on the 22nd and 24th doing great injury to vegetation.—*Cork, Clarence Place*.—The wettest April for at least 30 years, the R being $3\cdot95$ in. above the average.—*Hurdlestown*. Very wet, R $2\cdot01$ in. above the average of 9 years, and rainy days 12 above the average.—*Miltown Malbay*.

Very mild and rainy, productive of free vegetation. The last eight days, with two severe southerly gales, were harsh and cold with H and R.

XXI. *Kilkenny, Sion Villa*. The wettest month of the year. With the exception of the first week and the 4 days ending the 20th it was exceptionally wet and stormy. Heavy H fell on 16th, 23rd, 24th and 27th. On the 24th a terrific S.W. gale occurred, a wall 9 feet high was blown down and there was great destruction of trees. Very heavy R fell on the 29th at 7.15 p.m. for an hour and a half, about 1.32 in. falling in that time.

XXII. *Tuam, Gardenfield*. The wettest April during 26 years. T, L, H and R on the 3rd, T on 4th, 5th, 16th and 23rd. Only a few days fine, and tillage delayed. R 2.68 in. above the average.—*Lawderdale*. Very wet, and unfavourable for getting in the crops.

MAY.

I. *Muswell Hill*. Dry on the whole till the 20th, but in the remaining 11 days R was recorded on 9. Total fall .24 in., or 11 per cent., less than the average of 22 years.

II. *Wallington*. Cold, damp, and comparatively sunless. The frost on the 21st and 22nd, although not very severe, will long be remembered for the immense amount of damage done. R 1.03 in. less than the average of 5 years. Duration of sunshine 163 hours.—*Keston Tower*. Cold with a moderate amount of R. Severe frosts on the nights of 21st and 22nd, which did immense damage to crops.—*Birchington, Thor*. Fine and warm till 18th, when cold N.E. winds with much R set in, and the 27th was the wettest day since February 21st, 1893.—*Sheppey, Leysdown*. Very bleak, with strong E. winds, and the nights cold, with some frosts.—*Ditchling*. Dull and cold, with very destructive frosts on the 21st and 22nd.—*Maidenhead, Castle Hill House*. Mild, with TS on the 30th.

III. *Kensworth [Dunstable]*. Cold with much wind, and destructive frosts.—*Maidenhead, Hedsor*. Generally very unseasonable, with sharp frosts in the latter part.—*Abingdon, Culham*. Cold on the whole, and much damage done by frost on 21st; R .18 in. above the average.—*Banbury, Bloxham Grove*. With the exception of about 5 days, overcast and bitterly cold, with fog and occasional strong winds from N.E. Frosts occurred on 21st and 22nd, doing

much damage to vegetation, and the crops at the end were worse than at the beginning.

IV. *Sudbury, Friars Street*. Very variable, the temp. at noon ranging from 45° to 75° .—*Ipswich, Bishop's Hill*. Cold and unsettled, except for a few days about the middle. R $\cdot 30$ in. less than the average.—*Woodbridge, The Cedars*. Very unseasonable, with slight frosts on several nights, that of the 21st cutting down potatoes.—*Diss*. A good deal of R, with fine intervals, and some brilliant weather. Extremely hot on 16th and 17th (75° and 73°), and very cold on 20th (29°), the latter doing much damage to potatoes. TSS on 4 days.—*Denver*. A cold month, with but little sunshine, and apparently wetter than the total R indicates.

V. *Bishops Cannings*. A cold month, especially during the latter half. No honey gathered; R $\cdot 39$ in. less than the average.—*Tavistock, Rose Villa*. Cold and wet; R fell on 23 days, but was measurable on only 20. The shade max. rose to 60° on only 3 days, being 3 fewer than in March and 9 fewer than in April. Solar halos on 5 days.—*Stowell Rect.* Deficient in sunshine, and rather cold, the mean temp. being $2^{\circ} 0$ below the average. A disastrous frost occurred on the 21st.

VI. *Cheltenham, Naunton Park Villas*. Cold and gloomy, with destructive frosts between the 20th and 22nd.—*Ross, The Graig*. With the exception of the 24th and 25th, which were moderately warm, the month was cold throughout, the average max. being $11^{\circ} 2$ lower than that of May, 1893. Frosts on 20th and 21st blackened potatoes. R about $\cdot 75$ in. above the average. Great absence of clear days.

VII. *Ketton Hall*. Cold on the whole, with cutting E. winds. Severe frosts on the 21st and 22nd, doing much damage to fruit crops and vegetation generally. R $1\cdot 16$ in. less than the average of 11 years.—*Worksop, Hodsock Priory*. Cold with much N.E. wind and sharp frosts during the latter part. The frost on the 21st did terrible damage to all vegetation. R $\cdot 77$ in. below the average.

VIII. *Bolton, The Park*. Cold, changeable and showery, with easterly winds after the 12th. The max. temp. in shade is the lowest for May in the 9 years recorded, and frosts on grass occurred on 8 days. Mean temp. $2^{\circ} 7$ below the average. R $\cdot 71$ in. above the average. Duration of sunshine 15 hours more than the average.—*Southport, Hesketh Park*. Rather cool and windy. Mean temp. 2° under the average. Absolute max. temp. the lowest for May in 23 years. Frost on grass for

many hours on seven nights, occasioning extensive injury to vegetation. R mainly confined to first 16 days, but fully equal to the average. Ozone very abundant.—*Seathwaite Vic.* The month throughout was cold and rainy, with severe frosts on 20th and 21st, which inflicted widespread damage.

X. *Ulpha Vic.* A beautiful spring month, in which vegetation advanced well till the 20th, then cold weather set in with sharp night frosts, which did great damage. The total R from January 1st is the heaviest for 6 years being 7·00 in. in excess of the average.—*Keswick, The Beeches.* On the whole cold, and frequently stormy, though the amount of bright sunshine was considerable—232 hours. The last 11 days were especially cold, S falling heavily on 21st and 28th, and almost daily on the mountains.—*Burgh-by-Sands Vic.* Generally cold and damp; the cold N.E. winds and frosts in the third week coming after a more than usually forward April, checked vegetation considerably.

XI. *Monmouth, The Hendre.* T and H storms almost daily during the last week.—*Llanfrechfa Grange.* The early part of the month was mild, the latter half very cold with frosts which cut off potatoes, &c., in low ground.—*Llanvihangel Court.* Cold and unseasonable, with little sun; variable winds to the 17th, then N.E. or N. to 27th.—*Douglas, Victoria Road.* A cruel May, an almost unbroken spell of N. winds, gales, and excessive R, the total (4·19 in.), having only once been exceeded in 20 years. The frost on 20th and 21st did great damage to crops and destroyed all fruit blossom.

XII. *Lilliesleaf, Riddell.* Remarkable for intense cold, and much cold R. Great damage done by frost on 21st and 22nd.—*Melrose, Abbey Gate* Very cold and wet, the R (4·63 in.), being double, and the mean temp. 4°·5 below, the average, with frost on 24 nights. From the 20th to the 24th the frosts were very severe, and the effect on vegetation was very serious.

XIII. *Edinburgh, Blacket Place.* During 131 years, on only two occasions did such a cold May follow a very warm March and April. The coldest May since 1885, and the mean temp. 0°·5 below that of April.

XV. *Craigend Castle.* The first half wet, the second half dry; frost from 20th—24th, causing damage to crops and fruit trees.

XVI. *Coupar Angus Station.* The coldest May since 1885; in that year the cold period was longer, but not so severe. R little short of the average and rainy days in excess.

XVIII. *Glenaladale*. The coldest May for 5 years ; the first half was mild and wet, the second half dry and cold, and owing to the forward state of vegetation much damage resulted from the frosts.—*Loch Maddy*. Frost at night for the greater part of the month, and a great deal of cold E. and N.E. wind.—*Drumnadrochit*. Very cold and boisterous, the chief feature being the severe frost from 19th to 21st, which did much damage. S on the hills down to the 1,000 feet line at the end.

XIX. *Watten, H.R.S.* The former half was wet and cloudy, the latter almost sunless, with cold winds, much S and H, and blighting frost on several nights, seriously checking all vegetation.

XX. *Dunmanway, Coolkelure*. Very cold and ungenial, with bitter N. and E winds.—*Cork, Clarence Place*. R less than one-third of the average, and mean temp. $2^{\circ}5$ below the average.—*Broadford, Hurdlestown*. Generally cold, and the first half wet. The ground was white with S on the 20th. No person here remembers to have seen S so late before. R $\cdot 15$ in. below the average of 9 years.—*Miltown Malbay*. Most ungenial ; the first half cold, rainy, and stormy, staying all vegetation and perishing cold clay lands. The latter half was partially dry, with bitter cold E. winds, frost, H, T and L. Ice could be seen on the pools on many mornings during the last 12 days. Such severe May frosts cannot be remembered.

XXII. *Tuam, Gardenfield*. Rather cold and wet ; the first week was mostly fine, then showery from the 8th to the 18th. From 19th to 21st very cold with sharp frost at night, potatoes, &c., badly frostbitten. R $1\cdot 02$ in. above the average.—*Lawderdale*. Very cold and bleak ; much damage done by frost.

XXIII. *Warrenpoint, Summer Hill*. Extremely cold, with intense frost on 20th, 21st, and 22nd. Prevailing winds N. and N.E.—*Belfast, Springfield*. Dull, cold and showery till the 8th, warmer till the 11th, then very cold with R till the 18th ; wintry weather from the 19th to the 23rd. Severe frost on the 22nd, doing much damage to vegetation. Cold, drying winds from 24th to the 28th, then much warmer to the end.

JUNE.

I. *Kensington, Edith Road*. Cold and unsettled till the 20th, then very fine.—*Muswell Hill*. R $\cdot 56$ in., or 23 per cent. below the average of 22 years, all falling in the first two-thirds of the month, the last 10 days being absolutely dry.—*Finchley, Etchingham Park*. R about

four-fifths of the average. Except .02 in. on the 23rd all the R fell in the first 20 days.

II. *Abinger Hall*. The wet and generally cold weather which prevailed far into the month, at length gave place to a glorious burst of summer weather, making the hay time one to be remembered.—*Hythe*. Very wet and squally with few exceptions till 20th, but the last 10 days very fine and dry.—*Keston Tower*. The last week was fine and warm, but during the rest of the month the temp. was below the average with a considerable amount of R.—*Lewes, Saxonbury*. The last week was very hot and dry with strong winds from N.E. and E.—*Ditchling*. Dull, wet and unsettled to the 21st, when a change occurred to much finer weather and the last few days were fine, dry and almost cloudless.—*Maidenhead, Castle Hill House*. A fine month, the last 10 days rainless and very warm.

III. *St. Albans, The Grange*. Rather cold, with no R after the 20th.—*Kensworth*. Cold and wet till the 21st then fine and warm.—*Slough, Upton Hall*. A sunny month, cool until the last few days. There was much E. wind towards the close which, with hot sun, made the weather rather treacherous.—*Culham Vicarage*. Cool, wet and changeable to the 21st, then warmer, but dull and cloudy till the last 4 days which were brilliant and warm.—*Bloxham Grove*. Dark and gloomy during the first part, with some heavy R, frequent showers and occasional fogs in the morning, with low temp. From the 18th to the end, fine and pleasant with a considerable increase of temp.

IV. *Sudbury, Friars Street*. Unsettled and cool at the commencement, more seasonable towards the end.—*Ipswich, Bishops Hill*. Dull, wet and cold to the 21st, then hot, bright and rainless. R .20 in. above the average.—*Bury St. Edmands, Orchard Street*. Cold, wet and sunless to the 20th, then fine, bright and warm to the end.—*Diss*. The first half was wet and cool, but after the 20th the weather was brilliant and warm to the end. The crop of grass was immense and the haysel perfect.—*Denver*. Cold and dull at first, but fine and warm at the close. Corn of all kinds was very backward but suddenly sprang into ear during the last 10 days.

V. *Warminster, Rye Hill*. The first 3 weeks cold and gloomy, the last week fine and warm.—*Bishops Cannings*. Wet and cold till nearly the end. R .19 in. above the average.—*Tavistock, Rose Villa*. Cold, showery, damp and cloudy, with 20 wet days. R fell on 23 out of the first 24 days but not in measurable quantity on the 13th, 14th and 21st.—*Hurtland Abbey*. Fog very prevalent throughout.

VI. *Clifton, Pembroke Road*. A fine hot week occurred at the end with easterly winds, being the first spell of fine weather since the termination, on April 8th, of the 3 weeks' drought.—*Cirencester, Further Barton*. Unsettled and windy with little sunshine for the first 3 weeks; the last week hot and often cloudless.

VII. *Ketton Hall*. The first half was showery and nice growing weather, but the nights were cold. The last half was warm and bright, especially from the 28th to 30th. Haymaking commenced on the 21st. R .05 in. above the average of 11 years.—*Horncastle, Bucknall*. The first half cold and very wet, and the last half dry and hot at times.—*Worksop, Hodsock Priory*. Cool and cloudy; rather wet at first, but the last few days fine and warm. Crops looking well, but the effect of the May frost severely felt in the garden.

VIII. *Bolton, The Park*. R 1.09 in. above the average of 8 years, the duration being much in excess. Bright sunshine was recorded on 25 days, the total being 132 hours or 33 hours less than the average.—*Southport, Hesketh Park*. Fairly normal. Cool for the first fortnight but warmer afterwards, and hot towards the close. R half-an-inch in excess of the average.—*Seathwaite Vicarage*. A rainy month, but without any very heavy falls. Unusually high temp. steadily prevailed during the closing week.

IX. *East Layton Hall*. The first 2 weeks were exceptionally wet with cold N. winds, and everything looked very starved until the last week, when real summer weather came in.

X. *Whorlton*. Much R and very cold during the first part; great heat on the last few days.—*Ulpha Vic*. Very wet and cold till the 26th; brilliant sunshine and great heat during the last five days.—*Keswick, The Beeches*. The first 25 days were, with one or two exceptions, cold and showery, R being measured on 20 days. The remainder brilliantly fine and very hot.—*Uldale Rectory*. Wet and cold for the first three weeks with very little sunshine; brilliant weather during the latter part.—*Brampton, Denton House*. Very wet and except for the last five days, cold; R 1.07 in. above the average of 9 years.

XI. *Douglas, Victoria Road*. Cold, wet, and sunless until the 25th; then fine and warmer. A truly wretched June following an equally wretched May.

XII. *Melrose, Abbey Gate*. The early part was very cold and wet, the latter part more seasonable. R 1.28 in. above, and temp. 3° below, the average.

XV. *Craigend Castle*. As a whole fine and warm, but showery; T and L on 6th and 21st.

XVI. *Coupar Angus Station*. R .79 in. above the average, but no floods or gales. Generally cold, with temp. below the average till the 26th, the range being from 32° on the 6th to 81° on the 30th.—*Ballinluig*. June opened rather cold with a fair quantity of R, and closed very warm. There was a case of sunstroke on the 30th.

XVIII. *Drumnadrochit*. Very cold during the first 23 days, with northerly winds, and the hills over 3,000 ft. streaked with wreaths of S at the close. The last week was very sultry.

XIX. *Watten, H.R.S.* The first 3 weeks were cold and cloudy, with little sun, and frost on several nights; the last week was very mild, with bright hot sun.

XX. *Dunmanway, Coolkelure*. A fine growing month and the latter part warm and dry, the wind, principally S.E., tempering the heat.—*Cork, Clarence Place*. R .98 in. less than the average; mean temp. below the average, the extreme max. being the lowest in June since 1883.—*Killarney, Woodlawn*. Very showery and unseasonable till the 20th, then summerlike and warm till the close.—*Nenagh, Castle Lough*. Though the R was not large it was spread over many days.—*Broadford, Hurdlestown*. R .73 in., and number of rainy days 5, above the average of 9 years. On the whole the month was very favourable, and the last few days were very hot.—*Miltown Malbay*. Rather wet, cold, and ungenial to the 25th, and from thence to the end sultry with excessive heat which gave a spurt to vegetation.

XXI. *Kilkenny, Sion Villa*. Very fine, and much very warm weather.

XXII. *Tuam, Gardenfield*. The first part changeable, but mostly fine; the end very fine and warm, R .34 in. less than the average.—*Lawderdale*. A fairly seasonable month.

XXIII. *Belfast, Springfield*. No June weather till the 26th; cool from the beginning with heavy R on the 4th (1.28 in.), and getting colder till the 16th, thence gradually improving, and glorious and sunny weather from the 26th to the end.

JULY.*

I. *Muswell Hill*. R fell on 12 out of the first 16 days amounting to 2.19 in., while .76 in. was recorded from the 17th to the 31st, the total being .23 in., or 8 per cent., above the average of 22 years.—*Finchley, Etchingham Park*. Only once were there as many as three

* See also *Met. Mag.*, August, 1894, p. 101.

consecutive fine days (3rd—5th), the wettest period being the 11 days ending 16th, during which 1·97 in. fell.

II. *Abinger Hall*. Wet and changeable and much hay spoilt. Falls of one-and-a-half inches of R occurred on the 10th and 29th.—*Tenterden*. The largest R for July during 32 years, 5·26 in., the nearest being 5·08 in. in 1888.—*Cranbrook*. R 2·97 in. above the average of 25 years, and exceeded on only one occasion in 29 years, viz. in 1888.—*Ashford, Bethersden*. The wettest July in 34 years, R 5·30 in.—*Keston Tower*. The first week was warm, the remainder rainy and cool.—*Sheppey, Leysdown*. Generally very warm, but sunshine deficient and R excessive.—*Chichester, Westgate*. R 5·26 in., with the exception of 6·05 in. in 1888, the largest fall in July in 59 years.—*Falmer*. R 4·28 in. more than the average of 35 years, and 1·62 in. above the next wettest July.—*Lewes, Bedford Lodge*. The wettest July of the 27 recorded.—*Lewes, Saxonbury*. A severe TS on the 6th, after a hot, dry fortnight, broke up the fine weather, and it rained more or less for the rest of the month.—*Niton, St. Catherine's House*. Great want of sunshine which spoilt all fruit out of doors, and even that which was under glass was small and backward.—*Maidenhead, Castle Hill House*. Rather wet; slight TS on the 6th, and a very heavy one on the 29th.

III. *St. Albans, The Grange*. Rather warm. An absolute drought of 15 days terminated on 5th, after which R fell for 19 days in succession.—*Slough, Upton*. A wet month, with many pleasant intervals of sunshine. The early part was like summer, but later on, this yielded to broken weather.—*Bloxham Grove*. The first few days were fine and hot, but the weather was very variable afterwards, two fine days seldom occurring together.—*Sedgebrook*. R ·72 in. below the average.

IV. *Ipswich, Bishop's Hill*. Dull and unsettled after the first fine warm week. Many TSS and total R 1·47 in. above the average.—*Woodbridge, The Cedars*. Much electrical disturbance, with heavy rains, causing much damage to the standing corn and hay crops. Sunshine is much needed.—*Diss*. Warm and wet, with frequent heavy H and TSS in the first half. Hay crop immense, but the ingathering delayed by wet.

V. *Warminster, Rye Hill*. The first week fine and warm, generally wet, cold and gloomy afterwards.—*Bishops Cannings*. The first week was beautiful, the remainder very wet and cool and disastrous for hay not carried before the 7th. R 1·52 in. above the average.—

Stowell Rectory. Very wet, with the heaviest R in 10 years, excepting 1888. Temp. average.

VI. *Clifton, Pembroke Road.* The wettest July since 1888.—*Further Barton.* The first week was fine and hot, but the rest of the month was showery and windy. Wind chiefly N.E. changing to W., when the R fell during the last 10 days.—*Ross, The Graig.* The five weeks ending July 21st yielded only .53 in. of R, or less than in any corresponding period since 1869; the only other instances since 1859 of less than an inch in the five weeks, being 1864, .87 in.; 1868, .74 in.; 1869, .33 in.; and 1878, .54 in.; while in 1875 7.95 in. fell. The contrast with S.E. England is curious :—

London	...	...	June 16 to July 21	...	...	3.38 in.
Ross	...	...	" " "	...	...	.53 in.
London	...	...	July 22 to July 31	...	...	.38 in.
Ross	...	...	" " "	...	...	2.21 in.

VII. *Ketton Hall.* Showery on the whole, with much T. A good growing month, but crops greatly damaged by the heavy R and H on the 11th and heavy R on the 16th and 25th. R .31 in. above the average of 11 years.—*Worksop, Hodsock Priory.* The first few days were fine and warm, followed by cool and showery weather for rather more than a fortnight, and the last few days were fine. The figures for the month are very near the average, R .36 in. above it. Much hay was damaged.

VIII. *Bolton, The Park.* Warm, bright and fine during the first week; showery and unsettled from the 13th to the 25th, with mean temp. about 55°; from the 26th the temp. steadily rose and fine settled weather continued till the 31st. R .26 in. above the average.—*Southport, Hesketh Park.* Somewhat dry, warm and sunny. Mean temp. 1°·5 above the average. R an inch below the average. Air dry and remarkably clear. A considerable amount of sunshine.—*Seathwaite Vicarage.* Variable, with days of very high temp. accompanied by much thundery weather.

IX. *East Layton.* A good growing month and everything looking well.

X. *Whorlton.* Cold, with high wind during the early part, but the last week hot.—*Keswick, The Beeches.* Fine and summerlike, with the exception of somewhat showery weather from the 14th to the 18th. The first two and the last six days being very hot. Amount of bright sunshine, 252 hours.—*Uldale Rectory.* Favourable on the whole, and heavy hay crops were well secured.

XI. *Llanfrechfa Grange*. The early part was fine and very favourable for haymaking, but the remainder was showery, the R being about 1·50 in. more than usual.—*Llanvihangel Court*. Very dry till the 23rd, and the ground was parched and vegetation stunted, although S.W. wind prevailed.

XII. *Lilliesleaf, Riddell*. Frequent TSS and showery weather till the 21st, then fine and good for haymaking.

XVI. *Dollar*. A dull, wet and cold month.

XVIII. *Glenaladale*. Taken altogether, a very fine month.—*Loch Maddy*. The first half was very rough and wet, but the latter half was calm with great heat.

XX. *Coolkelure*. Warm and close, with a good deal of R but no heavy downpour.—*Cork, Clarence Place*. More like autumn than midsummer. R 1·38 in. below the average.—*Killarney, Woodlawn*. Continuously dropping, no very serious R, but the hay crops could not be safely gathered in and much was lost.—*Nenagh, Castle Lough*. A wet, gloomy and very sunless month.—*Hurdlestown*. With the exception of 1892, the wettest July on record, R 1·34 in., and number of rainy days 10, above the average of 9 years. Nearly all the hay cut during the month rotted.—*Miltown Malbay*. A month of almost incessant R precluding all haymaking. Cold and inclement, with high winds and occasional H showers till the 18th, after that date warmth gradually set in, with moist weather, culminating in a prolonged TS on the 25th. Sultry and very wet at the close.

XXI. *Kilkenny, Sion Villa*. A distinctly wet month and very little heat. TSS on the 20th and 23rd.

XXII. *Tuam, Gardenfield*. The first 3 days were fine but the rest of the month was changeable and rainy. R ·93 in. above the average.—*Lawderdale*. Very wet and unseasonable, and bad for the hay harvest.

AUGUST.

I. *Muswell Hill*. R ·37 in., or 13 per cent., above the average of 22 years, falling on 18 days, but the falls were not generally large until the 23rd, when 1·59 in. fell in 3 days; the last 6 days were dry.—*Finchley, Etchingham Park*. The month appeared a very wet one in consequence of the large number of rainy days (21), but the total was just about the average. All the R fell during the first 25 days, but the amounts were mostly small till the 23rd.

II. *Wallington*. Cold, wet and rather sunless, and consequently very unfavourable for the farmers. R .91 in. above the average of 5 years.—*Tenterden*. A wet month, without much R.—*Hythe*. Very showery and changeable to the 25th, when dry weather set in.—*Keston Tower*. Cool, with a good deal of R, which much retarded harvesting operations; the last 5 days were very fine.—*Lewes, Saxonbury*. Very unsettled and showery till the 25th, causing much delay in the harvest, fine afterwards.—*Niton, St. Catherine's House*. Wet and gloomy till the 26th, very little sun and the ground saturated.—*Maidenhead, Castle Hill House*. Rather wet, TS on the 9th, and TS and heavy R on the 25th, from 6 a.m. to 9.30 a.m., 1.29 in. falling in 3 hours 30 minutes. The last week very fine.

III. *St. Albans, The Grange*. Rather cold and very wet; only 4 days without R up to the 25th, after which none fell.—*Slough, Upton*. Decidedly cold and cheerless for the major part, but the last week had 4 really sunny warm days. Very little R fell until the continuous rains from the 23rd to 25th.—*Culham Vicarage*. Wet and unsettled, with very little sun till the last few days.

IV. *Sudbury, Friars Street*. Unsettled, with very little sunshine and rather low temp.—*Woodbridge, The Cedars*. Continuous R did great damage to the corn crops, both by laying and discolouration.—*Diss*. The month was spoken of as very wet, but it exactly hit the medium ("happy" or not), for in 24 years the fall was heavier in 11 Augusts and lighter in 12. The R, however, came awkwardly for the harvest owing to the frequency of light falls. The last 5 days were fine and the large crops (damaged in places by the July storms) were being secured everywhere.—*Denver*. Very slow harvest weather for the first 3 weeks.

V. *Warminster, Rye Hill*. Cold, dull and gloomy; very little sunshine.—*Bishops Cannings*. R .10 in., and rainy days 9, above the average. R fell on 22 out of the first 25 days, but the last week was beautiful.—*Tavistock, Rose Villa*. Cold, showery, damp and cloudy. R fell every day to the 26th, but was not measurable on the 10th, 11th, 13th and 18th.

VI. *Clifton, Pembroke Road*. Cold, rainy and sunless.—*Further Barton*. Wet and chilly, with little sunshine till the 26th, when, after a TS, fine calm weather set in, hot at mid-day and foggy early and late.—*Cheltenham, Naunton Park Villas*. Cold, gloomy and very showery.—*Alrewas*. Exceptionally wet and hindering to the harvest.

R on 23 days.—*Cheadle, The Heath House*. The worst August remembered. R on 21 days.

VII. *Ketton Hall*. Showery, with many cold nights and very changeable weather, bad for harvest. R .26 in. less than the average, but 21 rainy days.—*Horncastle, Hemingby*. Wet, windy, cold and altogether unseasonable.—*Worksop, Hodsock Priory*. Cool and dull. Harvest began about the second week and was rather hindered by showers, but not seriously. R .33 in. below the average.

VIII. *Bolton, The Park*. The month was marked by a wide range of bar.; great proportion of cloud; heavy R; little bright sunshine; low, but equable, temperature, and prevalence of westerly breezes. R .66 in. above the average. Duration of bright sunshine only 67 hours, being the least recorded in August and 42 hours below the average, or only 15 per cent. of the time the sun was above the horizon.—*Southport, Hesketh Park*. The most cloudy, sunless and depressing August since observations commenced in 1871. Range of temp. unprecedentedly small in consequence of strong persistent sea breezes (S.W., W., and N.W.) and perpetually cloudy skies, the mean daily range being $4^{\circ}5$ less than the average, whilst the extreme range in shade was 14° below the normal and the smallest in any month during 23 years. R half-an-inch below the average and a great deficiency of sunshine.—*Seathwaite Vicarage*. Showery, with deficient sunshine and low temp. but with only one day's heavy rain, viz.: 2.49 in. on 2nd.

IX. *East Layton*. Very changeable, scarcely two days similar throughout, but not on the whole a "bad" month.

X. *Ulpha Vicarage*. Cold and cheerless throughout, though little R fell after the 20th. R .53 in. less than the average of 7 years, but the first half of the month was very wet.—*Keswick, The Beeches*. Dull and unsettled, with low temp. from the 2nd to the 19th, fine from that date, but a great deal of mist and haze at the end of the month. Amount of bright sunshine, 141 hours, being the lowest recorded in August since observations commenced.—*Burgh-by-Sands Vicarage*. Generally unsettled, but the temp. being low very little harm accrued to the hay and corn harvest.—*Brampton, Denton House*. Very wet, damaging the hay crop. Up to the 28th there were only five rainless days, and the total (6.03 in.), was 1.49 in. above the average of ten years.

XI. *Llanfrechfa Grange*. The R during the latter part of the month interfered much with the harvest.—*Llanvihangel Court*. Very little

sun ; fruit ripened badly, and the crops were late. Winds S. and S.W. till the last week.—*Douglas, Victoria Road*. Singularly depressing and unseasonable ; unredeemed by one summer day. The temp. was uniformly low, sunshine was deficient and strong winds and gales were frequent. R fell on 17 days, but the total is below the average.

XII. *Lilliesleaf, Riddell*. Very wet, with, on the 2nd, the heaviest R recorded, 2·17 in.—*Melrose, Abbey Gate*. R 1·86 in. above, and mean temp. 1°·3 below, the average.

XIII. *Edinburgh, Blacket Place*. Absolute shade max. 68°, being the lowest on record during 55 years.

XVI. *Ballinluig*. Wet and dull till the 22nd, two heavy falls of R occurring, 1·58 in. on the 2nd, and 1·14 in. on the 13th. From the 22nd the weather was all that could be desired, and harvesting was well started.—*Coupar Angus*. The month began with a flood on the 2nd (R 1·90 in.), and R fell almost every day until the 24th, whereby the temp. was kept low from the cloudy state of the sky and the saturated condition of the ground. After the 24th a marked improvement set in and harvesting commenced, about three weeks late.

XVIII. *Glenaladale*. Wet and unsatisfactory, with very little wind.—*Loch Maddy*. R fell on 16 out of the first 18 days ; from 19th to 24th the weather was very warm but during the last week the temp. was low.—*Drumnadrochit*. R much heavier than in any of the 8 preceding Augusts, and 2·66 in. above their average.

XIX. *Scourie*. R fell on 26 days, and the crops suffered severely.—*Watten*. Wet, cloudy, and mild for the first three weeks, then dry, cloudy, and mild to the end.

XX. *Coolkelure*. A seasonable harvest month.—*Nenagh, Castle Lough*. Almost every day “ wet ” up to the 27th and very sunless.—*Hurdlestown*. R 1·27 in. below, and rainy days one above, the average of 9 years. The weather generally was dark and cloudy, and on the whole very unfavourable for farm work. There was no sunshine on 16 days.

XXI. *Kilkenny, Sion Villa*. Another wet month, with occasional storms, and not very much heat.

XXII. *Tuam, Gardenfield*. Some R on most days ; the last five days fine. R ·02 in. less than the average.—*Lawderdale*. Very unsettled and bad for harvest work.

XXIII. *Belfast, Springfield.* Only four days without R till the 27th, then fine and dry, but dull, to the end. Very little sunshine throughout, and though not much R, it was sufficient to retard haymaking.

SEPTEMBER.*

I. *Kensington, Edith Road.* Cold and very gloomy, with very high bar.—*Muswell Hill.* R 1·40 in. or 57 per cent., less than the average of 22 years; ·49 in. fell from the 3rd to the 9th, and the same amount from the 21st to the 25th; the only other fall was ·05 in. on 15th.—*Finchley, Etchingham Park.* The total R was very little more than half the average, falling on 12 days and, with the exception of ·11 in. on the 15th, was confined to two periods, the first from 3rd to 9th and the second from 21st to 25th.

II. *Abinger Hall.* Cool and somewhat hazy at times, N. and N.E. winds prevalent. Harvest finished.—*Wallington.* Cool, sunless, rather wet, and in many ways unfavourable for field and garden work. The barometrical mean, the mean amount of cloud, and the mean relative humidity were the highest since 1888, whilst the mean max. in shade, the mean temp., the percentage of sunlight, and the mean min. in shade, were the lowest since records commenced in 1886. Northerly winds very prevalent. R ·22 in. above the average.—*Sheppey, Leysdown.* Generally overcast; the days cool and the nights cold owing to the prevalence of E. and N.E. winds.—*Ditchling.* Unsettled, but finer and colder at the end. Bar. generally high. Frequent mists.

III. *Culham Vicarage.* Fairly dry, but very little sunshine.—*Bloxham Grove.* With the exception of the 1st, the weather was showery and unsettled till the 8th, from thence to the 22nd was dry, but with N. and N.E. winds and little sunshine. During these 14 days harvest, which had been much hindered, was practically finished.—*Sedgebrook.* R 1·23 in. less than, or little more than half, the average.

IV. *Ipswich, Bishops Hill.* Dull, dry and cold. R just half the average.—*Bury St. Edmunds, Orchard Street.* R 1·45 in. less than the average.—*Diss.* Calm, windless and rather sunless, with absolutely no phenomena to record. The harvest was finished in wettish

* See also *Met. Mag.*, October, 1894, p. 134.

weather and large crops were secured, partly damaged by the July storms. Ponds and rivers were getting low at the close.

V. *Bishops Cannings*. R .78 in. less than the average. Easterly winds prevailed throughout, after the 1st.—*Tavistock, Rose Villa*. Cold, dry, and fine, with high bar.—*Stowell Rectory*. A month of average R, temp. 2°·1 below average.

VI. *Ross, The Graig*. R 25 per cent. above the average, but fell only in three periods, if slight sprinkles are excepted; the only falls of more than .03 in., were a slight TS on the 5th, heavy R in the early morning of the 7th, and 2·57 in. between 6 a.m. on the 23rd and 5 p.m. on the 25th. The temp. reached 68°·7 on three days, but this was the highest max., so that the month was specially cold by day.

VII. *Rotherby Hall*. R only .56 in., being the smallest fall in September in 26 years. Mean temp. only 48°, and frost nightly from the 27th to the end.—*Ketton Hall*. Very changeable, but good on the whole for getting in the crops. The nights were cold from the 27th to the end. R 1·86 in. below the average, and water very scarce.—*Worsop, Hodsock Priory*. Since observations commenced there has been no other September with so small a R or so high a bar., and only two with a lower mean temp. Northerly winds throughout and a great deal of calm. A good time for finishing harvest. R 1·59 in., and temp 1°·8, below the average.—*Mutlock, North Darley*. In 30 days, ending September 25th, only .12 in. of R fell.

VIII. *Bolton, The Park*. Remarkably settled throughout, with high barometric pressure, equable temp., a fair amount of sunshine, and little R. R only .48 in., or 2·97 in. below the average. Bright sunshine on 23 days, total duration 89 hours, or 5 hours above the average.—*Southport, Hesketh Park*. Remarkably calm and dry, quite cool but often beautifully fine. Mean temp. more than 2° below the average. Frost on grass on 6 nights. An exceptional prevalence of E. and N.E. airs. The calmest month since the station was established in 1871, and the driest September during the same period. R nearly 3 inches below the average, and rainy days less than a third of the normal. Ream water becoming very low.—*Elswick Lodge*. R (.51 in.) and number of wet days (5) the smallest in September during the 23 years recorded. A grand month for farmers.

X. *Ulpha Vicarage*. With the exception of some half dozen days, the weather was brilliant. The temp. was generally low owing to

the prevalence of N. and N.E. winds. The smallest monthly R since observations commenced in August, 1888, and the fewest rainy days—*Keswick, The Beeches*. Very fine throughout, but a good deal of cloud prevailed at times, and the wind was persistently N. or N.E. Amount of bright sunshine, 170 hours.—*Uldale Rectory*. Exceedingly dry, the driest September remembered; R only .54 in. on 4 days. A most bountiful harvest was secured in excellent condition. Absolute drought from the 8th to the 28th inclusive.—*Burgh-by-Sands Vicarage*. A remarkably fine month, and the abundant harvest was secured in prime condition.—*Brampton, Denton House*. Very dry, with only .30 in. of R, being 3.80 in. less than the average of 10 years. A partial drought commenced on August 27th, and in 41 days only .36 in. of R fell.

XI. *St. Bride's Bay*. Splendid nearly all through and finer than ever towards the end, but getting colder.—*Douglas, Victoria Road*. Certainly the finest and driest September since observations began. The wind was easterly throughout, often N.E., so while the duration of sunshine was considerably in excess, the temp. was below the average. A fair harvest is expected, well saved.

XII. *Lilliesleaf, Riddell*. Very dry but light easterly winds and much fog and drizzle.—*Melrose, Abbey Gate*. R 1.35 in. below, or little more than one-third of, the average and the smallest for 24 years, which was favourable for harvesting work. Temp. 1°·4 below the average.

XIII. *Edinburgh, Blacket Place*. R .48 in.; only on three occasions since 1770 has so little R fallen in September. In 1855 .44 in., 1810 .22 in., and in 1784 .15 in.

XV. *Craigend Castle*. Very fine and dry, no R for 15 days.—*Rothsay, Crichton Road*. R only .18 in., the lowest on record for Bute since 1800.—*Inverary, Newtown*. A remarkably dry month.—*Morrern, Drimuin*. The smallest monthly R (.14 in.), yet observed at this station.

XVI. *Callander, Leny*. No R fell; a unique record.—*Ballinluig*. Very fine and dry, with only .12 in. of R. If anything, rather calm for harvesting, yet the fields were almost cleared.

XVIII. *Loch Shiel, Glenaladale*. A very beautiful month, with very little wind. The finest autumn remembered.—*N. Uist, Loch Maddy*. The prevailing winds were light from N. to E. The bar. from about the 10th was exceedingly high with very little variation. Owing to the direction of the wind the temp. was mostly low, particularly

at night. The oldest inhabitant does not remember a finer September in the Hebrides.

XIX. *Watten*. The finest September on record ; dry, cloudy, calm and mild.

XX. *Coolkelure*. A beautiful month, generally bright and sunny, with fresh, but not cold, breezes, from N.N.E. to E.S.E. No finer harvest weather could be desired.—*Cork, Clarence Place*. Chiefly remarkable for the low mean temp., small R and absence of equinoctial gales. Mean temp. 3° below the average of ten years.—*Nenagh, Castle Lough*. Fine and dry, but dull on the whole.—*Hurdlestown*. Very fine. The driest month on record during ten years, the R being 2·25 in., and the number of rainy days 12, below the average. Very favourable for farmers after the wet July and August.—*Miltown Malbay*. One of the finest and calmest Septembers in memory. A most fortunate turn of the weather for saving the harvest, which was all but lost. Scarcely any R, except on the 2nd.

XXI. *Kilkenny, Sion Villa*. The driest month of the year, and very fine and bright throughout, but, for the most part, cool. The last week was exceptionally warm in the day-time.—*Moynalty, Westland*. The driest September on record since observations commenced in 1875.—*Ardee, Lissrenny*. The driest September on record.—*Athlone, Twyford*. The smallest R (·17 in.), for any month during a twenty years' record.

XXII. *Tuam, Castle Hacket*. The driest September ever known here.—*Tuam, Gardenfield*. Extremely fine and the driest September since the record commenced. No R except two showers on the 4th, and a little mist on the 7th. No R fell from September 8th to October 9th. R 3·58 in. less than the average.—*Lawderdale*. A very dry month ; prevailing winds, N. and N.E.

XXIII. *Belfast, Springfield*. A remarkable month. Only ·73 in. of R on eight days from August 19th to the end ; thirty-four days being fine, the longest period of dry weather hitherto recorded. Better weather for harvest could not be desired.—*Limavady, Drenagh*. The driest September ever recorded.—*Stewartstown, The Square*. R ·14 in. being far below the average. —*Dungannon, Rockdale*. The driest month since the record commenced in 1875. Not a drop fell between the 3rd and 24th.—*Buncrana, Rockfort*. The smallest R (·40 in.), in any month since February, 1891, when only ·33 in. fell.—*Lough Swilly, Carrablagh*. The driest and most beautiful September experienced for as many years as any one can recollect.

OCTOBER.

I. *Kensington, Edith Road.* Very dry till the 23rd, then heavy R daily, giving a total of 4·31 in., only once exceeded in 11 years.—*Muswell Hill.* R·80 in. or 25 per cent., above the average of 22 years. During the first 23 days only ·90 in. fell, while in the remaining 8 days 3·02 in. was recorded.—*Finchley, Etchingham Park.* R about 23 per cent. above the average, falling on 19 days; till the 24th the falls were small, but during the last 8 days 3·02 in. fell.

II. *Abinger Hall.* The first part was cool and dry, but after the 20th heavy falls of R occurred almost daily, and on the 24th 1·62 in. fell in 4 hours.—*Wallington.* Wet, sunless, comparatively warm and very unhealthy. In the last week 3·99 in. of R fell and the total was 2·73 in. more than the average of 5 years.—*Hythe.* Very wet, only 9 dry days, and towards the end very squally.—*Keston Tower.* The first 3 weeks were very dull, gloomy and foggy with light winds from N. or E. The last week was wet and stormy, with southerly and westerly winds.—*Birchington, Thor.* Very changeable; squally periods and fog, and no wind for several days. Very mild, with no frost.—*Sheppey, Leysdown.* Mild and wet, with strong winds and occasional gales.—*Lewes, Saxonbury.* Fine and dry till 20th, afterwards wet. Heavy gales on 21st and 25th, and floods on 31st following continuous R for 42 hours.—*Ditchling.* Fine till the 20th, then very wet and stormy with frequent gales.—*Sellorne, The Wakes.* During the last 8 days, 4·78 in. of R fell.—*Maidenhead, Castle Hill House.* Mild and very wet. Gales on the 24th and 25th. Floods coming out.

III. *Bloxham Grove.* The month opened with fine and pleasant weather, but soon changed to fogs and excessive damp; it was fine again from the 16th to the 19th, but from that date to the end, with one exception, there was R daily, and at the close the streams were running strongly and the springs beginning to flow.—*Sedgebrook.* R·33 in. less than the average of 10 years, but the last 9 days very wet.

IV. *Sudbury, Friars Street.* Rather unsettled, with a good deal of fog at night and in morning.—*Ipswich, Bishops Hill.* Generally dull and dry throughout, with wet fogs and mists. R 1·13 in. less than the average.—*Bury St. Edmunds, Orchard Street.* The first few days were fine, followed by more or less fog up to the 12th, and cold on the 14th and 15th. R·93 in. below the average.

V. *Bishops Cunnings*. A warm month, with R 1·09 in. above the average.—*Taristock, Rose Villa*. The first 19 days were generally dry, and the last 12 very wet and stormy. Only ·14 in. of R fell in the 23 days, September 26th to October 18th, but 5·11 in. fell in the ensuing 13 days. Average R, temp., and bar. pressure.—*Redruth, Trewirgie*. The first 18 days were rainless, but in the remaining 13 days 6·09 in. fell.

VI. *Further Barton*. The long period of calm, with N. or E. wind, lasted till the 10th and was succeeded after the 23rd by gales and much R, 4·72 in. falling in the last 9 days. Frost on the 21st, but not sufficient to kill tender plants.—*Great Barrington*. The wettest month since December, 1891.—*Ross, The Graig*. The R during the first 22 days was only ·53 in., while in the last 9 days 4·43 in. fell, which is the largest amount recorded in the same time. The only frost of any consequence occurred on the 22nd, but it cut down all tender plants which had been exceptionally flourishing. The last week was very warm for the time of year.

VII. *Ketton Hall*. Very changeable throughout, with exceptional variation of temp. Severe frosts on the 20th and 21st cut down all tender plants. R ·40 in. below the average.—*Worksop, Hodsock Priory*. Dull throughout. During the first half, the pressure was high and the weather dry and calm, while in the latter part the pressure was low and irregular, and there was a good deal of R, but no gales of importance. R ·63 in. above average.

VIII. *Bolton, The Park*. Settled and genial during the first 17 days but with little bright sunshine. On the 18th the temp. fell and continued low till the 23rd, from which date 3·27 in. of R fell. Duration of bright sunshine 41 hours, 19 hours less than the average.—*Southport, Hesketh Park*. Normal in many respects, but excessively calm to the 13th. R a little below the average and mainly confined to the last 9 days; the bulk fell in the day time, which is seldom the case. Ream water (except during the last week) unprecedentedly low for the time of year.—*Seathwaite Vicarage*. The first half of the month was exceptionally warm, the latter portion wet and windy, with one sharp frost on the 21st.

IX. *Thixendale*. Very still till the 20th, with much wet and fog.—*East Layton*. Very wet and dull, with only a limited supply of sunshine. Exceedingly wet from the 23rd to the end, the land being thoroughly saturated.

X. *Whorlton*. Very warm, but much R and little sunshine.—*Ulpha*

Vicarage. Fine weather continued till the 22nd, R having fallen on only 14 days between August 20th and that date ; the last 9 days were very wet. Somewhat severe frost on the 20th and 21st.—*Keswick, The Beeches.* The first half was quite summerlike, but from the 23rd to the close it was stormy and showery.—*Uldale Rectory.* With the exception of the last seven days which were unsettled, the month was warm and seasonable, and free from fog.

XI. *Llwydiarth Esgob.* Very wet ; three falls exceeding an inch in 24 hours, and from 19th to 27th 5·88 in. fell.—*Douglas, Victoria Road.* The unusually fine weather which set in towards the end of August and prevailed through September was maintained to October 22nd, but broke up with severe gales and heavy R on the 23rd and 24th, and it was extremely wet and stormy to the end of the month. The total R from August 25th to October 22nd was only 1·60 in., but during the remaining 9 days of the month no less than 5·27 in. was recorded.

XII. *Melrose, Abbey Gate.* The mean temp. was 1° below, and the R ·70 in. above, the average ; very little R fell till the 20th.

XV. *Craigend Castle.* The first half fine, but showery ; the second half mild and wet.

XVI. *Coupar Angus.* R ·95 in. above, and mean temp. 1°·1 below, the average.

XVIII. *Glenaladale.* A beautiful month and very calm. So fine an autumn is beyond the memory of man in these parts.—*N. Uist, Loch Maddy.* The finest October known on the west coast in twelve years' residence.—*Drumnadrochit.* R much below the average.

XIX. *Scourie.* Fine and seasonable as a whole. Keen frosts occurred on two or three nights, followed by bright sunshine during the day. There were no high winds, which is unusual. Auroras were rather frequent throughout the month.—*Watten.* The first half was fine, dry and mild ; the last half was colder generally, but often mild, with a series of floods and some frosts.

XX. *Coolkelure.* The first three weeks were very fine and dry, winds principally N.E. and E. All the R was from the S.W. Temp. abnormally high.—*Douglas, Villa Franca.* During the last 13 days six inches of R fell.—*Cork, Clarence Place.* The first 19 days had but ·10 in. of R while in the remaining 12 days 5·70 in. fell.—*Nenagh, Castle Lough.* The first part of the month was very fine, then came a cold spell followed by mild weather with R almost every day. In the 53 days ending October 18th only ·53 in. of R fell.—*Hurdlestown.* R

.08 in., and rainy days 4, below the average of ten years. The weather was fine till the 21st, then wet and stormy to the end. A partial drought, unprecedented in the ten years recorded, ended on the 19th, only .51 in. of R having fallen in 54 days.—*Miltown Malbay*. Beautifully fine, sunny, and enjoyable till the 20th, when frost and heavy rains set in, continuing to the end; the R during the last 12 days amounted to 4.41 in.

XXI. *Graigue, Brundondale*. The wettest October since 1888.—*Kilkenny, Sion Villa*. Lovely and very warm during the first half, but exceedingly wet, cold, and stormy in the latter half. Absolute drought for 16 days ending on the 8th.—*Killiney, Cloneevin*. R phenomenal; during the first 16 days only .13 in. fell on three days, while from 17th to 31st R fell every day but 22nd. A severe gale on 20th.

XXII. *Tuam, Gardenfield*. No R till the 9th, which was wet, then mostly fine till the 20th; sharp frost on night of 21st, then mostly rainy. R .10 in. below the average.—*Lauderdale*. From the 1st to 22nd dry and good; from the 23rd to the end very wet.

XXIII. *Belfast, Springfield*. Remarkable for R; after a long spell of dry weather 1.09 in. fell on the 9th, and from the 23rd to the 27th 4.36 in. fell. From August 19th to October 6th the R was only .92 in.

NOVEMBER.

I. *Kensington, Edith Road*. Very warm and fine, in spite of heavy R in the middle; mean temp. 47°.5.—*Muswell Hill*. R .31 in., or 11 per cent., above the average of 22 years, none falling after the 16th except .13 in. on the 20th. Exactly three inches fell during the first 16 days, and 2.05 in. from the 11th to the 14th.—*Finchley, Etchingham Park*. Total R 16 per cent. above the average, all falling in the first 20 days. In the week ending 15th 2.27 in. fell.

II. *Wallington*. The month may be divided into two portions, the first half being excessively wet, warm, and sunny, whilst the last half was dry, cool, and with the exception of the last five days, sunny. R 1.18 in. above the average of five years.—*Hythe*. Very wet to the 20th, with violent S.W. gales from 11th to 14th; from that date gloomy, but fine.—*Keston Tower*. The first 17 days were extremely wet, and the last 13 dry, with light airs from the eastward, and a great deal of mist, but no November fogs.—*Birchington, Thor*. The early part was wet and windy, but generally very mild; frost

occurred on the 22nd and 23rd, and the last 10 days were fine, dry, and very mild.—*Emsworth, Redlands*. The largest R in November (5·93 in.) since 1888. Very stormy from 11th to 14th, with 3·88 in of R.—*Maidenhead, Lowood*. The heaviest flood known on the Thames in the present century occurred this month, the highest point was reached on the morning of the 17th.—*Maidenhead, Castle Hill House*. The wettest month of the year. Gale from the 12th to 14th inclusive. The flood on the 14th rose higher than the flood of 1852. Not much R from the 15th to the end of the month. No frost.

III. *St. Albans, The Grange*. Warm and excessively wet.—*Culham Vicarage*. Fairly dry during the first week, heavy R in the second week, then mostly dry to the end.—*Sedgebrook*. R ·76 in. above the average of 10 years.

IV. *Sudbury, Friars Street*. Unsettled at the commencement; finer after the 17th.—*Ipswich, Bishop's Hill*. The first week was dry and mild, the second week very stormy and wet, especially from 12th to 14th, with high gusty wind and continuous steady R. The last half was dry, calm, dull and colder, but some bright days and slight night frosts. R ·26 in. above the average.—*Woodbridge, The Cedars*. A very open month, with grass and roots still growing. Cold fogs in the last week. L on several evenings in the early part.—*Diss*. Mild weather throughout. A few fogs and slight frosts, but no S. Heavy R and gales in the second week.—*Denver*. Very mild, even warm at first; and very wet during the first half. On the 16th and following days so much water was coming down from Bedfordshire that Denver sluice was unable to discharge the water coming down from Cambridge, and there were serious floods between Cambridge and Brandon.

V. *Warminster, Rye Hill*. Wet and stormy in the first three weeks; fine but hazy in the last. R every day from October 18th to November 20th.—*Bishops Cunnings*. As this station lies high, the heavy R from the 11th to the 14th soon ran off, but from the inability of ditches and culverts to take the water, all roads were flooded on the morning of the 14th in a way that no one had ever before witnessed. R nearly twice the average.—*Dorchester, Godmanstone Manor*. R 10·01 in. On 11th 1·37 in. fell; on 12th 1·55 in.; on 13th 1·51 in.; on 14th 1·31 in.; 5·74 in. in four days. R fell for 30 days in succession, ending November 18th, the amount being 14·75 in.—*Taristock, Rose Villa*. Warm, damp, and very wet; R was measured daily till the 16th amounting to 9·17 in. In the three days ending

9 a.m. on the 14th 5·49 in. fell. A flood three feet higher than for at least 50 years occurred in the river Tamar about midnight on the 12th. Max. temp. failed to reach 50° on only four days.—*Penzance, Trevean*. R 9·61 in., probably the heaviest in the century and causing such floods as were a new experience in West Cornwall.—*Redruth, Trevegie*. In the first 14 days, 8·25 in. of R fell, and considerable damage was done by floods in the valleys.—*Empacombe*. Exceptionally rainy. On 7th 1·08 in. fell; on 11th 1·90 in., and on 13th 1·25 in. These rains caused very disastrous floods. In the 26 days ending on 14th, 12·00 in. of R fell.—*Stowell Rectory*. Very wet, with the greatest R ever observed in November, 6·83 in. Mean temp. 2°·7 above the average.

VI. *Clifton, Pembroke Road*. The total R from October 20th to November 14th (26 days), was 8·67 in., during which period R fell on every day but two. A similar period occurred in 1875, when 9·57 in. fell from October 18th to November 14th (28 days). The almost exact coincidence of date is remarkable.—*Further Barton*. Mild, with frequent gales, and R every day, except the 6th, till the middle of the month; 2·30 in. fell on the 12th and 13th, and in the first 14 days 5·32 in. The last ten days were calmer and colder, with E. wind. Dahlias &c., in bloom, and birds singing until the close.—*Hempsted*. Serious flooding owing to persistent R. For the eight days ending the 14th, the fall averaged nearly ·45 in. per day.—*Cheltenham, Naunton Park Villas*. Wet and very mild. From October 23rd to November 14th R fell every day but two; total 6·81 in.—*Ross, The Graig*. The wet weather which set in on October 23rd, with 4·43 in. of R in nine days, continued till November 20th. On the 15th at 8 p.m., the river Wye was in high flood, say 14 feet above summer level. It was 2 feet 7 inches lower than in February, 1852, and also on November 15th in the same year. It was about the same height this month as in December, 1869, February, 1882, and May, 1886. The last part of the month was very dry and pleasant, the sky, notwithstanding the storms and wet, was less cloudy than usual in November. Frost on only one night. Temp. very high.

VII. *Ketton Hall*. Very dull, but exceptionally mild and open. R ·47 in. more than the average. The Rivers Welland and Chater were much swollen and the meadows submerged for several days.—*Hodsock Priory*. Dry and very mild, with a large proportion of S. and S.W. winds and about normal sunshine. R ·74 in. below the average. The first part was unsettled, without much R; during the latter part

pressure was high and the last 10 days were rainless. Mean temp., the highest recorded in November except in 1881. An unusual absence of frost.

VIII. *Southport, Hesketh Park*. Extremely warm, S. winds greatly preponderating. Mean temp. fully 4° above the average. Earth very warm. R slightly in excess of the average, but very little fell after the first fortnight. A marked rise in the level of the Ream water.—*Seathwaite Vicarage*. Very wet and mild, with but two slight frosts and no S. The 30th resembled a genial spring day, and 20 species of wild flowers were observed in blossom in the course of a walk.

IX. *Thirskdale*. Remarkably mild.

X. *Ulpha Vicarage*. Very wet and generally mild, the temp. in shade seldom falling below 40° .—*Uldale Rectory*. Very mild and open, with neither frost nor S. All agricultural operations very forward.

XI. *Llanfrechfa Grange*. R and number of rainy days rather more than usual, but there were no floods beyond what frequently occur in the low land. The latter part was favourable for agriculture.—*Douglas, Victoria Road*. Extremely mild, with many summer flowers in bloom at the close. R fell daily (except 5th) from October 23rd to November 19th, yielding 9.62 in. From the 19th to the end fine weather prevailed.

XII. *Lilliesleaf, Riddell*. A showery month, calm on the whole; prevailing winds S.W. The last 10 days very dry.—*Melrose, Abbey Gate*. An exceedingly fine month, the mean temp. being $2^{\circ}.5$ above, and the R .48 in. below, the average. Wind S. or W. on 27 days.

XIII. *Edinburgh, Bucket Place*. Very fine; mean temp. ($46^{\circ}.0$) $4^{\circ}.9$ above the average and only twice exceeded in 131 years, viz.: in 1818 ($47^{\circ}.1$) and in 1881 ($46^{\circ}.3$). R only half, and amount of sunshine nearly double, the average. No S.

XV. *Craigend Castle*. Wet and mild.

XVI. *Coupar Angus*. Remarkably mild, the temp. being 5° above that of 1893 and 3° above the average. The mildest November since 1881, and many summer flowers surviving the October frost were in full bloom again in the first week. R fell sparingly till the 21st when fog set in, followed by bright, mild, sunny weather.—*Ballintuig*. A mild, damp month; with little frost and no S.

XVIII. *Glenaladale*. Mild and wet, but not very stormy; the last week beautiful.—*N. Uist, Lochmaddy*. Prevailing winds S.E. and S.W., but on the whole not nearly so strong as is usual in November.

Notwithstanding a little R on 27th and 28th the weather from the 22nd was exceptionally good.

XIX. *Watten, H.R.S.* Dry, fresh, open and fine throughout; noted for the number of fair days. The ground exceptionally dry for November.

XX. *Coolkelure.* The first 3 weeks were very wild and stormy, with heavy R. Wind chiefly S.W. or W.—*Cork, Clarence Place.* R one-and-a-half inches above the average, 3·52 in. falling in the week ending on 19th. The end of the month was foggy.—*Hurdlestoun.* The first 3 weeks were very wet, and the total fall is 1·21 in. above the average of 10 years. The last week was fine but cold.—*Miltown Malbay.* Rainy, with much H and low temp. Rather blustery to the 23rd, but no great gales: from that date calm, mild, fine and sunny.

XXI. *Kilkenny, Sion Villa.* Fairly fine throughout, but cold and stormy. Bright at the close, when frosts set in.

XXII. *Tuam, Gardenfield.* Some R on nearly every day to the 20th, the rest fine and dry. Severe frost on the last two nights. R ·57 in. below the average.—*Lawderdale.* A very wet and inclement month.

XXIII. *Curragh.* Very mild and favourable for the garden, with no severe storms and no frost.

DECEMBER.

I. *Kensington, Edith Road.* Very mild, the warmest December in 11 years. Mean temp. 41°·9.—*Muswell Hill.* R less than 2 per cent. above the average of 22 years. More than three-fourths of the total fell in the 11 days, 11th to 21st.—*Finchley, Etchingham Park.* The first 12 days were generally dry, while in the next 9 days R fell on all but one, and during the last 10 days R fell on 5. The total slightly exceeds the average.

II. *Abinger Hall.* Mild and open throughout, with very slight frosts.—*Wallington.* Comparatively dry, sunless and cool, with no S and no fogs to speak of. Average cloud; R ·35 in. below, and mean temp. 5°·0 above, the average.—*Hythe.* Very mild and showery till the 28th, thence to the end sharp frosts and snowfalls.—*Keston Tower.* An ordinary December. Mild, except the last five days. A heavy gale on 22nd did much damage.—*Birchington, Thor.* Very mild with fogs on several days, and N.W. gales in the latter part. Frost at the end with S squalls.—*Sheppen, Leysdown.* Generally fair and mild, with

gales and strong winds ; very cold on the last two days.—*Ditchling*. Generally damp and mild, but sharp frost at the end.—*Emsworth, Redlands*.—Foggy, and unusually warm.—*Maidenhead, Castle Hill House*. Mild, with gales on the 21st and 22nd.

III. *St. Albans, The Grange*. Very warm, with S on only one day.—*Culham Vicarage*. A fairly dry month, with high temp. Slight frost on one or two mornings.—*Orford, St. Giles'*. For the most part mild and open, turning cold on 28th, with S.—*Blochem Grove*. The month opened with fair weather, but with gloom and fog. From the 11th to the end there was some amount of R almost daily, with two or three fine and clear days at intervals. There were frosts on several mornings, but the weather was mostly mild and open. Slight S and frost set in on 29th. Very heavy S.W. gale at night on 21st.—*Sedgebrook*. R 20 in. less than the average 1880–89.

IV. *Sudbury, Friars Street*. Mild, with hardly any frost till 29th, then S showers.—*Ipswich, Bishop's Hill*. The first half of the month was calm and mild, with some showers ; the second half dull, misty, and foggy, with squally showers ; heavy gales on 22nd and 29th, and S on 30th and 31st, about 3½ inches in the aggregate. R half-an-inch above the average.—*Bury St. Edmunds*. The first few days were fine and cold, but the month was mild on the whole, winter weather setting in with S on the 29th. Much fog and very little sunshine.—*Diss*. A warm, moist month. R generally slight on 23 days, but heavy on 14th and 31st. Primroses, violets, chrysanthemums, and laurustinus in flower up to the 30th. Heavy westerly gales on 22nd, 28th, and 29th.—*Norwich, Cantley*. Abnormally mild ; very stormy in the latter half and S on the last two days. Fog on four days.

V. *Warminster, Rye Hill*. Mild and gloomy ; very little frost and very little sunshine.—*Bishops Cunnings*. A warm month ; no severe frosts till the 30th. R 13 in. more than the average.—*Tavistock, Rose Villa*. Warm and rather wet, with R almost every day after the 5th ; but a period of 13 consecutive dry days ended on that date. The temp. rose above 50° on 11 days.—*South Molton, Rose Ash*. Mild on the whole, with some beautiful sunny days. Fuchsias untouched by frost till 31st. Some heavy gales and H storms towards the end.—*Stowell Rectory*. Very warm, with a little more than average R.

VI. *Further Barton*. Changeable, with very little frost. A violent gale on 22nd, and S for the first time on 29th.—*Ross, The Graig*. R about one-fourth less than the average, but rainy days quite the average. Temp. very high both by day and night, with little exception

from 3rd to 29th. Anemones and other flowers in good bloom at Christmas. Violent gales on 22nd and 29th.

VII. *Ketton Hall*. Very changeable and exceptionally mild at times. Violets, primroses, aconites, &c., blooming on the shortest day. R .36 in. below the average. The garden spring commenced running after being almost dry for 6 months.—*Hodsock Priory*. The warmest December since 1876 ; no S or frost of consequence till the last few days. R .58 in. below average.

VIII. *Bolton, The Park*. Mild, wet, and towards the close, stormy. Mean temp. 6°·5 above the average, and only once exceeded in December in 9 years. Duration of sunshine, 30 hours, the greatest amount in December since 1886.—*Seathwaite Vicarage*. Mild and wet, with more than the average R ; likely to be remembered for the prolonged violent gale on 21st and 22nd.

IX. *East Layton Hall*. Very mild, spring flowers peeping up in all directions.

X. *Ulpha Vicarage*. Mild generally, with frost from 2nd to 5th and on 30th and 31st. R heavy, considering the number of days without any.—*Keswick, The Beeches*. The first 6 and the last 3 days were fine, bright and frosty ; the remainder of the month was showery and at times very wild, especially on the 13th, 22nd and 28th.

XI. *Llanfrechfa Grange*. Mild at the beginning and warm in the middle, followed by two severe gales. No frost till the 30th.—*Llanvihangel Court*. Gloomy, sunless and unseasonably warm, except at the beginning and end. Wind constantly backing from W. or N.W. to S. and S.W. with R, though not very heavy.—*Douglas, Victoria Road*. Extremely mild, with a fair amount of sun and quiet weather to the 9th, but a wet month throughout. Gales occurred on 8 days, those of 21st and 22nd, and 28th to 30th being exceptionally severe. The first frost occurred on the 30th.

XII. *Melrose, Abbey Gate*. Average R and mean temp. (33°·4) 1°·3, above average. S. or W. wind on 26 days ; many gales, that of 22nd being very severe.

XV. *Craigend Castle*. Wet and stormy. Gale on 21st and 22nd damaging trees, &c. First S on 29th.

XVI. *Coupar Angus*. R slightly below, and mean temp. 2°·7 above, the average.—*Ballinluig*. Very mild, almost free from S until the 29th.

XVIII. *Glenaludale*. Wet and generally very mild ; two or three violent gales in the last 10 days. S on the last 4 days.—*Loch Muibly*.

The first three weeks were normal, the last 10 or 12 days extremely rough.--*Drumnadrochit*. Remarkable for absence of frost ; primroses, daisies, &c., being in bloom, and grass growing vigorously.

XIX. *Watten, H.R.S.* The first 3 weeks were open and mild, followed by storms of wind and R. Heavy gale and S storm from 28th to 31st.

XX. *Cork, Clarence Place*. R .98 in. less than the average. The only S was about an inch on 31st. Mean temp. $2^{\circ}\cdot5$ above the average. Disastrous gales on 21st and 28th.--*Fermoy*. Generally fine up to the middle of the month, when intermittent heavy showers fell, followed by stormy weather to the close.--*Hurdlestown*. Wet and mild, with the exception of the last 10 days which were very cold. R .22 in., and rainy days 3, above the average of 10 years.--*Miltown Malbay*. On the whole moist, with high temp. till the last week, but boisterous and stormy.

XXI. *Kilkenny, Sion Villa*. Wet, very damp and stormy, and curiously mild, especially during the week ending the 26th. Sharp frost set in on the 27th. Severe gales on the 22nd and 29th.

XXII. *Tuam, Gardenfield*. Fine, with sharp frost till the 6th ; R daily from the 7th to 20th, T on 18th, severe gale on night of 21st. From 24th to 26th, fine and mild ; then R to the 29th, and S on the last 3 days, 5 inches deep on the 31st. R .37 in. above the average.
--*Lawderdale*. Stormy, wet and cold.

XXIII. *Carrabluagh*. Mild warm weather till Christmas. On the Friday before (21st) the most violent storm remembered, devastated this district, unroofing houses, blowing down trees and stone walls in all directions ; while on the Friday after (28th), with a N.W. gale a tidal wave rose fully 6 feet higher than any other known, and did much harm along the coast.

OBSERVERS' NOTES ON THE YEAR 1894.

ENGLAND.

DIVISION I.—MIDDLESEX.

TEDDINGTON, GOMER HOUSE.—Wet and cold, but not unprecedentedly so. The great flood in the Thames from November 15th to 18th must have been caused by heavier falls westward and by general saturation. Many wetter half months are remembered than the first half of November was at this station.

TWICKENHAM, STRAWBERRY HILL.—The abnormal fall of 1894 was on July 29th (2·33 in.) Nearly two inches fell in 90 minutes, between 0.20 p.m. and 1.50 p.m. The latter half of March and first half of April were almost free from R, while the fall in November was rather more than ·50 in. above the average of 6 years, though no R fell in the last 11 days.

KENSINGTON, EDITH ROAD.—Warm on the whole, the mean temp. being 50°·8, but unluckily the months May to September inclusive were all below the average. The R was slightly exceeded in 1886 and 1891, but the number of rainy days (198) is the greatest recorded. Absolute drought for 17 days ending April 1st and for 16 days ending December 6th ; partial drought for 30 days, with ·29 in. of R ending April 13th.

WESTBOURNE GROVE.—A wet year, but with only one fall exceeding an inch in 24 hours. The number of wet days, however, was considerable, 183.

CANONBURY.—July, August, and October were wet, March and September were comparatively dry. Falls exceeding an inch occurred on only two days. Very light falls of S.

MUSWELL HILL.—The R exceeds the average of 22 years by ·07 in. only. Seven months, January, April, July, August, October, November, and December had an excess. February, March, May, June and September a deficiency. January had the greatest excess, 39 per cent., and October 25½ per cent., no other month more than 15 per

cent. September showed the greatest deficiency 1·40 in., or $57\frac{1}{2}$ per cent. There were absolute droughts during the last 17 days of March, and from November 21st to December 25th, and one partial drought of 30 days ending April 13th, during which ·28 in. of R fell. Though no month exceeded its average by as much as 40 per cent., there was a very wet period of 28 days ending November 16th, during which time 6·27 in. fell. There was only one fall exceeding an inch in 24 hours. The number of days on which R was recorded is one more than the average.

FINCHLEY, ETCHINGHAM PARK.—The total R is just about the average, but the year appeared to be wet as there were 198 rainy days, which is between 6 and 7 per cent. above the average. There were two absolute droughts March 16th to April 1st, 17 days, and November 21st to December 5th, 15 days, the latter ensuing immediately on the cessation of the very wet period of 33 days from October 19th to November 20th with 6·51 in. of R; equal to nearly 23 per cent. of the year's total. There was a partial drought of 30 days ending April 13th with ·26 in. of R. There was only one fall in 24 hours of more than an inch. The R was in excess in January, April, October and November, close to the average in February, July, August and December, and there was a deficiency in March, May, June and September.

DIVISION II.—SOUTH-EASTERN COUNTIES.

HASLEMERE.—The largest R since 1877. In the 29 days ending on November 16th, during which period there were only two days without R, 10·51 in. fell.

HASLEMERE, HAZELHURST.—Mild and wet early, with cold snaps in the first part of January with heavy S, and in the latter part of February. A dry seed time and favourable spring gave good promise. A hot spell at the end of June and early in July gave a grand haytime. Wet followed to the end of the year, culminating in 10·89 in. of R in 29 days ending November 16th, and a total of 43·78 in. on 208 days. December was very mild and roses and many other flowers were in bloom on Christmas day.

HASLEMERE, GRAYSWOOD HILL.—The wettest year since observations commenced in 1884.

GODALMING, HASCOMBE.—As remarkable for R as 1893 was for drought, the fall being 7 inches above the average and 14 inches

above 1893. The R at hay and corn harvest was exceptionally heavy, and but for 10 fine days in June and July the hay would have been spoilt ; there was a very heavy crop of straw but the yield, owing to the absence of sunshine, was not commensurate.

CRANLEIGH COMMON.—January and July were very wet, there being 25 rainy days in the former and two very heavy falls in the latter. From October 19th to November 17th there were only two days without R, and 9·49 in. fell. The year generally was cloudy and damp with very little sunshine.

GODALMING, WITLEY.—A very wet year, but with few TSS, and none severe. N.E. wind prevailed from March to the middle of June. Summer weather for a fortnight during the end of June and beginning of July. Much mist and fog in April, August, September and October. Very mild in late autumn.

ABINGER HALL.—A striking contrast to 1893 both as regards amount of sunshine and R. A mild spring was followed by a cold, wet and dull summer. The hay crop was heavy and good where cut early ; corn crops fairly good and straw plentiful. Fruit fairly good.

THE BOURNE VICARAGE.—The greatest R since 1880, and 7·97 in. above the average of 10 years.

GUILDFORD, PICCARDS ROUGH.—The wettest year of the 12 recorded, the R being about seven inches above the average. No month yielded less than 1·24 in., and July, October and November much exceeded the average.

REIGATE, DOODS.—Wet, cold and ungenial, with the largest aggregate R in the 13 years recorded. There were four falls exceeding an inch, July 10th, October 30th, and November 12th and 14th.

NUTFIELD, HOLMESDALE.—The heaviest R since the record commenced in 1887. There was a partial drought of 25 days ending April 10th, with only ·02 in. of R.

HIGH ASHURST.—January came in extremely cold with frost and S, accompanied by bitterly cold wind, and owing to previous mildness the frost did much damage. The latter half of March and first half of April were very fine, dry and hot, with remarkably clear sky. The frosts on May 21st and 22nd will not soon be forgotten, forest trees and all vegetation being much damaged. The latter half of the year, was notably deficient in sunshine.

CAMBERLEY, HEATHCOTE.—R 8·53 in. above the average of six years.

KENLEY, INGLESIDE.—R 5·38 in. above the average of seven years, the excess occurring in 8 months. In 24 days ending November

14th, 8·53 in. of R fell. In the night of May 20th-21st a severe frost took place, accompanied by strong dry N.E. wind, causing much damage to vegetation. Heavy gales occurred in the latter half of December, especially on 22nd.

WALLINGTON.—A remarkable year. The R is the heaviest since the record began in 1882, with the exception of 1891. The average max. in shade ($57^{\circ}1$), with the exception of 1893, the average min. in shade ($42^{\circ}6$), the average min. on grass ($40^{\circ}4$), the mean temp. ($49^{\circ}9$), with the exception of 1893, and the amount of cloud (7·2), are the highest registered since 1885.

DYMCHURCH RECTORY.—Great excess of R at night. Falls in the day occurring on 80 days, and in the night on 136. An unusual amount of sunshine in the autumn.

TENTERDEN, SUMMERHILL.—Intense frost during the first week in January, mild afterwards and a splendid spring, with hot sunshine till May, followed by a wet, cold, unsettled summer and very mild autumn. Very wet in October and the first part of November, causing some of the heaviest floods remembered. A disastrous year for agriculture.

TENTERDEN.—A wet year. January, September and the latter part of April wet, and July the wettest for 32 years. August, R below the average, but a bad harvest month owing to number of wet days and low temp. From October 20th to November 15th nearly seven inches of R fell. Remarkable absence of S which fell on only 5 days, and frosts on only 36 nights in screen and 87 on grass, yet only 31 days had a max. temp. of 70° or more. The total duration of sunshine was 1,618 hours, August, September and October were very deficient, but there were over 200 hours in March.

CRANBROOK, HARTLEY.—R 6·55 in. above the average of 25 years. The six months, June to November, all had more R than the average of 25 years. In 23 days ending November 15th, 7·54 in. fell, and in the 5 days ending on same date, 3·66 in.; 1·96 in. falling in the 24 hours ending 9 p.m. on 12th.

HYTHE, FROGHOLT.—The persistent dull sky and R in the latter half (during the months usually associated with fine weather and harvest) was the feature of the year.

ACRISE.—Falls of an inch in 24 hours occurred on six days, the only other years with as great a number being 1872 and 1877.

TUNBRIDGE WELLS, CAMDEN PARK.—R 7·95 in. in excess of the average of 10 years. The first half year yielded only 14·33 in., while

the latter half gave 23·28 in. The most remarkable period in 1894 was from October 19th to November 17th, which 30 days yielded 9·78 in. of R, being the highest on record. The temp., until late in the year, was extraordinarily mild, rosebuds opening in the garden on Christmas Day.

MAIDSTONE, MOUNT HOUSE.—The R is the heaviest since 1872, but in that year nearly seven inches more fell.

SHELDWICH.—The wettest year since the record commenced in 1873.

OSPRINGE, LORENDEN.—The heaviest R in 29 years, with the exception of 1872; it is also phenomenal to have five falls of over one inch, and the number of wet days has only twice been exceeded.

KESTON TOWER.—The first week in January was very cold, and a severe frost on May 21st destroyed all prospects of strawberry and other fruit crops. The summer and autumn were cold and wet, the R on October 30th, 1·73 in., being the heaviest on record.

ASH, PETTINGS HOUSE.—Much the wettest year since observations began, especially wet in July, October and November. Very little sun and September very foggy, more like November; very bad for harvest. Between October 24th and November 15th, 6·62 in. of R fell.

RECVLVER, BROOK.—The continuous R from May 26th to June 20th, and again from July 8th to August 12th, was most disastrous to what promised to be the best crops all round for many years. Fortunately the fall in November was not so heavy as in many places, and although there were slight floods the ground soon dried.

ST. PETER'S.—Notorious as this soil is for its powers of absorption, certainly this year it might lose its character, for the ground through July and August was never dry. The growth of shrubs and grass was remarkable.

MARGATE, APSLEY HOUSE.—R 1·25 in. above the average, and number of rainy days, 186, being the most recorded. The summer was very dull.

CHISLEHURST.—More R than in any year since 1880, when the record was commenced. This is the third time that the October fall has been exactly 4·70 in.

ROCHESTER, HOO ST. MARY.—The first six months were most encouraging for a bounteous harvest, but after a fortnight's summer and sunshiny weather, all hopes were blighted by a heavy TS on July 6th, which seemed to break up the fine weather for the rest of the

summer, and rainy weather with great absence of sunshine continued till the middle of November. There was no frost to injure vegetation till the new year.

ERITH, CROSSNESS.—Chiefly remarkable for the dull weather, heavy gales, and absence of sunshine. TSS were rare and there was very little frost and S.

CHICHESTER, WESTGATE.—R 9·99 in. above the average, and the largest in 50 years, excepting 1852, when ·37 in. more fell.

ARUNDEL, THE PARADE.—R 9·57 in. above the average of 10 years.

SELHURST PARK.—The largest total R yet recorded here. Five daily falls above an inch and two above two inches.

BORDEN WOOD.—The seasons were generally remarkable for want of sunshine. The hay crop was good, but corn yielded badly, and fruit was seriously injured by frost on May 20th and 21st.

MIDHURST, LYNCH FARM.—More than half the total R fell in the four months, January, July, October, and November. There were 5 days on which the fall exceeded an inch. Very few TSS or gales.

HORSHAM, MANOR HOUSE.—R 42·18 in., the highest previous record since 1874 being 36·56 in. in 1886.

EASTBOURNE, WILMINGTON SQUARE.—The wettest year since the gauge was started in 1885 the fall being 7·82 in. above the average of nine years.

WINCHELSEA, THE FRIARS.—A late summer for flowers, but foliage was luxuriant. The autumn was mild and damp, with floods at the end of October, and all kinds of flowers in bloom till Christmas.

CROSS IN HAND, MONTPELLIER.—A very wet year, with R nearly nine inches above the average.

MARESFIELD, FOREST LODGE.—The R during the year was 5·41 in. in excess of the average of 38 years ending 1893 ; for although March was ·30 in. in defect of the average ; May, ·57 in. ; June, ·01 in. ; August, ·51 in. ; and December ·53 in. ; the following months were in excess : January, 1·74 in. ; February, ·01 in. ; April, ·23 in. ; July 2·48 in. ; September, ·10 in. ; October ·14 in., and November, 2·66 in. Falls exceeding an inch occurred on five days.

CROWBOROUGH OBSERVATORY. - The R of the year was 5·32 in. above the average of 24 years, and was heavy in the months of July, October, and November. Haymaking could not be said to be completed until the latter part of September — the latest remembered. The frost in May was scarcely felt on this hill, but on lower ground was very severe.

WORTH RECTORY.—R the heaviest in 21 years, except 1891, and 8·35 in. above the average of 14 years.

BONCHURCH, THE LILIES.—The year altogether was a wet one, and very mild, with high winds, mostly S.W. Crops did fairly well, pears and potatoes were abundant.

OSBORNE, NEWBARN COTTAGE.—Exceedingly wet, especially at the end of October and beginning of November, and the total fall has only once been exceeded in 37 years, viz., in 1872.

CHRISTCHURCH, MUDEFORD.—The wettest year since 1872, with the heaviest fall in 24 hours ever recorded here, viz., 2·30 in. on August 24th.

LYMINGTON, PENNINGTON.—R 6·12 in. more than the average of six years. From September 25th to October 20th only ·03 in. of R fell, whilst from October 20th to November 16th R fell every day amounting to 9·30 in.

EMSWORTH, REDLANDS.—R 9·61 in. above the average of 11 years.

NETLEY.—Total R 36·66 in, while in 1893 only 23·95 in. fell; the mean of the two is very near the average for Netley. On two days in November more than 1·25 in. fell, while on no other day did the fall reach an inch.

WICKHAM, WEST LODGE.—The R exceeds the average by 5·55 in. A period of 19 days absolute drought occurred from March 16th, and in the 27 days ending November 17th, R fell daily, twice exceeding an inch; and six times exceeding ·60 in.

TYLNEY HALL.—About the average R. The hay was very late and nearly all spoilt by persistent R in July; the harvest also was late and damaged by R, while the frosts in May destroyed nearly all the fruit.

HECKFIELD, PARK CORNER.—The heaviest R in any year since 1879.

SUNNINGHILL, LYNWOOD.—An unusually wet year, particularly the latter half. R about eight inches more than the average, falls exceeding an inch occurring on four days. July and October were the wettest months, but the most flooding rains occurred in the early part of November, with severe gales.

KINTBURY.—The early part of summer was very warm, but the latter part cold and dreary. Severe gales with TSS occurred in October and November. Only half-an-inch of S fell during the year.

HUNGERFORD, DENFORD PARK.—Abnormal R in July and October, but otherwise an average year, although August was most

unseasonable, preventing filling and ripening of grain. Springs at the end of the year were very high.

WINDSOR, ROYAL GARDENS.—Very dull, cold, and wet ; the heaviest R since 1879.

READING, PORTLAND PLACE.—January was remarkable for the very severe but short spell of cold in the first week ; after the 8th the weather was mild and showery, and this continued, with the exception of a short frost from February 18th to 22nd, till March 15th, when there was a month of dry bright weather. The latter half of April was showery, and the spring was very favourable till May, which was colder than April, and the frosts on the 21st and 22nd did much damage, as did a severe H storm on the 30th. The summer was disappointing, both for haysel and harvest. July and August were wet, and September and October were very sunless ; remarkably heavy rains fell from October 24th to November 15th (nearly nine inches in three weeks), causing extraordinary floods in the Thames valley. December was damp and showery, with very little frost till the last two days. The first S fell on the 29th.

READING, EAST THORPE.—R 7·29 in., and number of wet days 39, above the average of 10 years.

MAIDENHEAD, LOWOOD.—R six inches above the average.

DIVISION III.—SOUTH MIDLAND COUNTIES.

ST. ALBANS, THE GRANGE.—R about five inches above the average. There was no very dry month, although there were two absolute droughts of 15 days, and one partial drought of 30 days. February, June and September were the driest months, averaging 1·89 in. August, October, and November were the wettest, averaging 4·04 in.

BERKHAMSTED, ROSEBANK.—The wettest period was from October 23rd to November 14th, with 7·53 in. of R ; and the driest period between March 14th and April 14th, when only ·23 in. fell. S fell on only eight days, and was deepest on January 6th, when it lay to the depth of $3\frac{1}{2}$ inches. The wettest day was November 12th, when the R amounted to 1·58 in. ; the heaviest fall in any day during the ten years over which observations extend. The wind was highest on February 11th, the velocity recorded for a single hour amounting to 43 miles, direction W.S.W. The two brightest months were March and May, when the sun shone on an average

for $5\frac{3}{4}$ hours a day. The air was driest on June 30th, the relative humidity at 3 p.m. falling to 38. Fog was thickest on December 4th and 9th, when a house became invisible at a distance of 25 yards.

BUNTINGFORD, HAMELS PARK.—The year was of a dull and sunless character, except the end of March and beginning of April, which were particularly bright. A remarkable frost occurred on May 21st and 22nd. There were few TSS.

THROCKING RECTORY.—R exactly 1.00 in. below the average of the 15 years, 1880–1894. July shows a deficiency of .95 in., September of .64 in., and October of .67 in., while in November there was an excess of 1.01 in. All the remaining monthly falls are within half-an-inch of the average.

SLOUGH, LANGLEY.—R 3.47 in. more than the average of 22 years. In the 22 days ending November 14th, 6.88 in. fell, beating the previous record for that time.

HEDSOR.—January was very wet. Dry periods occurred from March 15th to April 14th, and from June 21st to July 7th. July and August were very wet, and extremely heavy rains fell between October 24th and November 20th (7.63 in.) causing the highest floods on record in the Thames Valley. May was extremely cold and unseasonable, sharp ground frosts occurring on 21st, 22nd, 28th, and 31st.

WINSLOW, ADDINGTON.—Sharp frost occurred during the first week of January, and in the third week in February; after that there was no severe frost throughout the year, but a slight frost with N.N.E. wind on May 21st did an immense amount of damage to fruit blossom. The autumn was dull and damp, and what fruit escaped the frost ripened indifferently.

WOBURN SANDS, SANDYMOUNT.—R about the average of 13 years. March and April were the driest, and November was the wettest, month.

CAVERSHAM, CANE END.—From March 16th to April 14th only .14 in. of R fell, and the crops suffered from want of water; again, from June 21st to July 7th only .05 in. was measured, and the crops began to want moisture, but rains set in, and in 50 days 6.28 in. fell. From August 26th a spell of fine weather enabled much corn to be carried. From October 23rd R fell daily till November 19th, 8.46 in. falling in the 26 days.

HENLEY, ASSENTON.—Dry and bright to the end of May, then very gloomy and cold for summer. The autumn was wet; in

October there were only 12 days without R, and from 23rd to November 17th 8·64 in. fell, causing great floods on the Thames.

CULHAM VICARAGE.—A dry spring and wet summer, with little sunshine. The autumn was remarkable for the heavy R at the end of October and on the 12th and 14th of November, causing the highest floods in the Thames since 1821. R 5·50 in. more than the average.

PYRTON MANOR.—R about five inches above the average, the excess falling in the latter half of the year. There was total drought for 15 days from March 15th, and from October 23rd to November 14th 7·89 in. of R fell.

BLOXHAM GROVE.—R slightly above the average. April was the most pleasant spring month, and the latter part of June was fine and summerlike. July and August were gloomy and wet, and very injurious to the crops. The autumn was gloomy, with heavy R and floods and hard gales on two occasions.

BLOXHAM.—Wet, the showers being very heavy, and great want of sunshine and high temp. The R was much needed to fill the springs.

STOKE BRUERNE RECTORY.—A year of little heat, and R somewhat above the average. July and August were unfavourable months.

EASTON MAUDUIT VICARAGE.—Drought threatened up to July 22nd, and big brooks and rivers seemed quite unaffected by any rains between February 17th and October 25th. The quantity of S was very small, the ground being never really covered. There were four falls exceeding an inch in 24 hours, but the largest fall in any rainfall day was ·93 in.

THRAPSTONE, HARGRAVE.—Immense land produce, owing to the compulsory fallow of 1893, but saved with great difficulty, owing to the R.

KETTERING, HEADLANDS.—R 2·99 in. less than the average of 10 years.

WELFORD, SALFORD HOUSE.—On the whole a good year, both for the farm and garden. Very mild throughout.

WELDON GRANGE.—The opening months were bright and promising, the summer was cold and sunless, and the autumn mild, damp, and foggy.

MAXEY VICARAGE.—The longest dry period was 22 days ending April 7th, and the longest wet period 12 days ending November

3rd. Over $\cdot 50$ in. fell on nine days, but the max. fall was only $\cdot 79$ in.

BEDFORD, ST. PETER'S STREET.—In other years there has been as much or more R during the harvest months, but July and August this year were exceptionally dull, with scarcely any sunshine, and R fell on 53 out of 92 days.

TRUMPINGTON.—The year began very favourably for farmers, as regards the R, until May 26th, the fall being light, but after that the prospects were blighted, the R, although not much above the average, continuously falling in small quantities, and keeping everything wet.

DIVISION IV.—EASTERN COUNTIES.

UPMINSTER HALL.—Warm in the early spring; summer temp. remarkably low; autumn mild, with gales and absence of TSS.

WALTHAMSTOW, PROSPECT HILL LODGE.—Notwithstanding the cool and rather wet summer, the very mild early spring and autumn bring the mean temp. very nearly up to the average.

COLCHESTER, LEXDEN.—The spring was warm, dry and forward; the summer rather cool, and September notably so. October, November and December were mild and humid, without excessive R if one week in November be excluded, when considerable floods occurred. There was a notable absence of severe frost. In 33 days ending April 16th, only $\cdot 24$ in. of R fell.

BRAINTREE, FENNES.—R about $1\cdot 60$ in. below the average, the only months with an excess being July and November. Absolute drought prevailed for 22 days from March 20th, and 15 days from June 21st; partial drought for 40 days from March 15th, with $\cdot 31$ in. of R.

IPSWICH, BISHOP'S HILL.—R $\cdot 14$ in. above the average. January, February, March, May, September, and October each had less than the average fall, while the remaining months, and especially July, had more than the average. The heavy R in July played havoc with the corn crops.

HAWKEDON RECTORY.—The end of March and beginning of April were very fine, with absolute drought from March 17th to 31st, and partial drought from March 16th to April 14th inclusive, which made one dread a repetition of the droughty summer of 1893, but the remainder of the year was generally very cloudy with low temp.,

excepting the latter part of June, which was very hot for a week or so. The year was remarkable for its number of rainy days (220), but no fall exceeded .94 in.

WALSHAM-LE-WILLOWS.—It is remarkable that the amount of R which fell in July, September and October was somewhat less than in 1893, yet the general impression was that of a wet summer, while that of 1893 was held to be a remarkably dry one.

BELTON [YARMOUTH].—There was an intensely cold week at the beginning of January, followed by a long cold spring, a dreary, wet summer, and a fine sunny autumn.

DISS.—The first week of the year was very cold, with the ther. at zero on the 5th. Warm with heavy gales in February. Brilliant weather with drought in March and April. A large hay crop and plentiful harvest, the latter delayed by R, H and TSS in the late summer. A mild autumn and a wet and warm December, with garden flowers in bloom to the end. The first S fell on December 29th.

GELDESTON.—R about 1.50 in. more than the average, the fall being in excess in April, May, June, July, August and December. Crops magnificent till the end of May, afterwards R and cold spoilt them.

YARMOUTH, MARKET PLACE.—R .33 in. above the average of 25 years. Absolute drought for 27 days from March 16th.

NORWICH, ESSEX STREET.—The early spring was mild, with hawthorn in bloom by May 1st. The summer was unusually cool and cloudy with slow harvest weather, and fruit did not ripen well.

BRUNDALL.—The R was in close agreement with the average, but the number of days with R was the largest recorded, the next on the list being 1888 with 213 days.

EAST DEREHAM.—A perfect contrast to 1893. With the exception of a sharp spell at the beginning the winter was a mild one. A fine warm spring was followed by a summer and autumn with frequent R. December was unusually mild, with but little variation of temp. Total R about four inches above the average.

BYLAUGH PARK.—In 1893 there were 165 rainy days, while in 1894 there were 165 dry days.

AYLSHAM, WOODGATE.—The most striking feature of the year was a drought of 27 days commencing March 15th, the effect of which was still visible at the close of the year, in the lowness of the springs and ponds in spite of recent heavy R.

NORTH WALSHAM, WORSTEAD.—A dull, cheerless year. September was in striking contrast to what was experienced elsewhere, it was gloomy, dull, cold and wet.

DIVISION V.—SOUTH WESTERN COUNTIES.

MERE DOWN.—A decidedly wet year, but favourable to vegetation.

MAIDEN BRADLEY.—Exceptionally wet, the number of rainy days being the greatest recorded here, and exceeding the previous maximum in 1888 by 15. More than an inch of R fell on seven days, and from October 19th to November 17th every day was wet, with a total of 12·07 in.

AMESBURY, FIGHELDEAN.—The phenomenon of the year was the 25 consecutive wet days from October 23rd, with a fall of 10·38 in. Twice during this period, viz., in 24½ hours, ending 6.30 p.m. on November 12th, and in 22 hours ending 4 p.m. on 14th, upwards of two inches of R fell.

BISHOPS CANNINGS.—R about five inches above the average. The most notable feature was the R from November 11th to 14th, 4·85 in. which fell in less than 48 hours.

RAMSBURY, THE ROOKERY.—R above the average, the fall for November being the greatest monthly record.

BROAD HINTON.—Not a single month in which the R did not exceed 2·00 in., and only two in which it was less than 2·50 in. The total exceeds the average by nearly 12 inches and is the greatest fall since the register began in 1879.

ASHLEY RECTORY.—The great R of the year began on October 23rd, and lasted until November 15th; of the 1·23 in. that fell on November 12th, 1·11 in. fell between 9 a.m. and noon. No such R had been seen for 20 years. Springs burst everywhere, and floods spread rapidly.

SWANAGE.—The wettest year of the 14 during which observations have been recorded. From October 20th to November 16th 10·98 in. of R fell in 28 consecutive days.

LANGTON HERRING.—R 8·16 in., or 28 per cent. above the average. In the first six months 12·92 in. fell, and in the last six 24·60 in. The total has been exceeded only twice (1876 and 1891) in 21 years, and the number of rainy days is 22 more than the average.

WINTERBOURNE STEEPLTON.—On nine days the R exceeded an inch and between October 20th and November 19th 13·64 in. fell on 29 days.

BEAMINSTER VICARAGE.—A very wet year, R 12·07 in. more than the average of ten years. On seven occasions more than an inch

fell in 24 hours, and on October 24th and 25th 3·74 in. fell in 30 hours and caused the greatest flood remembered. On November 11th, 12th, and 13th, 3·99 in. fell.

HAZELBURY BRYAN.—A very unpropitious season. The R of October and November amounted to 16·85 in.

IVYBRIDGE, LANGHAM HILL.—A very wet year almost throughout, the only months with less than the average being March and August, while the total is nearly 13 inches above the average. In the four weeks ending November 16th, 15·84 in. fell ; in 24 hours on November 11th and 12th, 2·77 in. fell, and on eight occasions in the last six months more than an inch fell in 24 hours. Spells of very fine weather occurred in March, September, and October.

HEMERDON.—The year was remarkable for the evenness of the R in the first nine months during which 32·20 in. fell. In the last three months 22·30 in. fell, 2·28 in. being recorded on October 24th, and 2·24 in. on November 11th.

PAIGNTON, TORBAY PARK.—The year was remarkable for the floods in October and November, 15·31 in. of R falling in 30 consecutive days ending November 17th.

TORQUAY, WATCOMBE PARK.—The total has only been exceeded in 1891 since 1885. Three successive falls exceeding an inch in 24 hours occurred on November 11th, 12th, and 13th.

WALKHAMPTON, LOWERY.—In 24 days ending November 14th, 16·49 in. of R fell, and this period included seven days on which the fall exceeded an inch.

ASHBURTON, DRUID.—R fell on 29 consecutive days ending November 16th, the total fall being 20·70 in. From 3 p.m. on November 11th to 5 p.m. on November 12th 3·77 in. fell, and from 7 p.m. on 13th to 10 a.m. on 14th, 3·09 in.

KINGSTEIGNTON.—The heavy R of July, October, and November and the extensive floods in the last-named months were the notable incidents of the year.

TEIGNMOUTH, BONNICLIFFE.—The R from October 19th to November 16th, 13·83 in., is the largest amount ever registered here in such a period.

TAVISTOCK, ROSE VILLA.—A wet year, with temp. slightly below the average. The longest dry period was 21 days ending April 4th, the longest wet period was 29 days ending November 16th, with a fall of 14·28 in.

BOVEY TRACEY, COLEHAYS.—A cold, sunless, showery season,

with excessive R from October 19th to November 20th, which caused one of the greatest floods ever known.

MAMHEAD.—The most remarkable characteristics were the two long periods during which R was recorded daily, viz., 30 days ending November 17th, and 22 days ending December 30th.

ROUSDON [LYME REGIS].—A wet year, both the number of rainy days and the amount of R being above the average. January and February were wet and produced an excess of 2·35 in. March, April, and May were dry, and reduced this excess to ·51 in.; with June it began again to increase, and after the great November floods the R was 5·92 in. above the average. The record of 3·53 in. of R in three days, November 11th to 13th, is not often equalled, and those who saw the great expanse of the Valley of the Axe resembling an inland sea, are not likely to forget the sight.

AXMINSTER, GREAT TRILL.—R 9·78 in. above the average of 11 years. No R was recorded in the 23 days ending October 19th, or in the 19 days ending April 2nd.

HEANTON SATCHVILLE.—A mild, wet spring, and dull, sunless summer with heavy R, culminated in very heavy falls in October and November, which produced the highest floods known for 50 years. Total R 5·51 in. above the average of 11 years.

ROSE ASH.—A rather wet summer and a very mild winter. Extremely heavy R in the last 12 days of October and the first half of November, culminating in floods on the 12th and 14th.

PARRACOMBE RECTORY.—The number of rainy days is far above the average and also the total fall, but there were only four days on which more than an inch fell. The R of the 23 days ending November 15th (12·63 in.) was remarkably heavy.

PENZANCE, ST. CLARE.—R ·75 in. above the average of 20 years. In 28 days ending November 15th, 12·73 in. of R fell, exceeding the record of any 31 days since 1860.

ST. IVES, PHILLACK RECTORY.—The R of the year is 3·69 in. above the average of 30 years; April showing an excess of 1·28 in., July of 2·28 in., and November of 3·29 in., while September showed a deficiency of 1·65 in. The falls of the remaining months are all within an inch of the average. Rainy days 14 in excess. Dividing the 30 years into two periods of 15 years, the average of the first is 39·51 in., and of the second 36·03 in.; while in five-year periods the average varies from 40·78 in. in 1875 to 1879, to 34·76 in. in 1885 to 1889.

ST. AGNES.—R 1·20 in., and rainy days 4 above the average of 26 years.

BUDE, POUGHILL.—A very wet year. Between November 7th and 14th, 5·71 in. of R fell, and great floods occurred on 12th.

CREWKERNE, BINCOMBE HOUSE.—R 6·20 in. above the average of 27 years. No R was registered in 20 days ending April 3rd, or in 15 days ending December 5th.

WEST COKER.—A very wet and sunless summer and autumn, the only summer weather being a fortnight at the end of June and beginning of July. Heavy floods occurred in November.

WELLINGTON, THE AVENUE.—A marked contrast to 1893, being especially wet from October 20th to November 16th. The R on November 11th, 12th and 13th averaged one inch per day and caused disastrous floods. The longest rainless period was 18 days ending April 4th, the longest wet period 18 consecutive days ending November 6th.

STOWELL RECTORY.—The year was remarkable for a warm, early spring, and for a cold May with disastrous frost on 20th and 21st. Heavy rainfalls occurred in February, July, October and November, and destructive floods in the latter month.

NORTON FITZWARREN.—R fell on the greatest number of days in any year since observations began in 1882, but, owing probably to the absence of heavy falls, the subsoil was very dry until the end of June. Between October 21st and November 14th, 8·97 in. of R fell, causing extensive floods. The number of frosty nights is the smallest since 1872.

GLASTONBURY, HIGH STREET.—Severe frost and S occurred from January 1st to 10th. There was absolute drought from March 15th to April 8th. Continuous R fell from October 22nd to November 14th (6·73 in.), causing one of the greatest floods known. The metals at the railway station were submerged to a depth of 3 feet, and thousands of acres were flooded from 2 feet to 4 feet deep.

BRIDGWATER.—R fell on every day, excepting October 22nd, from October 20th to November 14th, including falls of ·78 in., ·98 in., 1·00 in., 1·07 in., and ·90 in. Absolute drought prevailed from March 15th to 29th, and from November 21st to December 5th.

CRANMORE HALL.—The wettest year since 1882, the fall being 11·19 in., and rainy days 32, more than the average of 10 years. The longest period without R was from March 16th to April 15th. The heaviest R in a week was 5·96 in. from November 8th to 15th.

STON EASTON.—R 2·41 in. above the average of 26 years.

HARPTREE COURT.—R 7·53 in. more than the average of 12 years. From November 10th to 14th, 4·44 in. fell. The springs which had been low for some years appear to have reached their normal height at the end of the year.

HIGH LITTLETON.—No R fell from March 16th to April 6th or from November 24th to December 6th, but in the week ending November 15th, 5·05 in. fell.

PAULTON HOUSE [BRISTOL].—No R fell in the 22 days ending April 5th, while between October 20th and November 20th 9·97 in. fell, 3·91 in. falling in the four days ending November 14th.

LONG ASHTON.—The fall of each of the last six months was above the average, and in July and November the excess was considerable.

TYNTESFIELD.—R and number of rainy days the greatest in any year since 1866, when the record commenced.

DIVISION VI.—WEST MIDLAND COUNTIES.

CLIFTON, PEMBROKE ROAD.—R 6·21 in. above the average of 38 years; nearly as much as that of 1893 was below it. February, March, April, July, September, October, and November were all in excess. The number of rainy days is 20 above the average. In the three weeks, ending November 24th, 8·37 in. of R, or one-eighth of the total, fell.

BRISTOL, FISHPONDS.—With the exception of a few exceedingly severe days at the commencement of January, the winter and early spring were very mild, and crops generally looked exceedingly promising, but late May frosts and deficient sunshine during summer made the season very disappointing. The R was five inches in excess of the average, chiefly owing to the large amount (8·41 in.) which fell between October 23rd and November 14th. The falls in January, May, June, and August were slightly deficient. October and December were about the average, and the remaining months, especially November, showed an excess. There was absolute drought for 15 days ending March 30th.

LYDNEY, PRIORS MESNE.—An unusually wet year with very little sunshine, and much mild, muggy, or foggy weather. A heavy hay crop, and good oat and potato crops.

STANLEY PARK.—A wet year, which was wanted to fill the springs. Heavy R on November 12th and 13th produced serious floods in the

Stroud Valley, stopping work at most of the factories there. Absolute drought from March 16th to 29th.

HATHEROP RECTORY.—R almost exactly the average of 24 years, differing only by .12 in., made up principally in October and November.

NEWNHAM-ON-SEVERN.—A rather sunless year, and no great heat in the summer. An unusual R occurred between October 10th and November 16th, yielding 12.02 in. on 26 days, 22 of which were consecutive.

GREAT WITCOMBE, THE KNAP.—R 3.61 in. above the average of 11 years, eight months shewing an excess. There were four falls exceeding an inch in 24 hours.

GLOUCESTER, LOWER BARTON STREET.—R 5.06 in. above the average. The autumn rains refilled the reservoirs, ponds, and streams for the first time since the droughts of 1892 and 1893.

CHURCHAM.—No real winter after January 8th. Summer in March. Swallows seen in the third week in November, and many flowers were in bloom out of season.

TEWKESBURY, BECKFORD.—The winter was mild, with only 42 frosty days against an average of 81. The summer was cold and damp. R about the average.

MUCH MARCLE.—The year was remarkable for the large number of wet days, 207, being far in excess of any previously recorded, but on many the fall was trifling, there being 109 days with .05 in., or less.

MORNEY CROSS.—The early spring, like that of 1893, was unusually sunny and fine, but about the middle of April bad weather began, and thenceforth the year was generally unsettled, with the exception of a fortnight in September.

DILWYN.—Absolute drought prevailed for 20 days, ending April 4th, and partial drought for 29 days ending April 10th, with .21 in. of R.

PEMBRIDGE, MARSTON.—A wet year, R 8.05 in. above the average of 10 years. Heavy R fell during the first 16 days of November, causing a high flood on the 14th. Sharp frost on May 20th cut off apple and plum blossom. December was mild and open with very high winds on the 22nd and 28th and a little S on the 29th. More than an inch of R fell on four days.

LUDLOW, ASHFORD HOUSE.—R several inches above the average. There were 30 consecutive wet days, ending February 6th, and 26

ending November 17th. No R fell in the 19 days ending April 4th or in the 14 days ending September 21st; in the 29 days ending April 13th, only .29 in. of R fell.

BISHOP'S CASTLE, CASTLE STREET.—There were no extremes of temp., and almost a total absence of S, but some fell on May 20th and 28th. Very little T and L.

MIDDLETON IN CHIRBURY.—R .23 in. above the average of 14 years, and more rainy days than in any year since 1882. Springs had not fully recovered at the close.

PONTESBURY, THE VILLA.—A fine spring and very good seed time, summer cool, and somewhat showery. Hay crops very heavy, and got in well, and the grain and root crops good. Autumn and the end of the year generally fine and very mild, but showery. R about 1.50 in. less than the average of 10 years.

HAUGHTON HALL.—Chiefly remarkable for the gales of February 11th and December 22nd, the frost of May 20th, and the fine weather for hay harvest from June 18th to July 14th.

SALT VICARAGE.—The feature of the year was the small quantity of water in the wells. Some, never before dry, failed, and others were exhausted after a short pumping.

BURTON, RANGEMOOR.—R below the average in every month except February.

TEAN VICARAGE.—R again largely in defect, more than 25 per cent. below the 10 years' average.

LONGTON, THE MEIR.—R 3.16 in. below the average of 10 years.

NEWCASTLE, MADELEY.—R 3.46 in. below the average of 7 years.

LEEK, WALL GRANGE.—R .80 in. above the average of 10 years.

REDDITCH, PROSPECT HILL.—R 3.30 in. above the average, 1880—93.

KIDDERMINSTER, WOODFIELD.—R 2.83 in. above the average of seven years.

RADWAY, IVY LODGE.—R .73 in. above the average of 22 years, 4.48 in. above the average of the last 11 years, and 6.52 in. above the average of the last seven years.

STRATFORD-ON-AVON, GUILD STREET.—The total R is about three inches below the average. The quantity of R which fell was only twice excessive, generally it failed to penetrate far into the earth, so that by the middle of October water was very scarce, and wells were dry that had never been known to be so before, and the reservoir was quite exhausted; all this was remedied after the middle of October.

Temperature equable throughout, after the first week in January, when severe frost occurred on the 5th. Only on three days in July did the temp. rise above 80°.

ALCESTER, RAGLEY HALL.—There were few TSS and not much fog; by far the largest quantity of R fell at night. Up to November all ponds, springs, &c., were very low, and not a ditch had running water.

ALCESTER, RAGLEY GARDENS.—The exceptionally fine spring gave promise of abundant crops until the frost of May 21st and 22nd destroyed fruit generally. The hay crop was never better, and the harvest proved bountiful. Water was still scarce, and springs that failed in 1893 continued dry to the end of the year.

KENILWORTH, THE SPRING.—R 1·43 in. in excess of the average of 12 years. There was an absolute drought of 15 days ending March 29th.

COVENTRY, PRIORY ROW.—A year of great growth and abundant produce, but deficient warmth and sunshine in the autumn caused a want of sugar in all fruits and roots. The autumn R was moderate but sufficient, and there were no great floods in this district.

DIVISION VII.—NORTH MIDLAND COUNTIES.

ROTHERBY HALL.—R 5·33 in. less than the average of 26 years, and the greatest fall on any day was only ·67 in. There was very little S, but much wind in January, February, October, and December. The grass ther. fell to zero on January 6th, and was below 32° 116 times during the year, with frost in every month excepting, June, July and August. No floods occurred.

COLEORTON RECTORY.—R rather below the average. No heavy falls.

BELVOIR CASTLE.—R 1·56 in. above the average of 40 years. January changeable with S in the early part. February changeable but fairly mild. March bright and dry with very little frost. April dry but not so bright as March. May remarkable for S on the 20th, and severe frost on 21st and 22nd. June cold and showery at first, warmer after the 13th. July fine and warm until the 10th, cooler and showery after. August wet with heavy R on the 10th. September dry and bright until the 13th, dull and foggy after. October showery and not so frosty as usual. November mild, but not so foggy as October. December milder than usual, with the first S on 29th.

UPPINGHAM, WEST DEYNE.—In 31 days ending April 14th only .05 in. of R fell. Every month since February, 1893, had shown a deficit from the 20 years' average, and only June and November of 1894 reached the average. Except 1891, every year since 1886 has been deficient. On the other hand, the number of rainy days, 196, is the largest in the 21 years, the average being 179.

KETTON HALL.—Deficiency of R, especially in the first half of the year, which, with the dry season of 1893, caused great scarcity of water, springs being quite dry that had not failed for over ten years. No great heat; but on the whole very changeable throughout. Severe late spring frosts quite reversed the fine prospects for fruit, and cut vegetation terribly.

TOLETHORPE HALL.—The R in April and May was insufficient, and the hay crop was moderate, but for the fall of .87 in. on June 4th the crops would have been a complete failure. Too much R in July and August damaged the corn.

LONG SUTTON.—The two months which agriculturists need to have the driest and sunniest—July for the cereals and October for roots—were the wettest. Up to July there was good promise of full crops of everything, but July dashed all hopes and reduced the yield on an average 50 per cent.

SLEAFORD, BLOXHOLM.—R a little below the average for the first three months, and a little above it for the remaining nine. Hay and harvest-time were showery and unfavourable, but on the whole the crops were over the average.

SPILSBY, DALBY GRANGE.—Even a more disastrous year than 1893, owing to frost in May, and almost continuous R and absence of sunshine in July and August.

HORNCastle, BUCKNALL.—Less R during the first quarter of 1894 than in the preceding dry year, 1893.

LINCOLN, DODDINGTON.—The year was damp, dull and sunless, rather than very wet; in each month the fall was moderate, and the total, though five inches more than in 1893, is well under the average.

LOUTH, GOSPELGATE.—R 2.06 in. above the average. Mean temp. 1°·3 below the average.

LOUTH, WESTGATE.—R 2.28 in. above the average of 20 years.

BURTON-ON-STATHER.—The number of rainy days (210) is remarkable compared with the total of 26.88 in.

NOTTINGHAM, STRELLY HALL.—R 7.54 in. below the average; the number of "wet" days is large for the small total fall.

SOUTHWELL, GRANTS.—R 3·55 in. below, and temp. 0°·8 above the average. A wet summer was more than compensated by a dry spring and autumn, and a mild spring and winter made up for a cold summer.

FARNSFIELD.—Very mild in the autumn, some good roses in full bloom at Christmas, and a second crop of plums.

WORKSOP, HODSOCK PRIORY.—The year shows a slight deficiency of R and of sunshine, and a mean temp. rather above the average. The temp. was high during the colder months, but was low during the six warmer months from May to October; it was most above the average in November, December, April and March, and most below it in September, May and August. During the early part of the year there were two short but very sharp spells of frost, one in January, when the shade min. fell to $-4^{\circ}\cdot4$, the lowest for 14 years, and a second in February; there was also a sharp frost in May, which did unusual damage to vegetation. In the autumn there was very little frost and no S, and during the summer there was very little hot weather. The R was well distributed over the year; March and September were the driest months, but there were no very wet ones. Sunshine was most in excess in March, and most deficient in August. Vegetation was very forward to the end of April, but gradually became less so as the summer advanced. Farm crops all above the average. The last quarter was mild and open, but much damage was done by a heavy gale in December.

BREADSALL LODGE.—The springs were lower than in any year since a register has been kept. No fall of R exceeded ·77 in.

BELPER, NORTHFIELD.—On no day did the R exceed an inch, and the river Derwent was not flooded during the year.

DARLEY DALE, WHITWORTH INSTITUTE.—The summer was dull, with comparatively low temp. and many wet days. S and sharp frost on May 21st to the utter ruin of all fruit crops. On December 21st and 28th there were very strong westerly gales, doing much damage.

DIVISION VIII.—NORTH WESTERN COUNTIES.

ECCLESTON.—Although the total rainfall is below the average, the number of rainy days (212) is above that of any year since observations commenced in 1888. R fell every day from July 31st to August 27th.

ECCLESTON RECTORY.—R decidedly below the average. July and August were the wettest months of the year; September was abnormally dry.

CHRISTLETON HALL.—The year was marked by want of sunshine. The hay harvest was prolonged by unsettled weather. The autumn was mild and open.

CHESTER, HOOLE LODGE.—R much less than in the Southern Counties, and water was very short at the end of September, the ponds being nearly dry and wells very low.

CHELFORD, ASTLE HALL.—R 2·53 in. less than the average of 19 years.

NORTHWICH, WINCHAM HALL.—An average quantity of R, but deficiency of heat in summer.

HINDERTON LODGE.—R nearly 12 per cent. below the average of 25 years, but rainy days rather more numerous than usual.

WILMSLOW, SOUTHSIDE.—The R of February was heavy, succeeded by a dry spring. A severe frost on May 22 killed large areas of potato shoots. August was very wet, September dry, lovely weather lasting into October.

AIGBURTH, KELTON.—R 1·92 in. below the average of 10 years. The R was distributed more evenly than in several recent years, August being the wettest month with 3·97 in., and September the driest with ·98 in., while in no other month was the fall less than 1·52 in.

MANCHESTER, ALEXANDRA PARK.—R about the average, but the summer was wet and comparatively cold.

BOLTON, THE PARK.—The first four months were normal except for the great amount of bright sunshine and cold cloudless nights during March. April was mild, with genial showers and a fair amount of sunshine, and all went well until May 21st, when a disastrous frost occurred. Warm sun and showery days in June did much to restore the cereals. July and August were wet, and the temp. of the latter month low, so that harvesting was not commenced until September. The mean temp., 47°·4, is 1°·1 above the average. Absolute droughts occurred from the 18th to 31st of March, from the 2nd to 15th of April, and from the 8th to 21st of June. There were three days on which 1·00 in. or more of R fell. The total for the year is 5·07 in. above the 8 years' average, and was only equalled in 1891. The total amount of bright sunshine (964 hours) was 238 hours less than 1893, and 16 hours less than the average.

SOUTHPORT, HESKETH PARK.—On the whole a warm year, and slightly dry, but windy. Mean temp. $1^{\circ}\cdot2$ above, and R 3·35 in. below, the average. Ream water high in February and March, but very low in the autumn.

HASLINGDEN VICARAGE.—A long dry period occurred from August 25th to October 19th, only ·94 in. of R falling in the 56 days.

ELSWICK LODGE.—R of the year rather under the average. February, March, May, June and August all had more than the average, while in January, April, July, September, October, November and December the falls were under the average.

ST. MICHAEL'S-ON-WYRE.—Very fine from March 12th to April 3rd, the mean temp. of the week ending April 1st being the highest recorded at that season, while the max. on March 30th was the highest on record for March. The mean temp. of April also was the highest on record. Frosty nights from May 21st to 23rd were disastrous to fruit. There was a week of good hay weather about June 26th, and then bad weather prevailed till towards the end of August, followed by splendid harvest weather.

CLITHEROE, DOWNHAM HALL.—R 2·35 in. above the average of 30 years.

GARSTANG, FORTON.—An early spring followed a mild winter. 20 days of absolute drought began on March 14, and April contained an unusual number of fine sunny days. Sharp frosts on May 20th and 21st did great damage to crops, and the summer was cold and wet, but lovely autumn weather lasted from August 20th to October 22nd, the R for the 64 days being only 1·38 in. The gale on December 22nd was the most severe for 40 years.

ARKHOLM, STORR'S HALL.—R about six inches above the average of 30 years. From the middle of March to the end of April was very fine, bright and dry. S and three nights' frost, May 20th to 22nd, did great damage to crops. September was fine and dry.

CARTMEL, HOLKER.—January was open and rainy. February a wet month with strong gales in the second week. No R fell during the latter half of March, giving a fine seed-time, and April was beautifully fine and sunny, followed by a cold May. June, July and August were lacking in sunshine, while September was dry and summerlike throughout, and open weather continued until December 26th.

CARTMEL, PIT FARM.—The longest periods of rainless weather were 16 days in March and 13 days in September, but in the 43

days ending October 8th only 46 in. of R fell. There were six days with falls exceeding an inch. The temp. rose above 70° on 21 days, and above 80° degrees on 5 days, but did not reach 70° on any day in August.

CARTMEL, BROUGHTON HALL.—Total R about 1·50 in. above the average of 26 years. The monthly falls were equable, with the exception of February, which was wet, and September dry. On six days more than an inch of R fell.

ULVERSTON, COLTON.—Every month except April and September had more than the average fall, and the total exceeds the average by 9·85 in. February had the heaviest fall for that month in 47 years, and September the least in the same period.

SEATHWAITE VICARAGE.—Though March and April were dry months, and September one of the driest remembered, the total R and number of rainy days were both above the average. A mild and exceptionally early spring was followed by a cold rainy summer.

DIVISION IX.—YORKSHIRE.

ROTHERHAM, THRYBERGH.—R below the average. The large impounding reservoir at Thryburgh was only about one-third full on December 31st, owing to the deficiency of R in the winter months at the beginning and end of the year.

STAINBOROUGH, WENTWORTH CASTLE.—R 2·86 in. less than the average of 18 years.

DONCASTER, FIRSBY.—R below the average, the deficiency being chiefly in the winter months.

WATH-UPON-DEARNE, CHAPEL STREET.—Intense cold on nights of January 5th and 6th. May exceptionally cold. A very cold sunless summer. Some warm pleasant weather in March and November, and December very mild.

DONCASTER, PUMPING STATION.—R below the average.

DONCASTER, MAGDALENS.—The weather generally suited the district fairly well, although it was remarkably uncertain and changeable. Very low temp. in January and February. April very warm, with a severe TS about the end. Severe frost from May 20th to 22nd, and S on 26th. Harvest very early, some corn carted by the middle of August. Christmas very mild, with primroses and wall-flowers in bloom.

BARNESLEY, CHURCH STREET.—R 1·05 in. more than the average of 25 years.

MELTHAM, HAREWOOD LODGE.—Decidedly wet, the R being about 20 per cent. above the average of 13 years. February and the first quarter gave an abnormal quantity of R. October also was wet, but September was very dry and fine. The year was rather warm, but with a cool summer, except for ten days at the end of June and the beginning of July. There was very little S, and with one exception (July 25th) there were no TSS worth mentioning.

WAKEFIELD, WALTON.—R about the average. The chief characteristic of the year was absence of sunshine during the summer months; November had more sunny days than any summer month, and had only one foggy day.

HUDDERSFIELD, DALTON.—The heaviest R since 1877, the total being 6·30 in. more than the average of 29 years.

WAKEFIELD, ALVERTHORPE HALL.—Cold early in January, then fine till May, when frost did much damage to fruit blooms. August fine, then R and warm weather till Christmas.

WAKEFIELD, STANLEY GRANGE.—Remarkable for the absence of bright sunshine, and for a summer cold and dull, while the early spring and autumn were exceptionally mild. Mean temp. 45°·8, identical with the average of 7 years. R 2·60 in. above the average. March, September and November were dry, February and April were excessively wet. There was absolute drought for 19 days ending April 1st, and partial droughts for 29 days, with ·19 in. of R, ending July 9, and for 30 days, with ·25 in. of R, ending October 5th.

HALIFAX, SOUTH OWRAM.—R 4·05 in. above the average of 5 years. There were several heavy gales, that on December 21st being most destructive.

HEBDEN BRIDGE.—January, February, and the first half of March were wet, March 15th to July 15th fine. From August 28th to October 5th (38 days) only ·29 in. of R fell, and from August 28th to October 19th (53 days) only 1·01 in.; there was absolute drought for 16 days, ending March 30th. In six days, ending October 26th, 4·60 in. of R fell, being at the rate of 240 inches a year.

BRADFORD, MERTON ROAD.—A wet year; the first ten weeks exceptionally so. September very dry.

LEEDS, OLIVER HILL.—Chiefly remarkable for the dry September, when only ·67 in. of R fell, and for the low night temp. in June, the

grass min. falling to or below freezing point on the 7th, 14th, 18th and 19th. The fruit crop generally was spoiled.

HARROGATE, BOG VALLEY GARDENS.—R 5·44 in. above the average of 11 years. Duration of sunshine, 14 hours below the average of 4 years.

KNARESBOROUGH, CONYNGHAM HALL.—A very cold, wet, spring and summer. Autumn rather drier.

OUGHTERS HALL.—In February there were six days on which the R exceeded an inch, and the total fall was 13·66 in. September was very dry.

SEDBERGH, BRIG FLATTS.—R 3·50 in. above the average of 16 years, and falling on an unusual number of wet days.

SEDBERGH, THORNS HALL.—S fell on May 21st, with sharp frost. September and most of October were extremely bright and sunny. The autumn was very mild until December 22nd.

DRIFFIELD, BEVERLEY ROAD.—In five months, March, June, July, August, and November, the last week was practically dry. September was phenomenally fine, and November a very agreeable month.

WETWANG.—Absolute drought prevailed for 20 days, ending April 1st, and partial drought for 28 days, ending October 5th, with ·24 in. of R. In ten days from June 2nd, 3·90 in. of R fell.

THIXENDALE.—The year was marked by still weather and lack of sunshine. Blossom was abundant, but frosts in May destroyed most of the fruit. The autumn and early winter were singularly mild, not changing till December 29th, Christmas Day being genial and spring-like. The harvest was protracted, and the quality of corn was not good, owing to want of sunshine. There were 19 days, ending April 1st, with only ·02 in. of R.

MALTON, NORTON.—The temp. was very low early in January, with S on 8 days; February was gloomy, with strong gales, S, heavy R and sleet. March and April were fine and clear, with small R. A sharp frost on May 21st and 22nd destroyed most fruit crops, and was accompanied by six days of S, H and sleet. June, July and August were rainy throughout, but September was very fine; October wet, November very fine with small R, and December very mild till the 27th, when heavy S storms and gales occurred.

OLD MALTON.—R ·37 in. above the average of 36 years.

MELMERBY, BALDERSBY.—R exceeded the average of 10 years by 3·47 in. During the last nine days in October 3·15 in. of R fell, or more than one-eighth of the average for the year. There were falls

of S on May 20th and 29th, and H storms in the middle of July. Very destructive S.W. gales on February 11th and 12th and December 21st and 22nd.

HAWES, HARDROW VICARAGE.—R 1·02 in., and rainy days one, less than the average of 20 years.

INGLEBY MANOR.—The year opened with a few very cold days ; thence till March was mild and windy. March and April were very sunny and mild, but May was cold, with N. winds and severe frosts, which destroyed the fruit crop. The summer was dull and showery, the autumn damp and misty, the latter part of October being very wet. The rest of the year was very mild, with stormy weather during the last few days. Total R a little below the average.

DIVISION X.—NORTHERN COUNTIES.

DARLINGTON, ELCOTT.—R and number of rainy days agree very nearly with those of 1892. March was a lovely month, with 34 hours of sunshine more than in 1893, and September was charming, which enabled the harvest to be gathered in rapidly.

DARLINGTON, CLEVELAND PARADE.—R 1·87 in. less than the average of 20 years. Very nearly an average year. June and October were wet, March, September and November dry, and there was no great excess of R here at the time of the disastrous floods in the South and South-West.

WITTON TOWER.—R 2·74 in. above the average of 10 years, and the heaviest since 1886. Very little T during the year.

SEAHAM HALL.—As a whole a bad season. The first four months were fairly fine, but May, June, July and August were wet and cold, the temp. never rising to 70°. September was dry and cool and saved the harvest. October was wet and cold.

SUNDERLAND, WEST HENDON HOUSE.—The R for 1894 is 2·00 in. below the arithmetical average, and 1·74 in. below the geometrical mean of the 30 years, 1860 to 1889. October was the wettest month, with a fall of 4·55 in., and November was the driest, with a fall of ·56 in. only, being the driest month of that name since observations began in 1860. S fell on 22 days in the year, the max. depth was 3 inches on December 31st. March was the month in which there were fewest days on which it snowed or rained at all, still there were 18 such days, although only 9 on which a measureable amount fell. Dividing the winds into the 8 principal points of the

compass, there was a noticeable excess of E. winds and a less noticeable one of W., and a deficiency of S.E. and S. winds. There was an extraordinary excess of E. winds in April, and of N.E. and N. in September; and the excess of winds from the N.E. quarters continued to a less degree during October. From January 6th to March 16th it is believed that the wind only blew for 13 hours from the N., N.E. or E.; and the S.E. winds were also deficient. The number of days on which the alternation of sea and land breezes took place was considerably above the average, remarkably so in September and March. The N. wind was the wettest in proportion to the time it blew, and the W., as usual the driest. The N.E. and E. winds were much drier than usual, though rather wetter than the average of the eight winds. February was very remarkable for the force of wind; on the 12th there was probably the strongest gale for many years. January also was very windy. On the other hand, from July to November was calmer than usual. The cloud was deficient in the first three months, especially March, but was in excess for the rest of the year, and 1894 was remarkable for the number of cloudless days and the scarcity of completely overcast days. Three absolutely cloudless days were recorded, besides two on which there was only some thin cirrus, while in many years there are no such days. There were only six days completely overcast. The fog for the year was above the average, there being a great excess in July and March.

SUNDERLAND.—January and February fairly wet, March, April November and December dry. Wet summer and October, but no excessively heavy R.

BELTINGHAM.—R 7·17 in. above the average of 13 years.

NEWCASTLE, CLIFTON ROAD.—Sharp frost in January from the 6th to the 9th, then mild and windy; February and March windy, and April fine and mild with hazy mornings. Frost from May 20th to 23rd. June wet. July fine and warm in the early part, wet in the latter part. August wet, and the first week in September showery; the remainder fine. October wet. November and December, till the 29th, dry and mild, when S fell for the first time.

BIDDLESTON HALL.—An unusually fine spring was followed by an almost sunless summer and an exceedingly wet autumn.

PAWSTON [COLDSTREAM].—The early part of the year was much the same as in 1893. August and October were abnormally wet. The barley crop was large, but spoilt as to colour and quality by the

August wet and want of sunshine. The hay crop was as bulky as the crop of 1893 was deficient.

MILLOM, LEYFIELD.—R .11 in., and rainy days 9, above the average of five years. Drought for 22 days ending April 5th. August wet, and September very dry, with only .75 in. of R, of which .54 in. fell in one day.

DUDDON VALLEY, ULPHA VIC.—R 4.14 in. above the average of 7 years.

BRAYSTONES.—R 1.74 in., and evaporation 4.74 in., less than the average of 30 years.

WHITEHAVEN, IRISH STREET.—R 3.27 in. more than the average of 18 years.

KESWICK, THE BEECHES.—In the 66 days ending October 22nd only 1.59 in. of R fell.

KESWICK, SHU-LE-CROW.—R fell on only four days in September, amounting to .68 in. Of the October R (5.87 in.), no less than 5.47 in. fell between the 23rd and 31st, and of these days only two were without R. Complete absence of S in autumn and winter; some very few sprinklings only on the high fells. On December 22nd a destructive hurricane occurred from 5 a.m. to 9 a.m.

COCKERMOUTH, WHINFELL HALL.—R a little above the average. A showery spring produced an abundant hay crop.

COCKERMOUTH, BRANDLINGILL.—As usual very little S fell in West Cumberland.

COCKERMOUTH, HIGHAM.—No S, except slight falls in May. On August 2nd 2.18 in. of R fell, the second heaviest fall since the record commenced in 1864. September was the driest on record, the drought began on August 27th, and lasted till October 23rd, only .85 in. falling on 11 days during that time.

COCKERMOUTH, BROUGHTON GRANGE.—R slightly above the average, in spite of the drought in the early autumn.

BLENCOWE SCHOOL.—R 6.50 in. above the average of 20 years. February was a terrible month for R, indeed, the wettest month registered since observations began in 1871, and in no other year have there been so many falls exceeding an inch (seven), besides three more of over .80 in. There were terrible storms of wind and R on December 22nd and 28th, doing much damage. The latter half of March, the latter half of August, the whole of September, and the first half of October, were unusually dry, and water became scarce.

MARYPORT, NETHERHALL.—R much above the average. A very heavy and exceptional fall occurred on August 2nd, 2·20 in.

ALSTON, LOVE LADY SHIELD.—Fruit a failure, owing to late frost in May. Hay harvest good, but late, owing to a wet July and August. April dry and hot.

BURGH-BY-SANDS.—A wet year on the whole, but the temp. in hay-time and harvest being low, it was not unfavourable to agricultural operations.

NATLAND PARK.—R 2·01 in. above the average. An early spring, with summer temp. at Easter, seemed to promise that 1894 would be similar to 1893, but frosty nights in May destroyed the promise of fruitfulness.

WINDERMERE, FALLBARROW.—In October there were 4 days on which more than an inch of R fell, and in November 3 days.

DIVISION XI.—MONMOUTH, WALES AND THE ISLANDS.

NEWPORT, CLYTHA PARK.—Exceedingly wet, especially the summer and autumn.

LLANFRECHFA GRANGE.—A rather wet and cold summer with several days on which more than an inch of R fell. Weather favourable for harvest and fairly so for autumn sowing. Very severe gales towards the end of December.

TREDUNNOCK.—R about seven inches above the average.

ABERGAVENNY, DYNE HOUSE.—After a wet January, the spring and early summer were dry, only ·30 in. of R falling from June 20th to July 20th, followed by a fall of 3·43 in. on 24th.

LLANVIHANGEL COURT.—The year opened very cold, but quickly changed to unsettled weather with high temp. alternating with short cold periods and frequent gales. The summer was cold and sunless followed by a rainy September and October with persistent N. and N.E. winds. The wind then shifted to S.W., and rainy weather continued to the end of the year, the wind frequently backing with heavy gales.

FONMON CASTLE.—A persistently wet year all through. Every month except September had more than the average R, the total being 15·45 in. above the average of 10 years.

OYSTERMOUTH.—R and rainy days both above the average, but only four falls exceeding an inch in 24 hours. A long drought prevailed from the middle of March, and April also was exceptionally dry ;

frost and cold E. wind did much damage in the third week in May. The summer was wet and stormy, but September and half October was fine, and there was no frost to speak of till the end of the year. November and December were a succession of storms with quiet days between.

NEATH, FAIRY LAND.—R 7·97 in. above the average, but exceeded in 1886 and 1891. Seven inches of R fell in 8 days ending October 30th.

YSTALYFERA, WERN SCHOOLS.—In the last 9 days of October, 8·60 in. of R fell, and in the first 20 days of November, 10·48 in.

HAVERFORDWEST.—The first 8 days of January were exceptionally severe, with S. and high wind; the rest of the winter was mild. The spring also was mild and unusually fine and dry until May, at the end of which a disastrous frost occurred. The summer was wet, cold and changeable, but fine weather in September saved the crops. The autumn was mild, wet and stormy, and the year ended wet with high temp.

ST. DAVID'S.—The year was generally unsettled, showery, and wet. January, November and December were very stormy. October was the wettest, April the driest, and September the finest month, of the year. Grass lands were green and springlike to the end of December, when heavy S fell.

NEWPORT, THE CASTLE.—The year was unusually mild. S fell on January 3rd, 5th, and 31st, February 11th, April 25th and May 21st and not again till December 30th and 31st. Storms and high winds were very prevalent. The wettest months were February and November, the driest, June and September. Total R 50 per cent. above the average.

LLANDEFAELOG-FACH.—R 14·76 in. above the average of 10 years, and, with the exception of 1882, the heaviest recorded. The fall on July 24th, 2·57 in., is also the greatest on record. From October 23rd to November 22nd R fell every day, the total being 11·07 in.

BUILTH.—February was warm and wet and the first half of March exceptionally wet. April was dry and warm, June showery, and July very wet, August also was wet. Partial drought occurred in September and to October 23rd, followed by 24 days almost continuous R.

NEW RADNOR, DOWNTON.—R 8·88 in., and rainy days 33 above the average of 10 years. There was no drought either absolute or partial and no very heavy fall.

POOL QUAY VICARAGE.—R 6·00 in. and rainy days 31, above the average, the fall being the heaviest since 1886. S lay on Long Mountain for a short time on May 28th, and on four days the R exceeded an inch. But for ·01 in. of fog, absolute drought prevailed for 17 days ending March 31st. Between October 20th and November 15th, 7·53 in. of R fell.

NANTLLYS.—During the 24 years observed, this is the first in which September has been the driest month, and the third in which November has been the wettest.

PRESTATYN, EDLESTONE HOUSE.—Again a dry year. March, April, September and December were dry months, and October was the only wet one. The longest period of drought was 21 days in March and April, with only ·02 in. of R.

ROSSET, TREVALYN HALL.—R 2·74 in. below the average of 25 years. July was the wettest and September the driest month.

DOUGLAS, VICTORIA ROAD.—A mild, wet and stormy winter, succeeded by bright easterly weather from the middle of March to the end of the first week in April, gave promise of an early spring, but the forward vegetation made little progress later in the month and throughout the cold wet May. June, too, was cold and wet, July drier, but, except the last week, cold and ungenial. August cold, damp and sunless to the 25th, when a brilliantly fine, dry period set in and lasted nearly two months. The later autumn to the year's end was again wet and stormy, though extremely mild. R 3·24 in. above the average of 20 years.

SCOTLAND.

DIVISION XII.—SOUTHERN COUNTIES.

KIRKPATRICK DURHAM, GLENLAIR.—The R in February was unusually heavy; a blighting frost occurred in May; T showers on the 6th and 11th of July, yielding ·61 in. and ·70 in. respectively. September was unusually dry, and harvest weather unexceptional. The dry September affected the rivers and streams. The R of the last 3 months was heavy.

DUMFRIES, IVY BANK.—R 5·15 in. above the average of nine years. The rainiest month was February, with an excess of 5·71 in. The driest period was from September 2nd to October 22nd, during

which time only about .30 in. of R fell, and from August 22nd to October 22nd only .54 in. fell, as compared with an average for that period of 7.16 in.

LANGHOLM.—R 11.00 in. above the average of 7 years.

MONIAIVE, MAXWELTON HOUSE.—January and February were very wet. September was wonderfully dry, and the whole harvest was cut and carried in excellent condition. R about five inches above the average. Mild winter.

DURRISDEER, DRUMLANRIG GARDENS.—January and February were wet ; March and April very fine, the latter being bright and warm. May was characterized by unusually severe frost, which proved most destructive to fruit crops, &c. June, July and August were very sunless and damp, but without heavy R. September, October, and up to the middle of November, was unusually bright and fine for harvest. The last six weeks were wet, but very mild.

HAWICK, BRANXHOLME.—With the exception of 1882, the largest R recorded since 1879.

LILLIESLEAF, RIDDELL.—An admirable harvest year ; hay and corn crops heavy and well saved, owing to a comparatively dry March and April, and a dry September.

MELROSE ASYLUM.—A very wet year. R 8.41 in. above the average of 12 years, the greatest in that period, and 4.65 in. more than in 1882, the next wettest year. The greatest fall, 2.12 in. on August 2nd, also broke the record. Rainy days six below the average, in only three years were fewer registered.

MELROSE, ABBEY GATE.—R 3.90 in. above the average. Mean temp. (42°·1) about the average. A good year for grass and turnips, but poor for fruit.

WOOPLOW [GALASHIELS].—February, May, June and August were abnormally wet, and T was prevalent in the latter month.

DIVISION XIII.—SOUTH EASTERN COUNTIES.

BO'NESS, GRANGE.—February exceedingly wet ; May, June, July and part of August dull and wet, the latter part of August fine ; September and the first half of October very dry and quiet—fine harvest weather, but too little wind—latter half of October wet.

DIVISION XIV.—SOUTH WESTERN COUNTIES.

LANARK, FENCE.—Mild throughout the year. R 9.00 in. more than the average of nine years, and 4.80 in. above the max. fall in

that period. The Clyde was in heavy flood during February and March, reaching 13 ft. 6 in. above normal. Hedges in leaf and flowering currants in bloom in March; bees and butterflies seen in the same month. Swallows came in April. These events are extremely exceptional for this district. Heavy TS on July 6th, lasting fully $3\frac{1}{2}$ hours, with 1·10 in. of R. Fine aurora on November 23rd, bluish green with long rose-coloured streamers. Primroses and other flowers in bloom on December 9th.

HAMILTON, ARDENCLUTHA.—The winter of 1893–94 was very wet, and the autumn of 1894 very dry, only a quarter of an inch of R falling in September.

BARRHILL, DOCHROYLE.—R 1·23 in. below the average of 19 years.

AYR, BALLANTINE DRIVE.—The most notable features of the year were the light R in September and first three weeks of October, and the great storm of December 22nd, justly considered as one of the three great storms of the century, viz., January 5th, 1839, December 12th, 1883, and December 22nd, 1894.

LOCHWINNOCH, GARTHLAND.—A very wet year, R about 8 inches above the average; there were 13 days on which one inch or more fell.

PAISLEY, CROOKSTON.—February was the wettest month, and September the driest, since 1869, when the record commenced.

DIVISION XV.—WEST MIDLAND COUNTIES.

NEW KILPATRICK, CHESTERS.—The R during the first three months was abnormally heavy. February was the wettest, and September the driest, on record in over 14 years.

STRATHBLANE, CRAIGEND CASTLE.—The year was cold, backward and wet, but the farmers had a good and early harvest.

STIRLING, POLMAISE GARDENS.—The wettest February recorded. A fine, dry harvest-time, only a single shower in September, and the R in October did not come till late in the month. Very sharp frost in the third week in October. Very mild at the end of the year, temp. 52° on Christmas Day.

STIRLING, RAVENNA COTTAGE.—The longest dry period was from March 15th to 30th, both inclusive, when no R fell.

BUCHLYVIE, THE MANSE.—R 7·01 in. more than the average of five years. In January and February 22·20 in. fell (nearly half the total), followed by a fairly dry spring and very dry autumn. Only

·03 in. of R fell in 23 days, ending April 7th ; in 48 days, ending October 8th, only ·32 in. fell ; and the total in September was only ·21 in. These periods of drought mark 1894, with its great R, as a very remarkable year ; it yielded the largest total of R in 5 years, while February gave the largest, and September the smallest, monthly total.

GARGUNNOCK.—From January 1st to March 13th, 26·27 in. of R fell, and only ·73 in. between August 21st and October 23rd.

TAYVALLICK, TAYNISH.—R about the average.

BALLACHULISH, ARDSHEAL.—The winter and spring were exceptionally wet ; from January 1st to May 15th the R was 39·71 in. The greatest fall in 24 hours (2·84 in.) occurred on August 13th. The early autumn was exceptionally dry. From August 21st to October 6th the R was only ·30 in. Light frosts occurred towards the end of November, and December was wet and very stormy.

ISLAY, ARDBEG.—R very much below the average during August, September and October. Crops of oats, hay and barley not so abundant as in 1893.

JURA FOREST, FEOLIN FARM.—Splendid summer weather, not a drop of R on the crofters' harvest.

DIVISION XVI.—EAST MIDLAND COUNTIES.

BLAIRINGONE [DOLLAR].—A wet year, the total being the highest recorded, while February gave the largest fall, and September the smallest, of any month recorded. From August 22nd to October 9th, inclusive, only ·33 in. of R fell, on five days.

KINROSS, GELLY BANK.—The year was remarkable for long periods of dry weather and extra heavy R alternating. In 1893 there was no fall of over an inch, but in 1894 such falls occurred five times.

DOUNE, GARTINCABER.—Extraordinary heavy R in January and February, and an unusual drought from August 21st to October 6th, between which dates only ·23 in. of R fell. A very violent gale occurred on the night of December 21st, and strong breezes were frequent.

COUPAR ANGUS STATION.—R about 4·50 in. above the average, due to the heavy falls in January, February and October. The longest dry period occurred between August 19th and October 22nd, during which time less than an inch of R fell, but this was followed

by a flood on the 23rd. The temp. of all the summer months was below the average, but the autumn was warm.

BALLINLUIG.—From August 19th to October 19th only .49 in. of R fell.

BLAIR ATHOLL.—Exceptionally large R in January and February. An extremely mild April was followed by a very cold May and June.

DIVISION XVII.—NORTH EASTERN COUNTIES.

FETTERCAIRN.—An average R. February and August were the wettest months of the year, while March and September were unusually dry. The rainiest day was August 2nd, when 2.35 in. fell, being the largest fall on any day during the 38 years recorded.

ELLON, KERLUCK.—Fitfulness from dry to rainy periods marked the year. The excessive R on the night of August 2nd was unprecedented in living memory, and also the rainy character of that whole month. The hurricane of December 22nd was severely felt here.

BANFF, EARLHILL.—R two inches less than that of 1893. In three months, May, July and August, the fall exceeded four inches, while in each of the two preceding years only one month had a fall exceeding that amount.

CULLEN HOUSE.—The year was rough and cold. The early spring was dry and seasonable, but late spring frosts destroyed the apple crop. A very sunless season followed, and had it not been that there was a good deal of heat with the dull weather, it would have been much worse for the crops in general. The autumn was exceptionally mild and dry.

WESTER ELCHIES SCHOOL.—Spells of comparatively dry weather were followed by spells of wet.

FORRES, GRANGE HALL.—The features of the year were the very exceptional R in May and June (8.60 in.), and the unusual dryness of September. The total for the year is two or three inches less than either 1892 or 1893. December was a beautiful month, with no appearance of winter until the 28th, when a severe S storm set in.

DIVISION XVIII.—NORTH WESTERN COUNTIES.

STRATHPEFFER SPA.—Drier than the average, though February and July were very wet. Very little S fell.

ALNESS, ARDROSS CASTLE.—An open winter, a dry spring, a cold summer, and a good autumn.

MOIDART, ROSHVEN.—Extraordinarily dry from the end of August to the 8th of October.

SKYE, EDINBANE.—The harvest in Skye was one of the finest within memory, and December was the stormiest for many years.

N. UIST, LOCH MADDY.—R 5·37 in. more than the average of ten years; the extra fall occurred entirely in January, February and March. The prominent feature of the year was the dry and good weather in September and October.

FORT AUGUSTUS, ST. BENEDICT'S.—The wettest year since observations commenced in 1884, and the 2·55 in. of R on February 6th is the largest daily fall during the same period. The R in January and February (20·34 in.) was quite extraordinary, while April and September were unusually dry. A good year on the whole for agriculture.

LOCH NESS, DRUMNADROCHIT.—R 6·40 in., and rainy days 6, above the average of 9 years. The highest monthly fall during the same time was 7·48 in. in February. Between August 18th and October 11th less than an inch of R fell in the 54 days.

DIVISION XIX.—NORTHERN COUNTIES.

DUNROBIN CASTLE.—One of the best seasons on record, and on the whole favourable for out-door work. The spring was good, with the exception of the frosts in May, which, however, did little harm here. February was very wet, and the first three weeks in July and the first half of August were rather wet, but from August 22nd to October 8th there was very little R, and the weather was fine and enjoyable. The autumn was the finest for at least 30 years, and the weather did not really break till October 19th. Crops fine and secured in good condition.

SCOURIE.—January, February, and the greater part of March were cold, with frequent S and frost, and broken weather generally. The last week of March was warm, with bright sunshine. The spring was very favourable for seed sowing, and the summer was also fine, though a good deal of R fell in July and August, which helped the crops which were suffering from the drought. The winter was quite seasonable, with some sharp frosts early in December.

POMONA, KIRKWALL.—The driest year since 1886; R 8·70 in. below the average. The weather was boisterous till the middle of March, when one of the finest seasons on record set in, and it continued fairly fine till December 13th.

IRELAND.

DIVISION XX.—MUNSTER.

CORK, CLARENCE PLACE.—R about the average. There was an absolute drought of 18 days ending April 1st. About six inches of S fell during the year, principally in January. The summer was very cool, the max. temp. being only 72°. Only one frost occurred in December.

MALLOW, OLD DROMORE.—Long periods of drought occurred in March, September and October, but January, April and November were wet.

DARRYNANE ABBEY.—January had about the average R, February and March were very dry, May was wet, June dry, July and the first part of August wet. Very dry again from August 26th to October 21st, but thence to the end of the year wet and mild. A cold spring and summer but fine autumn.

CAHIR, DUNESKE.—R 13·51 in. more than in 1893. There was drought for 19 days ending April 4th, and 16 days ending October 9th.

FETHARD, MOBARNANE.—Terribly dull and damp in July and August, nothing like it for 15 years; scarcely any sunshine from July 5th to August 27th, and often as cold as in a mild winter. May and June both had few rainy days and plenty of sunshine.

DERRY CASTLE [KILLALOE].—A wet year, the R being 11 per cent., and wet days 32, above the average of 10 years. August, September and October were the only months with R below the average, and September was the driest harvest month on record in this locality.

NENAGH, CLASHNEVIN.—Much heavier R than in 1893 particularly in the spring months, but the latter part of March being dry and favourable for farm work, corn crops were mostly got in timely and in good order. April and part of May were very moist; from April

1st to May 17th there were only eight days without R. An abundant crop of hay, but some spoilt by wet in July and August. Autumn and early winter mild and moist.

LIMERICK, ROXBOROUGH.—A wet year with low temp. Harvest saved at the last moment by a dry period of 54 days ending October 19th, during which time only .67 in. of R fell, while from October 20th to November 19th 7.75 in. fell.

O'BRIENSBRIDGE, ROSS.—A fine spring and very early vegetation, checked in May by frequent frosts. Part of June, all July and much of August very wet, but splendid weather in September repaired much of the damage caused by previous R.

BROADFORD, HURDLESTOWN.—A wet year; R 2.05 in., and rainy days 18, above the average of 9 years.

MILTOWN MALBAY.—January, February and the first half of March were generally wet and boisterous, with much T and L and occasional frost, S and H. The latter half of March was fine and dry putting the land in good condition for cropping. The second and third weeks in April were wet and cold, and the last week was frosty. The second and third weeks in May also were wet, cold and stormy, and thence to the 30th frost occurred every night. Only the last week of June was warm, and July and the first three weeks in August were very wet and cold. The last week of August, all September and the first week of October gave good harvest weather. The remainder of the year was wet and stormy.

DIVISION XXI.—LEINSTER.

GRAIGUE, BRANDONDALE.—R nearly three inches more than the average of 11 years.

KILKENNY, SION VILLA.—The year was very wet, cold and stormy. The temp. during the summer and early autumn was decidedly low.

KILKENNY, LAVISTOWN.—R about the average, but the summer was cold and sunless, and was an unsatisfactory season for farmers. The late harvest was ruined by the wet October.

LARAGH, GLENDALOUGH.—R 20.06 in. more than in 1893.

ABBEE LEIX, BLANDSFORT.—R 5.73 in., and rainy days 32, above the average of 20 years.

STRAFFAN HOUSE.—The spring was warm and very early up to May 20th. Summer cold, wet and sunless, followed by a beautiful

dry September, which was the driest month of the year ; July was the wettest month.

KILLINEY, CLONEEVIN.—R 7·95 in. in excess of the average of 9 years, and the highest during the 10 years 1885 to 1894. R fell on 196 days, or 21 more than the average.

RATHMINES, LEINSTER ROAD.—The greatest R in any year since 1886. There was absolute drought for 16 days ending March 31st, and partial drought for 42 days ending October 7th, with ·30 in. of R.

DUBLIN, PHŒNIX PARK.—R 4·20 in. above the average of 10 years.

BALBRIGGAN, LARAGH.—R ·99 in. more than the average of 10 years. Fruit crops promised well but were much damaged by late frosts. September abnormally dry, but heavy dews at night sustained vegetation wonderfully. Good strawberries were gathered in November and excellent peas in December.

ACLARE HOUSE.—A dropping year, with only two or three heavy falls of R. September was very dry. A perfect hurricane blew on the night of December 21st.

EDGEWORTHSTOWN, CURRYGRANE.—A phenomenally wet summer and dry autumn, especially September and October.

DIVISION XXII.—CONNAUGHT.

TUAM, CASTLE HACKET.—The largest R since the record commenced in 1887, and yet September and October, to the 22nd, were very dry.

TUAM, GARDENFIELD.—The wettest year since 1882, and crops much injured by R. The fall in January, February, April, May, July and December was 10·11 in. above the average, while March, June, August, September, October and November show a deficiency of 4·92 in. The first quarter was 4·77 in. above, the second 3·35 in. above, the third 2·66 in. below, and the fourth ·29 in. below, the average. February was the wettest recorded, and very stormy.

BALLINROBE, KILRUSH.—March was fine, and September and October very fine ; all the other months were very wet. Low temp. throughout the year.

BALLYADARE BAY, GLEN LODGE.—A dry spring, wet, cold summer, fine autumn and warm winter.

SLIGO, NEW PARK.—A wet year. July and August wet and cloudy. September abnormally dry (R·15 in.), and hardly any R till October 10th ; six weeks of summer weather (which had been the saving of the country after the previous R) ending on that date.

BALLINAMORE, LAWDERDALE.—The year may be considered a wet one, with R 4·27 in., and rainy days 13, above the average. July and August were very wet, and bad for harvest, and caused a good deal of potato blight. September, and up to October 22nd, however, was practically dry, and of great benefit.

DIVISION XXIII.—ULSTER.

EDWARD ST. STATION [NEWRY].—No R fell from August 26th to October 9th, nor on the 22nd of any month.

LURGAN, BELLE VUE.—R 1·00 in. less than the average of 13 years. Remarkable drought prevailed from August 27th to October 9th, only ·14 in. of R falling between those dates on two days. The heaviest R ever recorded occurred in October, 3·17 in. falling between the 23rd and 27th, inclusive. The R in November was an inch less than the average of 13 years.

ANTRIM, THE MANSE.—August and September were remarkably fine and favourable for harvest operations.

BALLYMENA, HARRYVILLE.—January was the coldest month, and July the wettest. There were three weeks of bright summer weather in March, and September was remarkably fine and the driest month during 17 years. On May 21st a sharp frost occurred, which destroyed the fruit blossom. During a T shower on August 2nd, 1·14 in. of R fell in about three hours, being the heaviest fall of the year. On the night of December 21st and morning of 22nd there was a great hurricane from N.W., doing much damage, the like not having been experienced for many years.

MOY, DERRYGALLY.—S fell only on three days in January and three in December. The summer was very cold and wet. There was a great storm on December 21st and 22nd.

STEWARTSTOWN, THE SQUARE.—R, and rainy days, about the average.

OMAGH, EDENFEL.—In the early months the R was excessive, and even to May 1st was double the average, and although the actual fall of the summer months was moderate, the saturated condition of the atmosphere caused the hay crop to be secured in bad order. From the end of August to the middle of October an almost unbroken drought prevailed, and an abundant corn harvest was well secured. The remaining months were remarkably mild and pleasant until December 21st, when a cyclonic gale of great violence wrought

an amount of damage equal to that of January, 1839. S and frost appeared for the first time on December 29th.

RAPHOE, CONVOY HOUSE.—Dark and gloomy with low temp. throughout, and a large R, particularly in January, July and December. Very little summer weather and not much T and L. Very little high wind till December 22nd, when there was the heaviest gale remembered for years, causing great damage. Not much S.

BUNCRANA, ROCKFORT.—January and February were unusually wet, and July was very dry, otherwise the year was not remarkable until December 21st and 22nd, when a gale of unprecedented severity swept over this district, blowing down trees, unroofing houses, and causing vessels and fishing boats on Lough Swilly to part or drag their moorings, and drifting them high on the lee shore. This was followed by another gale of great force on December 28th, also causing much damage.

HORN HEAD.—The year was remarkable for long periods of very wet, and then of very dry weather. There were no heavy falls in 24 hours. From March 15th till April 1st no R fell.

LOUGH SWILLY, CARRABLAGH.—February was the wettest and worst month since November, 1890, with many storms. Lovely weather in the second and third weeks of March, and an early spring, but the end of May was harsh and cold. June was nice, July very broken and wet. A fearful storm from N.W. occurred on August 15th, raising a winter sea. September was very dry, only .35 in. of R falling from the 5th to October 9th. Mild weather continued to Christmas, and all sorts of summer flowers remained in bloom till December 22nd, when there was the worst storm ever remembered, causing great destruction to property; on the 28th another storm occurred, with a tidal wave six feet above the highest record, which tore up the coast and did much damage to boats, &c.

HEAVY FALLS IN SHORT PERIODS IN 1894.

THIS is perhaps the department of rainfall work in which there remains the greatest lack of precision. This results from the character of the phenomena, and from the fact that the great body of Observers are amateurs, whose occupations prevent them from spending their days in watching their rain gauges so as to catch records of heavy falls. The difficulty is enhanced by the fact that a heavy rain gives no special indication of its advent, and too often even those Observers who are in the proximity of their gauges do not know that a heavy fall has commenced until it is too late to record accurately the time of commencement. Even at the great observatories there are too few recording rain gauges, and we hear that at Brussels a very exceptional fall recently occurred, without any details being secured beyond the total fall and the duration.

The term "short period" is somewhat indefinite, but may justly include very different occurrences:—(1) The phenomena known as "cloudbursts" or "waterspouts," the amounts yielded by which are beyond the capacity of any ordinary rain gauge; (2) thunderstorm rains, in which between four and five inches of rain may fall in any part of the British Isles in less than two hours; and (3) winter rains lasting, with little variation of rate, occasionally for as much as 36 hours, or possibly more, but generally for less than 15 hours.

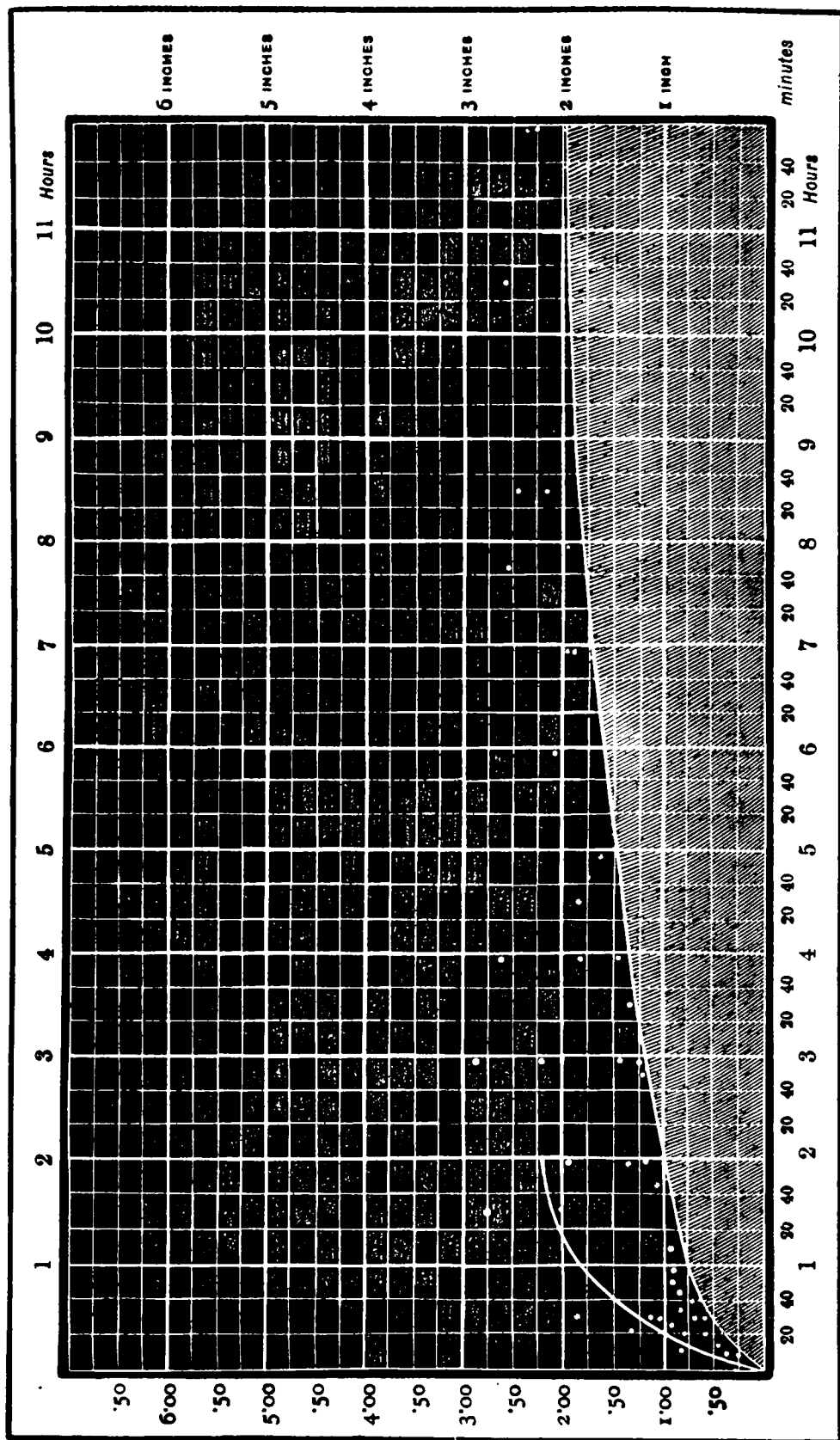
Although in 1894 no record-breaking falls of the second class (thunderstorm rains) were observed, there are several which are above the line in the diagram of "extremes rarely reached."

Aug. 26.....	VIII. Chelford, Astle Hall	·25 in. in ¼4 minutes.
July 6.....	X. Whitehaven, Irish Street	·85 „ 15 „
Aug. 10.....	‡Newark, Averham Rectory ...	1·30 „ 22 „
July 25.....	IX. Tickhill	1·82 „ 30 „
Sept. 23.....	III. High Wycomb	2·75 „ 1 hr. 30 min.
July 29.....	I. Strawberry Hill.....	2·00? „ 1 „ 30 „

Of the third class of falls (winter rains) we have received an exceptional number of records, and we have therefore re-drawn the

‡ It should perhaps be stated that this record was not received direct from the observer.

HEAVY FALLS IN SHORT PERIODS.



The shaded portion represents falls too numerous to require insertion ; the short white curve, extremes rarely exceeded.

diagram to include longer periods than in previous years. The points adopted for the curve of unimportant falls are :

In	1	hour	·75	in.		In	6	hours	1·60	in.
„	2	„	1·00	„	|	„	9	„	1·85	„
„	3	„	1·20	„	|	„	12	„	2·00	„
„	4	„	1·35	„	|					

If the curve were calculated with mathematical accuracy, it would vary from the above, which, being based on experience, is affected by human fallibility—thus, of the falls quoted as “half-an-hour,” some no doubt include small amounts which fell before the commencement of the special heavy rain ; on the other hand, as torrential rains generally last much less than an hour, records during that time include periods of unimportant rain, and the intensity is unduly diminished, *e.g.*, the mean of the falls quoted in the table for “half-an-hour” is ·93 in., while the mean of the falls in “an hour” is only ·82 in., which is obviously fallacious, for the greater includes the less. Again, if the curve in the diagram were continued to the end of 24 hours, it would not coincide with the 2·50 in. selected as the limit for heavy falls in 24 hours. This being due to the fact that while 2,321 observers recorded the greatest fall in 24 hours, probably not a tenth of that number observed the greatest falls in shorter periods ; and also to the fact that in this section the wettest consecutive hours are taken, whereas in the “Heavy Falls in 24 hours” it is the rainfall “day” ending at 9 a.m. alone which is dealt with.

We do not for a moment suggest that the curve now adopted is perfect, quite the contrary, it represents that which from the data hitherto collected seems to be reasonable, but it must not be forgotten that all in this and in previous volumes relating to heavy rains is pioneer work. No one, either on the continent or in this country, has dealt with it. The Americans are beginning to do so, but at present have not done more than tabulate excessive rains in short periods in their Monthly Weather Review. We may search the great works of Prof. Raulin, or the volumes of the *Bureau Central* of France, but we shall hardly find a line as to heavy falls in short periods. This is very strange, for surely Continental engineers must have as much trouble with storm rains in their sewers, or in excluding them, as the English engineers have, and if so, why do they not press for full information as to for what they have to provide ?

However, our duty is merely to see that the British returns are made as useful as possible, and that is what we have always tried to do.

The great rain of the year is undoubtedly the 7·74 in. at Ben Nevis in 24 hours ending 9 a.m. on February 7th. That the feature of the rain was duration rather than high intensity is shown by the fact that the greatest amount recorded in 4 hours was 2·64 in.

Of the Bristol storm of July 24th* we have the following records :

Clifton, Royal York Crescent.....	2·87 in.	in	23 hours.
Bristol Docks	1·80	„	4 „
„ „	2·47	„	8½ „
Clifton, Pembroke Road	2·62	„	12 „
Bristol, Fishponds.....	2·65	„	18 „

The half-dozen falls in 24 hours included in the table will not be found in the chronicle of maximum falls in 24 hours, inasmuch as the period in these six cases is not the rainfall day from 9 a.m. to 9 a.m.

* A diagram of this rain is given in the *Meteorological Magazine* for Aug., 1894.

Heavy Falls in Short Periods in 1894.

Date.	Div.	Station.	Amount.	Duration.		Rate per hour.
			in.	hr.	min.	in.
Oct. 26 ...	II.	Dorking, West Street	·08	...	2	2·40
" 29 ...	VIII.	Rochdale, Fieldhead	·09	...	3	1·80
July 20 ...	"	" " " "	·09	...	3½	1·54
Aug. 26 ...	"	Chelford, Astle Hall	·25	...	4?	3·75
" 16 ...	I.	Camden Square	·12	...	4	1·80
July 20 ...	VII.	Normanton-on-Wolds	·25	...	5	3·00
Aug. 8 ...	XVII.	Aberdeen, Cranford	·23	...	5	2·76
" 2 ...	VIII.	Rochdale, Fieldhead	·24	...	5½	2·74
Nov. 12 ...	I.	Camden Square	·20	...	7	1·71
July 9 ...	"	" " " "	·20	...	9	1·33
" 14 ...	II.	Godalming, Charterhouse.....	·45	...	10	2·70
Aug. 24 ...	"	Upper Gatton	·38	...	10	2·28
July 25 ...	IX.	Wakefield, Stanley Grange ...	·37	...	10	2·22
Sept. 23 ...	V.	Ashley Rectory	·25	...	10	1·50
Aug. 15 ...	VI.	Cheltenham, Southam Villa...	·20	...	10	1·20
" 24 ...	I.	Camden Square	·20	...	11	1·09
Jan. 22 ...	XI.	Newport, The Castle.....	·20	...	12	1·00
July 6 ...	X.	Whitehaven, Irish Street.....	·85	...	15	3·40
Apr. 11 ...	VI.	Cheltenham, Southam Villa...	·45	...	15	1·80
July 2 ...	IX.	Knaresborough, Farnham.....	·45	...	15	1·80
Aug. 10 ...	III.	Berkhamstead, Rosebank.....	·43	...	15	1·72
Nov. 14 ...	V.	Axminster, Great Trill	·76	...	20	2·28
July 29 ...	II.	Leatherhead, Oxshott	·60	...	20	1·80
Nov. 12 ...	III.	Berkhamstead, Rosebank.....	·27	...	20	·81
Aug. 15 ..	IX.	Beverley, East Riding Asylum	·25	...	20	·75
" 10 ...	VII.	Newark, Averham Rectory ...	1·30	...	22	3·55
July 2 ...	VIII.	Rochdale, Fieldhead	·33	...	23	·86
" 21 ...	XI.	Rosset, Trevalyn Hall	1·00	...	25	2·40
" 11 ...	X.	Witton Tower.....	·68	...	25	1·63
" 25 ...	VIII.	Bolton, Hurst Bank, Heaton	·50	...	25	1·20
" 25 ...	IX.	Tickhill	1·82	...	30	3·64
" 6 ...	IV.	Diss	1·15	...	30	2·30
July 25 ...	IX.	Tickhill, Sandbeck Park	1·00	...	30	2·00
" 10 ...	XXIII.	Belfast, Springfield	·75	...	30	1·50
Nov. 14 ...	V.	Chedington	·70	...	30	1·40
Aug. 26 ...	VII.	Findern	·57	...	30	1·14
July 24 ...	VI.	Bristol Docks	·52	...	30	1·04
Jan. 17 ...	VII.	Nottingham, Beeston Fields .	·40	...	30	·80
July 26 ...	II.	Newbury, Welford Park	·79	...	35	1·35
" 10 ...	VI.	Tenbury, Orleton	·73	...	40	1·10
" 29 ...	III.	Culham Vicarage	·85	...	45	1·13
" 29 ...	"	Oxford, St. Giles	·60?	...	45	·80
Sept. 8 ...	II.	Eastbourne, Gildredge Road .	·90	...	50	1·08
July 24 ...	VI.	Bristol Docks	·87	1	0	·87
Apr. 18 ...	"	Cheltenham, Southam Villa...	·82	1	0	·82
Feb. 6 ...	XVIII.	Ben Nevis	·81	1	0	·81
July 23 ...	IV.	Norwich, Brundall.....	·79?	1	0	·79
Oct. 26 ...	XI.	Newport, The Castle.....	·92	1	10	·79
Sept. 23 ...	III.	High Wycombe	2·75	1	30	1·83
July 29 ..	I.	Strawberry Hill	2·00?	1	30	1·33
Apr. 29 ...	XXI.	Kilkenny, Sion Villa.....	1·32?	1	30	·88
July 29 ...	VI.	Ludlow, Ashford House	·96	1	30	·64

Heavy Falls in Short Periods in 1894—continued.

Date.	Div.	Station.	Amount.	Duration.		Rate per hour.
			in.	hr.	min.	in.
July 25 ...	IX.	Wakefield, Stanley Grange ...	1·04	1	45	·59
Aug. 10 ...	IV.	Alderton Rectory	2·00	2	0	1·00
July 25 ...	IX.	Wath-on-Deerne, Chapel St. .	1·33	2	0	·66
„ 21 ...	VIII.	Seathwaite Vicarage	1·22	2	0	·61
„ 6 ...	X.	Nunwick Hall.....	1·15	2	0	·58
Oct. 24 ...	II.	Emsworth, Redlands.....	1·24	2	50	·44
July 24 ...	VI.	Clifton, Royal York Crescent	2·87	3	0?	·96
„ 2 ...	XIII.	Haddington Asylum	2·20	3	0	·73
Aug. 25 ...	III.	Hitchin.....	1·58	3	0	·53
„ 1 ...	VIII.	Whittle-le-Woods	1·43	3	0	·48
Oct. 24 ...	II.	Watergate	1·25	3	0	·42
Aug. 25 ...	II.	Maidenhead, Castle Hill House	1·29	3	30	·37
Feb. 6 ...	XVIII.	Ben Nevis	2·64	4	0	·66
July 6 ...	XVI.	Stronvar	2·53	4	0	·63
„ 24 ...	VI.	Bristol Docks	1·80	4	0	·45
Aug. 24-25	V.	Crewkerne, Bincombe House	1·80	4	0	·45
July 14 ...	II.	Shawford, Otterbourne.....	1·49	4	0	·37
„ 6 ...	XV.	Inverary, Newtown	1·39	4	0	·35
Nov. 12 ...	V.	Harptree Court	1·37	4	0	·34
„ 15 ...	III.	Waterstock	1·82	4	30	·40
July 29 ...	VI.	Ludlow, Ashford	1·75	4	45	·37
„ 6 ...	II.	Battle, Whatlington	1·67	5	0	·33
„ 29 ...	VI.	Tenbury, Orleton	2·06	6	0	·34
Sept. 8 ...	II.	Eastbourne, Wilmington Sq.	2·00	7	0	·29
Aug. 2 ...	XII.	Melrose, Abbey Gate	1·88	7	0	·27
„ 25 ...	V.	Langton Herring	2·51	7	45	·32
Dec. 21-22	XII.	Irongray, Drum Park	2·00	8	0	·25
July 24 ...	VI.	Bristol Docks	2·47	8	30	·29
„ 29 ...	II.	Liphook, Borden Wood.....	2·13	8	30	·25
„ 24 ...	VI.	Bristol Docks	2·53	10	30	·24
„ 24 ...	„	Clifton, Pembroke Road	2·62	12	0?	·22
„ 24 ...	XI.	Builth ..	2·36	12	0	·20
„ 10 ...	II.	Littlehampton.....	2·25	12	0	·19
Nov. 11 ...	„	Hassocks, Danny	2·24	12	0	·19
July 24 ...	VI.	Bristol, Fishponds	2·01	14	0	·14
„ 10 ...	II.	Ditchling	2·13	15	0	·14
„ 24 ...	XI	Dowlais, Gwernllyn	2·12	15	30	·14
„ 24 ...	„	Llanfrechfa Grange	2·44	16	0	·15
„ 29 ...	II.	Emsworth, Redlands.....	2·37	17	30	·14
„ 24 ...	V.	Bristol, Failand	2·65	18	0	·15
Nov. 13-14	„	Bishops Cannings	2·40	18	0	·13
„ 11 ...	„	Bere Ferrers	2·30	18	0	·13
July 29 ...	VI.	Ludlow, Ashford	2·20	18	0	·12
Nov. 16 ...	XX.	Killarney, Woodlawn ..	2·16	18	0	·12
„ 13-14	V.	Liskeard, Wadeland Terrace .	2·57	21	0	·12
„ 11 ...	VI.	Clifton, Pembroke Road	2·17	23	0	·09
Feb. 6-7	XVIII.	Ben Nevis	7·74	24	0	·32
Oct. 23 ...	XXIII.	Seaforde	3·80	24	0	·16
Nov. 11 ...	V.	Liskeard	2·92	24	0	·12
„ 11-12	„	Redruth, Trewirgie	2·69	24	0	·11
„ 11-12	„	Bishops Cannings	2·45	24	0	·10

HEAVY FALLS IN 24 HOURS IN 1894.

The heading of this section should perhaps be read with some reservation, inasmuch as it deals not with heavy falls in any 24 hours, but exclusively in the 24 hours constituting the rainfall day, *i.e.*, from 9 a.m. to 9 a.m. This is an important reservation, for frequently a continuous heavy rain is divided into two portions by the hour of observation, and the effect may vary considerably in different parts of the country. Thus with a depression travelling from W. to E., if the rain ceases at the western stations about 9 a.m., it will probably both begin and end several hours later at eastern stations, and consequently be recorded at them as occurring on two days.

It should also be borne in mind that the falls quoted do not include all returns exceeding the specified limits, but only such falls as are, in addition, the greatest during the year 1894 at the respective stations. Thus, for example, at Seathwaite there were during the year 7 falls of 2·50 in. or more, but in the following Chronicle only the one greatest, 4·36 in. on January 26th, will be found.

PART I.

Chronicle of falls of not less than 2·50 in., or which reach or exceed $7\frac{1}{2}$ per cent. of the total fall during the year 1894.*

JANUARY 26TH.

X. Seathwaite..... 4·36 in. or 3·0 per cent.

A wet day in the Lake District, but producing the M† at no other station.

FEBRUARY 6TH.

X.	Grasmere (Pavement End	3·65 in.	or	3·4 per cent.
XIV.	Lochwinnoch (Garthland)	2·61	„	3·7 „
„	Greenock (Prospect Hill)	2·51	„	3·8 „
XV.	Inverary Castle.....	2·56	„	3·3 „
„	(Newtown)	2·55	„	3·5 „
XVIII.	Ben Nevis Observatory	7·74	„	5·2 „
„	Fort Augustus (St. Benedict's)	2·55	„	4·7 „

* The reasons for the adoption of these limits are fully set out in *British Rainfall*, 1893, p. [126].

† M = maximum fall during the year.

A winter rain producing the M at about 25 stations, chiefly in the west of Scotland, but stretching eastward into Perthshire. This rain yielded the greatest fall of the year, 7·74 in. at Ben Nevis—an amount unparalleled in the 29 years for which details have been printed in *British Rainfall*. The hourly fall is set out *ante*, page [6].

FEBRUARY 10TH.

IX. Dunford Bridge Reservoir	2·70 in. or 4·7 per cent.
„ Holmbridge (Yateholme)	2·50 „ 4·1 „

An unimportant M at about 50 stations, chiefly in Lancashire and Yorkshire, but at a few in the N. of Ireland.

FEBRUARY 17TH.

X. Staindrop, Raby Castle	2·79 in. or 7·6 per cent.
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Although the rains on this and the preceding day were not exceptional, and only one is entitled to appear here, the M occurred at about 250 stations, distributed over the district roughly bounded by lines running from Plymouth to the Wash, and from the Bristol Channel to the Firth of Forth.

MARCH 5TH.

X. Dungeon Ghyll	4·14 in. or 3·2 per cent.
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This station is so wet that 4·14 in. is only the equivalent of a fall of an inch-and-a-half at most British stations.

JULY 2ND.

XIII. Haddington (Asylum)	2·38 in. or 8·2 per cent.
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Thunderstorms were general, but the rain was insignificant, except in the neighbourhood of Haddington.

JULY 6TH.

XVI. Balquhiddy (Stronvar)	2·53 in. or 3·1 per cent.
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Thunderstorms were again general, and produced small M at a few stations in S.E. England and central Scotland.

JULY 10TH.

II. Rochester (Knight's Place)	2·50 in. or 7·7 per cent.
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The M at about 125 stations, nearly all in the S.E. or E. of England, but 90 per cent. of the records are below two inches.

JULY 24TH.

IV.	Langham Rectory	2·43 in. or	8·9 per cent.
V.	Long Ashton Estate Office	2·89 „	7·0 „
„	Flax Bourton (Tyntesfield)	2·50 „	6·5 „
„	Bristol (Abbots Leigh)	2·85 „	6·3 „
„	„ (Failand House)	2·65 „	6·8 „
VI.	„ Docks (Underfall Yard)	2·54 „	6·8 „
„	Clifton (Royal York Crescent)	2·87 „	6·9 „
„	„ (Cecil Road)	2·75 „	6·6 „
„	„ (Pembroke Road)	2·62 „	6·3 „
„	„ (College)	2·70 „	6·5 „
VII.	Market Deeping (Wilsthorpe)	2·20 „	10·4 „
„	Wytham-on-the-Hill	2·03 „	9·0 „
XI.	Portskewett (Caldicot Hall)	3·55 „	8·2 „
„	Tredunnoch	3·12 „	7·3 „
„	Abersychan (The Hawthorns)	3·15 „	4·9 „
„	Abergavenny (Larchfield) ..	3·41 „	7·5 „
„	„ (Dyne House)	3·43 „	7·2 „
„	„ (The Chain)	3·48 „	6·9 „
„	Llanvihangel Court	2·66 „	5·9 „
„	Crickhowel (Glanusk Park)	3·45 „	6·8 „
„	„ (Gwernvale)	3·60 „	7·3 „
„	„ (Penmyarth)	3·35 „	6·6 „
„	Brecknock (Llandefaelog-fach)	2·57 „	4·6 „
„	Rhayader (Nantgwillt)	3·57 „	5·0 „

The M at rather more than a hundred stations, mostly in Wales and the adjoining counties of England, but a few across the Irish Sea in Leinster. Many of the falls and percentages are very considerable.

JULY 25TH.

VII.	Retford (Babworth Hall)	1·67 in. or	8·0 per cent.
IX.	Tickhill	2·05 „	8·2 „
„	Wakefield (Walton Hall)	1·91 „	7·5 „

The thunderstorms on this day produced M to the E. and N.E. of those of the preceding day, but at only about half as many stations, and the falls are decidedly smaller, but the percentages are high.

JULY 29TH.

I.	Twickenham (Strawberry Hill)	2·33 in. or	8·7 per cent.
„	„ (Sewage Works)	2·30 „	8·8 „
„	„ (Manor Road)	2·33 „	8·5 „
II.	Midhurst (Hollycombe)	2·64 „	6·3 „
VI.	Stourport (Lincomb Lock)	2·37 „	8·6 „

This again—as is almost always the case with heavy rains in summer—was due to thunderstorms; the M occurred at about 80 stations in Middlesex, Surrey, Sussex, Hants and Worcestershire. Though not exceptional, both the falls and percentages shown above are considerable.

AUGUST 2ND.

VIII.	Monk Coniston Park	2·58 in.	or	2·8 per cent.
X.	Aspatria (Brayton Hall).....	2·65	„	5·3 „
XII.	Jedburgh (Sunnyside).....	2·97	„	8·9 „
XVII.	Forest of Glen Tana.....	2·58	„	7·1 „
„	Cromar (Logie Coldstone Manse).....	2·50	„	8·5 „
„	„ (Logie Coldstone School).....	2·50	„	8·4 „
„	Midmar (Dun Echt Observatory).....	2·79	„	10·1 „

The M at about 130 stations in Cheshire, Lancashire, Cumberland, Westmoreland, and the S. and E. of Scotland. In England, the falls were far from exceptional, but the 2·97 in. or 8·9 per cent. at Jedburgh is worthy of mention, and the 2·79 in. or 10·1 per cent. at Dun Echt Observatory is still more so, and explains the destruction of bridges over the Aberdeenshire rivers which occurred on that day.

AUGUST 9TH.

X.	Carlisle Cemetery	2·58 in.	or	6·6 per cent.
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This was evidently the fringe of the “storm,” “cloudburst” or “Waterspout” described in the remarks for this day. The M occurred on the same day at half a dozen surrounding stations in Northumberland and Berwick.

AUGUST 13TH.

XV.	Ballachulish (Ardsheal)	2·84 in.	or	3·4 per cent.
XVIII.	Loch Shiel (Glenaladale).....	3·11	„	2·9 „

About a score of stations in the west of Scotland recorded the M on this day, but, considering the wetness of the district, the falls are unimportant.

AUGUST 25TH.

V.	Bridport (Portville).....	2·78 in.	or	6·6 per cent.
„	„ (Coneygar)	2·63	„	6·6 „
„	Beaminster (Chedington)	3·09	„	5·6 „
„	Yeovil (West Coker)	2·61	„	6·1 „

Severe thunderstorms were reported from many parts of the country, and the M occurred at nearly 70 stations, mostly between longitude 2° and 4° W. ; it will be seen that the greatest falls occurred in Dorset and Somerset.

SEPTEMBER 23RD.

IV.	Witham (Little Braxted Hall)	2·28 in.	or	8·5 per cent.
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A very local TS early on the 24th produced the M at this station, but at no other in the neighbourhood. The heavy rain did considerable damage.

OCTOBER 23RD.

XXI.	Laragh (Glendalough).....	3·22 in. or 5·1 per cent.
XXIII.	Newcastle (Fairleigh).....	3·57 „ 6·2 „
„	Castlewellan (Lough Island).....	3·70 „ 7·6 „
„	Seaforde.....	3·57 „ 8·7 „

The M at more than 50 stations distributed thickly over the S.W., S., S.E., E. and N.E. of Ireland, and evidently *the rain of the year in that country.*

The observer at Seaforde speaks of it as the greatest rain since observations began in 1868, and taken as a whole it is probably a very exceptional fall for Ireland, though there are less than a dozen records exceeding two inches.

The M also at some 30 stations scattered irregularly over England and Wales, and at a few in the S. of Scotland.

OCTOBER 26TH.

XI.	Treherbert	2·58 in. or 2·7 per cent.
„	Capel Curig (Lake Cowlyd)	2·70 „ 3·5 „

Nearly 70 stations, chiefly in Yorkshire, but also stretching South-westward into Wales, recorded the M on this day ; very few records exceed 1·50 in., and those set out above are, by the smallness of the percentage, shown to be unimportant.

OCTOBER 30TH.

II.	Croydon (Chatfield Road).....	2·43 in. or 8·1 per cent.
„	Sidcup (Hatherley Road)	3·56 „ 11·1 „
XI.	Neath (Glyncorrgwg)	2·58 „ 2·6 „

The M at nearly 200 stations in Divisions I., II., III., IV., VI., and XI., or roughly in the S.E., E., and centre of England and the South of Wales. At only six stations did the fall exceed two inches, but the Sidcup record is decidedly exceptional.

OCTOBER 31ST.

XI.	Llanberis (Glyn Padarn)	3·10 in or 4·3 per cent.
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A heavy rain on the slopes of Snowdon, quite local in character.

NOVEMBER 1st,

VIII.	Seathwaite Vicarage	2·68 in. or 3·1 per cent.
„	Skelwith Fold [Ambleside]	2·56 „ 2·7 „
X.	Duddon Valley (Ulpha Vic).....	2·65 „ 3·3 „
„	Borrowdale Vicarage.....	3·99 „ 3·5 „
„	„ (Grange)	3·55 „ 3·4 „
„	Keswick (Barrow House)	3·35 „ 4·1 „
„	Ambleside (Lesketh House).....	2·53 „ 2·8 „
„	Elterwater (Birch Hill)	3·51 „ 3·2 „
„	Grasmere (High Close)	3·36 „ 3·5 „
„	Patterdale Hall	3·40 „ 3·5 „

A rain which at first sight looks important, but the M at less than 20 stations in the Lake District, and not exceptional for that region.

NOVEMBER 11TH.

II.	Chichester (Westgate)	2·68	in.	or 6·9	per cent.
„	„ (Sewage Works).....	2·71	„	7·7	„
„	„ (North Pallant)	2·68	„	6·6	„
V.	Salcombe (Shadycombe)	2·70	„	6·6	„
„	Kingsbridge.....	2·67	„	5·7	„
„	Paignton (Sarsden Lodge)	2·55	„	5·5	„
„	Sheepstor (Redstone).....	3·11	„	4·9	„
„	Penzance (St. Clare)	2·56	„	5·7	„
„	St. Ives	2·93	„	6·4	„
„	St. Just in Penwith	3·36	„	7·3	„
XI.	Scilly (Tresco Abbey)	2·62	„	7·0	„

NOVEMBER 12TH.

V. Falmouth (Carclew) 2·84 in. or 7·2 per cent.

This gauge is read at 5 p.m., and consequently the M does not correspond with others.

NOVEMBER 13TH.

V.	Ashburton (Druid).....	2·65	in.	or 4·1	per cent.
X.	Cockermouth (Hassness)	3·07	„	2·7	„
XI.	Tredeggar (The Willows) ..	2·54	„	3·6	„
„	Treherbert (Tyn-y-waun)	2·71	„	2·8	„
„	Aberdare (Cwmaman)	2·74	„	3·5	„
„	„ (Mardy)	2·75	„	3·8	„
„	Tregaron Vicarage.....	2·82	„	5·3	„
„	Builth (Abergwessin Vic.)	2·73	„	3·6	„

November 11th to 14th were the days of the great rains which produced the wide-spread floods in many parts of the country, unprecedented for more than half a century. The rivers and streams had to carry off not only the great quantities shown above, but also in most cases considerable falls on each of the other days.

The following table summarises the number of stations reporting the M on each day, and the number of falls exceeding two inches.

	Nov. 11th.	12th.	13th.	14th.
Number of M	110	234	90	74
Number of falls exceeding 2 in.	42	9	20	4

NOVEMBER 16TH.

XX. Kenmare (Derreen) 3·60 in. or 5·3 per cent.

The only M on this date, but stations are few in the district and the nearest reports a fall of 2·16 in. 18 hours.

DECEMBER 12TH.

XVIII. Glenquoich 2·69 in. or 2·5 per cent.

The M at two stations in the heart of the Highlands, and not important considering the character of the district.

DECEMBER 17TH.

X. Cleator Moor 2·53 in. or 4·1 per cent.
Described by the observer as an extremely local fall, and no other
M occurred on the same day.

DECEMBER 21ST.

X. Keswick (Deer Close) ... 2·61 in. or 3·8 per cent.
,, ,, (Eskin Place)..... 2·51 ,, 3·7 ,,
,, ,, (Shu-le-Crow) 2·56 ,, 3·5 ,,
XV. Loch Eil (Conaglen) 3·00 ,, 2·9 ,,

The M at about 25 stations in North Yorkshire, Cumberland, and the West of Scotland. The falls are considerable but not exceptional for wet districts.

It may be of interest to point out the striking difference between this chronicle of heavy falls and the similar results for 1893 :—

		1893.	1894.
Total records		2,267	2,321
Number claiming entry	{	167	108
in Chronicle		55	96
		112	12

ABSTRACT.

This sub-heading involves the consideration of the maximum daily falls from two aspects, as regards (1) the highest values, and (2) the average for all stations.

The facts as regards (1) are given in Tables I. to IV., and as regards (2) in Table V.

Table I. contains the 16 largest daily maxima reported, and we find it headed by the largest fall ever recorded at a British station, exceeding by nearly half-an-inch the greatest previous record, which occurred at the same station in 1890. The item next in importance is the fall of 3·56 in. at Sidcup, a comparatively dry station, but this fact is by no means exceptional, for as we have repeatedly written, there appears to be no part of the British Isles where a fall of more than 4 inches may not be expected.

The only other feature of the table which appears to call for comment is the absence of high percentages, only one exceeding 9 per cent. This is borne out by Table II., which shows that while the average of the sixteen largest max. falls is a quarter-of-an-inch above the mean of previous years, the percentage is rather below it, the items being as a rule normal falls at wet stations, rather than abnormal ones at dry stations.

The above reference to the Sidcup record is emphasized by Table III., in which it heads the list, and also by the second half of Table IV., which shows that out of the last 29 years only 9 have yielded a smaller maximum percentage.

The first half of Table IV., *i.e.*, the average of the 16 records quoted in Table III., again illustrates the absence of exceptional rains at dry stations in 1894, for although the mean total fall is more than half-an-inch less than the average of 29 years, the sixteen largest percentages give a mean also less than usual.

The indications of Tables I. to IV. may therefore be shortly summed up as clear evidence of the absence of phenomenal rains in 1894, with the one exception of the great fall at Ben Nevis on Feb. 6th.

Table V. and the summary of falls exceeding 2·00 in. and 3·00 in. appear at first sight to be somewhat contradictory, for while the former gives for 1894 values in every column curiously near the average, the latter shows a great excess of falls exceeding two inches and a smaller excess of falls above three inches, but reference to the detailed tables at once explains the difficulty by the great number of max. falls of less than an inch.

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.		Per cent. of total No.	
1882	1463	.....	140	.....	8	.....
3	1505	.....	170	.....	23	.....
4	1691	.....	138	.....	9	.....
5	1801	.....	179	.....	24	.....
6	1718	.....	158	.....	44	.....
7	1921	.....	52	.....	4	.....
8	1974	.....	374	.....	34	.....
9	1812	.....	170	.....	24	.....
1890	2081	.....	345	.....	54	.....
1	2218	.....	270	.....	39	.....
2	2231	.....	470	.....	81	.....
3	2267	.....	183	.....	29	.....
Mean	1890	.....	221	.....	31	.....
1894	2321	.....	313	.....	36	.....
Diff.	+431	.....	+92	.....	+5	.....

Table V., in addition to the average maximum fall at more than 2,300 stations, gives the average total fall for the year also, and this value works out to 35·00 in., an amount 1·59 in. above the average of the corresponding value for 29 years, but only one inch above the 34 inches which has for many years been assumed (at the head of col. 6 in the table) to represent the average yearly rainfall over the whole kingdom.

TABLE I.—*Maximum Falls in 1894.*

Date.	Div.	Station.	Depth.	Per Cent.	Fall in year.
Feb. 6 ...	XVIII.	Ben Nevis Observatory	7·74in.	5·2	149·94 in.
Jan. 26 ...	X.	Seathwaite	4·36 „	3·0	145·52 „
Mar. 5 ...	„	Dungeon Ghyll.....	4·14 „	3·2	131·13 „
Nov. 1 ...	„	Borrowdale Vicarage	3·99 „	3·5	114·47 „
Oct. 23 ...	XXIII.	Castlewellan (Lough Island).	3·70 „	7·6	48·64 „
Feb. 6 ...	X.	Grasmere (Pavement End) ...	3·65 „	3·4	108·98 „
July 24 ...	XI.	Crickhowel (Gwernvale)	3·60 „	7·3	49·45 „
Nov. 16 ...	XX.	Kenmare (Derreen)	3·60 „	5·3	68·12 „
Oct. 23 ...	XXIII.	Seaforde.....	3·57 „	8·7	40·88 „
„ „ ...	„	Newcastle Fairleigh.....	3·57 „	6·2	57·31 „
July 24 ...	XI.	Rhayader (Nantgwillt)	3·57 „	5·0	71·83 „
Oct. 30 ...	II.	Sidcup (Hatherley Road) ...	3·56 „	11·1	32·10 „
July 24 ...	XI.	Portskewett (Caldicot Hall).	3·55 „	8·2	43·43 „
Nov. 1 ...	X.	Borrowdale (Grange)	3·55 „	3·4	105·12 „
„ „ ...	„	Elterwater (Birch Hill)	3·51 „	3·2	110·65 „
July 24 ...	XI.	Abergavenny (The Chain) ...	3·48 „	6·9	50·60 „

TABLE II.—*Comparison of Maximum Falls with those in previous years.*

MEAN.				ABSOLUTE.			
Years.	Depth.	Per Cent.	Mean total fall at these stations.	Depth.	Per Cent.	Station.	Division.
	in.		in.	in.			
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.	„
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.....	„
Mean ...	3·68	6·4	69·9	5·27	6·7	.....	...
1894 ...	3·95	5·7	83·0	+7·74	5·1	Ben Nevis Obs.	XVIII.
Diff. ...	+·27	—·7	+13·1	+2·47	—1·6	.....	...

TABLE III.—*Maximum Percentages in 1894.*

Date.	Div.	Station.	Per Cent.	Depth.	Fall in year.
Oct. 30 ...	II.	Sidcup (Hatherley Road) ...	11·1	3·56 in.	32·10 in.
July 24 ...	VII.	Market Deeping (Wilsthorpe)	10·4	2·20 „	21·24 „
Aug. 2 ...	XVII.	Midmar (Dun Echt Obs.) ...	10·1	2·79 „	27·67 „
July 24 ...	VII.	Bourne(Wytham-on-the-Hill)	9·0	2·03 „	22·53 „
Aug. 2 ...	XII.	Jedburgh (Sunnyside).....	8·9	2·97 „	33·42 „
July 24 ...	IV.	Langham Rectory	8·9	2·43 „	27·34 „
„ 29 ...	I.	Twickenham (Sewage Works)	8·8	2·30 „	26·24 „
Oct. 23 ...	XXIII.	Seaforde.....	8·7	3·57 „	40·88 „
July 29 ...	I.	Twick'nham(Strawberry Hill)	8·7	2·33 „	26·77 „
„ „ ...	VI.	Stourport (Lincombe Lock)..	8·6	2·37 „	27·59 „
Aug. 2 ..	XVII.	Cromar (Logie Coldstone Manse)	8·5	2·50 „	29·35 „
July 29 ...	I.	Twickenham (Manor Road)...	8·5	2·33 „	27·40 „
Sept. 23 ...	IV.	Witham (Little Braxted Hall)	8·5	2·28 „	26·65 „
Aug. 2 ...	XVII.	Cromar (Logie Coldstone School)	8·4	2·50 „	29·71 „
July 2 ...	XIII.	Haddington Asylum	8·2	2·38 „	29·20 „
„ 25 ...	IX.	Tickhill.....	8·2	2·05 „	24·89 „

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.
		in.	in.		in.		
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	Craggside	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.
Mean ..	9·8	2·79	28·9	12·5	3·73	.....[Road)	...
1894 ...	9·0	2·54	28·3	11·1	3·56	Sidcup(Hatherley	II.
Diff. ...	— 8	— 25	— 6	— 1·4	— 17	.....	...

TABLE V.—*Comparison of the Mean of all the Maximum Falls of 1894 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. =
			in.	in.		
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 „
Mean ...	1293	4·4	1·47	33*	98	4·3 „
1894.....	2321	4·2	1·46	35	103	4·3 „
Diff....	+1028	— ·2	— ·01	+ 2	+ 5	·0 „

* Really 33·41.

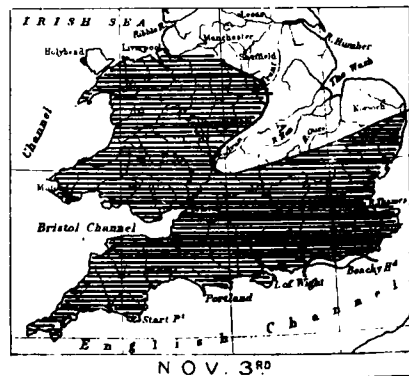
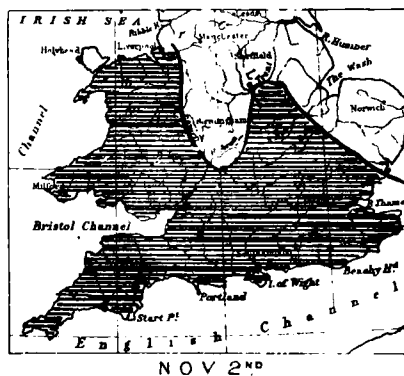
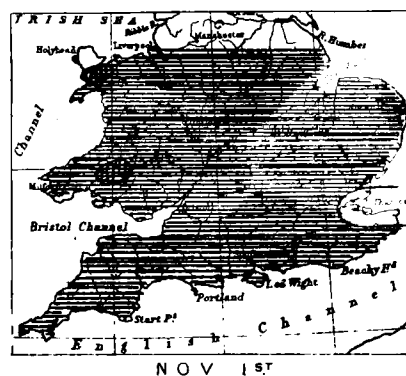
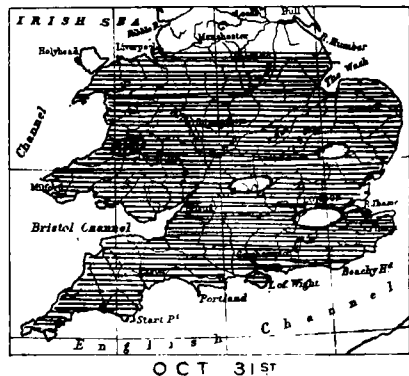
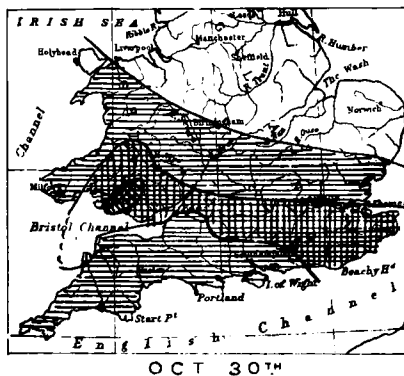
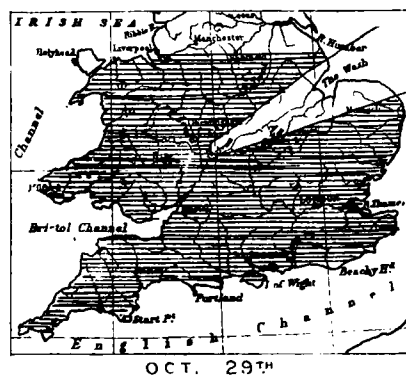
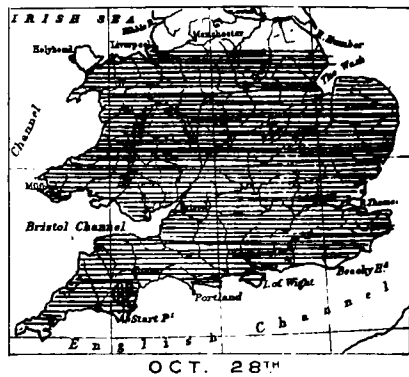
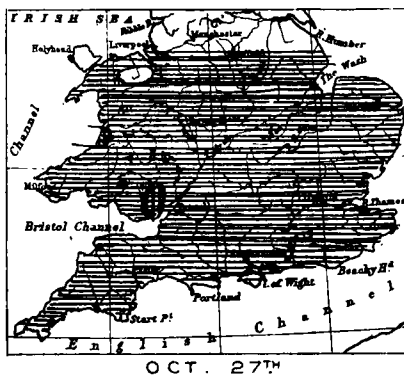
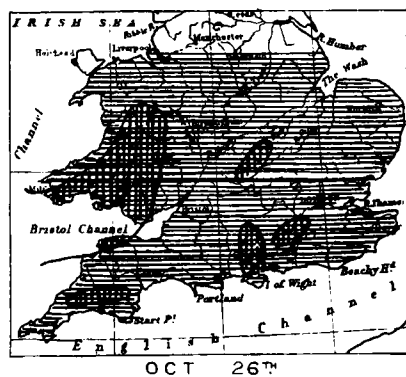
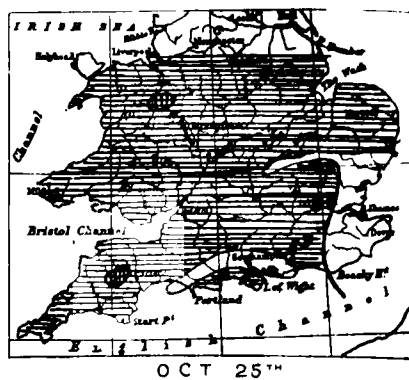
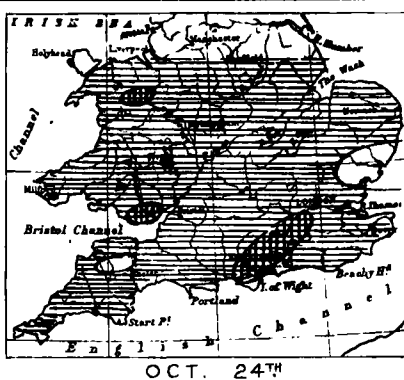
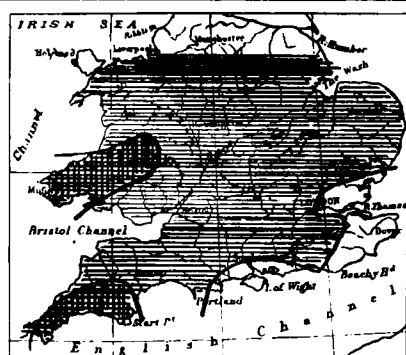
THE OCTOBER AND NOVEMBER FLOODS.

REFERENCE has already been made in earlier sections of this volume to the serious nature of the floods which occurred in the latter part of October and the middle of November—and an entire volume of *British Rainfall* might advantageously be occupied with a notice of these and of previous floods, but time and funds do not permit. The floods in the West of England, and in the Thames valley have already been partly dealt with in the *Meteorological Magazine* for December, 1894, and in papers read before the Royal Meteorological Society, and we shall endeavour here to give a general and consecutive narrative, with as little repetition as is possible of what has already been said.

We have arranged the information which we are about to give in the following sections :—

- (1) Tables giving the actual fall for each day at 72 stations, well distributed over that portion of the British Isles in which the fall was excessive.
- (2) A series of small maps, one for each day, which show respectively the area on which no rain fell, where the fall was under an inch, where it was between one and two inches, and where it exceeded two inches.*
- (3) A brief description of the rainfall of each day.
- (4) A short account of the flooding, also arranged in the order of date.
- (5) A discussion of the normal rainfall for October 23rd to November 16th, and of the intensity and locality of greatest excess in 1894.

* We may add that this is the first series of the kind ever published, and that we have always held that our rainfall work will not be perfect until such charts are prepared for every day in the year, but at present the cost is utterly beyond our resources.



DAILY RAINFALL. Oct. 23RD TO Nov. 3RD 1894.

PHOTOGRAPHED FROM THE ORIGINAL MANUSCRIPTS.

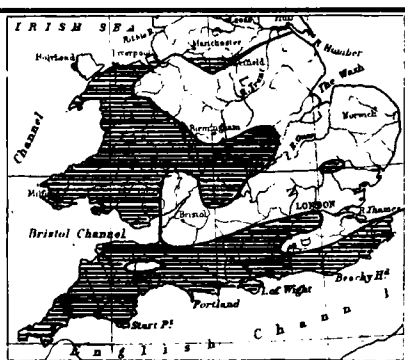
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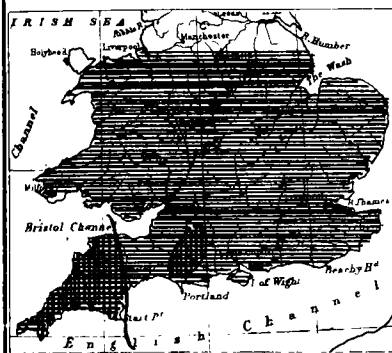
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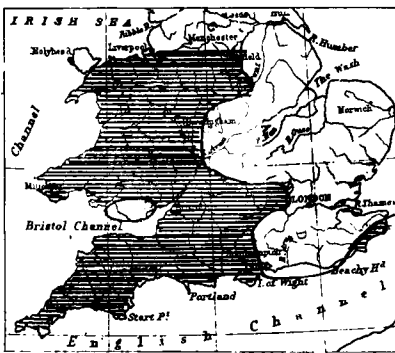
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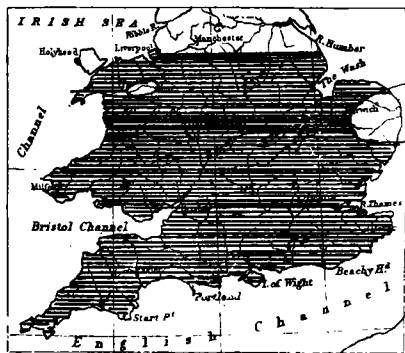
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NOV. 7TH



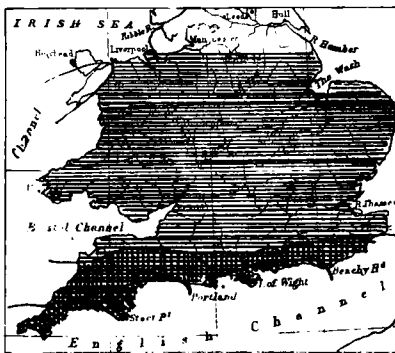
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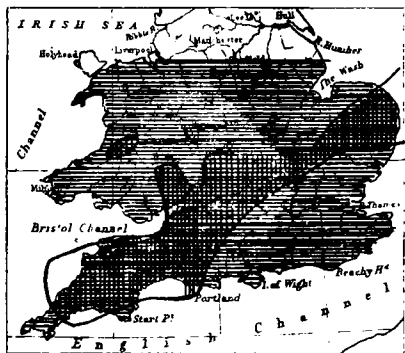
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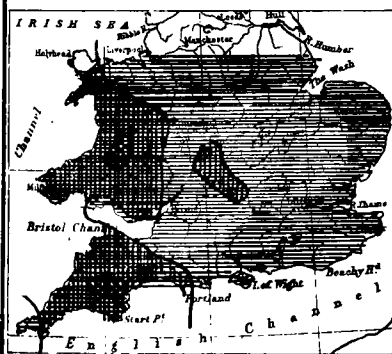
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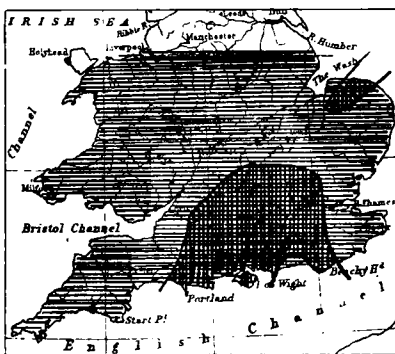
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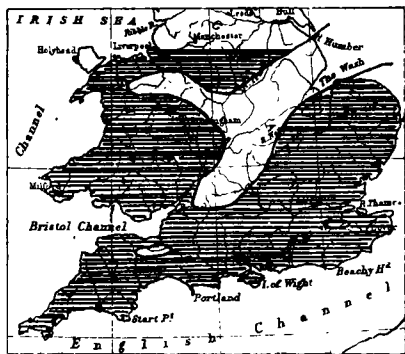
NOV. 12TH



NOV. 13TH



NOV. 14TH



NOV. 15TH

DAILY RAINFALL. Nov. 4TH TO 15TH 1894.

PHOTOGRAPHED FROM THE ORIGINAL MANUSCRIPTS.
 NO SHADING SHOWS NO RAIN; HORIZONTAL SHADING, RAIN UNDER AN INCH; HORIZONTAL AND VERTICAL, RAIN BETWEEN 1 AND 2 INCHES; HORIZONTAL, VERTICAL AND INCLINED, RAINFALL BETWEEN 2 AND 3 INCHES.

Daily Rainfall, October 23rd to November 16th.

1894.	Middlesex— Pinner Hill.	Surrey— Haslemere, Halehurst.	" Abinger Hall.	" Wallington.	Kent— Tenterden.	" Sevenoaks, Riverhead.	" Birehington, Thor.	" Laphey, Leydown.	Sussex— Steyning.	" Hailsham.	" Ditchling.	Hants Osborne, Newbarn Cottage.	" Alton, Ashdell.	" Whitchurch, Longparish.	Berks— Lamborne.	Herts— Broxbourne, Stafford House.	" Hitchin, Writen.	Bucks— Wendover, Halton Gardens.	" Addington Manor.	Oxford— Henley-on-Thames.	" Abingdon, Culham.	" Banbury, Bloxham Grove.	Norfolks— Pittsford, Sedgebrook.	Hunts— Alconbury.
Oct. 23	in. .07	in. .07	in. .05	in. .05	in. .05	in. .05	in. .03	in. .02	in. .24	in. .03	in. .25	in. .01	in. .34	in. .45	in. .14	in. .02	in. .04	in. .11	in. .04	in. .14	in. .20	in. .24	in. .03	in. .04
" 24	in. .52	in. .62	in. .62	in. .45	in. .41	in. .45	in. .23	in. .42	in. .66	in. .61	in. .70	in. .99	in. .77	in. .27	in. .54	in. .57	in. .44	in. .68	in. .67	in. .59	in. .42	in. .29	in. .41	in. .24
" 25	in. .01	in. .11	in. .11	in. .13	in. .28	in. .05	in. .20	in. .21	in. .91	in. .03	in. .01	in. .05	in. .35	in. .03	in. .03	in. .04	in. .48	in. .48	in. .02	in. .03	in. .04	in. .10	in. .13	in. .06
" 26	in. .37	in. .95	in. .95	in. .69	in. .10	in. .05	in. .05	in. .18	in. .31	in. .23	in. .36	in. .09	in. .81	in. .10	in. .45	in. .40	in. .32	in. .48	in. .08	in. .49	in. .07	in. .23	in. .52	in. .43
" 27	in. .19	in. .23	in. .21	in. .26	in. .19	in. .22	in. .19	in. .20	in. .11	in. .26	in. .28	in. .54	in. .80	in. .54	in. .46	in. .66	in. .38	in. .39	in. .35	in. .44	in. .43	in. .31	in. .27	in. .24
" 28	in. .56	in. .43	in. .43	in. .40	in. .19	in. .22	in. .16	in. .13	in. .77	in. .79	in. .54	in. .53	in. .33	in. .20	in. .18	in. .02	in. .02	in. .07	in. .04	in. .16	in. .13	in. .02	in. .03	in. .03
" 29	in. .12	in. .30	in. .24	in. .34	in. .28	in. .23	in. .16	in. .13	in. .83	in. .00	in. .01	in. .79	in. .93	in. .86	in. .25	in. .87	in. .28	in. .85	in. .70	in. .44	in. .40	in. .59	in. .19	in. .10
" 30	in. .10	in. .06	in. .04	in. .53	in. .50	in. .41	in. .07	in. .40	in. .01	in. .00	in. .05	in. .02	in. .09	in. .18	in. .08	in. .02	in. .04	in. .04	in. .05	in. .04	in. .11	in. .07	in. .01	in. .01
" 31	in. .03	in. .10	in. .06	in. .09	in. .07	in. .17	in. .03	in. .02	in. .47	in. .18	in. .41	in. .28	in. .21	in. .27	in. .47	in. .05	in. .05	in. .08	in. .27	in. .06	in. .11	in. .22	in. .12	in. .04
Nov. 1	in. .15	in. .27	in. .12	in. .09	in. .01	in. .03	in. .02	in. .05	in. .13	in. .00	in. .09	in. .34	in. .06	in. .15	in. .14	in. .02	in. .05	in. .08	in. .12	in. .06	in. .07	in. .03	in. .03	in. .02
" 2	in. .03	in. .06	in. .05	in. .23	in. .14	in. .19	in. .08	in. .10	in. .00	in. .00	in. .09	in. .34	in. .20	in. .28	in. .02	in. .23	in. .18	in. .14	in. .04	in. .23	in. .04	in. .00	in. .03	in. .02
" 3	in. .17	in. .22	in. .23	in. .23	in. .14	in. .19	in. .08	in. .10	in. .00	in. .00	in. .01	in. .01	in. .04	in. .02	in. .03	in. .04	in. .12	in. .00	in. .09	in. .00	in. .00	in. .00	in. .00	in. .00
" 4	in. .12	in. .09	in. .10	in. .09	in. .12	in. .03	in. .02	in. .00	in. .26	in. .21	in. .20	in. .05	in. .08	in. .09	in. .12	in. .04	in. .12	in. .00	in. .02	in. .09	in. .00	in. .00	in. .00	in. .00
" 5	in. .03	in. .03	in. .03	in. .04	in. .03	in. .03	in. .03	in. .03	in. .46	in. .41	in. .34	in. .49	in. .50	in. .47	in. .69	in. .31	in. .46	in. .74	in. .78	in. .59	in. .66	in. .39	in. .30	in. .57
" 6	in. .35	in. .50	in. .45	in. .48	in. .29	in. .57	in. .25	in. .31	in. .26	in. .21	in. .01	in. .13	in. .14	in. .11	in. .14	in. .07	in. .03	in. .14	in. .04	in. .03	in. .08	in. .00	in. .04	in. .04
" 7	in. .03	in. .31	in. .21	in. .09	in. .01	in. .07	in. .09	in. .08	in. .26	in. .15	in. .22	in. .15	in. .14	in. .12	in. .07	in. .06	in. .03	in. .14	in. .04	in. .12	in. .08	in. .17	in. .11	in. .15
" 8	in. .11	in. .06	in. .17	in. .22	in. .11	in. .17	in. .07	in. .17	in. .19	in. .26	in. .18	in. .21	in. .27	in. .13	in. .07	in. .08	in. .03	in. .12	in. .07	in. .12	in. .50	in. .27	in. .16	in. .14
" 9	in. .40	in. .84	in. .62	in. .37	in. .12	in. .73	in. .91	in. .52	in. .16	in. .15	in. .63	in. .21	in. .78	in. .69	in. .73	in. .42	in. .42	in. .54	in. .29	in. .49	in. .50	in. .27	in. .16	in. .14
" 10	in. .00	in. .83	in. .64	in. .01	in. .34	in. .74	in. .27	in. .45	in. .87	in. .52	in. .35	in. .71	in. .97	in. .05	in. .47	in. .62	in. .37	in. .22	in. .01	in. .11	in. .39	in. .09	in. .14	in. .94
" 11	in. .19	in. .65	in. .58	in. .22	in. .21	in. .11	in. .02	in. .07	in. .13	in. .21	in. .18	in. .44	in. .80	in. .66	in. .89	in. .18	in. .25	in. .47	in. .53	in. .40	in. .80	in. .48	in. .09	in. .06
" 12	in. .16	in. .34	in. .18	in. .11	in. .81	in. .96	in. .60	in. .54	in. .97	in. .06	in. .85	in. .43	in. .27	in. .37	in. .40	in. .05	in. .07	in. .33	in. .02	in. .18	in. .28	in. .42	in. .53	in. .62
" 13	in. .11	in. .22	in. .20	in. .13	in. .34	in. .00	in. .17	in. .31	in. .41	in. .26	in. .52	in. .23	in. .12	in. .08	in. .01	in. .11	in. .09	in. .02	in. .01	in. .01	in. .00	in. .42	in. .53	in. .62
" 14	in. .02	in. .31	in. .28	in. .13	in. .01	in. .41	in. .10	in. .09	in. .20	in. .00	in. .11	in. .25	in. .04	in. .06	in. .05	in. .00	in. .01	in. .03	in. .01	in. .04	in. .00	in. .42	in. .53	in. .62
" 15	in. .02	in. .31	in. .28	in. .13	in. .01	in. .41	in. .10	in. .09	in. .20	in. .00	in. .11	in. .25	in. .04	in. .06	in. .05	in. .00	in. .01	in. .03	in. .01	in. .04	in. .00	in. .42	in. .53	in. .62
" 16	in. .02	in. .31	in. .28	in. .13	in. .01	in. .41	in. .10	in. .09	in. .20	in. .00	in. .11	in. .25	in. .04	in. .06	in. .05	in. .00	in. .01	in. .03	in. .01	in. .04	in. .00	in. .42	in. .53	in. .62
Total	6.94	10.53	9.60	8.21	6.43	6.88	4.58	5.25	10.34	7.53	8.64	11.06	10.35	9.42	9.55	6.00	5.70	7.66	6.56	8.06	8.22	6.38	5.23	4.15

Daily Rainfall, October 23rd to November 16th—(continued).

1861.	Essex— Saffron Walden, Newport.	Suffolk— Rendlesham Hall.	Norfolk— Diss.	" Swaffham.	Wills— Salisbury.	" Bishops Cannings.	" New Swindon.	Dorset— Portland.	" Maiden Newton.	" Blandford, Whitcombe.	Devon— Torquay, Cary Green.	" Ashburton, Druid House.	" Tavistock, Rose Villa.	" Okehampton, Oaklands.	" Hartland Abbey.	" Lynmouth, Glenhorne.	Cornwall— Penzance, St. Clare.	" Redruth, Trewirgie.	" Bodmin, Lanhydrock.	Somerset— Wellington, Sunnyside.	" Stowell Rectory.	" Wells (Garden).	Gloucester— Clifton, Pembroke Road.	" Stroud, Upheld.
Oct. 23	in. .02	in. .25	in. .03	in. .11	in. .30	in. .37	in. .16	in. .28	in. .36	in. .41	in. .85	in. .54	in. .28	in. .31	in. .72	in. .54	in. .90	in. .09	in. .04	in. .70	in. .30	in. .25	in. .11	in. .34
" 24	in. .38	in. .50	in. .23	in. .50	in. .50	in. .23	in. .36	in. .16	in. .50	in. .48	in. .45	in. .86	in. .03	in. .03	in. .17	in. .78	in. .15	in. .20	in. .09	in. .15	in. .16	in. .04	in. .53	in. .19
" 25	in. .02	in. .00	in. .25	in. .60	in. .00	in. .07	in. .05	in. .04	in. .00	in. .11	in. .11	in. .32	in. .10	in. .95	in. .04	in. .05	in. .17	in. .05	in. .10	in. .02	in. .02	in. .03	in. .08	in. .05
" 26	in. .20	in. .29	in. .25	in. .33	in. .30	in. .78	in. .78	in. .16	in. .85	in. .52	in. .86	in. .24	in. .94	in. .80	in. .93	in. .03	in. .44	in. .13	in. .08	in. .75	in. .92	in. .55	in. .75	in. .54
" 27	in. .10	in. .17	in. .06	in. .30	in. .18	in. .19	in. .24	in. .04	in. .10	in. .50	in. .10	in. .47	in. .13	in. .91	in. .52	in. .82	in. .53	in. .57	in. .40	in. .44	in. .40	in. .32	in. .25	in. .20
" 28	in. .52	in. .11	in. .52	in. .50	in. .56	in. .48	in. .52	in. .40	in. .63	in. .50	in. .82	in. .08	in. .41	in. .80	in. .43	in. .52	in. .53	in. .49	in. .58	in. .49	in. .61	in. .57	in. .52	in. .40
" 29	in. .03	in. .10	in. .10	in. .00	in. .40	in. .10	in. .39	in. .56	in. .76	in. .35	in. .56	in. .47	in. .55	in. .80	in. .85	in. .40	in. .64	in. .63	in. .64	in. .58	in. .71	in. .43	in. .16	in. .13
" 30	in. .37	in. .00	in. .03	in. .02	in. .30	in. .09	in. .28	in. .34	in. .76	in. .32	in. .17	in. .72	in. .73	in. .35	in. .12	in. .55	in. .41	in. .45	in. .29	in. .12	in. .29	in. .32	in. .72	in. .23
" 31	in. .04	in. .05	in. .04	in. .02	in. .29	in. .30	in. .70	in. .23	in. .52	in. .50	in. .20	in. .84	in. .41	in. .25	in. .09	in. .09	in. .14	in. .45	in. .22	in. .44	in. .29	in. .18	in. .05	in. .10
Nov. 1	in. .05	in. .05	in. .04	in. .02	in. .29	in. .30	in. .21	in. .31	in. .52	in. .33	in. .25	in. .60	in. .33	in. .26	in. .46	in. .31	in. .28	in. .62	in. .22	in. .08	in. .31	in. .14	in. .24	in. .32
" 2	in. .03	in. .05	in. .05	in. .00	in. .14	in. .10	in. .15	in. .06	in. .55	in. .33	in. .36	in. .37	in. .36	in. .20	in. .08	in. .12	in. .11	in. .15	in. .22	in. .08	in. .33	in. .16	in. .02	in. .03
" 3	in. .11	in. .05	in. .05	in. .07	in. .31	in. .04	in. .03	in. .19	in. .22	in. .27	in. .10	in. .16	in. .05	in. .11	in. .15	in. .18	in. .04	in. .24	in. .03	in. .06	in. .10	in. .10	in. .04	in. .10
" 4	in. .03	in. .05	in. .05	in. .07	in. .02	in. .06	in. .02	in. .11	in. .20	in. .07	in. .07	in. .16	in. .25	in. .15	in. .05	in. .04	in. .25	in. .24	in. .12	in. .22	in. .02	in. .25	in. .04	in. .10
" 5	in. .10	in. .05	in. .05	in. .06	in. .07	in. .06	in. .10	in. .10	in. .03	in. .04	in. .05	in. .28	in. .02	in. .06	in. .04	in. .03	in. .12	in. .15	in. .08	in. .09	in. .18	in. .25	in. .06	in. .04
" 6	in. .10	in. .05	in. .05	in. .07	in. .04	in. .05	in. .10	in. .10	in. .03	in. .04	in. .05	in. .32	in. .08	in. .06	in. .04	in. .03	in. .12	in. .15	in. .08	in. .09	in. .18	in. .25	in. .06	in. .04
" 7	in. .30	in. .23	in. .25	in. .17	in. .37	in. .55	in. .38	in. .58	in. .02	in. .15	in. .87	in. .32	in. .08	in. .09	in. .96	in. .23	in. .02	in. .90	in. .27	in. .85	in. .08	in. .90	in. .65	in. .58
" 8	in. .08	in. .06	in. .05	in. .13	in. .16	in. .18	in. .16	in. .24	in. .18	in. .15	in. .33	in. .33	in. .45	in. .23	in. .34	in. .28	in. .53	in. .33	in. .49	in. .34	in. .22	in. .25	in. .17	in. .25
" 9	in. .08	in. .06	in. .05	in. .13	in. .16	in. .18	in. .16	in. .24	in. .18	in. .15	in. .33	in. .33	in. .45	in. .23	in. .34	in. .28	in. .53	in. .33	in. .49	in. .34	in. .22	in. .25	in. .17	in. .25
" 10	in. .04	in. .06	in. .05	in. .13	in. .16	in. .18	in. .16	in. .24	in. .18	in. .15	in. .33	in. .33	in. .45	in. .23	in. .34	in. .28	in. .53	in. .33	in. .49	in. .34	in. .22	in. .25	in. .17	in. .25
" 11	in. .35	in. .38	in. .26	in. .05	in. .08	in. .18	in. .16	in. .24	in. .18	in. .15	in. .33	in. .33	in. .45	in. .23	in. .34	in. .28	in. .53	in. .33	in. .49	in. .34	in. .22	in. .25	in. .17	in. .25
" 12	in. .11	in. .28	in. .26	in. .05	in. .08	in. .18	in. .16	in. .24	in. .18	in. .15	in. .33	in. .33	in. .45	in. .23	in. .34	in. .28	in. .53	in. .33	in. .49	in. .34	in. .22	in. .25	in. .17	in. .25
" 13	in. .11	in. .28	in. .26	in. .05	in. .08	in. .18	in. .16	in. .24	in. .18	in. .15	in. .33	in. .33	in. .45	in. .23	in. .34	in. .28	in. .53	in. .33	in. .49	in. .34	in. .22	in. .25	in. .17	in. .25
" 14	in. .79	in. .34	in. .36	in. .44	in. .24	in. .70	in. .93	in. .17	in. .20	in. .40	in. .46	in. .44	in. .50	in. .67	in. .45	in. .62	in. .44	in. .46	in. .35	in. .62	in. .06	in. .55	in. .64	in. .44
" 15	in. .10	in. .24	in. .20	in. .60	in. .12	in. .05	in. .02	in. .10	in. .07	in. .18	in. .07	in. .16	in. .04	in. .04	in. .33	in. .08	in. .19	in. .13	in. .08	in. .04	in. .10	in. .03	in. .02	in. .04
" 16	in. .02	in. .24	in. .20	in. .60	in. .12	in. .05	in. .02	in. .10	in. .07	in. .18	in. .07	in. .16	in. .04	in. .04	in. .33	in. .08	in. .19	in. .13	in. .08	in. .04	in. .10	in. .03	in. .02	in. .04
Total	4.12	3.13	4.08	5.60	8.79	9.84	9.03	9.87	12.84	10.74	11.56	18.42	13.77	13.08	11.78	12.58	11.62	12.81	13.27	9.62	10.15	8.53	8.52	8.01

Daily Rainfall, October 23rd to November 16th--(continued).

1894.	Gloucester— Great Barrington.	" Moreton-in-Marsh, Longborough.	Hereford— Ross, The Graig.	Salop— Church Stretton, Woolstaston.	Stafford— Chedale, Heath House.	Worcester— Tenbury, Orleton.	Warwick— Coventry, Coundon.	Leicester— Leicester, Barkby.	Derby— Derby.	Cheshire— Frodsham, Dunsdale.	Monmouth, Llanfrechfa Grange.	" Llanvihangel Court.	Glomorgan— Cardiff, Ely.	" Neath, Fairy Land.	Carmarthen— Llandovery.	Pembroke— Haverfordwest.	" Castle Malgwyn.	Cardigan— Gogerddan.	Brecon— Abergwesin, Vicarage.	Radnor— New Radnor, Ednol.	Montgomery— Lake Vymwy.	Mertoneth— Corwen, Rhur Gardens.	Carnarvon— Cocksida.	" Llandudno, Warwick House.
Oct. 23	in. .16	in. .18	in. .46	in. .49	in. .26	in. .41	in. .08	in. .07	in. .08	in. .15	in. .79	in. .13	in. .22	in. .97	in. .90	in. .64	in. .57	in. .53	in. .46	in. .75	in. .88	in. .05	in. .58	in. .37
" 24	in. .60	in. .49	in. .80	in. .47	in. .79	in. .37	in. .29	in. .20	in. .24	in. .34	in. .71	in. .60	in. .41	in. .43	in. .45	in. .17	in. .54	in. .70	in. .67	in. .88	in. .72	in. .57	in. .65	in. .80
" 25	in. .05	in. .08	in. .22	in. .10	in. .15	in. .30	in. .35	in. .15	in. .21	in. .15	in. .19	in. .39	in. .15	in. .19	in. .62	in. .11	in. .10	in. .46	in. .43	in. .34	in. .32	in. .34	in. .34	in. .50
" 26	in. .08	in. .67	in. .83	in. .05	in. .55	in. .70	in. .75	in. .44	in. .45	in. .55	in. .01	in. .34	in. .81	in. .49	in. .95	in. .08	in. .62	in. .98	in. .42	in. .58	in. .64	in. .64	in. .60	in. .54
" 27	in. .12	in. .25	in. .31	in. .24	in. .32	in. .77	in. .67	in. .48	in. .46	in. .52	in. .19	in. .39	in. .61	in. .48	in. .45	in. .82	in. .63	in. .98	in. .42	in. .65	in. .03	in. .83	in. .53	in. .06
" 28	in. .41	in. .35	in. .50	in. .27	in. .17	in. .19	in. .36	in. .36	in. .14	in. .09	in. .70	in. .33	in. .70	in. .71	in. .59	in. .82	in. .70	in. .55	in. .94	in. .65	in. .83	in. .83	in. .42	in. .11
" 29	in. .15	in. .10	in. .13	in. .02	in. .08	in. .08	in. .08	in. .05	in. .05	in. .06	in. .45	in. .20	in. .22	in. .47	in. .06	in. .34	in. .09	in. .02	in. .26	in. .20	in. .43	in. .41	in. .31	in. .15
" 30	in. .96	in. .78	in. .08	in. .40	in. .02	in. .52	in. .34	in. .02	in. .02	in. .01	in. .95	in. .94	in. .14	in. .225	in. .54	in. .79	in. .90	in. .68	in. .14	in. .75	in. .44	in. .44	in. .05	in. .01
" 31	in. .08	in. .11	in. .10	in. .11	in. .23	in. .04	in. .05	in. .03	in. .13	in. .08	in. .05	in. .10	in. .04	in. .14	in. .34	in. .38	in. .80	in. .08	in. .05	in. .22	in. .41	in. .23	in. .57	in. .08
Nov. 1	in. .25	in. .31	in. .12	in. .20	in. .02	in. .21	in. .12	in. .07	in. .03	in. .06	in. .29	in. .46	in. .16	in. .43	in. .22	in. .39	in. .86	in. .26	in. .58	in. .34	in. .54	in. .23	in. .03	in. .07
" 2	in. .12	in. .05	in. .07	in. .13	in. .08	in. .19	in. .07	in. .01	in. .02	in. .05	in. .04	in. .09	in. .11	in. .11	in. .09	in. .33	in. .41	in. .07	in. .21	in. .15	in. .11	in. .12	in. .17	in. .02
" 3	in. .26	in. .05	in. .01	in. .06	in. .03	in. .02	in. .06	in. .05	in. .05	in. .05	in. .15	in. .05	in. .03	in. .16	in. .21	in. .10	in. .15	in. .08	in. .41	in. .06	in. .19	in. .07	in. .22	in. .05
" 4	in. .02	in. .03	in. .01	in. .04	in. .01	in. .01	in. .06	in. .05	in. .05	in. .05	in. .02	in. .05	in. .03	in. .03	in. .06	in. .04	in. .03	in. .06	in. .03	in. .01	in. .01	in. .07	in. .02	in. .01
" 5	in. .01	in. .03	in. .01	in. .04	in. .01	in. .01	in. .03	in. .04	in. .13	in. .23	in. .51	in. .63	in. .65	in. .60	in. .09	in. .35	in. .25	in. .05	in. .24	in. .08	in. .12	in. .12	in. .43	in. .01
" 6	in. .45	in. .55	in. .36	in. .35	in. .27	in. .33	in. .34	in. .12	in. .03	in. .14	in. .19	in. .18	in. .18	in. .19	in. .23	in. .21	in. .49	in. .49	in. .65	in. .49	in. .70	in. .50	in. .70	in. .49
" 7	in. .10	in. .16	in. .24	in. .18	in. .02	in. .17	in. .05	in. .02	in. .03	in. .04	in. .13	in. .03	in. .27	in. .35	in. .05	in. .34	in. .06	in. .30	in. .23	in. .29	in. .30	in. .32	in. .19	in. .16
" 8	in. .08	in. .14	in. .12	in. .02	in. .05	in. .09	in. .03	in. .04	in. .04	in. .22	in. .32	in. .19	in. .55	in. .05	in. .34	in. .34	in. .63	in. .15	in. .56	in. .35	in. .05	in. .07	in. .04	in. .01
" 9	in. .13	in. .16	in. .19	in. .05	in. .03	in. .06	in. .11	in. .04	in. .04	in. .01	in. .58	in. .21	in. .40	in. .83	in. .48	in. .33	in. .16	in. .15	in. .37	in. .15	in. .47	in. .27	in. .48	in. .51
" 10	in. .28	in. .16	in. .62	in. .71	in. .48	in. .92	in. .89	in. .67	in. .62	in. .01	in. .47	in. .32	in. .76	in. .57	in. .77	in. .70	in. .10	in. .21	in. .06	in. .78	in. .83	in. .09	in. .40	in. .04
" 11	in. .11	in. .30	in. .83	in. .96	in. .60	in. .82	in. .85	in. .36	in. .45	in. .61	in. .64	in. .28	in. .91	in. .92	in. .96	in. .65	in. .70	in. .39	in. .273	in. .44	in. .83	in. .81	in. .40	in. .04
" 12	in. .00	in. .03	in. .31	in. .10	in. .25	in. .21	in. .39	in. .38	in. .31	in. .05	in. .32	in. .28	in. .42	in. .62	in. .25	in. .20	in. .13	in. .18	in. .12	in. .22	in. .13	in. .08	in. .25	in. .79
" 13	in. .78	in. .58	in. .06	in. .02	in. .04	in. .07	in. .03	in. .01	in. .01	in. .01	in. .28	in. .24	in. .16	in. .30	in. .29	in. .11	in. .17	in. .23	in. .11	in. .33	in. .27	in. .13	in. .04	in. .02
" 14	in. .02	in. .02	in. .05	in. .01	in. .04	in. .01	in. .03	in. .01	in. .01	in. .01	in. .05	in. .01	in. .06	in. .12	in. .15	in. .02	in. .03	in. .04	in. .04	in. .35	in. .04	in. .04	in. .11	in. .09
" 15	in. .02	in. .02	in. .05	in. .01	in. .04	in. .01	in. .03	in. .01	in. .01	in. .01	in. .05	in. .01	in. .06	in. .12	in. .15	in. .02	in. .03	in. .04	in. .04	in. .35	in. .04	in. .04	in. .02	in. .02
" 16	in. .02	in. .02	in. .05	in. .01	in. .04	in. .01	in. .03	in. .01	in. .01	in. .01	in. .05	in. .01	in. .06	in. .12	in. .15	in. .02	in. .03	in. .04	in. .04	in. .35	in. .04	in. .04	in. .02	in. .02
Total	8.20	7.36	7.50	6.11	4.82	6.74	5.86	3.49	3.55	3.46	11.25	10.62	9.88	12.64	12.70	10.50	11.27	8.40	15.19	11.32	12.90	4.99	9.40	4.97

Brief notes on the Rainfall of each day.

OCTOBER.

23rd.—This may be regarded as the first day of the wet period. There was no rain in the extreme S.E. of England, about a quarter of an inch over the greater part of England and Wales, south of Lat. 53° N., and more than an inch in the southern portions of Devon, Cornwall and Wales.

24th.—A wetter day generally, averaging probably half-an-inch, and exceeding an inch over a strip of country S.W. of London, and at isolated stations in Wales.

25th.—Drier, averaging about a quarter of an inch, no rain in the fen district, or in the S.E. of England, or along a narrow belt running from Devonshire to Sussex. Only two stations with an inch, viz. : Oakhampton, Devon, and near Lake Vyrnwy, in N. Wales.

26th.—A wet day, the average fall being nearly an inch, but varying from a quarter in the Eastern Counties to $1\frac{1}{2}$ inches in Central Wales.

27th.—A day of moderate but general rain, the average was about a quarter of an inch, and it exceeded an inch only in Monmouthshire and Cardiganshire.

28th.—Another day with similar but rather heavier and nearly uniform fall, generally about 0·4 in.

29th.—Less rain ; none at all over a tract about 30 miles wide, and extending from near Hereford to the Wash. The average was not much over 0·1 in., but it exceeded half-an-inch in Devon and Cornwall.

30th.—No rain north of a line joining Holyhead to Ipswich, but very heavy over a belt about 30 miles wide reaching from South Wales to Dover, within this belt the fall exceeded an inch, and averaged nearly $1\frac{1}{2}$ inches. Over the whole area with which we are dealing the fall averaged nearly an inch.

31st.—Very little rain fell on this day. Abergwessin, in Brecknockshire, being the only station with more than an inch, and the average over the whole district being scarcely one-tenth of an inch.

NOVEMBER.

1st.—A day of general, but not heavy, rain, the only rainless area being at the mouth of the Thames. The average fall was about a quarter of an inch, and Abergwessin is again the only station in the tables with over an inch.

2nd.—Less rainy, none at all fell in the N.E. portion, and very few stations had more than a tenth of an inch.

3rd.—Rainfall and its distribution practically identical with that of the previous day.

4th.—This may be described as almost a dry day. With the exception of a slight rain in Norfolk, none fell except in the S.W. of England, and in Wales, and the falls there were unimportant.

5th.—Not so dry as the 4th, but the fall quite unimportant.

6th.—No rain except in the S.W. of England, and in Wales, and very little there.

7th.—Rain everywhere, averaging over half-an-inch, and exceeding an inch in West Dorset, and in Devon and Cornwall.

8th.—Moderate rain in the West, dry and rainless in the East.

9th.—Slight rain over the whole district, but not averaging more than a tenth of an inch.

10th.—Rainfall very similar to that of the 9th, but rather heavier, averaging 0·20 in.

11th.—Rain general and excessive along the whole South of England; all the country south of Lat. 51° N. had over an inch, and all stations within about 10 miles of the coast, from Penzance to West Sussex, had more than two inches. The fall decreased gradually northward, but over the whole district averaged nearly an inch.

12th.—Another very wet day, averaging nearly an inch, and exceeding that amount over a tract about 20 miles broad, reaching from Central Cornwall to Norwich.

13th.—Very wet in the West of England, and in Wales, but with a fall decreasing gradually eastwards, and unimportant in the Eastern Counties. The average over the whole district was under an inch, but it exceeded two inches over the southern portion of Dartmoor and in Central Wales.

14th.—Another wet day, with an average of about an inch. The wettest area was over the watershed of the Thames; and Wales was relatively dry, the fall there averaging a quarter of an inch.

15th.—Rain quite moderate—none fell in Central England, and the average was scarcely a tenth of an inch.

16th.—Rain very similar to that of the 15th, but if anything less in amount.

We have, in the foregoing notes, described the fall day by day, but a glance at the tables will show that the feature of the period was not so much the intensity of the fall on any one day, as the persistency of the rain day after day, which saturated the ground and filled all the water courses before the wettest four days (Nov. 11th to 14th) came, when of course the water rushed over the surface and flooded the valleys.

A Short Account of the Flooding in Chronological Order.

As to the damage we find it impossible to give a complete account, it would take months to work up and tabulate systematically all the data which we possess. The maps and the tables show how widespread was the excessive rain, and obviously the damage was nearly co-extensive. We, therefore, give the following notes in chronological order, and regret that time prevents our making the list more nearly perfect.

OCTOBER 24TH.

Chiddingfold (Surrey).—1·22 in. of R between 8.30 a.m. and 0.15 p.m.

OCTOBER 26TH.

Nantwich (Cheshire).—Very heavy R; 2 ft. of water on road to station.

Downpatrick (Ireland).—Heavy R and local floods.

These were local storms unconnected with the southern rains.

OCTOBER 30TH.

Hatherly Road, Sidcup (Kent).—R began at 6.30 a.m. on 30th, and in evening and night came down in torrents, at 9 a.m. on 31st I measured 3·56 in. ! The railway at New Eltham was more flooded than by the R in the middle of November. A remarkable local fall.

Neath (Glamorgan).—R ·25 inches in 24 hours, and such floods that some of the works were stopped.

OCTOBER 31ST.

Thames in flood, also a great one on the *Parret*, near *Taunton* (*Somerset*).

NOVEMBER 2ND.

Thames so high at *Reading* that the road to *Sonning* became impassable.

NOVEMBER 11TH.

Chichester, Westgate.—R from 6 p.m., 11th, to 9 a.m., 12th, 2·68 in., and at *Crowborough* for the same period, 2·33 in.

Osborne.—R for the 24 hours ending 9 a.m., 12th, 2·13 in., being the greatest in any one day since the record began in 1857.

Swanage (Dorset).—R between 6 p.m. on the 11th and 6 p.m. on 12th, 2·81 in.

Scilly.—From 3 p.m., 11th, to 3 p.m., 12th, 4·03 in. of R fell. For other large totals see “Heavy Falls in 24 hours.”

NOVEMBER 12TH.

Ryde (I. of Wight).—The tunnel between the two stations so flooded that traffic was impossible.

Newbury (Berks.).—Excessive rain in the early morning, and considerable flooding in the afternoon, which continued to increase throughout the forenoon of the 13th.

Weymouth (Dorset).—A boat was plying in the streets, and in several parts the basements of the houses were uninhabitable, the furniture swimming about.

Much damage in *S. Devon*.—A boy and 30 sheep drowned, four bridges washed away at *Lanivet*, also the Wesleyan Chapel at *Ruthern*.

Okehampton (Devon).—Gas Works flooded.

The 2·26 p.m. up train from *Barnstaple (Devon)*, was blocked at *Crediton*, the line being deeply submerged at *Cowley Bridge*.

Newlyn (Cornwall).—The water in some of the houses was 4 ft., and in one 5 ft. 6 in. deep.

Marazion, Penzance (Cornwall).—A culvert burst under the *Cornwall* railway near *St. Erth*, and as the line was under water the driver of a goods train could not see the broken track, and his train ran into it, and was upset.

St. Ives (Cornwall).—It is not easy to ascertain what occurred in this little town; there is said to have been 6 ft. of water in *Tregenna Place*, and 9 ft. in the *Stennack*. There was much wild talk as to the bursting of a waterspout—but we doubt if that occurred. Dr. Nicholls reports a fall of 2·93 in., and as very probably (looking at the record from *St. Just* of 3·36 in.) quite three inches fell on the high land south-west of the town, the full explanation of the disaster seems to be that the rainfall of the watersheds of the *Rosewarne* and *Zennor* collected in the reservoir for the old *Consols* mine, and

that its bank gave way, the culvert below became obstructed by refuse placed on the bank of the stream, which, having been thus choked, was diverted on to the main road, down which it soon tore a gorge 6 ft. deep, and nearly as many in width, and when it reached the town, gas and water-pipes were exposed and broken, and disasters of all kinds were produced. (*See Frontispiece.*)

St. Just, (Cornwall).—Tremendous rain on the night of the 11th. and in the forenoon of the 12th. Houses flooded, bridges washed away, and the Levant mine flooded.

Helston (Cornwall).—Serious flooding in many streets, the ground floors filled with water; the gas works inundated and the supply stopped.

Bodmin (Cornwall).—Train service with *Wadebridge* stopped; an omnibus with three horses was started to carry the passengers, but the road was so flooded that the horses got into a field, and, as well as the passengers, had to be removed by a boat, the omnibus being left behind.

St. Agnes (Cornwall).—Two feet of water in the streets.

Truro (Cornwall).—Scores of houses flooded, and boats used to remove residents.

Lanunceston (Cornwall).—The driver of a waggon with three horses attempted to cross the *Eary*, they were all washed away and one horse was drowned.

St. Breoke Church, Wadebridge (Cornwall).—Flooded to the level of the top of the pews.

Bude (Cornwall).—The school was flooded up to the level of the desks, and there was three feet of water in the Post Office, in which the telegraphist had to stand to send off a message.

Near *Taunton (Somerset).*—The river *Parret* had fallen six feet since October 31st, but on this day rose again, and attained a point above any record.

Somerset.—A train was going in the evening from *Yetminster* to *Yeovil*; the line was under water, and the ballast had been washed away, which led to the engine being disrailed and tumbling into a ditch at the side of the line. The passengers and stoker were not much hurt, but the driver was severely scalded.

Bristol.—Part of *Arno's Vale* Cemetery washed away; and at *Pensford* two feet of water in the parish church.

NOVEMBER 13TH.

Oxford.—From the evening of this day until the afternoon of the 18th, the G.W.R. was blocked just south of the city.

Swanage (Dorset).—A row of houses had been built over a stream, leaving (it was supposed) ample headway ; but the excessive rain overfilled it, and imprisoned the entire population until boats could be sent to their rescue.

Penzance.—Highest flood at 11 a.m., after 15 hours of continued rain. Very many houses flooded, and numerous small buildings carried away.

Looe (Cornwall).—A passenger train was stopped by a gate which had floated on to the line ; this was removed, and the train proceeded, but in a few minutes the flood put out the engine fire.

Much difficulty in getting the trains past *Durston*, near *Taunton (Somerset)*, as the engine fires were frequently put out by the water.

Blakeney (Gloucester).—Something like a waterspout burst over here about 7 a.m., and sent the flood up another two feet. Brewery and many houses flooded ; schools closed.

NOVEMBER 14TH.

Wantage (Berks).—Owing to previous rains, supplemented by that of the 13th and 14th, considerable flooding occurred. The steam tram could not run, and there was, towards the afternoon, three feet of water in the High Street. Much damage at mills where corn was stored on the ground floor.

Salisbury.—Many houses inundated in the evening, but the flood here was exceeded in 1883.

Trowbridge (Wilts).—Floods worse than on the 11th. Nearly all factories closed.

The *Yeovil* branch of the G.W.R. is said to have been closed from this date to the 19th.

Taunton.—Floods higher than even on 11th.

Langport (Somerset).—Flood still rising, and almost all business stopped.

Shepton Mallet (Somerset).—The flood of 11th was exceeded this afternoon by about six inches.

Bath.—The first flood was passing away in the early morning hours, but heavy rain was falling, and the river level soon turned to rise again, and in the evening became so high that between 500 and

600 persons were removed from their homes in the Dolemeads and fed and housed in the Widcombe schools. (*See engraving.*)

[It would be interesting to know by what authority the plans for building these houses were sanctioned, and who undertook to provide proper drainage and sewerage.]

Newbridge (Mon.).—A bridge over the *Ebbw*, together with the gas and water mains, was carried away by the flood.

The R at *Tredegar (Mon.)* in 24 hours had been 2·54 in.

NOVEMBER 15TH.

Wallingford (Berks.).—The flood reached its highest soon after 11 p.m. All the houses in St. Leonard's Lane had water in them ; one house had 2 ft. 8 in.

Shillingford (Oxford).—The flood of 14th passed away, and then a second began, which was highest at 10 p.m. on 15th, and considerably exceeded the first one. It was higher than any flood since 1768, except that of January 27th, 1809.

Oxford.—Traffic by railway hence to *Radley* was stopped this evening, and not resumed until the afternoon of the 18th.

Dorchester (Oxon.).—Half the place is under water. This flood has not been beaten since 1809.

Chippenham (Wilts.).—Gas supply stopped—the works being flooded.

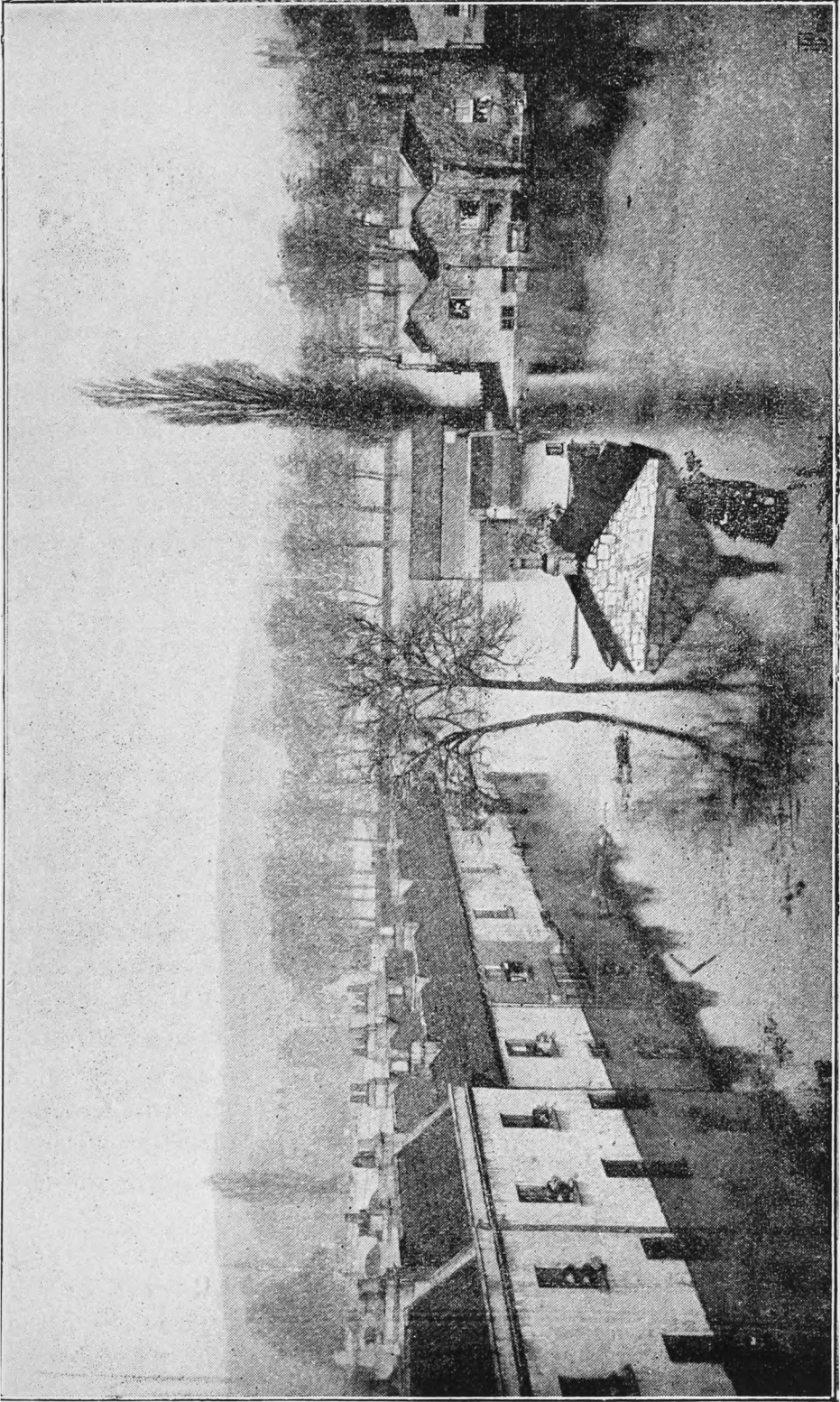
Trowbridge (Wilts.).—Much damage ; in one large weaving shed all the looms were under water.

Near *Glastonbury (Somerset)*, in the afternoon, the driver of a goods train on the Somerset and Dorset Railway was seriously scalded by the explosion of his fire-box, into which the flood water had entered.

Langport (Somerset).—The main street was three feet under water, and the railway station could be approached only by boats.

At *Creech St. Michael, Taunton*, a G.W.R. engine was running at night through nearly three feet of water, when the water entered the fire, and the steam and coals were blown over the driver and stoker.

Taunton.—From *Taunton* to *Boroughbridge*, a distance of 12 miles only one mile was not submerged. The G.W.R. main line from *Taunton* to *Bridgewater*—especially near *Durston*—was continuously submerged from the 13th to the 16th ; on the 15th traffic was entirely stopped.



THE DOLMEADS, BATH, NOVEMBER, 1894.—(*Reproduced by permission from Black & White*).

Bath.—Floods exceeding 10 ft. above the crest of Pulteney Weir have occurred—

1809	...	...	...	...	...	12 ft. 6 in.
1823,	November	...	...	...	...	13 „ 3 „
1882,	October	...	...	...	...	12 „ 6 „
1894,	November 15th,	at 3.30 a.m.	...	...	...	13 „ 4 „

Some idea of the severity of the inundation may be gathered from the statement that of the houses in the *Dolemeads* only the upper floor remained visible, and that of the street lamps little was to be seen except the lamps ; but as the gas works were flooded and there was no gas this did not make much difference. Terrible damage to furniture and goods occurred in all the lower parts of the city, and the following typical case will illustrate the structural damage :—About three years ago, at a cost of £500, the Episcopal Chapel in Corn Street was thoroughly renovated and floored with pine blocks set in pitch. When the chapel could be entered after the flood it was found that the floor had been entirely blown up, and all the seats overturned, besides everything being covered with slime. As to the floating away of timber stacks from yards near the river, the breaking loose of barges, the forcing in of doors, and the rush of water through houses, it is all a necessary accompaniment of a great flood, and need not be set out.

Ross (Hereford).—At 8 p.m. the Wye was up to 14 ft. 3 in., which had not been exceeded since November 12th, 1852.

NOVEMBER 16TH.

Abingdon (Berks).—Flood highest in forenoon, when more than 100 houses in and near Ock Street were flooded.

Sutton, near Abingdon.—Flood highest between 11 p.m. and midnight.

Pangbourne (Berks).—At the Swan Hotel, near the river, the water reached the ceiling.

Slough (Bucks).—Flood highest at 2 p.m.

NOVEMBER 17TH.

Staines (Middlesex).—No train in, on the L. & S. W. R. line from this date until the 20th.

Kingston (Surrey).—The Thames flooded High Street and other parts of the town.

Reading (Berks).—Very serious flood ; some houses have 3 ft. of water in them ; Huntley and Palmer's Biscuit Works and many others had to be closed ; in some places the water in the sewers forced up the man-hole covers. The sewage farm was almost entirely under water.

NOVEMBER 18TH.

Kingston.—The principal streets were flooded, some of them 5 ft. deep.

Windsor (Berks).—All the lower part of the town is under water, but it is about 5 in. lower than on the evening of the 17th. There has been no gas since the 13th.

Eton (Bucks).—Though the floods are about 5 inches lower than on the 17th ; there is still 2 ft. of water in the High Street.

Datchet (Bucks).—Nearly the whole town under water, in places 3 ft. deep.

The traffic was stopped on the *Bedford* and *Cambridge* branch of the L. & N. W. R.

NOVEMBER 19TH.

Helston (Cornwall).—The street lamps have not been alight for a week owing to the flooding of the gas-works.

A discussion of the normal rainfall for October 23rd to November 16th, and of the intensity and locality of greatest excess in 1894.

Although the papers by Mr. Scott (1), and by Mr. Prince (2), have been very hard upon the old fashioned idea of the existence in this country of a well-marked period for the recurrence of so-called equinoctial storms, the prevalence of excessive rain at the end of October has not been, and we think will not be, disproved.

Mr. Glaisher shewed (3) that a smoothed curve representing the daily fall at Greenwich on the average of 55 years (1815-69) was at its maximum on October 22nd. The mean daily fall throughout the year according to that table was 0·068 in., and there were only three dates for which the average was double, or more than double, the mean, viz. :—

July 26th	0·162 in.
October 22nd	0·142 „
October 26th	0·139 „

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- (1) *Quar. Jour. R. Met. Soc.*, Vol. x., p. 236.
 (2) „ „ „ Vol. xiii., p. 79.
 (3) *Proceedings* „ „ Vol. v., p. 122.

and of these the July value was due to the excessive fall of 3·67 in. on July 26th, 1867, without that one fall the value for July 26th would be 0·095, *i.e.*, it would not have been entitled to be quoted. Mr. Dines (4) gave a summary of the records at Cobham, and at Chiswick, and they show similarly high values for October 22nd; the only dates at either station on which the average for 40 years (1826-65) exceeded 0·150 were—

Cobham, August 14th, 0·153; October 22nd, 0·162.
Chiswick, August 2nd, 0·152; October 22nd, 0·151.

Subsequently Mr. Dines (5) re-examined the Greenwich, Cobham and Chiswick records, and gave the mean fall for each day of the year, for the 47 years 1826-72. The daily average throughout the year is 0·066 in., (accurately 0·0663 in.) but it is much higher in October, especially in the latter part. The only dates with double, or more than double, are—

October 22nd, 0·155 in., and October 25th, 0·138 in.

There are 33 dates of which the mean fall is 0·100, or above, and they are thus distributed—

	Jan.	July.	Aug.	Sept.	Oct.	Nov.	Total.
1st to 15th	1	1	4	3	2	1	12
16th to end	0	4	2	6	7	2	21
Total	<u>1</u>	<u>5</u>	<u>6</u>	<u>9</u>	<u>9</u>	<u>3</u>	<u>33</u>

We may, perhaps, revert to this unequal distribution in the two halves of the month upon another occasion, suffice it now to say that the latter half of October is on the average the wettest part of the year in the vicinity of London.

For the only locality (London) for which the daily average rainfall is known, the aggregate for the 25 days (October 23rd to November 16th) with which we are dealing is 2·00 in., which is almost precisely 8 per cent. of the yearly total. It is not strictly accurate to regard this as applicable to the whole southern half of England and Wales, but there is no other value accessible, and we think that probably in no case is it less than 6 or greater than 10 per cent., but no one knows, and we accept the 8 per cent. provisionally.

Having ascertained this, we are in a position to examine into the relative intensity of the flood rains of 1894 in different districts.

A single day may have 50, 60, or even 70 times its average; a single month may have 3 times, and in very rare cases perhaps

(4) *Proceedings R. Met.Soc.*, Vol.v., p. 137.

(5) *Quarterly Weather Report*, 1873. Part III.

4 times, its average. For 25 days it therefore seems reasonable to suppose that the very greatest excess would be somewhere between 4 and 5 times the average. And as we have already seen that for the period under discussion the average may be taken as 8 per cent. of the yearly mean, it follows that three times the mean, or, say, 25 per cent. of the yearly mean, would be an excessive fall, and that from 32 to 40 per cent. of the yearly mean could be expected only in the absolutely wettest case in a long series of years.

The following table gives the details for the 20 stations out of the 72 quoted on pages [139] to [141] at which the fall in the 25 days was equal to, or greater than, 25 per cent. of the yearly mean fall, or, to put it roughly, at which more than the average fall in three months fell in 25 days :—

Stations at which the fall in the 25 days (October 23rd to November 16th, 1894) was one quarter, or more, of the mean fall in a whole year.

Div.	Station.	Mean Yearly Fall.	Fall in Period.	Per Cent. of Mean	Div.	Station.	Mean Yearly Fall.	Fall in Period.	Per Cent. of Mean
		in.	in.				in.	in.	
I.	Pinner Hill	25·53	6·94	27	V.	Okehampton.....	46·71	13·08	28
II.	Abinger	30·60	9·60	31	„	Glenthorne	43·85	12·58	29
„	Steyning	33·87	10·34	31	„	Penzance	41·97	11·62	28
„	Osborne, I. of W.	27·29	11·06	41	„	Trewirgie	45·71	12·81	28
„	Alton	32·22	10·35	32	„	Lanhydrock	48·01	13·27	28
V.	Alderbury	28·50	8·79	31	VI.	Stroud	30·91	8·01	26
„	Bishops Cannings	30·84	9·84	32	XI.	Llanfrechfa	42·65	11·25	26
„	New Swindon ...	28·38	9·03	32	„	Llandoverly	50·13	12·70	25
„	Whatcombe	36·80	10·74	29	„	Castle Malgwyn.	45·29	11·27	25
„	Druid	51·28	18·42	36	„	Cocksidia	37·45	9·40	25

It will be seen that five stations had 32 per cent. or upwards, and that the highest percentages were 36 at Druid, Ashburton, South Devon, and 41 at H.M. Gardens, Osborne, Isle of Wight, thus slightly exceeding (but only by 1 per cent.) the maximum to which we had been led by calculation. As a check upon the accuracy of this value of 41 per cent., we have computed the percentage at the only two other stations in the Island, for which we have the necessary data, and they give for Holmwood, Cowes, 34, and for the Town Hall, Ryde, 38 per cent., thus fairly supporting Osborne ; and from other stations for which we have worked up the figures it appears that along a narrow strip of the southern coast, including also the Scilly Islands, the percentage was generally from 35 to 38. It was therefore there, rather than in the watersheds of the Thames or of the Wye, that the rainfall was most exceptional.

DROUGHTS IN 1894.

Notwithstanding the inconvenience which Leicester suffered from deficient water supply, we fancy that few persons look back on 1894 as a year of drought, and coming after such a phenomenal year as 1893 one would scarcely expect that they should do so. Yet from some points of view 1894 shows even greater intensity of drought than its predecessor.

The numerical details in the following tables are precisely similar in form to those for previous years, and are rigidly comparable with them. The usual 50 stations are again employed, in place of the 100 used to exhibit more fully the exceptional characteristics of 1893, the definitions remaining the same.

ABSOLUTE DROUGHTS.—Periods of *more than* 14 consecutive days absolutely without R*.

PARTIAL DROUGHTS.—Periods of *more than* 28 consecutive days, the aggregate rainfall of which does not exceed 0·01 in. per diem.

Studying first the absolute droughts, we find from the summary that at the 50 stations 52 droughts were recorded, a number unprecedented in six years, exceeding 1893 by 13, or 33 per cent., and the previous maximum (42 in 1889) by 10, or nearly 25 per cent. Looking to the last column also, we find another unparalleled value, showing that the droughts were more general all over the country than in any other year of those dealt with. The two remaining columns are not striking, for the average duration is almost precisely the mean value, and the greatest duration only slightly above the mean.

* In endeavouring to obtain those essential features of a good definition, *brevity* and *clearness*, we have fallen into error in another way, and the above should read “absolutely without *measurable* R.”

The summary of the partial droughts gives similar evidence ; the total number of droughts is exceeded only in 1893, the average duration is exceeded only twice, and the greatest duration also twice. The small number of stations at which droughts were not recorded is again remarkable, being less than half the average, and preceded only in 1893.

The most important dry period, and one which prevailed over almost the whole of the United Kingdom, commenced in the middle of March, and 33 stations (out of the 50) recorded absolute drought for a period averaging 19 days, and extending to 27 days at Datchworth Rectory, Hertfordshire, and to 26 days at Hythe, Kent. The 33 stations are distributed fairly evenly over the greater part of England, Wales, Scotland and Ireland. The most notable exceptions being an area in the S. of England, extending from Somersetshire to Surrey, and a strip along the E. coast from Suffolk to Berwick-on-Tweed. A prolongation of this period, with only trifling rains, produced partial drought, with an average duration of 33 days, at 21 stations distributed irregularly over England and the South and East of Scotland. Thunderstorms were general in the first half of April, and the varying quantities of rain which accompanied them naturally broke the drought at many stations, while others in close proximity, escaping the heavier rains, recorded partial droughts.

September and the first part of October were dry in the North of England, and specially so in Scotland and Ireland, and 12 stations in the two latter countries recorded absolute droughts. The same months, with in some cases a few days at the end of August, gave the most striking partial drought of the year. In England it was not important, being recorded at only six stations in the northern half of the country, and averaging 31 days' duration. Of the Scotch stations only three, Melrose, Edinburgh, and Logie Coldstone, Aberdeen, escaped this drought. At the remaining nine stations its average duration was 45 days, reaching 62 days at Cargen, near Dumfries, and 57 at Ardrossan. In Ireland no partial drought was recorded at any other season, and the average duration was 46·5 days, the greatest being 54 days at Stewartstown.

To sum up, it appears that both *absolute* and *partial* droughts of average duration occurred over an exceptionally large proportion of the Kingdom, while in Scotland and Ireland the partial drought may almost be described as exceptional. With 1893 fresh in our memory, with its absolute droughts exceeding 50 days, and partial droughts

exceeding 100 days, at dozens of stations, it is difficult to give full weight to its successor, characterized rather by numerous and wide-spread droughts than by any of phenomenal duration.

ABSOLUTE DROUGHTS.

		No. of stations.		Number.		Average.	Duration.	Greatest.		Stations without one.
1888	...	50	.....	17	.....	17 days	.....	20 days	.....	35
1889	...	50	.....	42	.....	21 „	.....	30 „	.....	13
1890	...	50	.....	13	.....	18 „	.....	20 „	.....	39
1891	...	50	.....	26	.....	18 „	.....	34 „	.....	28
1892	...	50	...	36	.....	16 „	.....	20 „	.....	25
1893	...	50	.....	39	.....	20 „	.....	44 „	.....	23
1894	...	50	.....	52	.....	18 „	.....	31 „	.....	10

PARTIAL DROUGHTS.

		No. of stations.		Number.		Average.	Duration.	Greatest.		Stations without one.
1888	...	50	.....	4	.....	42 days	.....	50 days	.....	46
1889	...	50	.....	38	.....	34 „	.....	45 „	.....	15
1890	...	50	.....	3	.....	30 „	.....	31 „	.....	47
1891	...	50	.....	38	.....	36 „	.....	49 „	.....	14
1892	...	50	.....	17	.....	35 „	.....	64 „	.....	33
1893	...	50	.....	53	.....	51 „	.....	114 „	.....	10
1894	...	50	.....	44	.....	37 „	.....	62 „	.....	13

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Amount.
London (Camden Square), N.W.. <i>Middlesex.</i>	Mar. 15 Nov. 21	April 1 Dec. 5	18 15	Mar. 15	April 13	30	in. ·24
Dorking (Abinger Hall) ... <i>Surrey.</i>	Nov. 21	Dec. 6	16	Mar. 15	April 13	30	·14
Hythe..... <i>Kent.</i>	Mar. 16 June 21	April 10 July 5	26 15	Mar. 16	April 23	39	·39
Welwyn (Datchworth Rectory).. <i>Herts.</i>	Mar. 15 June 21	April 10 July 5	27 15	Mar. 13	April 13	32	·28
Maxey Vic. [Market Deeping] ... <i>Northampton.</i>	Mar. 17	April 7	22	Mar. 10	April 15	37	·33
Geldeston [Beccles] <i>Norfolk.</i>	June 21	July 5	15	None			
Calne (High Street) <i>Wilts.</i>	None			None			
Torquay (Cary Green)..... <i>Devon.</i>	Mar. 21	April 4	15	Mar. 15	April 12	29	·22
Bideford (Northam Vicarage) ... <i>Devon.</i>	Mar. 16	Mar. 30	15	Mar. 15	April 13	30	·25
St. Austell (Trevarna) <i>Cornwall.</i>	Mar. 16	April 3	19	None			
Ilminster (White Lackington) ... <i>Somerset.</i>	None			Mar. 15	April 12	29	·29
Ross (The Graig) <i>Hereford.</i>	Mar. 16	April 4	20	Mar. 13	April 10	29	·10
Weston Park [Shiffnal] ... <i>Stafford.</i>	Mar. 14	Mar. 29	16	Aug. 26	Sept. 24	30	·28
Market Overton <i>Rutland.</i>	None			Mar. 13	April 15	34	·12
Worksop (Hodsock Priory) <i>Notts.</i>	Mar. 14	Mar. 29	16	None			
Belper (Northfield) <i>Derby.</i>	Sept. 7	Sept. 22	16	Aug. 26	Sept. 24	30	·10
St. Michael's-on-Wyre <i>Lancashire.</i>	Mar. 13	April 2	21	Mar. 12	April 11	31	·25

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS			
	Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Amount.
Knaresboro' (Farnham) <i>York, W.R.</i>	Mar. 14	April 1	19	Sept. 6	Oct. 5	30	in. ·25
Driffield (Beverley Road) <i>York, E.R.</i>	None			None			
Darlington (South End) <i>Durham.</i>	Mar. 15	Mar. 31	17	Sept. 8	Oct. 8	31	·31
Morpeth (Bothalhaugh) <i>Northumberland.</i>	None			Mar. 13 Sept. 6	April 15 Oct. 5	34 30	·20 ·29
Pawston [Coldstream]..... <i>Northumberland.</i>	None			Mar. 13	April 15	34	·26
Blencowe School [Penrith]..... <i>Cumberland</i>	None			Sept. 3	Oct. 6	34	·22
Chepstow (Shirenewton Hall) .. <i>Monmouth</i>	None			None			
Haverfordwest (High Street) ... <i>Pembroke.</i>	Mar. 16	April 5	21	Mar. 16	April 13	29	·12
Churchstoke (Mellington Hall)... <i>Montgomery.</i>	Nov. 21	Dec. 5	15	Mar. 13	April 10	29	·23
Halkyn <i>Flint.</i>	Mar. 15 Sept. 6	April 1 Sept. 21	18 16	None			
Carnarvon (Cocksidia)..... <i>Carnarvon.</i>	Mar. 15	April 5	22	None			
Garliestown (Galloway House) ... <i>Wigton.</i>	Mar. 16	April 2	18	Aug. 25	Oct. 8	45	·37
Cargen [Dumfries] <i>Kirkcudbright.</i>	Mar. 15 Sept. 20	April 1 Oct. 8	18 19	Mar. 12 Aug. 22	April 11 Oct. 22	31 62	·29 ·61
Melrose Asylum <i>Roxburgh.</i>	Mar. 16	Mar. 31	16	Mar. 13	April 14	33	·30
Edinburgh (Blacket Place)..... <i>Edinburgh.</i>	Mar. 15 Sept. 6	Mar. 30 Sept. 20	16 15	None			
Ardrossan (Kirkhall) <i>Ayr.</i>	Sept. 6	Sept. 26	21	Aug. 28	Oct. 23	57	·45
Killearn (Old Ballikinrain) ... <i>Stirling</i>	None			Aug. 22	Sept. 24	34	·32

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Amount.
Strontian (Laudale)..... <i>Argyll.</i>	Mar. 19 Sept. 15	April 2 Oct. 7	15 23	Aug. 20	Oct. 8	50	in. ·42
Islay (Ardbeg) <i>Argyll.</i>	Mar. 20 Sept. 13	April 7 Oct. 9	19 27	Sept. 3	Oct. 9	37	·11
Kirriemuir (Lintrathen) ... <i>Forfar.</i>	Mar. 13 Sept. 2	April 2 Sept. 20	21 19	Mar. 13 Sept. 2	April 13 Oct. 7	32 36	·25 ·30
Cromar (Logie Coldstone) <i>Aberdeen.</i>	Mar. 14	Mar. 31	18	Mar. 7 Nov. 14	April 12 Dec. 16	37 33	·34 ·30
Alness (Ardross Castle) <i>Ross.</i>	None			Mar. 15 Sept. 8	April 15 Oct. 13	32 36	·26 ·35
Golspie (Dunrobin Castle) <i>Sutherland.</i>	Mar. 13	April 12	31	Mar. 12 Aug. 20 Nov. 14	April 30 Oct. 8 Dec. 12	50 50 29	·48 ·34 ·23
Dunmanway (Coolkelure) <i>Cork.</i>	Sept. 23	Oct. 8	16	None			
Killarney (Woodlawn) <i>Kerry.</i>	Mar. 16	April 2	18	None			
Portlaw (Mayfield) <i>Waterford.</i>	Mar. 15	April 1	18	None			
Fethard (Mobarnane) <i>Tipperary.</i>	Mar. 16 May 16 Sept. 24	Mar. 30 June 1 Oct. 8	15 17 15	Sept. 8	Oct. 19	42	·42
Bray (Fassaroe) <i>Wicklow.</i>	Mar. 16	Mar. 30	15	None			
Athlone (Twyford) <i>Westmeath.</i>	Mar. 15	Mar. 31	17	Aug. 26	Oct. 8	44	·19
Ballinasloe <i>Galway.</i>	Sept. 22	Oct. 8	17	Aug. 26	Oct. 8	44	·24
Collooney (Markree Observatory) <i>Sligo.</i>	Mar. 16	April 6	22	Aug. 26	Oct. 8	44	·39
Belfast (Antrim Road) <i>Antrim.</i>	Mar. 16	April 2	18	Aug. 19	Oct. 8	51	·49
Stewartstown (The Square) <i>Tyrone.</i>	Mar. 16 Sept. 2	April 2 Sept. 23	18 22	Aug. 16	Oct. 8	54	·51

MONTHLY RAINFALL OF 1894.

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 [37] to [78]) we have given the general history of the weather ; in the following tables (pages [160] to [166] we give the monthly rainfall at each of about 230 stations, and in the two sheets of maps inserted between pages [166] and [167] 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 1894 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.

And a — when more than an inch below it.

Lastly, we give on pages [167] and [170] 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 have been exceptional.

MONTHLY RAINFALL AT 233 STATIONS IN THE BRITISH ISLES DURING 1894.

ENGLAND.

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
I.	Middlesex	London (Camden Sq.)	2.87	1.74	1.18	1.74	1.85	1.84	3.25	2.85	1.04	4.45	2.85	2.28	27.94
II.	"	Pinner Hill	2.61	1.83	1.83	1.88	1.78	2.08	2.93	3.67	1.34	3.64	4.25	2.00	29.84
"	Surrey	Guildford (Guildown)	3.35	1.90	1.29	2.00	2.23	2.65	5.00	2.08	2.07	4.33	4.06	2.30	33.26
"	Kent	Tenterden	3.17	1.80	1.39	2.13	2.00	1.55	5.24	1.74	3.13	4.01	3.80	2.11	32.07
"	"	Hythe	2.75	1.88	1.14	2.64	3.11	2.65	5.64	1.79	2.97	5.05	3.32	2.20	35.14
"	"	Sevenoaks (River Hill)	4.18	1.40	1.16	2.09	1.53	2.16	4.31	1.82	3.39	3.38	4.27	1.78	31.47
"	"	Ospringe (Lorenden)	3.32	1.65	1.45	2.19	2.24	2.50	4.73	2.01	2.25	4.43	4.03	1.96	32.76
"	"	Arundel (Patching)	4.59	2.60	1.44	2.59	1.22	1.76	5.83	2.02	3.47	4.48	5.80	2.06	37.86
"	Sussex	Maresfield (Forest Lodge)	4.63	2.23	1.72	2.08	1.40	2.14	5.06	2.05	3.06	4.15	6.01	2.40	36.93
"	"	I. of Wight (Sandown)	5.45	3.83	1.83	2.21	1.88	1.77	5.05	2.84	3.26	5.71	5.74	2.80	42.37
"	Hants	Bps. Waltham (Swanmore)	4.46	1.90	1.43	2.92	2.01	2.05	5.56	1.46	2.21	4.06	5.68	2.74	36.48
"	"	Basingstoke (Sherborne S.J.)	3.24	1.92	1.71	2.30	1.94	2.51	3.91	2.21	2.38	4.41	5.66	2.74	34.93
"	Berks	Newbury (Welford)	2.65	2.39	1.84	2.51	2.80	2.92	4.39	2.35	3.12	4.04	6.29	2.85	38.15
III.	Herts	Hertford (Bayfordbury)	2.15	1.85	1.27	1.46	2.14	1.86	2.20	2.66	1.21	3.15	3.45	1.82	25.22
"	"	Royston	1.56	1.52	.93	.76	1.60	1.97	2.70	2.90	1.38	2.65	3.41	1.48	22.86
"	Bucks	Buckingham (Adstock)	2.14	1.88	1.67	1.68	1.83	2.55	3.14	2.25	1.73	3.33	4.91	2.24	29.35
"	Oxford	Henley (Northfield House)	2.45	1.80	1.46	1.33	1.69	2.22	3.38	2.93	2.67	4.29	4.63	2.30	31.15
"	"	Oxford (Magdalen Coll.)	1.64	1.41	1.52	1.76	1.35	2.77	3.36	2.30	1.80	3.26	4.76	1.95	27.88
"	Northampton	Wellingborough (Swanspool)	1.52	1.84	1.10	1.09	1.30	1.97	3.43	2.33	1.74	2.01	3.20	1.58	23.11
"	Bedford	Bedford (The Grove)	1.73	1.54	1.17	1.15	1.62	2.17	3.06	2.61	1.22	2.07	4.14	1.42	23.90
"	Cambridge	Ely (Stretham)	1.20	1.01	.79	1.12	1.87	1.73	3.65	2.50	1.45	1.85	3.62	1.50	22.29
"	"	Wisbech	1.87	1.09	.81	1.33	1.66	2.67	3.54	2.05	1.29	2.76	2.85	1.56	23.48
IV.	Essex	Loughton (High Beech)	2.64	1.65	.93	1.64	1.40	1.83	3.01	2.77	1.16	3.65	2.60	2.12	25.40
"	"	Chelmsford (High Street)	2.28	1.07	.62	1.26	1.30	1.72	2.59	1.71	2.40	2.63	2.97	1.60	22.15
"	"	Braintree (Bocking Place)	2.18	1.35	.99	1.50	1.65	2.17	5.10	1.95	1.79	2.82	3.12	1.76	26.38
"	Suffolk	Ipswich (Bishop's Hill)	2.10	1.36	.92	2.43	1.77	2.25	3.87	2.63	1.13	1.69	2.49	2.26	24.90
"	"	Haverhill (Great Thurlow)	1.44	1.32	.84	1.27	2.38	2.02	3.60	2.79	.85	2.64	2.39	1.93	22.87
"	"	Framlingham (Mount Pleasant)	1.69	1.75	.79	2.47	2.37	2.60	3.74	2.87	1.56	1.92	2.51	2.39	26.66
"	Norfolk	Gedeston [Beccles]	1.41	1.20	.64	2.79	3.06	2.57	3.62	2.05	1.99	2.39	2.18	2.51	26.41
"	"	Swatham	1.88	1.30	.78	2.10	2.26	2.89	2.71	2.19	2.07	2.83	4.22	2.80	28.03
"	"	Holt (Letheringsett Hall)	1.98	1.31	.93	1.37	1.67	2.82	4.46	1.74	2.99	2.66	3.46	2.64	28.05

ENGLAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
V.	Wilts	Salisbury (Alderbury)	2.81	1.94	1.59	2.51	1.67	2.29	3.49	1.86	1.92	3.46	5.93	2.68	32.15
"	"	Trowbridge (Rodney House)	2.24	2.38	1.99	1.91	1.62	2.44	4.11	2.45	2.61	3.15	6.08	2.54	33.52
"	"	Marlborough (Mildenhall)	2.42	2.21	2.16	1.97	1.79	2.64	4.08	2.19	2.40	3.30	6.48	2.82	34.46
"	Dorset	Beaminster Vic.	4.73	3.51	1.97	2.94	2.75	2.46	4.69	4.63	2.59	4.16	8.12	4.11	46.66
"	"	Wimborne (Chalbury)	3.61	3.06	1.60	2.67	1.93	2.01	5.02	1.62	2.72	4.13	7.00	2.72	38.09
"	"	Hazlebury Bryan Rectory.	5.49	3.44	3.14	3.39	3.01	3.31	6.78	3.09	3.38	6.44	10.41	2.86	54.74
"	Devon	Paignton (The College) ...	4.52	2.01	1.88	2.44	2.53	2.69	4.93	3.43	2.99	8.06	7.66	2.42	45.56
"	"	Walkhampton (Lowery) ...	5.63	4.15	3.14	4.10	4.49	4.12	5.57	4.35	3.76	7.77	10.50	5.47	63.05
"	"	Ilington (Middlecott Ho.) ...	7.08	2.36	3.08	3.94	2.83	2.43	5.02	5.35	4.00	7.82	8.72	2.84	55.47
"	"	Cullompton	3.51	2.60	2.05	2.63	2.56	1.73	5.81	3.24	2.23	4.93	6.44	2.69	40.42
"	"	South Molton (Rose Ash) ..	3.59	3.49	3.11	1.67	3.10	2.54	5.57	4.18	2.48	5.66	5.49	3.47	44.35
"	Cornwall	Penzance (Penlee)	3.91	2.96	1.88	2.49	3.50	2.29	5.26	2.75	2.10	4.67	9.42	4.74	45.97
"	"	St. Agnes	4.25	2.20	1.86	4.07	2.04	1.66	4.00	2.96	2.15	5.18	8.36	3.35	42.08
"	"	Bude	4.02	3.18	2.28	1.36	3.00	1.71	4.16	3.67	2.50	4.33	6.80	3.13	40.14
"	"	Ilminster (White Lackington) ..	4.06	2.76	1.54	2.33	2.19	2.06	3.76	4.48	2.70	4.20	6.48	2.56	39.12
"	Somerset	Glastonbury (Street)	2.13	2.96	1.57	2.26	2.41	2.10	4.10	3.11	2.91	2.65	5.35	3.16	34.71
"	"	Dunster (Knowle)	4.22	3.16	3.29	2.18	1.83	1.37	3.65	4.15	2.12	5.27	6.87	2.58	40.69
VI.	"	Clifton (Pembroke Road) ..	3.17	3.99	2.73	2.73	1.94	2.41	5.35	3.26	3.22	3.76	5.73	2.97	41.26
"	"	Stroud (Upfield)	2.55	2.44	1.86	2.44	2.01	1.72	2.40	3.13	2.51	4.21	4.60	2.64	32.51
"	"	Fairford (Hatherop Rec.) ...	1.79	1.20	1.97	1.81	1.39	2.35	3.07	1.90	2.71	4.17	4.73	2.70	29.79
"	"	Moreton-in-Marsh (Longboro') ..	2.02	2.10	1.65	1.90	1.89	2.06	3.00	3.37	2.24	3.69	4.56	2.83	31.31
"	Hereford	Ross (The Graig)	2.73	2.24	1.34	2.16	2.96	1.76	2.60	2.97	3.78	4.96	3.29	1.84	32.63
"	Salop	Ch. Stretton (Woolstaston) ..	3.02	3.01	1.98	2.32	3.68	1.95	2.99	3.94	1.45	3.93	3.26	2.47	34.00
"	"	Much Wenlock (Willey Pk.) ...	2.35	2.42	1.19	1.88	3.09	2.26	2.92	2.77	2.09	3.01	2.56	2.10	28.64
"	"	Oswestry (Hengoed)	3.75	2.94	1.79	2.04	2.95	2.69	2.74	3.34	.98	5.23	3.47	2.85	34.77
"	"	Penkridge (Rodbaston) ...	1.49	2.54	1.34	1.30	2.25	2.28	2.59	2.11	1.16	2.91	2.24	2.03	24.24
"	Stafford	Burton (Shobnall)	1.42	2.25	.81	1.07	1.59	2.29	2.38	1.95	.62	2.36	2.00	1.69	20.43
"	"	Etruria	2.76	2.64	1.78	1.16	1.97	2.24	2.16	.43	.43	1.65	1.94	2.54	23.37
"	Worcester	Malvern (Madresfield Rec.) ..	2.10	2.38	1.23	1.50	2.77	2.02	2.34	2.60	3.31	2.75	3.16	2.02	28.18
"	"	Tenbury (Orleton)	2.86	2.43	1.47	1.25	3.13	1.71	5.34	2.71	2.51	4.04	3.51	1.89	32.85
"	"	Stourbridge (Pedmore) ...	2.15	2.21	1.15	2.11	2.37	2.26	3.07	2.29	1.56	3.37	3.38	2.27	28.19
"	Warwick	Leamington (Upper Parade) ..	1.12	2.23	1.05	2.25	2.00	1.74	2.57	2.50	1.89	2.72	2.80	2.42	25.29
"	"	Bedworth Cemetery	1.66	2.14	1.03	1.54	1.80	1.87	2.72	2.64	2.03	2.79	2.42	2.56	25.20
VII.	"	Loughboro' (Nan Pantan Res) ..	1.15	2.23	.79	1.40	1.45	1.78	2.64	2.83	1.08	2.31	2.23	2.10	21.99
"	"	Bottesford .....	.89	1.54	.46	1.15	1.69	2.41	3.63	2.51	.41	2.61	1.93	1.46	20.69

ENGLAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
VII.	Rutland	Market Overton	2.04	2.36	.77	1.72	1.74	2.02	2.72	2.53	1.14	3.05	3.42	2.50	26.01
"	Lincoln	Sleaford (Ranceby Hall)	1.77	1.51	.66	1.81	2.13	2.48	3.22	2.63	.90	3.13	2.27	2.13	24.64
"	"	Market Rasen	2.01	1.80	.77	1.27	1.51	2.45	3.31	2.48	.75	3.76	1.92	2.38	24.41
"	Notts	Ollerton(ThoresbyGardens)	1.83	1.99	.66	1.80	1.27	2.11	2.64	2.35	.71	2.70	2.21	1.51	21.78
"	Derby	North Darley	3.55	3.82	2.50	3.18	3.34	2.00	3.04	2.30	.57	4.96	2.34	2.69	34.29
VIII.	Cheshire	Congleton(Buglawton Vic.)	2.88	3.44	1.85	1.57	2.16	2.26	2.87	3.91	.51	2.45	2.16	2.70	28.76
"	Lancashire	Manchester (Withington)	2.19	3.79	2.40	1.71	2.19	2.93	2.68	3.92	.94	3.21	1.71	2.51	30.18
"	"	Ormskirk (Rufford)	2.50	3.92	2.50	1.09	2.98	2.77	2.99	3.89	.36	3.21	3.10	3.14	32.45
"	"	Burnley (Swinden, Lower)	4.87	5.53	3.76	2.63	2.53	3.51	4.67	5.31	.27	5.20	3.81	4.19	46.28
"	"	St. Michael's-on-Wyre	3.03	4.81	2.78	1.30	2.51	3.62	2.18	4.86	.74	3.58	3.81	3.65	36.87
"	"	Cartmel (Pit Farm)	3.34	7.95	3.63	1.86	3.13	3.95	3.35	4.61	.46	4.43	5.76	5.11	47.58
IX.	York, W.R.	Rotherham (Moorgate Grove)	1.86	2.80	.80	2.80	1.72	2.14	2.84	2.08	.51	3.97	1.33	1.26	24.11
"	"	Huddersfield (Dalton)	4.14	6.23	3.34	2.55	2.23	3.09	3.87	2.90	.78	5.06	1.94	2.83	38.96
"	"	Leeds (Methley Park)	2.08	4.05	1.62	2.72	1.26	3.03	2.87	2.44	.44	4.00	1.12	1.52	27.15
"	"	Malham Tarn	6.88	9.03	5.58	2.96	3.58	4.21	4.05	5.92	.58	7.06	4.84	6.20	60.89
"	"	Ripon (Mickley)	4.32	5.19	2.17	3.18	1.87	3.76	3.32	2.40	.63	4.67	1.69	2.58	35.78
"	York, E.R.	Patrington	1.31	2.10	.57	1.17	2.20	3.85	3.78	2.29	.71	4.61	2.11	2.75	27.45
"	"	Brantinghamthorpe	1.76	2.89	1.10	1.82	1.39	4.21	4.32	2.37	.67	6.30	1.82	1.78	30.43
"	"	Pocklington (Warter)	2.43	2.97	1.21	2.57	1.94	4.79	3.47	2.16	.73	4.66	1.47	3.32	31.72
"	York, N.R.	Old Malton	2.12	2.62	1.36	1.40	2.12	3.74	1.92	3.25	1.23	4.03	1.27	2.41	27.47
"	"	Thirsk (Sowerby)	2.44	2.05	.91	1.59	2.18	2.96	2.11	2.86	1.30	3.17	1.06	1.24	23.87
"	"	Whitby (Royal Crescent)	1.62	1.92	.70	1.21	1.98	3.47	2.26	2.51	1.31	4.29	1.14	2.02	24.43
"	"	Lockwood Beck	1.80	2.31	1.29	1.03	2.27	3.69	3.01	4.39	1.62	7.08	1.54	2.10	32.13
X.	Durham	Darlington (South End)	1.53	2.88	.76	1.68	2.75	3.74	1.89	2.26	.69	4.89	1.01	1.60	25.73
"	"	Hartlepool(HurworthBurn)	2.58	1.83	1.38	1.53	2.12	2.53	2.37	1.95	1.05	5.15	.73	1.39	24.61
"	"	Wolsingham	3.65	6.03	2.02	1.41	2.72	3.75	2.50	2.75	1.37	5.78	1.56	2.48	36.02
"	Northumberland	Haltwhistle(UnthankHall)	3.16	7.33	2.27	1.16	3.29	3.89	2.74	5.04	.83	3.21	2.22	2.87	38.01
"	"	Morpeth (Meldon Park)	2.21	4.16	1.22	1.63	3.00	3.04	1.96	3.84	1.16	4.69	.95	1.93	29.79
"	"	Alwinton (Biddleston)	2.54	4.67	.96	.99	3.80	2.50	2.18	3.41	1.37	5.33	1.29	2.64	31.68
"	"	Howick Hall	1.91	3.32	.66	1.17	2.78	2.50	2.14	2.51	.85	4.61	1.16	1.94	25.55
"	Cumberland	Borrowdale (Seathwaite)	21.46	25.91	11.24	4.29	8.17	7.19	8.08	13.10	.59	13.84	18.23	13.42	145.52
"	"	Brampton (Denton House)	2.32	4.90	1.73	1.03	3.11	3.04	3.01	6.03	.30	2.91	3.83	2.66	34.87
"	Westmoreland	Kendal (Kent Terrace)	5.51	9.30	4.06	1.71	3.74	3.25	3.55	4.83	.33	4.42	6.30	7.11	54.11
"	"	Appleby	4.67	5.51	2.51	2.19	2.99	1.90	3.23	3.51	.60	3.39	3.99	3.87	38.36
"	"	Lowther Castle	7.96	8.35	5.09	2.40	2.64	2.08	3.02	3.70	.57	4.24	6.72	5.24	52.01

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)	4.45	5.64	4.28	2.69	3.55	2.71	5.97	6.56	3.55	5.71	5.87	4.33	55.31
"	"	Abergavenny (Larchfield) ..	4.84	2.61	2.55	2.64	3.32	2.10	5.50	3.18	3.45	6.17	6.87	2.52	45.75
"	Glamorgan	Cardiff Castle	3.12	3.53	3.58	2.19	2.44	2.64	4.29	4.32	2.35	4.95	4.88	3.50	41.79
"	"	Neath (Fairy Land).....	4.83	4.37	3.08	3.09	3.99	3.61	5.15	5.10	1.68	8.14	6.46	4.38	53.88
"	Cardigan	Llanelli (Old Market Place)	4.63	3.28	3.49	2.00	3.60	3.59	4.53	6.22	2.33	6.70	7.94	3.77	52.08
"	"	Llandovery	5.87	6.62	4.61	2.12	3.26	2.63	4.24	4.79	1.29	6.55	8.01	5.34	55.33
"	Pembroke	Stackpole Court	4.87	2.51	2.76	1.80	4.10	2.80	2.76	4.28	2.21	5.65	5.96	4.00	43.70
"	Cardigan	Troedynaur Rectory.....	4.37	2.39	1.88	1.77	3.29	1.71	4.59	3.89	1.54	5.04	4.93	3.53	38.93
"	Brecknock	Brecknock (Cant-reff Rec.)	7.33	3.60	5.81	3.09	3.02	2.02	4.80	3.70	2.53	7.24	8.66	4.18	55.98
"	"	Newbridge (Llysdiam) ...	3.40	4.96	3.60	1.62	2.54	1.67	4.41	3.49	1.72	4.30	5.07	3.80	40.58
"	Radnor	Rhayader (Nantgwilt).....	7.77	7.00	6.51	2.50	4.73	2.55	6.73	5.27	1.75	7.73	8.22	6.56	67.32
"	Montgomery	Churchstoke (Melington Hall)	3.18	2.65	2.02	1.90	3.48	1.51	2.28	3.14	1.38	3.95	3.69	2.37	31.55
"	Flint	St. Asaph (Nantllys).....	1.73	2.22	1.51	1.89	2.53	1.78	2.85	2.29	1.12	3.12	3.47	2.19	26.70
"	Denbigh	Rosset (Trevalyn Hall) ...	1.95	1.70	.96	1.36	2.79	2.27	3.89	2.37	.82	3.24	2.19	2.10	25.64
"	Merioneth	Dolgelly (Werngoch)	8.23	5.44	5.94	1.89	5.51	3.19	3.31	3.54	1.01	9.59	9.78	7.61	65.04
"	"	Oakley Quarries	8.84	19.97	10.22	3.22	6.86	6.53	8.18	8.18	1.18	9.30	12.05	12.98	107.51
"	"	Corwen (Rhug Gardens) ...	3.70	4.25	1.10	1.76	2.21	1.24	1.90	2.44	1.18	3.33	3.26	2.14	28.51
"	Carnarvon	Llanystumdwy (Talarvor) ...	2.18	2.96	2.49	2.13	4.19	2.01	4.15	3.80	.59	4.64	4.32	2.59	36.05
"	Anglesey	Llanerchymedd (Llwydiarth)	4.02	3.62	2.45	2.11	3.27	2.28	2.73	3.37	.55	7.55	5.62	4.44	42.01
"	Isle of Man	Douglas (Victoria Road)...	4.11	5.66	2.61	2.32	4.19	3.41	2.46	3.06	.53	6.34	4.40	5.75	44.84
"	Jersey	St. Aubins	5.37	1.86	1.71	3.22	2.40	1.85	7.12	4.09	2.81	2.29	3.89	2.46	39.07
"	Guernsey	St. Peter Port	4.47	2.66	2.04	2.62	2.78	1.89	6.58	2.58	4.43	3.01	4.45	2.88	40.39

SCOTLAND.

XII.	Wigton	Garliestown (Galloway House)	3.97	4.68	1.86	2.32	2.64	3.92	1.77	3.92	.21	6.71	4.01	4.49	40.50
"	"	Corsewall	1.94	4.60	1.03	.73	1.49	4.04	.41	2.17	.00	4.26	1.98	2.03	24.68
"	Kirkcudbright	Dalbeattie (Colvend Manse)	3.71	6.15	1.64	2.62	3.81	2.69	1.80	4.34	.13	4.46	5.79	3.99	41.13
"	"	New Galloway (Glenlee)...	8.23	12.66	3.95	2.72	3.26	3.25	2.97	3.91	.16	6.33	8.06	6.59	62.09
"	Dumfries	Moffat (Ericstane)	11.50	12.80	3.90	2.50	2.40	3.10	2.40	1.80	.00	3.70	8.70	7.10	59.90
"	Roxburgh	New Castleton (The Flatt).	5.70	9.00	2.70	1.30	4.50	3.20	2.10	5.10	.50	5.60	5.30	5.10	50.10
"	"	Hawick (Branxholme).....	4.58	6.76	3.24	1.11	4.30	3.33	1.59	4.46	.91	2.61	4.89	2.78	40.56
"	"	Jedburgh	2.53	4.20	.92	1.38	3.10	4.04	3.54	5.55	1.15	2.96	2.15	1.90	33.42
XIII.	Selkirk	The Hangingshaw	3.80	6.70	1.35	1.77	5.84	3.22	.48	4.62	.90	3.04	2.51	1.38	35.61
"	Peebles	Eddlestone (Portmore) ...	2.58	7.88	1.70	1.45	4.15	2.28	1.30	4.67	.80	2.65	1.97	2.03	33.46

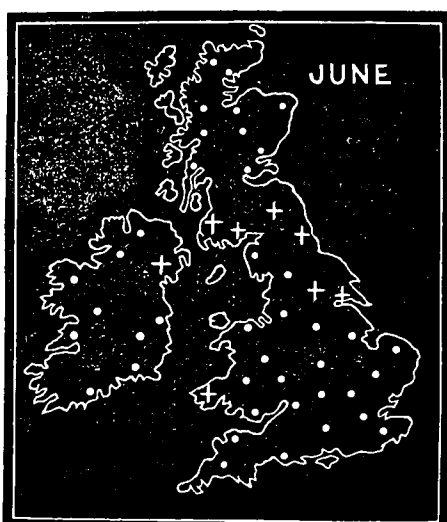
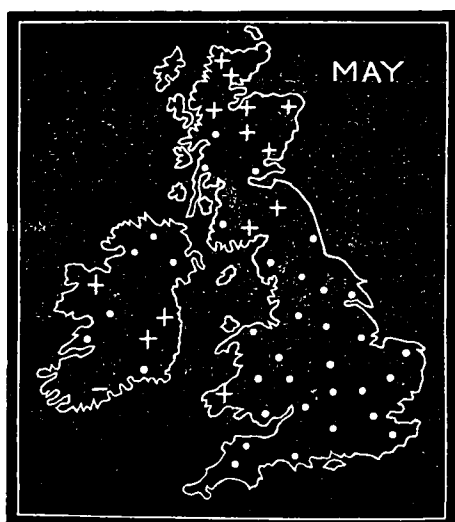
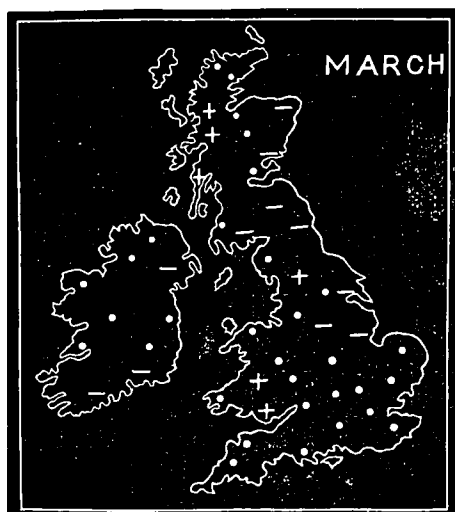
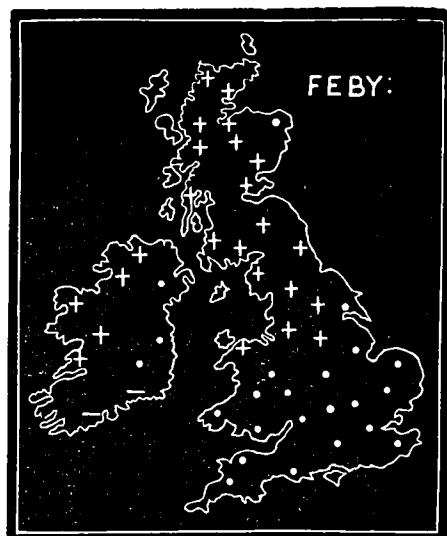
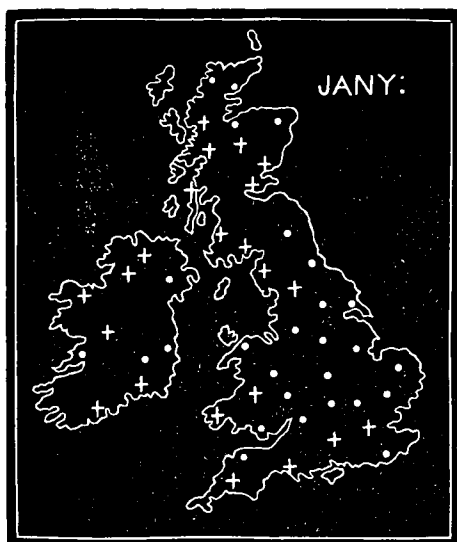
SCOTLAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March	April	May	June	July	August.	Sept.	Oct.	Nov.	Dec.	Total.
XIII.	Berwick.....	Marchmont House	2.79	5.98	1.54	1.67	4.01	2.01	4.04	3.85	1.51	4.99	1.33	1.47	35.19
	Haddington	North Berwick Reservoir	3.50	4.75	.85	1.30	3.30	2.25	4.00	4.75	1.75	3.75	1.75	2.25	34.20
	Edinburgh	Edinburgh (Blacket Place)	2.47	6.81	1.71	1.75	3.20	2.65	2.83	3.83	.48	2.79	1.43	2.25	32.20
	Linlithgow	Uphall	3.15	7.78	2.31	1.72	2.99	2.88	2.52	4.78	.34	2.82	1.98	2.37	35.64
XIV.	Lanark	Biggar (Cambus Wallace)..	3.41	7.08	1.62	1.86	3.31	2.26	3.70	5.68	.40	1.68	2.56	2.50	36.06
	"	Hamilton (Water Works)..	3.75	8.65	3.45	1.95	2.75	2.85	2.70	4.35	.25	3.10	3.50	3.75	41.05
	" Ayr.....	Colmonell	7.62	5.97	1.96	1.70	2.61	2.60	2.79	3.09	.21	5.14	4.94	5.09	43.72
	"	Ayr (Ballantine Drive) ..	3.75	5.85	2.90	2.12	2.60	2.75	3.29	2.98	.15	2.95	2.72	2.95	35.31
XV.	"	Ardrossan (Kirkhall)	3.88	5.72	2.52	1.69	2.23	2.50	2.94	4.20	.05	3.44	2.56	2.95	34.68
	" Dumbarton	Arrochar	14.30	14.10	7.30	3.90	3.58	4.60	5.19	2.60	.06	4.82	10.50	7.60	78.55
	" Stirling	Killearn (Old Balikrain) ..	9.59	13.64	5.60	2.53	2.75	3.22	3.28	5.69	.66	4.87	5.66	4.98	62.47
	" Bute	Rothsay (Barone Cott.) ..	7.35	7.82	2.61	2.25	2.79	3.17	4.34	4.45	.11	3.35	4.82	4.38	47.44
	" Argyll	Lochgilphhead (Kilmory) ..	9.32	11.74	5.46	2.43	3.48	2.94	3.77	5.89	.24	2.94	6.97	6.49	61.67
	"	Appin (Airds)	7.95	7.16	5.40	1.24	4.04	4.01	4.40	6.43	.15	2.62	7.64	5.45	56.49
	"	Morvern (Drimnin)	10.72	10.56	6.79	2.02	3.91	3.75	4.59	5.86	.14	2.76	9.11	6.32	66.53
	"	Ballachulish (Ardsheal) ..	10.63	13.50	9.26	2.04	4.76	4.27	6.20	8.18	.25	3.39	11.90	8.02	82.40
	"	Strontian (Laudale)	10.93	9.81	7.23	1.66	3.50	3.61	4.43	4.54	.22	2.78	12.14	7.72	68.57
	"	Cantire (Devaar)	4.24	6.22	2.01	1.46	1.57	2.68	1.85	1.72	.39	4.56	4.12	5.50	36.32
	"	Islay (Eallabus)	5.67	7.30	3.03	1.56	3.25	2.78	2.86	2.91	.43	3.28	5.68	4.87	43.62
	"	Jura (Ardin)	7.08	9.09	4.49	2.39	3.29	2.75	3.81	3.68	.25	3.43	8.00	6.39	54.65
XVI.	Clackmannan ..	Dollar	4.49	8.63	2.69	.91	2.37	2.99	2.96	5.25	.08	2.19	3.26	3.39	39.21
	"	Loch Leven Sluice	6.20	9.20	3.40	.70	2.50	2.40	2.90	4.00	.30	4.60	3.30	3.10	42.60
	" Kinross	Kilconquhar (Balcarres) ..	3.40	4.91	1.27	1.80	4.01	2.31	4.58	5.26	.47	4.21	1.85	1.71	35.78
	" Fife	Stronvar	14.92	16.79	7.55	2.27	3.08	3.51	5.78	4.99	.21	4.61	8.62	8.62	80.95
	" Perth	Coupar Angus	3.55	5.22	1.29	1.50	2.83	2.42	2.93	4.96	.18	3.89	1.90	1.78	32.45
	"	Dalnaspidal H.R.S.	11.92	14.82	6.21	2.36	3.81	2.86	4.84	6.48	.55	3.79	6.56	7.16	71.36
	"	Dundee (Broughty Ferry)..	2.73	4.14	.98	1.39	3.40	2.06	3.32	4.63	.15	3.50	1.18	1.72	29.20
	" Forfar.....	Kirriemuir (Lintrathen) ..	4.83	5.76	2.01	1.81	3.20	2.89	2.83	4.23	.56	3.15	4.43	3.32	39.02
XVII.	"	The Burn [Brechin].....	3.70	5.50	.90	1.20	4.90	2.30	4.10	4.90	.40	4.00	2.20	3.00	37.10
	" Kincardine ..	Coldstone Manse	2.51	2.70	1.16	1.11	4.58	1.71	3.51	5.66	.97	2.55	.67	2.22	29.35
	" Aberdeen ..	Haddo House	1.61	2.20	.29	.72	4.10	1.45	3.42	7.23	1.02	3.39	1.04	3.88	30.35
	"	Old Deer	2.21	2.86	.42	.79	3.98	1.23	3.64	3.76	1.32	3.62	1.17	2.75	27.75
	" Moray	Grantown	2.72	4.94	1.87	.85	4.78	2.10	4.68	5.20	1.51	2.22	.55	2.82	34.24
	"	Gordon Castle	1.91	2.87	.84	.79	5.20	1.12	7.37	5.00	1.53	2.70	.39	2.23	31.95
	"	Elgin.....	1.59	3.63	.84	.59	4.16	1.41	6.23	3.87	.92	2.67	.36	1.99	28.26

IRELAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March.	April.	M. y.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XXI.	Carlow	Browne's Hill	3.70	2.72	1.61	4.09	4.65	2.52	4.23	3.14	.35	4.80	3.54	2.50	37.85
	Queen's County	Abbey Leix (Blandsfort)	4.03	3.26	2.08	4.61	2.98	2.59	4.69	4.20	.31	4.45	3.76	3.02	39.98
	Kildare	Straffan House	3.29	2.64	2.08	3.38	3.79	2.02	4.16	3.78	.44	3.88	2.01	2.09	33.56
	Dublin	Glusnevin(BotanicGardens)	2.94	2.42	1.60	3.02	4.00	1.87	3.72	3.56	.42	3.96	1.28	1.61	30.40
	Meath	Athboy	4.13	3.94	1.79	4.00	2.78	2.13	3.93	2.85	.29	4.21	2.80	3.60	36.45
	"	Moynalty (Westland)	4.66	3.92	1.99	3.73	2.70	2.28	3.86	2.77	.23	4.23	3.14	3.40	36.91
	Westmeath	Mullingar (Belvedere)	4.50	3.97	2.26	4.29	3.35	2.58	3.44	3.85	.37	3.34	3.16	3.58	38.69
	"	Athlone (Twyford)	3.96	3.85	2.13	4.49	3.51	2.26	3.61	3.13	.17	4.21	3.49	3.28	38.09
	Louth	Ardee (Lisrenny)	3.69	3.20	1.42	3.37	3.51	2.60	3.83	1.80	.10	4.95	2.27	2.51	33.25
	"	Greenore	2.23	3.60	1.14	1.57	3.12	2.77	2.92	2.16	.47	7.13	1.72	3.17	32.00
XXII.	Longford	Edgeworthstown	4.03	3.88	2.41	4.15	2.84	1.78	4.48	3.96	.10	4.29	3.65	3.09	38.66
	Galway	Ballinasloe	4.48	4.69	2.51	4.19	3.21	2.10	4.20	3.44	.23	4.23	5.63	3.56	42.47
	"	Kylemore House	9.89	10.76	5.08	8.98	6.05	4.59	9.48	5.29	.31	7.25	11.35	10.58	89.61
	"	Tuam (Gardenfield)	5.91	6.34	2.77	5.20	4.19	2.26	4.63	3.64	.13	3.96	4.27	4.74	48.04
	Mayo	Ballinrobe (Cranmore)	6.87	7.24	3.25	5.40	5.74	2.99	4.83	2.34	.23	4.45	4.71	5.77	53.82
	"	Crossmolina (Enniscoe)	8.94	8.63	4.08	3.84	4.46	3.04	7.51	3.13	.77	6.03	7.12	6.72	64.27
	"	Ballymote (New Park)	6.15	5.20	2.85	4.65	2.75	2.45	6.45	3.25	.15	3.60	3.40	4.85	45.75
	"	Sligo (Mount Shannon)	4.73	3.85	3.09	3.90	2.68	2.97	5.38	3.94	.29	4.15	3.70	4.04	42.72
	Leitrim	Ballinamore (Lawderdale)	5.15	4.80	2.32	5.45	3.65	2.40	4.98	2.82	.29	4.37	3.92	4.01	44.16
	Cavan	Lough Sheelin (Arley)	4.43	4.11	1.94	4.05	2.46	1.89	4.65	2.96	.23	3.43	2.61	2.76	35.52
XXIII.	Fermanagh	Brookboro'(Colebrooke Pk)	6.00	5.05	2.25	3.69	2.57	2.36	3.24	3.48	.15	4.67	3.39	4.58	41.43
	Armagh	Edward St. [Newry]	5.18	3.83	1.65	3.13	1.77	2.60	3.13	2.50	.00	5.94	3.65	3.94	37.32
	"	Armagh	4.58	3.61	1.80	2.55	2.45	2.93	3.63	2.35	.10	4.38	2.04	2.64	33.06
	Down	Newcastle (Fairleigh)	5.68	4.34	1.47	3.34	3.78	4.09	2.60	2.97	.65	12.44	4.78	5.31	51.45
	"	Donaghadee	3.48	2.85	1.18	1.91	2.41	4.68	3.84	1.74	.35	5.16	1.30	2.43	31.33
	Antrim	Belfast (Springfield)	4.81	4.33	2.96	1.96	3.30	4.25	5.20	2.36	.30	7.26	2.26	3.88	42.87
	"	Ballymena	4.67	4.54	2.05	2.25	2.38	2.96	5.13	4.40	.32	3.77	3.25	3.60	39.32
	"	Bushmills (Dundarave)	4.57	5.20	2.15	1.60	2.05	2.10	3.75	2.90	.41	2.70	2.25	4.68	34.36
	Londonderry	Newtown Limavady	5.06	5.87	2.23	1.17	2.08	1.95	3.57	2.18	.27	2.58	2.24	3.34	32.54
	Tyrone	Stewartstown (The Square)	4.51	3.92	1.98	2.76	2.45	3.24	3.24	3.38	1.57	1.4	5.83	2.37	3.01	35.16
"	"	Omagh (Edenfel)	6.64	5.18	3.08	2.83	2.94	2.62	3.08	2.44	.17	3.91	3.28	3.95	40.12
	Donegal	Killybegs	7.53	8.43	4.23	3.83	4.17	3.48	6.44	4.82	.28	4.46	5.25	7.66	60.58
	"	Malin Head	2.82	4.20	1.87	1.38	1.86	1.62	3.25	2.29	.24	1.72	3.04	2.25	26.54
	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"

MAPS OF MONTHLY RAINFALL IN 1894.

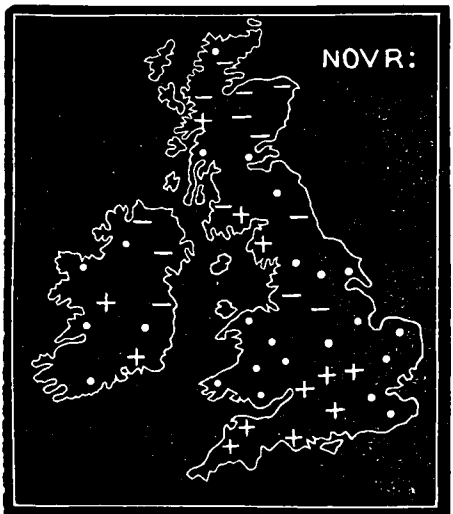
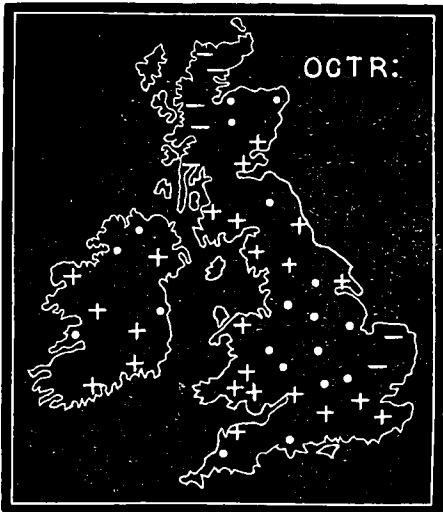
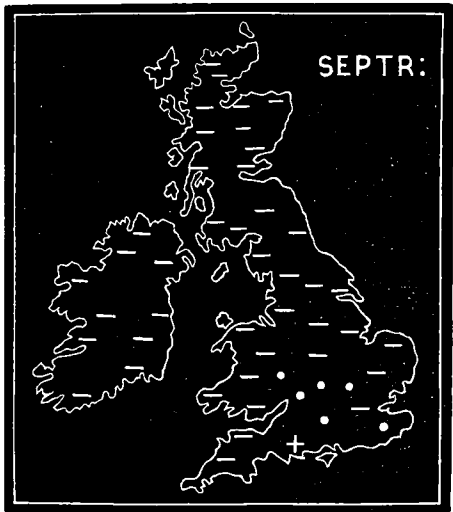
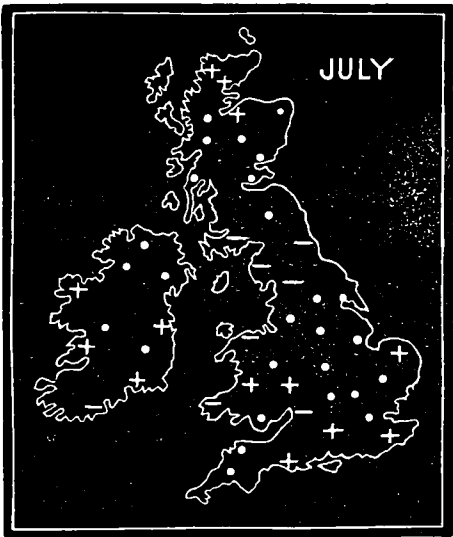


• Within an inch of average.

+ More than 1 in. above average.

— „ „ „ below „

MAPS OF MONTHLY RAINFALL IN 1894.



• Within an inch of average.

+ More than 1 in. above average.

— „ „ „ below „

NOTES ON THE MONTH.

JANUARY.

Dry in Leicestershire, and from thence along a belt of country reaching to the mouth of the Tweed. Wet in the N.W. of England and throughout the West of Scotland ; near the average elsewhere.

FEBRUARY.

Rainfall either slightly below or near the average, at most stations (English, Welsh, or Irish) south of Lat. 53° N. Very wet in the N.W. of England and in Scotland. The excess was relatively greatest in the neighbourhood of Edinburgh, where the fall was more than an inch above the greatest recorded in any February for 116 years, and more than $4\frac{1}{2}$ times the average for the month. It was more than double the average at many Scottish stations, and more than three times the average at several of the South-Eastern ones. The absolute amounts were of course greatest at the Central and the Western stations, many of which had between 10 and 15 inches ; Ben Nevis had 33·55 in. At many of the Western stations this was the fifth consecutive wet month ; we give the values for Ardsheal, Ballachulish, not as the very highest, but as a type of the fall at a wet station :—

1893.			1894.		Total in 5 Months. in.
Oct. in	Nov. in.	Dec. in.	Jan. in.	Feb. in.	
11·38	...	7·65	...	13·50	56·41

The Ben Nevis record goes far and away beyond this, for Mr. Mossman has shown that in the four months (119 days) between November 15th, 1893, and March 14th, 1894, the fall amounted to 104·39 in.

MARCH.

An average month, drier than usual along the East Coast of Great Britain, and with slight excesses at Western and North-Western stations. Below the average over almost the whole of Ireland, but the deficiency slight, except in the South.

APRIL.

An average month, but very wet at some stations in the S. and W. of Ireland (Derreen, Kenmare had 10·22 in.).

MAY.

A month of about average rainfall, slightly above the average in Scotland and Ireland, below it in the S.W. of the latter country.

JUNE.

Rainfall near the average, except in the N.E. of England and the S. of Scotland, where it was slightly in excess.

JULY.

The rainfall of this month is usually so largely the product of thunderstorms that it is rare for it to be uniformly wet or dry, and in 1894 it was as irregular as usual. At most stations in the S.E. of England the fall was more than double the average ; at many it was the wettest July upon record. In other parts of England there were hundreds of stations at which the fall was less than usual, and yet among them, and in some instances within a mile or two, there were stations with considerable excesses. The same applies to Scotland and Ireland, but there was a marked excess in the extreme N. of Scotland.

AUGUST.

A wet month, not markedly excessive in quantity, but in frequency, of R. There were a few localities with less than the average, but they were but few ; Kent, Leicester, Nottingham, and East Yorks, and the North of Ireland afforded instances of deficient fall, but the general condition was excess.

SEPTEMBER.

Rather dry over England generally ; very dry in the North-West of England, in Wales, in Scotland, and in Ireland. Many Scotch stations report the month to have been absolutely rainless, and there can be no doubt that over considerable areas the total was less than one-tenth of an inch.

OCTOBER.

The distribution of rain was rather irregular ; there were some stations with double their average, *e.g.*, Waringstown, co. Down, with 5·51 in. instead of 2·71 in., and on the other hand there were some with less than a third, *e.g.*, Strathconan, Ross-shire, with only 1·42 in. instead of 4·65 in. Taking a general view, the monthly rainfall was probably not much above the average.

NOVEMBER.

Considering what we have already had to write respecting the floods of October and November it will seem strange to speak of November also as a month of average rainfall, but it appears to be the fact. There were of course great excesses at stations in Dorsetshire and other counties over which the flood rains were most intense, but these scarcely extended beyond Divisions I., II., III., V. and part of VI., and in other parts of the kingdom the fall was at as many places below, as it was above, the average. We may quote a few words from two observers :—

“ *Westley, Bury St. Edmunds.*—Water still short in West Suffolk.”

“ *Barkby, Leicester.*—Water is still scarce.”

Other remarkable contrasts may be noted in Scotland, for example :—

WESTERN STATIONS.			EASTERN STATIONS.		
XV.	Ardsheal	11·90 in.	XVII.	Grantown	·55 in.
„	Laudale	12·14 „	„	Forres	·29 „
XVIII.	Fort William	11·10 „	„	Gordon Castle	·39 „
„	Glenaladale.....	16·59 „	„	Elgin	·36 „

DECEMBER.

Very few stations at which the rainfall differed from the average by more than an inch, except in the Highlands of Scotland and in the extreme West of Ireland, in both of which localities the fall was heavy.

THE RELATION OF THE TOTAL FALL OF RAIN IN 1894 TO THE AVERAGE.

WE have done our best to set forth the particulars of the fall of rain in minutes, hours, days and months. We have shown that 1894 was not at all deficient in droughts, and too much suffering was produced by the floods for them to have been ignored, and at last we come to the summation of the whole matter—the yearly total. Was 1894 a dry or a wet year? The tables upon the three following pages and the annexed map answer the question beyond all cavil. There are the actual facts for nearly two hundred stations, each selected with care so as to ensure as nearly as practicable equable representation for all parts of the British Isles. No record is quoted unless it is believed that precisely the same gauge has been in the same position since January 1st, 1880, and that the record was absolutely perfect from that day until January 1st, 1890, and similarly perfect during the whole of 1894. Of records such as these we have several hundreds, and from these we select those which are best spread over the country. On these four pages the last column shows most plainly the areas of rainfall above and below the average. Take the first entry as an illustration; the average rainfall at Camden Square for the ten years 1880-89 was 25·45 in., the fall in 1894 was 27·94 in. or $2\frac{1}{2}$ inches above the average, and the average being 25·45 in., 2·49 in. is obviously 10 per cent., and as it is above the average the entry becomes + 10, and so of all the others. Before, however, we proceed to consider the character of the year, let us see how the above result would be entered upon the map—this is, we hope, made clear by the note at its foot—an excess of 10 per cent. is represented by a + over the site of the place of observation.

We must make one more preliminary remark, merely as a reminder of what we have proved in previous volumes. An extremely wet year may have half as much again as the average fall, *i.e.*, may have an excess of 50 per cent., + 50. On the other hand, an extremely

DIFFERENCE OF TOTAL RAINFALL IN 1894 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.

dry year may have only two-thirds of the average, *i.e.*, may have a deficiency of 33 per cent., — 33. These as we have said are extremes, and really the limits adopted upon our map (many, many years ago) seem very suitable; they show that a fall within 10 per cent. of the average may be regarded as an average one, and that one differing from the average by over 25 per cent. is an unusual event to which the ring calls attention.

We can now go through the tables and the map and consider what they show.

Taking the map first, we see that there is no case of a — in a ring, *i.e.*, of a deficiency exceeding 25 per cent., but several stations are very nearly entitled to it, *e.g.*, Stubton (near Newark, Notts) with —23, and Burton-upon-Trent with —21, both being in that central district of which so much was heard, in consequence of the supply of water to Leicester proving insufficient.

Moderate excesses prevailed over the centre of Scotland and of Ireland, and the southern half of England and of Wales. Lastly, an area of large excesses extends from Devon along the south coast to Kent. The following had excesses of 30 per cent. or more :—

Sheldwich, Faversham, Kent.....	+ 30
Chilgrove, Chichester, Sussex	+ 32
Osborne, Isle of Wight	+ 37

Finally we have taken the means of all the returns on pages [172] to [175], and the following is the result.

ABSTRACT.

COUNTRIES.	No. of Records.	Average 1880-89.	1894.	Diff. from Average. 1880-89.	
				Amount.	Per cent.
England and Wales...	95	in. 34·06	in. 36·14	in. 2·08	+ 6
Scotland	45	41·47	44·20	2·73	+ 7
Ireland	38	38·97	40·82	1·85	+ 5
Mean of all Stations...	178	36·98	39·18	2·20	+ 6

This shows that over the United Kingdom as a whole the total fall in 1894 was singularly near the average.

COMPARISON OF THE RAINFALL OF THE YEAR 1894,
WITH THE AVERAGE OF THE YEARS 1880-89.

ENGLAND & WALES.

DIV.	COUNTY.	STATION.	Average, 1880-9.	Depth in 1894.	Difference from average, 1880-9.	
					Per Amount.	cent.
			in.	in.	in.	
I.	Middlesex	London (Camden Square)	25·45	27·94	2·49	+ 10
II.	Surrey	Dorking (Abinger Hall)	30·60	38·72	8·12	+ 27
„	Kent	Tenterden	28·11	32·07	3·96	+ 14
„	„	.....(<i>Snowdon</i>)				
„	„	Maidstone (Hunton Court) ...	24·59	28·96	4·37	+ 18
„	„	Sheldwich	28·70	37·31	8·61	+ 30
„	Sussex, West...	Chichester (Chilgrove)	32·83	43·27	10·44	+ 32
„	„ East ...	Maresfield (Forest Lodge).....	31·41	36·93	5·52	+ 18
„	Hampshire.....	Isle of Wight (Osborne)	27·29	37·34	10·05	+ 37
„	„	Christchurch (Mudeford)	27·01	34·72	7·71	+ 29
„	„	Alresford (Ovington)	31·02	36·15	5·13	+ 17
„	Berkshire	Newbury (Welford Park) <i>n.g.</i>	30·27	37·93	7·66	+ 25
III.	Hertfordshire ..	Hertford (Bayfordbury)	25·04	25·22	·18	+ 1
„	Buckingham ...	Slough (Langley)	24·37	28·22	3·85	+ 16
„	„	Winslow (Addington Manor) ..	27·97	27·36	·61	— 2
„	Oxfordshire ...	Oxford (Magdalen Coll.)	26·19	27·88	1·69	+ 6
„	Northampton ..	Wellingboro' (Croyland Abbey)	28·67	24·05	4·62	— 16
„	Bedfordshire ...	Bedford (Milton Ernest)	23·87	25·68	1·81	+ 8
„	Cambridgeshire	Ely (Stretham)	22·39	22·29	·10	— 0
„	„	Wisbech (Bank House).....	25·27	23·48	1·79	— 7
IV.	Essex	Chelmsford (High Street).....	23·01	22·15	·86	— 4
„	„	Saffron Walden (Newport) ...	24·82	23·73	1·09	— 4
„	Suffolk	Rendlesham Hall	24·83	23·56	1·27	— 5
„	„	Ixworth (Walsham-le-Willws.)	26·13	27·68	1·55	+ 6
„	Norfolk	Diss	25·81	27·27	1·46	+ 6
„	„	Swaffham (Pickenham Hall)...	27·33	33·33	6·00	+ 22
„	„	Sprowston (Oak Lodge).....	26·11	26·27	·16	+ 1
„	„	Hunstanton	23·93	23·99	·06	+ 0
V.	Wilts	Salisbury Plain (Chitterne Ho.)	28·26	32·80	4·54	+ 16
„	„	New Swindon	28·38	34·39	6·01	+ 21
„	Dorset.....	Weymouth (Langton Herring)	29·36	37·52	8·16	+ 28
„	Devon.....	Ashburton (Druid House).....	51·28	64·26	12·98	+ 25
„	„	Coryton (Lew Down)	46·29	58·24	11·95	+ 26
„	„	Bampton (Huntsham)	44·52	51·88	7·36	+ 17
„	„	Barnstaple (Arlington Court)..	52·85	59·48	6·63	+ 13
„	Cornwall	Marazion.....	38·68	42·39	3·71	+ 10
„	„	St. Austell (Trevarna)	47·10	51·16	4·06	+ 9
„	Somerset	Glastonbury (Street)	31·16	34·71	3·55	+ 11
VI.	Gloucestershire	Clifton (Pembroke Road)	36·08	41·26	5·18	+ 14
„	„	Stroud (Upfield).....	30·91	32·51	1·60	+ 5
„	Hereford	Ross (The Graig)	31·18	32·63	1·45	+ 5
„	„	Kington (Lynhales)	35·32	39·74	4·42	+ 13
„	Shropshire.....	Bishop's Castle (Castle Street).	34·08	32·80	1·28	— 4

ENGLAND & WALES.—*Continued.*

DIV.	COUNTY.	STATION.	Average, 1880-9.	Depth in 1894.	Difference from average, 1880-9.	
					Per Amount.	cent.
			in.	in.	in.	
VI.	Shropshire	Oswestry (Hengoed)	34·95	34·77	·18	— 1
„	„ ..	Adderley Rectory	28·80	24·74	4·06	— 14
„	Stafford	Dennis [Stourbridge]	28·07	26·09	1·98	— 7
„	„ ..	Burton (Shobnall)	25·86	20·43	5·43	— 21
„	„ ..	Cheadle (The Heath House) ...	32·71	27·20	5·51	— 17
„	Worcester	Northwick Park	30·09	27·17	2·92	— 10
„	„ ..	Grt. Malvern (Church Street).	29·49	31·32	1·83	+ 6
„	Warwick	Kineton (Fenny Compton) ...	27·53	24·87	2·66	— 10
„	„ ..	Coventry (Priory Row)	28·94	26·23	2·71	— 9
VII.	Leicester	Thornton Reservoir	27·69	23·21	4·48	— 16
„	Rutland	Market Overton	28·54	26·01	2·53	— 9
„	Lincoln	Stubton [Newark]	27·44	21·09	6·35	— 23
„	„ ..	Horncastle (Bucknall)	25·96	23·02	2·94	— 11
„	„ ..	Brigg	27·22	25·13	2·09	— 8
„	Nottingham ...	Worksop (Hodsock Priory) ...	25·84	21·95	3·89	— 15
„	Derby	Matlock Bath	36·62	29·87	6·75	— 18
„	„ ..	Glossop (Spire Hollin)	41·60	42·94	1·34	+ 3
VIII.	Cheshire	Chester Nurseries	29·08	24·32	4·76	— 16
„	„ ..	Chelford (Astle Hall)	30·73	26·85	3·88	— 13
„	Lancashire	Ormskirk (Rufford)	31·86	32·45	·59	+ 2
„	„ ..	Over Darwen (St. James's Vic.)	46·56	49·78	3·22	+ 7
„	„ ..	Kirkham (Weeton)	37·04	37·49	·45	+ 1
„	„ ..	Cartmel (Holker)	42·25	45·37	3·12	+ 7
IX.	York, W. Ridng.	Wakefield (Alverthorpe Hall).	26·72	28·36	1·64	+ 6
„	„ „ ..	Otterburn-in-Craven	41·19	47·12	5·93	+ 14
„	„ „ ..	Knaresborough (Farnham) ...	27·37	30·10	2·73	+ 10
„	„ E. Riding.	Pocklington (Warter)	30·46	31·72	1·26	+ 4
„	„ N. Riding.	Old Malton	26·90	27·47	·57	+ 2
„	„ „ ..	Leyburn	36·10	36·70	·60	+ 2
„	„ „ ..	Guisborough (Hutton Hall) ...	33·97	27·79	6·18	— 18
X.	Durham	Darlington (South End)	26·45	25·73	·72	— 3
„	„ ..	Wolsingham	35·27	36·02	·75	+ 2
„	Northumberland	Haltwhistle (Unthank Hall)...	35·97	38·01	2·04	+ 6
„	„ ..	Rothbury (Crag-side)	34·03	33·41	·62	— 2
„	„ ..	Pawston [Coldstream]	30·00	29·58	·42	— 1
„	Cumberland ...	Borrodale (Seathwaite)	129·00	147·53	18·53	+ 14
„	„ ..	Carlisle Cemetery	30·34	38·88	8·54	+ 28
„	Westmoreland.	Appleby	32·75	38·36	5·61	+ 17
XI.	Monmouth	Abergavenny (Larchfield)	38·65	45·75	7·10	+ 18
„	Glamorgan	Cardiff Castle	39·55	41·79	2·24	+ 6
„	„ ..	Neath	50·13	54·35	4·22	+ 8
„	Carmarthen ...	Llandilo (Dynevour Castle) ...	51·17	60·65	9·48	+ 19
„	Pembroke	Pembroke (Stackpole Court) ..	41·59	43·70	2·11	+ 5
„	„ ..	Castle Malgwyn [Llechryd] ...	45·29	46·56	1·27	+ 3
„	Brecknock	Brecknock (Cantreff)	51·27	55·98	4·71	+ 9
„	Radnor	Rhayader (Nantgwillt)	62·80	67·32	4·52	+ 7
„	Montgomery ...	Newtown (Dolfor)	39·77	37·33	2·44	— 6

ENGLAND & WALES.—*Continued.*

DIV.	COUNTY.	STATION.	Average, 1880-9.	Depth in 1894.	Difference from average, 1880-9.	
					Per Amount, cent	
XI.	Denbigh.....	Colwyn (Nant-y-Glyn)	31·55	30·46	1·09	— 3
„	Merioneth	Llanderfell (Palé)	47·47	50·05	2·58	+ 5
„	Carnarvon	Llanystumdwy (Talarvor) ...	36·53	36·05	·48	— 1
„	Anglesea	Llanerchymedd Lwdiarth Esgob	36·63	42·01	5·38	+ 15
„	Isle of Man ...	Douglas (Victoria Road)	40·60	44·84	4·24	+ 10
„	Scilly	St. Mary's	32·42	38·04	5·62	+ 17

SCOTLAND.

XII.	Kirkeudbright.	Dalbeattie (Colvend Manse) ...	36·08	41·13	5·05	+ 14
„	„	Gatehouse (Cally)	49·15	49·84	·69	+ 1
„	„	Cargen [Dumfries]	39·74	49·43	9·69	+ 24
„	Dumfries	Durrisdeer (Drumlanrig Cas.)	42·00	38·30	3·70	— 9
„	„	Moffat (Ericstane)	52·63	59·90	7·27	+ 14
„	Roxburgh	New Castleton (The Flatt) ...	43·90	50·10	6·20	+ 14
„	„	St. Boswells (Elliston)	28·73	31·75	3·02	+ 11
XIII.	Berwick	Marchmont House	34·01	35·19	1·18	+ 3
„	Haddington ...	Haddington Asylum	26·24	29·20	2·96	+ 11
„	Edinburgh.....	Pentland Hills (Glencorse) ...	39·21	40·40	1·19	+ 3
XIV.	Lanark	Biggar (Cambus Wallace).....	29·98	36·06	6·08	+ 20
„	„	Airdrie (Hillend Res.)	35·80	42·97	7·17	+ 20
„	Ayr.....	Girvan (Pinmore)	48·25	47·02	1·23	— 3
„	„	Kilmarnock (North Craig) ...	35·77	43·40	7·63	+ 21
„	„	Ardrossan (Kirkhall).....	34·92	34·68	·24	— 1
„	Renfrew.....	Gorbals W.W. (Waulk Glen)..	43·32	55·50	12·18	+ 28
XV.	Dumbarton ...	Helensburgh (Lyleston)	45·14	48·70	3·56	+ 8
„	„	Arrochar	74·10	78·55	4·45	+ 6
„	Bute	Rothsay (Barone Cottage) ...	46·04	47·44	1·40	+ 3
„	Argyll	Lochgilphead (Kilmory)	58·49	61·67	3·18	+ 5
„	„	Appin (Airds)	53·62	56·49	2·87	+ 5
„	„	Strontian (Laudale)	78·71	68·57	10·14	— 13
„	„	Islay (Eallabus).....	47·65	43·62	4·03	— 8
„	„	Mull (Quinish)	57·28	57·24	·04	— 0
XVI.	Perth	Bridge of Turk	66·09	69·30	3·21	+ 5
„	„	Crieff (Ochertyre).....	40·30	46·02	5·72	+ 14
„	„	Dalnaspidal	57·61	71·36	13·75	+ 24
„	Forfar	Broughty Ferry (Douglas Ho.)	27·27	29·20	1·93	+ 7
XVII.	Kincardine ...	Fettercairn	32·72	33·80	1·08	+ 3
„	Aberdeen	Braemar	35·57	41·28	5·71	+ 16
„	„	Cromar (Logie Coldstn. Manse)	28·62	29·35	·73	+ 3
„	„	Aberdeen (Rose Street).....	27·76	25·52	2·24	— 8
„	„	Old Deer	30·57	27·75	2·82	— 9
„	Banff	Keith	29·98	35·31	5·33	+ 18
„	Elgin	Grantown	28·65	34·24	5·59	+ 20
„	Nairn	Nairn (School House)	22·61	26·39	3·78	+ 17
XVIII.	Ross, West ...	Strathconan [Beaul]	49·76	55·71	5·95	+ 12
„	„	Braemore House.....	57·94	59·68	1·74	+ 3
„	Ross, East	Alness (Ardross Castle).....	35·31	39·35	4·04	+ 11

SCOTLAND—Continued.

DIV.	COUNTY.	STATION.	Average 1880-9.	Depth in 1894.	Difference from average, 1880-9.	
					Per Amount.	cent.
			in.	in.	in.	
XVIII.	Inverness, West	Glenquoich	102·64	108·07	5·43	+ 5
XIX.	Sutherland	Invershin	31·50	28·40	3·10	— 10
"	"	Golspie	30·47	31·33	·86	+ 3
"	"	Scourie	40·58	45·15	4·57	+ 11
"	Caithness	Watten	27·01	26·21	·80	— 3
"	Orkney	S. Ronaldshay (Roeberry)	31·61	28·40	3·21	— 10

IRELAND.

XX.	Kerry	Kenmare (Derreen)	67·99	68·12	·13	+ 0
"	Waterford	Waterford (Brook Lodge)	38·31	42·51	4·20	+ 11
"	"	Glenam [Clonmel]	42·15	42·84	·69	+ 2
"	Tipperary	Tipperary (Henry Street)	37·78	41·22	3·44	+ 9
"	"	Derry Castle [Killaloe]	46·33	51·72	5·39	+ 12
"	Limerick	Limerick (Kilcornan)	30·76	32·20	1·44	+ 5
"	Clare	Ennis	39·20	39·94	·74	+ 2
"	"	Miltown Malbay	44·12	46·29	2·17	+ 5
XXI.	Wexford	Enniscorthy (Ballyhyland) ..	42·80	44·95	2·15	+ 5
"	"	Gorey (Courtown House)	35·39	38·59	3·20	+ 9
"	Kilkenny	Inistiogue (Woodstock)	41·67	36·21	5·46	— 13
"	Wicklow	Bray (Fassaroe)	43·28	44·12	·84	+ 2
"	Carlow	Carlow (Browne's Hill)	33·59	37·85	4·26	+ 13
"	King's Co.	Parsonstown (Birr Castle)	32·22	35·93	3·71	+ 12
"	Dublin	Dublin (Fitz William Square) ..	27·47	29·26	1·79	+ 7
"	West Meath ...	Athlone (Twyford)	38·97	38·09	·88	— 2
"	"	Mullingar (Belvedere)	34·69	38·69	4·00	+ 12
"	Louth	Dundalk (Farndreg)	29·30	30·25	·95	+ 3
"	Longford	Edgeworthstown (Currygrane) ..	35·43	38·66	3·23	+ 9
XXII.	Galway	Ahascragh (Clonbrock)	39·91	48·60	8·69	+ 22
"	"	Tuam (Gardenfield) 1 ft.	44·28	48·04	3·76	+ 8
"	Mayo	Crossmolina (Enniscoe)	51·41	64·27	12·86	+ 25
"	Sligo	Sligo (Mount Shannon)	40·52	42·72	2·20	+ 5
XXIII.	Fermanagh ...	Brookboro' (Colebrook Park) ..	41·02	41·43	·41	+ 1
"	Armagh	Armagh Observatory	32·16	33·06	·90	+ 3
"	Down	Warrenpoint (Summer Hill) ...	37·88	38·81	·93	+ 2
"	"	Seaforde	37·89	40·88	2·99	+ 8
"	"	Banbridge (Milltown)	31·44	28·85	2·59	— 8
"	"	Donaghadee	31·58	31·33	·25	— 1
"	Antrim	Belfast (Antrim Road)	34·57	37·12	2·55	+ 7
"	"	Ballymena (Harryville)	39·41	39·32	·09	— 0
"	"	Bushmills (Dundarave)	37·87	34·36	3·51	— 9
"	Londonderry ...	Garvagh (Moneydig)	39·02	38·90	·12	— 0
"	"	Londonderry (Creggan Res.) ..	40·78	40·67	·11	— 0
"	Tyrone	Stewartstown (The Square) ...	34·90	35·16	·26	+ 1
"	"	Omagh (Edenfel) ...	36·63	40·12	3·49	+ 10
"	Donegal	Raphoe (Convoy House)	46·94	50·33	3·39	+ 7
"	"	Moville (Prospect Villa)	41·23	39·90	1·33	— 3

EXTREMES OF RAINFALL IN 1894.

Largest Rainfall, at The Styne, Cumberland.....	166·22 in.
Least Rainfall, at Leicester, Town Hall Square, Liecester	18·56 ,,

ENGLAND.

GREATEST.		LEAST.	
Div.	in.	Div.	in.
X. The Styne	166·22	VII. Leicester (Town Hall Sq.)...	18·56
„ Seathwaite	147·53	„ Thurcaston Rectory	18·96
„ Sprinkling Tarn	141·89	III. Thorney (Wryde House) ...	19·41
„ Mickleden.....	140·50	VII. Melbourne (The Hollow) ...	19·45
„ Styne Head Tarn	132·70	III. Peterborough (Thorpe Hall)	19·61
„ Dungeon Ghyll.....	131·13	VII. Ratcliffe College	19·69

MONMOUTH, WALES AND THE ISLANDS.

GREATEST.		LEAST.	
Div.	in.	Div.	in.
XI. Garthbibio (Bwlch Tomlyd)...	131·05	XI. Prestatyn (Edlestone House)	24·55
„ Rhiwbryfdir=Oakley Quarries	107·51	„ Holywell (Bagillt)	24·71
„ Llanbedr-y-Cennin (Llyndulyn)	100·80	„ Rhyll (Sedgley House)	24·74
„ Treherbert (Tyn-y-waun)...M	100·61	„ St. Asaph (Maes Elwy)	25·53
„ Neath (Glyncorwg)	99·92	„ Rosset (Trevalyn Hall)	25·64
„ Treherbert	95·29	„ St. Asaph (Nantllys)	26·70

SCOTLAND.

GREATEST.		LEAST.	
Div.	in.	Div.	in.
XVIII. Ben Nevis Observatory ...	149·94	XIII. Eyemouth	21·70
„ Glenquoich	108·07	XVII. Peterhead	23·31
„ Loch Shiel (Glenaladale) ...	105·40	XIII. Portobello (Joppa)	23·57
XV. Loch Eil (Conaglen)	102·86	XII. Kelso (Springwood Park) ...	25·01
XVI. Glen Gyle	101·70	XVI. Arbroath (Dishland Hill) ...	25·03
XVIII. Loch Torridon (Bendamph)	95·95	XVII. Forres (Grange Hall)	25·16

IRELAND.

GREATEST.		LEAST.	
Div.	in.	Div.	in.
XX. Mangerton.....	90·50	XXIII. Banbridge (Katesbridge) ...	24·70
XXII. Clifden (Kylemore House)...	89·61	„ Monaghan (Bellanode)	26·34
„ „ („ Castle)...	78·58	„ Malin Head	26·54
XX. Kenmare (Derreen)	68·12	„ Banbridge (Corbet Reservoir)	26·90
„ Dunmanway (Coolkelure) ..	67·51	XXI. Balbriggan (Ardgillan)	27·24
XXII. Crossmolina (Enniscoe)	64·27	„ Meelick Lock	27·79

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 1894,
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 ; T, that the height is estimated or ascertained approximately from the same source ; L, 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.	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1894.	
			ft. in.	feet.	inches.	
MIDDLESEX.						
D Hampton (Southwark W. W.)...	J. W. Restler, Esq., C.E.	5	0 10	...	24·53	158
Sunbury (Hanworth Road)	W. B. Bryan, Esq., C.E.	8	1 0	50 A	28·45	207
Teddington (Gomer House)	R. D. Blackmore, Esq..	5	0 10	26 A	31·08	187
D Staines (Belle Vue)	J. Gundry, Esq.....	5	1 0	51 A	31·85	219
„ (Knowle Green).....	Miss Pellatt	5	5 2	...	30·41	195
D „ (Cherry Orchard)	J. B. Jordan, Esq.....	5	1 0	50 T	29·66	203
Twickenham (Strawberry Hill)	T. Gale, Esq.	5	1 3	37 T	26·77	185
D „ (Manor Road) ...	G. B. Laffan, Esq., C.E.	5	1 9	56 A	27·40	197
D „ (Sewage Works)...	„ „ „	5	1 6	30 A	26·24	176
„ („ „) M	„ „ „	5	...	...	26·88	...
D Isleworth (Warkworth House)..	W. H. Odium, Esq. ...	5	0 7	...	30·77	161
D Chelsea (Pumping Station)	A. R. Binnie, Esq., C.E.	8	1 0	19 A	25·93	165
D „ (St. Luke's Gardens) ...	T. W. E. Higgins, Esq. CE	5	1 0	25 A	26·98	184
D Isle of Dogs	A. R. Binnie, Esq., C.E.	8	1 0	15 A	25·99	167
D Gunnersbury Station	E. Mann, Esq.	5	0 11	35	25·29	169
D Acton (Newburgh Road)	Miss Baker	5	1 0	86 T	26·98	193
Ealing (Public Buildings).....	C. Jones, Esq., C.E. ...	5	9 0	114	25·67	185
„ (Gordon Road)	J. Box, Esq.	5	10 0	85 T	25·61	171
D Westminster (Spring Gardens) (3)	A. R. Binnie, Esq., C.E.	8	6 0	35 A	25·26	135
„ („ „) (1)	„ „ „	8	66 4	95 A	23·01	135
„ („ „) (2)	„ „ „	12	65 11	95 A	24·08	135
D Kensington (Edith Road).....	G. von U. Searle, Esq.	5	0 10	16 T	26·55	198
D „ (Holland House) ...	Mr. C. Dixon	5	4 6	68 A	26·53	172
D „ (Addison Gardens)...	G. H. M. Whish, Esq..	5	1 1	23 T	27·52	191
D „ (Campden Hill, W.)	M. W. Hervey, Esq., C.E.	8	4 10	130 A	28·30	183
D London (Savile Row, W.)	G. S. Johnson, Esq. ...	5	...	...	26·04	179
D „ (Westbourne Grove) ...	A. P. Baker, Esq.	5	0 9	64 T	27·96	183
D „ (Strand)	J. H. Steward, Esq. ...	5	45 0	80	29·32	180
D „ (Guildhall), E.C.	D. J. Ross, Esq., C.E..	8	2 6	49 T	24·83	186

DIVISION I.—MIDDLESEX.—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1894	
			ft. in.	feet.	inches.	
MIDDLESEX—(con.)						
London (Guildhall), E.C.	D. J. Ross, Esq., C.E..	8	51 0	98 T	23·81	186
„ (Mile End)	J. Metson, Esq. ....	...	...	...	28·95	139
„ (Old Street), E.C.	The Royal Meteor. Soc.	5	1 0	70 T	27·52	195
Perivale (Sewage Farm)	C. Jones, Esq., C.E. ...	5	12 0	56	25·43	182
D London (Gloucester Place W.) ...	W. B. Heberden, Esq..	5	4 0	...	26·59	187
„ (Regent's Pk.R.Bot.Soc.)	W. Sowerby, Esq.	8	1 0	126 T	28·94	182
D „ (Hamilton Terrace, N.W.)	Miss Cobb	5	0 11	...	29·75	215
„ (Portsmouth Road, W.) ..	Rev. G. B. R. Bousfield	5	5 0	80	26·38	166
D „ (Barrow Hill, N.W.) ...	M.W. Hervey, Esq., C.E.	5	3 4	190 T	26·36	183
D „ (Old Ford, E.)	A. R. Binnie, Esq., C.E.	8	1 0	35 T	26·80	171
D „ (West Hampstead, N.W.)	H. T. Wharton, Esq. ...	5	1 0	135	29·81	203
D „ (Canonbury) N.	J. Spiller, Esq.	5	1 3	117 T	27·43	190
D† „ (Camden Square), N.W.	G. J. Symons, Esq. F.R.S	8	0 8	111 T	27·94	185
† „ („ „)	„ „ „ „ „	5	1 0	111 T	28·05	...
D Hampstead (Roslyn House) N.W.	C. H. B. Woodd, Esq..	8	1 6	330 T	29·98	175
D „ (Kidderpore Reserv.)	M.W. Hervey, Esq., C.E.	8	1 6	323 T	30·00	190
D „ (Branch Hill Lodge)	B. Woodd Smith, Esq.	8	0 10	380 T	29·14	164
† „ (Squire's Mount) ...	Rogers Field, Esq. C.E.	5	1 0	388 T	26·62	181
„ (The Pryors)	„ „ „ „ „	5	1 0	327 T	27·02	189
Lea Bridge	W. B. Bryan, Esq., C.E.	36	0 3	23 T	29·64	175
D Stoke Newington Reservoirs ...	J. Francis, Esq., C.E. ...	5	1 2	102 T	27·75	187
Stamford Hill (Castlewood Hill)	The Meteor. Council. ...	...	...	...	29·28	206
D Highgate (Northwood Road)	Mrs. Sowerby Wallis ...	5	1 0	265 T	28·83	184
D „ (North Hill)	E. J. Lovegrove, Esq., CE	5	4 6	302	28·84	186
D† Child's Hill (Helenslea), N.W. ...	A. J. Woodhouse, Esq.	5	1 6	245 T	28·90	179
Harrow	T. Charles, Esq.	5	1 0	215	29·48	189
D Hornsey (Tottenham Lane)	E. J. Lovegrove, Esq., CE	8	4 6	157	29·14	195
D „ (High Street)	„ „ „ „ „	6	3 2	97	27·35	175
D „ (Burghley Road)	„ „ „ „ „	5	4 0	74	29·38	171
D Muswell Hill	Miss Abethell	5	0 10	310 T	28·28	184
D „ (Irish Corner-Sew. Farm)	E. J. Lovegrove, Esq., CE	8	4 8	216 T	29·90	197
East Finchley (Elmhurst)	late B C Wainwright Esq	8	0 7	300 T	27·76	181
D Hendon (Hillwood)	W. H. Kesteven, Esq..	5	1 0	191 T	29·12	172
D† Finchley (Etchingham Park) ...	J. W. Scott, Esq.	5	1 2	295 T	28·36	198
D† „ („ „) ...	„ „ „ „ „	8	1 3	295 T	28·44	198
D Pinner Hill	A. Helsham-Jones, Esq.	5	3 6	410 T	29·84	183
D Harrow Weald (Hill House) ...	A. Crossman, Esq.	5	0 8	...	30·62	221
Stanmore Observatory	S. T. Klein, Esq.	5	1 0	268	29·30	199
D Friern Barnet (Sewage Works) ..	Baldwin Latham Esq CE	5	1 0	156 T	25·64	195
D Whetstone	„ „ „ „ „	5	1 0	315 T	28·23	183
D Enfield (Old Park)	A. L. Ford, Esq.	5	1 9	156 T	28·50	179
D „ (Southbury Road)	J. Francis, Esq., C.E..	5	0 9	106 T	25·54	179

DIVISION II.—SOUTH EASTERN COUNTIES.

SURREY.

D Haslemere (Lower Street)	J. W. Penfold, Esq. ...	8	4 0	481 T	41·10	198
D „ (Hazelhurst)	T. P. Newman, Esq. ...	5	1 0	550 T	43·78	208
„ (Grayswood Hill) ...	B. E. C. Chambers, Esq.	5	1 0	580 T	41·56	...

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	1894	
			ft. in.	feet.	inches.	
SURREY—(con.)						
D Chiddingfold	A. F. Parbury, Esq....	5	1 0	174 T	39·38	156
Dunsfold Common	Mr. W. Underwood ...	5	1 6	66	30·23	...
Haslemere (Weycombe)	G. B. Buckton, Esq. FRS.	5	1 0	562 T	37·55	...
D Hambledon (Matteryes)	J. Borrowman, Esq. ...	5	5 8	300	35·00	190
D Witley (Fernside)	Mrs. Foster.....	5	1 0	350 T	35·60	195
Hascombe Rectory.....	Rev. Canon Musgrave..	8	1 0	450 T	35·10	...
„ (Hall Place).....	E. S. Rowcliffe, Esq....	8	2 6	273 T	34·84	...
D Cranleigh Common	Admiral Maclear	5	1 0	182 T	39·20	210
D „ (County School)	„ „ „	5	1 0	232 T	35·45	189
Ewhurst (Malquoits).....	W. Webb, Esq....	...	...	...	36·83	177
D „ (Coneyhurst)	Miss Ewart.....	8	1 6	561 T	39·41	214
D „ (Heathside)	J. Sparkes, Esq.	5	1 6	600 T	38·65	153
D Capel (The Cottage)	J. Lee Jardine, Esq....	5	1 0	270	37·12	197
D Wonersh (Shamley Green) ...	Mr. A. Nash.....	5	1 0	400	35·77	187
D Godalming (Charterhouse)	O. H. Latter, Esq.....	5	1 0	200 T	33·31	204
Abinger Rectory	Miss Brodie Hall	5	1 0	381	41·51	218
D „ Hall	Rt. Hon. Lord Farrer..	8	2 0	320 T	38·72	187
D Holmwood	A. Sconce, Esq.	5	1 2	320 T	39·43	148
D Farnham (The Bourne Vicarage)	Rev. T. W. Sidebotham	5	1 0	308 T	34·98	210
„ (Hampton Lodge).....	Mr. J. Foster	5	1 0	...	34·73	183
D „ (Great Down, Seale)...	Mrs. Kitchin	8	1 0	450	31·40	175
Dorking (Fir Tor)	F. Taylor, Esq.	5	1 0	260	37·99	...
„ (West Street)	Mrs. W. A. Marsh.....	10	26 0	224 T	31·44	169
D „ (The Denbies)	Mr. J. Beesley	5	0 9	610 T	37·38	184
Brockham (North Lodge)	H. R. Kempe, Esq.	8	0 9	...	36·09	...
Guildford (Piccards Rough).....	C. M. Powell, Esq.	5	2 6	325 T	32·35	171
D „ (The Beeches, Guildown)	late Miss Hadden ...	5	0 11	220 T	33·26	221
D „ (Listoke)	Genl. Battersby.....	5	1 0	...	31·43	180
D „ (Wern, Stoke).....	Miss Mathew	5	4 0	170	30·07	169
D Reigate (Woodhatch Lodge) ...	T. B. Haywood, Esq....	5	1 0	270 T	34·57	210
D „ (Ringley Mead)	R. L. Hesketh, Esq. ...	5	1 0	345 T	35·38	211
D „ (Sewage Farm)	F. D. Clark, Esq., C.E.	8	1 0	196 T	35·55	211
D† Red Hill (Oxford Road)	W. H. Tyndall, Esq....	8	1 0	300 T	35·47	193
D Reigate (Dovers Lodge)	R. W. Clutton, Esq....	5	0 7	192	34·38	188
D „ (Castle Grounds).....	F. D. Clark, Esq., C.E.	5	1 6	350 T	36·31	200
D „ (Doods)	G. E. Pym, Esq.....	5	1 3	350 T	37·01	203
D „ (Nutwood)	H. E. Gurney, Esq. ...	5	0 9	440 T	34·51	203
D Nutfield Priory	Mrs. Fielden	8	1 2	468 T	34·09	202
D „ (Holmesdale)	C. T. Maw, Esq.	8	2 0	500 T	33·39	200
D Dorking (High Ashurst)	The Hon. H. D. Ryder	5	10 0	550	35·91	208
D Reigate Hill (Margery).....	W. F. Taylor, Esq. ...	5	2 0	756	35·78	223
D Upper Gatton	F. Druce, Esq.	5	1 0	601	37·70	234
D Bookham Lodge.....	Hon. Rev. H. Waldegrave	8	0 7	140	28·10	179
Leatherhead (Downside)	A. Tate, Esq.....	5	1 0	609 T	30·63	...
D „ (Newlands)	E. B. Falwasser, Esq....	5	1 0	210	32·78	197
D Caterham Asylum	Dr. Elliot	5	1 0	610 T	36·98	189
D „ Valley (Birchwood Ho.)	Mrs. Rutley	5	1 0	471 T	30·79	199
D Camberley (Heathcote).....	late Gen. Stotherd, C.B.	5	1 0	292 T	32·59	167

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	1894	
			ft. in.	feet.	inches.	
SURREY—(con.)						
D Coulsdon Grange	F. C. Bayard, Esq.	5	1 4	525	33·36	181
D Kenley (Ingleside).....	H. Smith, Esq.	8	1 0	375 T	35·83	217
Warlingham Vicarage	F. C. Bayard, Esq.	5	1 0	614	37·97	202
D Ashtead (Caen Leys).....	J. D. Robertson, Esq. ...	8	3 0	185 T	30·26	186
„ (D'Abernon Chase) ...	Sir W. Vincent, Bart. ..	5	1 0	280 T	31·25	215
D Woking (Lindisaye)	H. Horncastle, Esq.	5	4 2	130 T	28·46	187
D Leatherhead (Oxshott)	W. H. Dines, Esq.	5	1 0	206 T	29·23	191
D Banstead (The Larches)	Rev. C. J. Taylor	8	1 0	488 T	33·88	180
D Epsom College	F. C. Bayard, Esq.	8	1 0	290	32·52	179
D Purley (Tudor Cot.).....	„ „ „	5	1 0	216 T	34·87	194
D Chertsey (Ottershaw).....	R. H. Otter, Esq.	5	1 0	200 T	29·70	221
D Windlesham (Erlwood).....	E. S. Currey, Esq.	5	1 0	216 T	31·44	195
Weybridge Heath (Netherfield) ..	late C. H. Parkes, Esq. ...	5	1 0	160	28·53	183
„ (Field Place)	G. A. Yool, Esq.	5	1 0	119 T	28·94	211
D Esher (Sewage Works).....	F. C. Bayard, Esq.	5	1 0	42 T	25·80	215
D Addington (Hares Bank).....	„ „ „	8	1 0	331 T	33·24	200
D „ (Park Farm)	„ „ „	5	1 0	268 T	33·83	205
D „ Hills.....	„ „ „	8	0 9	473 T	32·23	203
D Wallington.....	„ „ „	5	4 1	140 T	31·18	185
† Sutton (Mulgrave Road)	W. Goode, Esq.	5	5 10	230 T	31·34	184
Beddington (Riverside).....	The Royal Meteor. Soc. ...	5	1 0	120	31·15	177
Croydon (Heathfield Road)	Registrar Gen. Returns ...	...	...	185	31·79	174
D „ (Duppas House).....	Baldwin Latham Esq.	5	1 0	158	31·41	179
D „ (Waddon House)	P. Crowley, Esq.	5	1 0	156 T	30·14	196
D „ (Waddon New Road) ..	G. Corden, Esq.	5	1 0	146	29·27	196
D „ (The Whitgift)	F. C. Bayard, Esq.	5	1 0	191 T	31·69	192
D „ (Brimstone Sew. Works) ..	„ „ „	5	1 0	130 T	31·17	175
*† „ (Addiscombe)	E. Mawley, Esq.	8	0 9	202 T	30·73	188
D „ (Chatfield Road)	A. Malden, Esq.	5	1 6	166 T	30·11	167
D „ (Park Hill Rise)	F. C. Bayard, Esq.	5	1 0	250	31·01	185
D New Malden (Sewage Works) ..	„ „ „	5	1 0	45	25·39	167
D Thornton Heath (Thornton Rd.) ..	A. Wright, Esq.	8	0 9	135	29·16	167
Chertsey (Flutter Hill)	F. A. Baker, Esq.	5	1 0	200	28·75	...
„ (Burley Orchard)	W. A. Herring, Esq.	5	1 6	30	28·26	...
D Virginia Water (Portnall Park) ..	Mrs. Cecil De Salis ...	5	0 3	200 T	30·62	174
Surbiton (Seething Wells) ...	R. Hack, Esq., C.E. ...	10	0 6	25	27·67	148
D East Molesey (Palace Road).....	Lady Jenkyns	8	6 0	37	27·42	194
D Kingston Sewage Works	F. C. Bayard, Esq.	5	1 0	25	32·08	180
D Wimbledon (Mount Ararat).....	T. Devas, Esq.	12	3 0	157 T	29·54	186
D „ (Raynes Park)	F. C. Bayard, Esq.	5	1 0	47	32·47	228
D „ (Sewage Works).....	„ „ „	5	1 0	58 T	29·49	184
„ Common (Parkside)	R. Muir, Esq.	5	2 9	170 T	29·07	147
D „ „ (Richmond Ho.)	E. Rawlings, Esq.	5	1 7	175 T	29·76	188
„ Park (Woodhouse)	A. E. Bateman, Esq.	5	0 11	150	31·55	...
West Norwood (Thornlaw Road) ..	W. Marriott, Esq.	8	1 0	221	28·94	193
D Dulwich Wood Park.....	T. P. Caldicott, Esq.	5	1 2	...	27·59	163
D Wandsworth Com. (Patten Rd.) ..	F. C. Bayard, Esq.	5	1 0	100	28·25	225
Egham (Cooper's Hill)	The Meteor. Council ...	8	1 1	280	31·65	217

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	1894	
			ft. in.	feet.	inches.	
SURREY—(con.)						
D Richmond (Ormond Lodge)	J. T. Billett, Esq.	5	0 9	51	29·30	200
D Kew Observatory	The Kew Committee ...	11	1 9	19 A	28·02	183
Brixton (Acre Lane)	The Meteor. Council ...	8	1 0	77 T	28·69	184
D Nunhead (Southwark W. W.)...	J. W. Restler, Esq., C.E.	5	4 0	176	23·05	157
D Battersea Creek	A. R. Binnie, Esq., C.E.	8	27 2	41 A	25·30	164
D „ (Southwark W. W.)...	J. W. Restler, Esq., C.E.	5	3 6	21	23·11	165
D Vauxhall Cross (Wandsworth Rd.)	A. R. Binnie, Esq., C.E.	8	30 9	48 A	24·63	164
KENT.						
Dungeness	The Meteor. Council ...	8	...	...	24·98	180
Wittersham	J. Body, Esq.	5	1 6	156	32·39	...
D Hawkhurst (Sandhurst Rectory)	Rev. G. Ridout	5	1 3	208 A	35·90	189
Appledore (Snargate)	J. Ellis Mace, Esq. ...	5	1 0	9	26·69	...
Dymchurch Rectory	Rev. C. E. Plater	8	1 6	5	29·94	...
Rolvenden (Hole Park)	A. Curteis Neve, Esq. ...	5	1 0	220	34·31	174
Tenterden (Summerhill)	Rev. A. Wilkin	12	1 0	149 A	29·81	197
Benenden Vicarage	Rev. Canon Joy	8	1 6	330	32·63	...
„ (East End)	J. Ellis Mace, Esq.	8	1 2	193 A	34·01	...
D Tenterden	„ „ „	8	1 5	190 A	32·48	212
„ „ „	„ „ „	8	1 5	190 A	32·07	...
„ (Little Westwell) ...	W. Hilder, Esq.	5	1 0	140 T	32·13	...
„ (Ashbourne Mills) ...	A. Pinyon, Esq.	5	1 0	45	32·81	...
Woodchurch	Rev. A. Welch	5	5 0	107	31·04	167
D Hythe	Messrs. Mackeson & Co.	8	0 6	12 T	35·14	204
† „ (Hillhurst Farm)	G. F. Deedes, Esq. ...	5	2 0	280 T	37·05	220
Sandgate	The Meteor. Council ...	5	1 0	60	32·51	175
Cranbrook (Swattenden)	Miss Appach	8	1 2	350 T	34·97	187
† „ (Hartley)	G. Pile, Esq.	5	4 0	405 T	38·19	205
Folkestone	The Royal Meteor. Soc.	5	1 0	110	30·91	184
„ (Capel Lodge)	E. Norton, Esq., M.D..	5	1 0	480 T	38·09	214
D Hythe (Frogholt)	G. Lipscomb, Esq.	5	1 0	186 T	37·74	192
† „ (Paddlesworth)	Mr. R. Dixon	8	1 0	608 A	46·83	...
D Dover (Castle Knowle W. W.) ..	W. Thomas, Esq., C.E.	8	2 10	204 A	40·25	231
Kearsney Abbey	The Meteor. Council ...	5	1 0	100 ?	40·62	224
D Acrise (School House)	G. C. Woollett, Esq. ...	8	1 0	504 A	42·74	175
D Tunbridge Wells (Camden Park)	J. Weston, Esq.	5	0 9	424 A	37·61	217
„ „ (Bredbury) ...	F. G. Smart, Esq.	5	1 0	416 T	37·58	203
D Cranbrook (Camden Lodge)	Mr. A. Habbitts	5	1 0	276 T	36·15	188
D Ashford (Bethersden)	W. H. Mold, Esq.	5	4 0	111 A	32·80	192
D „ (Beavor Green)	T. Nickalls, Esq. ...	5	1 0	155 T	38·82	215
D Tunbridge Wells (Etherton Hill)	E. W. Winton, Esq. ...	5	1 5	276 A	32·07	189
D „ „ (Pembury) ..	T. E. W. Mellor, Esq. C.E.	8	1 8	181 A	32·17	189
Tunbridge (Penshurst Place) ..	The Hon. H. Sidney ...	5	0 11	115 T	33·02	...
D „ „ (Park)	Mr. J. M. Sturgess ...	5	0 4	265 T	34·63	182
D „ (St. Mary's)	W. C. Punnett, Esq. ...	5	1 6	96 A	32·45	175
„ „ „ } Snowdon	„ „ „	5	1 0	96 A	32·00	175
„ „ „ } M	„ „ „	5	4 0	98 A	32·16	...
D Ashford (Westwell)	Rev. H. H. D'Ombra	5	1 0	272	35·35	205

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	1894	
			ft. in.	feet.	inches.	
KENT—(con.)						
Edenbridge (Falconhurst)	J. G. Talbot, Esq., M.P.	5	1 0	300	38·00	199
D Lower Walmer (Meadow Side)...	Mr. H. R. L. Botting..	5	1 4	20	28·50	164
D Harrietsham (Stede Hill)	Sir C. Domville, Bt. ...	...	...	...	37·50	188
D† Maidstone (Hunton Court)	Mr. E. Hall	8	0 6	80 †	28·96	176
D „ (Linton Park)	Mr. C. Pratt	5	1 0	...	30·83	183
D „ (Wateringbury)	Rev. C. H. Fielding ...	5	0 8	...	30·31	218
D „ (Lower Tovil)	Lawrence Green, Esq..	5	1 0	30 †	29·71	220
D „ (The Mote)	Mr. C. R. Fielder	10	3 5	175	27·44	182
D „ (Mount House)	C. A. Case, Esq.....	5	1 0	160 †	32·80	185
D „ (Hospital).....	M. A. Adams, Esq. ...	5	0 8	200	30·76	140
D West Malling (St. Leonards) ...	G. Phillips, Esq.	5	1 0	...	33·29	207
D „ „ (Hardres)	A. F. Bowker, Esq., C.E.	5	1 2	165 †	32·17	226
D Debtling	R. Cooke, Esq.	5	1 2	330 †	32·63	206
Aylesford (Preston Hall)	Mr. W. Jarman.....	5	1 6	80	30·36	...
Sheldwich	Rev. B. S. Malden.....	5	1 0	250 †	37·31	207
D† Selling (Harefield).....	E. Neame, Esq.	5	2 6	217 †	35·95	198
D Westerham (The Fishponds) ...	F. C. Bayard, Esq.....	5	1 0	380	33·60	185
D Canterbury (Burgate Street) ...	B. Rigden, Esq.....	5	9 6	58 †	31·45	170
D „ (Sewage Works)	F. Baker, Esq., C.E....	5	0 7	18 †	31·85	236
D† Seven Oaks (River Hill)	J. T. Rogers, Esq.....	8	4 6	535 †	31·47	...
D „ (The Rectory)	Rev. T. S. Curteis.....	5	...	500	33·80	...
D† „ (Riverhead Vic.) ...	Rev. J. M. B. Murdoch	5	0 6	300 †	31·37	171
D „ (Chevening Gardens)	Mr. C. Sutton.....	5	1 6	360	37·16	...
D „ (Kemsing)	T. Stonham, Esq.	5	6 0	300	31·37	199
D Sittingbourne (Sharsted Court).	A. J. Rayfield, Esq. ...	5	1 0	276 †	32·69	156
Ospringe (Lorenden)	W. C. Stunt, Esq. ...	5	1 4	180 ?	32·76	179
Knockholt (Kent Waterworks)..	F. C. Bayard Esq.....	5	1 0	785	34·07	...
D Keston (Bradfield)	A. Hill, Esq.	5	1 0	350 †	29·77	208
D „ Tower.....	G. Buchanan, Esq., C.E.	8	0 11	351 †	32·86	190
D Ash (Pettings House)..... <i>new g.</i>	C. J. G. Hulkes, Esq..	5	1 0	540 †	31·08	209
Herne Bay (Eddington)	Miss Hawksworth	5	1 0	4?	22·99	...
D „ „ (Water Works).....	G. F. Bagley, Esq. ...	5	...	90	26·39	...
D Birchington (Thor)	Mr. W. H. Euden	5	1 0	40 †	26·21	197
D Reculver (Brook)	A. Collard, Esq.....	5	6 3	40	25·18	173
D Hayes (Layham's Farm)	W. Ashcroft, Esq.....	5	1 0	500	33·24	189
D „ Common (The Warren)...	Miss Akers	5	1 0	296	31·17	195
D West Wickham (Wickham Court)	F. C. Bayard, Esq. ...	5	1 2	300	35·85	168
D Orpington (Kent Waterworks)...	„ „ „	5	1 0	220	30·01	185
D Farningham Hill	„ „ „	5	3 0	300	28·50	204
Chatham	The Meteor. Council ...	8	1 3	137	27·08	185
D Rochester (Knights Place)	J. Pye, Esq.	5	2 3	320	32·42	219
D St. Peter's	Rev. H. C. V. Snowden	5	4 0	144	24·67	178
North Foreland	The Meteor. Council ...	8	1 0	115	24·34	174
D Margate (Apsley House)	J. Stokes, Esq.	5	1 5	84 †	24·93	186
D „ „ „ <i>Snowdon</i>	„ „ „	5	1 0	84 †	25·03	186
D Sheppey (Leysdown)	Rev. A. Farbrother ...	5	1 2	47	23·69	176
D Frindsbury (Manor Farm)	F. Baker, Esq.	5	1 0	100	27·99	165
D Bromley Common (Elmfield) ...	F. C. Bayard, Esq. ...	5	0 9	240	29·60	220

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which ·01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level		
			ft. in.	feet.	inches.	
KENT—(con.)						
Bickley (Highfield)	J. Batten, Esq.	5	1 2	295	30·18	183
Chislehurst (Abbey Lodge)	Col. Silver	5	1 5	...	28·24	161
„ (Southlaund)	T. O. Hutton, Esq. ...	5	1 0	...	28·61	...
D Wilmington (Kent Waterworks)	F. C. Bayard, Esq. ...	5	1 0	25	23·13	160
D Sidecup (Hatherley Road)	Dr. L. Burrell	5	1 2	350	32·10	196
D Rochester (Abbot's Court, Hoo)..	Warwick Stunt, Esq....	5	1 0	10	22·03	172
Sheerness (Water Works)	C. A. Copland, Esq., CE	8	1 0	9 A	24·13	178
D Bromley (Ivy Dene)	J. B. Snell, Esq.	5	1 0	245 T	30·68	233
„ (Widmore Road)	S. R. Scott, Esq.	5	1 0	230	29·59	164
D Beckenham (Cedars Road)	F. C. Bayard, Esq. ...	5	1 0	105	28·62	191
Sydenham (Gorrevod)	Mrs. Stephenson	5	1 0	...	27·16	...
D Forest Hill (Newfield House) ..	F. C. Bayard, Esq. ...	5	1 0	220	27·67	176
D „ (The Nurseries)	Messrs. J. Carter & Co.	5	0 5	76	28·56	181
D „ (Barr Beacon)	J. W. Restler, Esq., C.E.	5	1 0	344 A	26·94	195
D Catford Hill (Avalon)	F. M. Lark, Esq.	5	0 9	...	27·73	184
D Gravesend (Park Place)	Mrs. Walker	5	1 0	24 ?	24·99	146
D Higham (Oakleigh)	C. Lake, Esq.	8	1 2	25	22·45	133
D Rochester (Cooling Castle)	R. C. Wood, Esq.	5	8 0	10 T	25·28	192
D „ (Hoo St. Mary)	H. Pye, Junr., Esq. ...	5	5 6	146 T	25·48	218
D Eltham (Cliefden)	Miss Yeatman	5	0 10	160 T	28·29	173
D „ (High Street)	F. C. Bayard, Esq. ...	5	1 0	245	28·13	189
Blackheath Park (Elmsdale) ..	C. Lethbridge, Esq. ...	5	0 11	90	28·41	211
Greenwich (Royal Observatory)..	W. H. Christie, Esq. FRS	8	0 5	155 T	26·89	192
D Deptford (Kent Waterworks) ..	F. C. Bayard, Esq. ...	5	1 0	20	24·57	167
D „ (Pumping Station)	A. R. Binnie, Esq., C.E.	10	1 6	15	30·33	170
D Woolwich (Powis Street)	Mr. J. G. Waller	5	30 0	65	26·27	178
Erith (Crossness)	No. 1 A. R. Binnie, Esq., C.E.	14	0 6	16 A	23·43	172
„ („)	No. 3 „ „ „	14	0 6	16 A	22·31	172
WEST SUSSEX.						
Bognor (Lidsey Lodge)	H. Neale, Esq.	8	1 2	...	34·98	168
Littlehampton (Surrey House)...	G. Neame, Esq.	5	1 8	20 T	36·27	...
Worthing	The Royal Meteor. Soc.	5	1 0	25	33·43	171
D Arundel (Yapton)	W. A. Hounsom, Esq..	5	1 0	24 A	35·28	178
„ („ Drove Farm). ..	„ „ „	5	1 0	14 T	34·24	149
Angmering	Rev. J. B. Orme	5	1 3	...	33·72	...
D Chichester (Sewage Works)	Baldwin Latham Esq CE	5	1 0	10	35·37	161
„ (Westgate Meadow)...	Dr. Tyacke	8	0 6	40	38·56	152
„ (North Pallant)	Mr. G. Broomfield	5	1 6	...	40·72	161
D Arundel (Clapham Rectory) ..	Rev. A. H. S. Barwell	5	1 0	150 T	37·66	198
„ (Patching)	J. Drewitt, Esq.	5	1 0	180	38·24	182
„ („)	Mrs. Joad	5	0 10	130 T	37·86	196
D „ (The Parade)	the late R. Holmes, Esq.	8	3 1	75	37·73	167
Steyning (Annington)	Mr. H. J. Hide	5	1 0	90 T	41·80	204
D „ (Selehurst)	W. E. Hubbard, Esq..	...	3 0	...	36·87	170
D† „	Col. Ingram	5	1 0	80 T	42·61	138
Chichester (Eartham House) ..	Sir P. Milbanke, Bt....	3	4 6	240 T	33·44	...
„ (Selhurst Park) ..	C. O. Newman, Esq....	5	0 10	300 T	40·58	162

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	1894	
			ft. in.	feet.	inches.	
WEST SUSSEX—(con.)						
D Chichester (Forest Side Vic.) ...	Mrs. J. C. Parson	5	1 0	341	39·72	175
D „ (Watergate)	R. Christy, Esq.	5	3 6	220 T	41·32	197
D „ (West Dean)	Mr. W. H. Smith .....	...	1 6	190	40·96	166
† „ (Chilgrove)	J. W. Woods, Esq. ...	5	0 6	284 T	43·27	...
D Compton [Petersfield]	Rev. H. M. Langdale...	5	1 0	255 T	42·78	196
† Petworth Rectory	Rev. C. Holland	5	4 0	180 T	40·71	173
Cowfold (The Laurels)	Mr. S. Ford	6	1 6	273	38·36	...
D Midhurst (St. Ann's)	Genl. Paxton	8	1 8	120	37·33	178
„ (Cowdery Park)	Rt. Hon. Lord Egmont.	5	1 0	150	40·69	199
D „ (Borden Wood)	T. J. Hare, Esq.	5	1 2	280 T	37·62	196
„ (Lynch Farm)	G. Eames, Esq.	5	0 6	160 T	43·46	...
„ (Hollycombe)	J. C. Hawkshaw, Esq..	8	6 6	...	42·16	133
D Horsham (Bourne Hill)	F. W. Pigott, Esq.	5	1 0	250 T	38·18	180
„ (Brighton Road)	J. H. Stephens, Esq. ...	5	4 6	...	36·68	...
„ (Manor House)	H. Padwick, Esq.	8	0 10	140 T	42·18	189
D „ (Wimblehurst)	Miss F. E. Allcard ...	5	1 0	220 T	37·27	211
EAST SUSSEX.						
Beachy Head	Miss Brodie Hall	5	1 0	515 T	31·31	...
D Eastbourne (East Dean)	E. W. Adamson, Esq..	5	1 0	180	34·68	162
D „ (Wilmington Square)	R. Sheward, Esq.	8	0 6	39	38·54	189
D† „ (Osborne House)	Miss Brodie Hall	5	1 0	12 T	38·17	183
D† „ (Cemetery)	„ „ „	5	4 0	160 T	36·16	161
† Brighton (Kemp Town)	Mr. Wyatt	5	1 0	82 T	29·79	142
D† „ (Old Steine)	A. Newsholme, Esq., MD	5	1 0	32 T	31·94	189
D „ (W. W. Goldstone Botm.)	J. Johnston, Esq., C.E.	5	2 0	140 T	33·65	161
D „ (W. W., Lewes Road)	„ „ „	8	3 6	88	35·05	159
D „ („ Patcham)	„ „ „	5	1 6	207	36·73	182
St. Leonards (London Road) ...	The Meteor. Council ...	5	1 0	166 T	35·80	196
D „ „ (The Grove)	W. B. Young, Esq. ...	5	1 1	110 T	34·71	178
D Hailsham	Rev. F. Clyde Harvey..	5	1 0	105	37·19	151
D† Falmer	R. R. Verrall, Esq. ...	5	3 0	312 T	41·38	175
D Lewes (Bedford Lodge)	Mrs. Kemp	5	1 0	85 T	30·49?	184
D „ (Saxonbury)	A. Hillman, Esq.	5	1 0	75 T	40·27	178
D „ (Southmalling)	Miss M. H. Rickman...	5	1 0	40 T	27·71?	171
D Hastings (Newgate Res.)	P. H. Palmer, Esq., CE	8	0 10	240	35·06	179
† „ (High Beech Hollington)	Col. Lewis	5	1 0	320 T	32·69	185
„ (Guestling Rectory) ...	Rev. E. N. Bloomfield.	5	...	...	38·45	198
Clayton Rectory	Rev. T. H. R. Shand...	5	1 1	201	44·09	...
Conyborough	Rt Hon Lrd Monk Bretton	...	...	...	40·98	...
D Ditchling	F. H. Phillips, Esq. ...	8	1 0	230 T	39·92	202
D Hurstpierpoint (Danny Park) ...	Mr. J. Bunney	8	1 3	180	42·26	143
„ (Hampton Lodge)	I. F. H. C. Gregg, Esq.	5	1 0	174 T	38·10	...
D Winchelsea (The Friars)	Miss Stileman	5	1 2	115 T	30·84	166
D Battle (Whatlington)	Miss H. Gripper	5	1 3	70	34·29	143
Playden (East Guldeford Lane).	G. Pile, Esq.	5	1 0	...	33·34	...
Uckfield House	C. L. Prince, Esq.	8	0 10	200 B	33·37	...
D Cross in Hand (Montpellier)	A. Brown, Esq.	5	1 0	475	38·92	196

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	1894	
			ft. in.	feet.	inches.	
EAST SUSSEX—(con.)						
▷ Wivelsfield (Abbots Leigh)	Mr. R. Inglis	5	1 0	190 ↑	35·45	197
▷ Haywards Heath	C.E. Saunders, Esq. MD	5	1 1	281	35·54	142
Buxted (Strawberry Hall)	C. Rintoul, Esq.	5	1 0	220	33·82	...
▷† Maresfield (Forest Lodge)	Capt. W. Noble	8	1 2	247 ↗	36·93	207
Cuckfield (Workhouse)	The Meteor. Council ...	...	1 0	389	33·24	173
▷ Lindfield (Wood Knoll)	L. Weedon, Esq.	5	1 0	188 ↗	37·38	185
▷† Mayfield Vicarage	Rev. H. T. M. Kirby ...	8	0 8	425 ↑	38·59	180
▷ Nutley Vicarage	Rev. H. J. Peckham ...	5	1 0	386 ↑	37·85	212
▷† Crowborough (The Observatory).	C. L. Prince, Esq.	8	0 8	770 ↗	42·07	190
▷ Balcombe Place	Mr. Warren	8	1 3	289 ↑	38·46	202
▷ „ (Highley Manor)	H. M. Baker, Esq.	8	1 6	422 ↗	39·89	156
▷ Ticehurst	Mr. Jordan	5	4 9	423 ↗	35·78	174
▷ Wadhurst (Lower Cousley Wood)	F. Wilkin, Esq.	5	1 0	416 ↗	35·30	201
Frant (Eridge Castle)	Mr. A. Wilson	5	1 0	400	40·25	164
▷ Withyham (Leyswood)	Mr. T. C. Moorhouse ...	8	1 4	420	40·18	187
Worth (South Hill)	P. E. Ravenshaw, Esq.	5	1 6	558 ↑	41·29	218
„ Rectory	(East gauge) Rev. G. W. Banks ...	5	1 10	300 ↗	40·99	206
▷ East Grinstead Station	Mr. G. Mitchell	8	2 2	410	37·39	196
„ „ (Halsford Park).	W. V. K. Stenning, Esq.	5	1 6	365 ↗	37·02	177
HAMPSHIRE.						
ISLE OF WIGHT.						
▷ Niton (St. Catherine's House) ...	H. J. Dore, Esq.	5	1 0	275	36·84	180
▷ Ventnor	J. S. Ineson, Esq.	10	2 0	70	39·57	188
„ (Consumption Hospital)	The Royal Meteor. Soc.	5	1 0	75	37·88	188
Bonchurch (Lilies)	Mr. W. C. Moseley ...	5	1 0	300	38·22	194
▷ Sandown (Lake Hill)	W. E. Green, Esq.	5	1 0	105	42·37	155
Brading Vicarage	Rev. E. Summers	5	1 6	50 ?	38·58	...
▷ Newport (Castle Hold)	A. Le Mesurier, Esq. ...	5	1 0	...	39·74	183
▷ Ryde (Thornbrough)	Col. Clarke	5	1 0	143 ↑	40·79	202
„ (St. John's Park)	Captain Dobie	5	1 1	146	40·86	...
▷ „ (Town Hall)	F. Newman, Esq.	8	1 0	83 ↗	38·64	180
Wootton (Fernhill)	F. Brodie, Esq.	8	0 6	118 ↑	37·15	...
▷† Osborne (Newbarn Cottage)	R. Scott, Esq.	8	0 8	172 ↗	37·34	190
▷ West Cowes (Holmwood)	C. T. Maw, Esq.	8	0 8	40 ↑	34·55	181
Hurst Castle	The Meteor. Council ...	8	0 11	9	32·42	164
▷ Bournemouth (Wellington House)	Messrs. Primavesi Bros	5	1 0	100 ↑	38·16	205
„ (Lansdowne Road)	Miss Sworn	5	1 2	123 ↑	38·11	184
▷ Christchurch (Mudford)	F. H. D. Eyre, Esq. ...	5	0 3	15 ↓	34·72	190
„ School	C. I. Evans, Esq.	5	4 9	15	37·74	219
▷ Lymington (Pennington)	Miss E. S. Lomer	5	0 9	96 ↑	34·85	180
▷ Christchurch (Heron Court)	Earl of Malmesbury ...	8	0 6	...	40·10	190
▷ Portsmouth (Fort Cumberland) ..	P. Murch, Esq., C.E. ...	8	0 9	16 ↗	29·39	146
▷ „ (Milton)	Dr. Mumby	5	1 0	18	35·98	185
▷ North Hayling	F. Padwick, Esq.	5	1 0	10	33·91	170
▷ Porchester (Noel Cottage)	Miss Montgomery Frost	5	1 0	...	30·86	182
▷ Havant (Farlington)	H. R. Smith, Esq., C.E.	5	1 0	77 ↑	30·71	176

STATIONS.		AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell.
			Diameter	Height Above Ground	Height Above Sea Level	1894	
				ft. in.	feet.	inches.	
HAMPSHIRE—(con.)							
Havant (Farlington).....	M	H.R. Smith, Esq., C.E.	5	1 0	77 T	30·84	...
"		" " "	5	1 0	25 T	35·66	183
"	M	" " "	5	1 0	25 T	35·28	...
Emsworth (Redlands)	D	F. Jacomb Hood, Esq.	5	1 0	90 T	38·10	183
Southampton (Cadland)		J. Laurie, Esq.	8	4 6	52 T	36·87	200
Lyndhurst (Cuffnells)	D	R. Hargreaves, Esq.	5	0 9	200 T	37·00	162
Southampton (Netley)	D	Prof. J. Lane Notter...	8	0 5	37 A	36·66	195
" (" Lake Ho.)	D	Col. Pennington	8	1 0	54 A	34·37	211
" (Ordnance Surv. Off.)		Col. Farquharson, C.B.	5	1 0	79 A	34·91	179
" (Totton).....	D	Mr. W. F. Harold	5	5 0	85	39·26	216
" (Shirley Warren).....		A. Spooner, Esq.	5	1 1	97	34·32	...
Wickham (West Lodge)	D	Rev Stanhope Rashleigh	5	0 11	315 T	34·82	189
Botley (Hall Court)	D	Adml. Murray-Aynsley	8	2 0	105 T	38·46	180
" (Botley Hill)	D	A. Jenkins, Esq.	5	1 0	36 T	35·16	195
" (The Hollies, Curdridge).	D	G. M. Bradley, Esq. ...	5	1 0	150 T	34·05	193
Horndean (St. Catherines)	D	Miss Barnes	8	1 7	417 T	40·05	193
†Southampton (Red Lodge)		R. C. Hankinson, Esq..	5	0 6	206	34·31	...
Fordingbridge (Oaklands)	D	Mrs. Westlake	8	1 0	135 T	38·00	166
Hambledon (Rosecroft).....	D	Mr. L. Dawes.....	5	2 6	200	39·00	198
Bishops Waltham (Swanmore House)		W.H.Myers, Esq., M.P.	8	1 0	390 T	36·48	162
" " (Northbrook Ho.)		H. W. Trinder, Esq....	5	1 0	140	36·70	172
Droxford (Fir Hill)		Rev. S. King	5	3 6	212	37·17	203
Fordingbridge (Wood Green) .		H. Hinxman, Esq.....	5	1 2	140 A	36·07	...
Otterbourne Hill Reservoir ...	M	W. Matthews, Esq., CE	5	18 0	273 A	26·04	...
" (W.W., Shawford).	D	" " "	5	1 0	113 A	34·38	177
" " " ")M		" " "	5	1 0	113 A	34·20	...
Liss (Liss Place)		F. Coryton, Esq.....	7	0 7	250 A	37·83	...
" (Lingwood)	D	R. Barnes, Esq., M.D.	5	0 9	510	40·24	182
Alresford (Hinton Ampner).....	D	Rev. J. Heberden	8	4 4	330	38·13	181
" (Ovington).....		Rev. H.F. La M.Stowell	5	1 0	221 T	36·15	184
" House		Mrs. Wood	5	1 6	238 A	35·64	155
Greatham (King's Holt)	D	Genl. Parr	5	1 7	279 T	37·67	172
Alton (East Tisted Rectory).....	D	Rev. F. Howlett	5	1 1	420 A	41·94	189
" (Rotherfield Pk.)	D	Mr. A. C. Hunter	5	1 6	540	43·01	190
" (The Wakes, Selborne) ...	D	F. W. C. Read, Esq....	5	5 0	400	41·48	196
Winchester (Harestock)	D	Col. Knight	5	1 0	302 A	38·07	204
" (The Hermitage, Wyke)		Miss A. F. R. Fuller...	5	1 0	280 T	38·61	186
Liphook (Fowley)		E. A. Lee, Esq.	5	0 10	296 T	38·83	183
" (White Hill Chase) ...		Col. R. H. Maude	5	1 0	300 A	36·98	190
Swarraton Rectory	D	Rev. W. L. W. Eyre...	5	1 0	310 A	36·73	202
†Alton (Ashdell).....	D	F. Crowley, Esq.	8	3 6	433 A	41·48	199
" (Eagles Nest)		" " "	5	52 4	505	24·68	...
" (Hill House)		C. H. Dyer, Esq.	5	1 0	361	40·35	189
" (Shalden Manor).....		J. G. Wood, Esq.	8	3 0	594	41·32	...
Whitchurch (Long Parish)	D	C. Durnford, Esq.....	...	...	...	35·41	183
Andover (The Knoll)		G. H. Westbury, Esq..	5	0 10	196 T	37·00	174
Tedworth House [Ludgershall]..	D	Mr. G. A. Inglefield ...	5	1 8	357 T	38·89	162
Basingstoke (Chapel Hill).....	D	G. Stephens, Esq.	5	1 0	328 T	32·16	187

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
HAMPSHIRE—(con.)						
Rotherwick (Tydney Hall) ...	C. E. Harris, Esq.	5	0 10	330	29·82	143
Basingstoke (Monk Sherborne) ..	Rev. Canon Willes ...	5	1 6	314 ∇	34·36	...
„ (Sherborne St. John) ...	Rev. D. W. Chute.....	5	1 2	267 ∇	34·93	200
Winchfield (Elvetham Park) ...	Mr. T. Jones	8	1 0	217 ∇	29·35	187
Farnborough (The Grange)	Major Holt	5	1 0	232 ∇	36·74	208
„ (The School)	Rev. G. C. Carter	5	2 0	230 ?	31·81	170
Hartley Wintney	Mr. W. G. Machin ...	5	1 2	222 ∇	31·81	207
„ Grange	F. Walkinshaw, Esq. ...	5	1 0	221 ∇	31·40	170
Strathfield Turgiss.....	Rev. C. H. Griffith.....	5	3 0	200 ∇	34·14	226
Heckfield (Park Corner)	J. Martineau, Esq.	5	1 2	257	30·19	166
„ Place.....	Mr. A. Maxim	5	1 0	262	30·28	163
BERKS.						
Sandhurst Lodge	Sir W. J. Farrer	8	2 9	263	32·39	243
Wellington College	S. A. Saunder, Esq. ...	5	1 0	283 ∇	29·51	172
Sunninghill (Lynwood).....	G. Rodie Thompson, Esq. ...	5	1 0	266 ∇	34·66	202
Newbury (Donnington Sq.)	W. J. Cowper, Esq.	5	3 6	282 ∇	34·10	191
Hungerford (Kintbury)	Sur.-Gen. Woolfryes, CB	5	1 0	297 ∇	34·24	226
„ (Denford Park).....	Gen. Cherry-Garrard...	5	1 2	430 ∇	37·05	213
Bracknell (Warfield).....	Rev. B. C. Littlewood .	5	0 4	199 ∇	31·60	192
Wokingham (Binfield Park) ...	W. R. Cookson, Esq.	8	1 1	...	30·49	183
Old Windsor (The Friary)	Mr. J. Williams.....	5	1 0	100	29·81	141
Windsor (Royal Gardens).....	Mr. T. Edwards.....	5	1 0	...	30·27	228
Reading (Englefield).....	R. Benyon, Esq.	5	1 1	...	33·13	181
„ (Calcot Place).....	General Swettenham...	5	1 4	176	29·80	185
„ (Ellerslie)	Rev. A. Cheales.....	5	1 0	195 ∇	30·76	185
„ (Portland Place).....	C. N. Pearson, Esq. ...	5	1 0	120	32·70	207
„ („ „).....	„ „ „ „ „ „ „ „ „ „	8	1 6	120	33·39	207
„ (Forbury Gardens).....	J. „ Bowen „ Esq. „ C. E. ...	5	1 5	145 ∇	28·16	188
„ (East Thorpe)	A. Palmer, Esq.	5	3 0	157 ∇	31·03	194
„ (Earley)	M. J. Sutton, Esq. ...	8	1 6	...	30·82	...
Newbury (Welford Park).....old g.	Mr. C. Ross.....	5	1 0	335 ∇	38·15	210
„ („ „) new g.	„ „ „ „ „ „ „ „ „ „	5	1 0	341 ∇	37·93	210
„ (Weston)	R. Osmond, Esq.	5	0 6	338 ∇	36·37	196
Yattendon Court	A. Waterhouse, Esq. RA.	5	1 0	450 ∇	30·67	182
Lamborne (College House)	W. Palmer, Esq.	5	0 9	415 ∇	35·55	189
Maidenhead (Lowood)	Gen. Davies	8	1 0	167 ∇	31·18	199
„ (Castle Hill House).....	F. C. Young, Esq.	5	1 0	163	31·67	214
„ (Pinkney's Green).....	G. Norsworthy, Esq. ...	5	1 6	240	31·31	207
„ (Cookham Vic.) ...	Rev. R. W. Rogers ...	5	1 3	90 ∇	29·29	184
Wantage (Letcombe Regis)	S. W. Silver, Esq.	5	0 9	...	32·72	195
„ „ „ „ „ „ „ „ „ „	Mr. W. Hanson.....	5	1 0	304	31·88	178
Wallingford Castle	J. Kirby Hedges, Esq. ..	5	0 9	175 ∇	27·19	194
Little Wittenham Rectory	Rev. Percy Burd	5	1 0	187 ∇	28·61	182
„ „ „ „ „ „ „ „ „ „	T. J. Latham, Esq.	5	2 0	187	29·65	157
Long Wittenham (Manor Ho.)...	Capt. Clutterbuck, R.N.	12	1 0	165 ∇	30·97	173
„ „ (Lovegrove's Cott.) ..	Rev. F. C. Clutterbuck	5	1 0	165	31·64	156
Faringdon (The Elms)	W. Dundas, Esq.	5	1 0	340 ∇	34·08	188
Abingdon Union	Mr. J. Fray	5	1 0	196	29·54	183

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which "01 or more fell.
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			ft. in.	feet.	inches.	
HERTS.						
Southgate (The Lawns).....	G. A. Church, Esq. ...	5	0 6	240 T	28·48	227
†Rickmansworth (Moor Park)...	Rt. Hon. Lord Ebury ..	5	2 0	340	35·60	203
Elstree (Aldenham House)	Mr. E. Beckett	10	4 9	...	27·48	166
Watford (Oaklands)	E. Harrison, Esq.	5	5 6	273	34·02	193
" (Frogmore)	A. P. Blathwayt, Esq.	5	1 0	182 T	32·01	187
" (Colne Valley W.W.)..	J. Hopkinson, Esq. ...	5	1 0	220	29·64	169
" (Kytes)	Mrs. Horsman	5	1 0	239	30·06	173
Barnet (Gas Works)	J. Hopkinson, Esq. ...	8	0 9	212	27·89	164
" (Trent Park)	Mr. W. H. Lees.....	5	1 0	254 T	27·42	...
Cheshunt Old Nurseries	Messrs. Paul & Son ...	5	1 0	92 T	26·86	174
" College	Rev. Dr. Reynolds.....	5	1 1	94	26·12	166
Broxbourne (Stafford House) ...	G. J. Newbery, Esq....	5	1 0	118 T	27·20	199
Hemel Hempstead (Nash Mills)..	Messrs.J.Dickinson&Co.	12	3 9	237 T	31·22	181
" (Apsley Mills)	"	24	0 9	260	31·37	179
St. Albans (The Grange)	J. Hopkinson, Esq. ...	5	1 0	380 T	32·20	212
†" (Gorhambury)	Mr. Newberry.....	5	1 0	425 T	34·53	203
Hoddesdon (Fielde's Weir)	MajorLamorock Flower	8	4 0	82 T	24·25	157
GreatBerkhampstead (Rosebank)	E. Mawley, Esq.	8	1 0	401 T	29·98	199
" " (Fairhill)...	"	8	1 0	401 T	29·23	...
" " (Northchurch)	W. B. Hopkins, Esq... ..	5	1 0	550 T	30·08	212
" " (Gt.Gaddesden)	F. L. Sutton, Esq.....	5	1 0	400	29·67	182
" " (Hertford)	Rev.W.TyrwhittDrake	8	1 0	426 T	29·78	192
Hertford (Bayfordbury)	W. C. Baker, Esq.....	8	1 2	250	25·22	194
" (Marden Hill, Tewin)..	R. Hoare, Esq..	5	0 6	257 T	24·25	174
Tring (Pendley Manor)	J. G. Williams, Esq....	5	2 0	500 ?	28·47	178
" (Elm House)	E. J. Le Quesne, Esq... ..	5	1 2	460	27·25	194
" (Cowroast)	G. C. Thomas, Esq., C.E.	5	3 8	394 T	29·67	132
Harpenden (Rothamstead)	SirsJ.Lawes & J.Gilbert	5	0 9	420 T	30·04	196
" " "	"	8	0 9	420 T	29·55	182
" " "	"	72x87	0 9	420 T	31·22	201
Hatfield (Brocket Hall)	J. Hopkinson, Esq. ...	8	1 0	250	26·96	193
Ware (Red House).....	J. Francis, Esq., C.E..	5	0 9	112 T	24·04	180
" (Fanham's Hall)	Miss Joyce Croft	8	1 0	253 T	25·71	193
Welwyn Rectory	Rev. Canon Wingfield.	5	0 4	228 T	26·94	164
" (Danesbury)	A. M. Blake, Esq.	5	0 9	405 T	28·28	189
" (Datchworth Rectory)..	Rev. J. Wardale	5	1 0	386 T	24·72	181
Much Hadham	T. W. Mott, Esq.	5	1 0	222 B	27·74	193
Kensworth [Dunstable]	Miss Jones	5	1 0	630 B	30·43	187
Bennington House.....	Rev. Dr. Parker.....	5	1 0	408 T	25·03	205
Buntingford (Hamels Park).....	Mr. E. Wallis	5	1 0	400 T	23·86	185
†Hitchin (Wratten).....	W. Lucas, Esq.	5	2 1	238 T	26·09	191
" (The Maples)	W. Hill, Esq.....	8	1 1	220 T	26·25	177
" (Bancroft)	F. Ransom, Esq.	5	0 9	212 T	25·50	201
" (High Down)	J. Pollard, Esq.	5	1 1	422 T	27·60	197
Weston Park	M. R. Pryor, Esq.....	5	0 8	470 T	26·46	194
Buntingford (Throcking Rectory)	Rev. C. W. Harvey ...	5	1 0	484 T	23·26	203
Royston (Therfield Rectory).....	Rev. J. G. Hale	5	4 3	500 ?	24·80	199
†"	H. Wortham, Esq.....	8	0 6	269 T	22·86	174

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	1894	
			ft. in.	feet.	inches.	
BUCKINGHAMSHIRE.						
D Slough (Langley)	R. H. Major, Esq.	8	0 10	85 T	28·22	174
D „ (Upton Hall)	late G. Bentley, Esq. ...	5	3 0	90 T	25·53	180
„ { „ „ }	„ „ „	8	3 0	90 T	25·70	...
„ { „ „ }	„ „ „	5	1 0	80 T	27·88	...
D „ (Sefton Park)	L. Hibbert, Esq.	5	1 0	200	30·64	175
D Taplow Court	W. H. Grenfell, Esq. ...	8	1 0	217 T	27·85	150
Greenlands [Henley-on-Thames]	Hon. W. F. Smith, M.P.	8	1 3	116	32·25	186
D Hedsor	Rt. Hon. Lord Boston.	8	1 0	168 T	32·34	190
High Wycombe	H. S. Wheeler, Esq. ...	8	0 9	253 T	30·68	...
D Chalfont St. Giles (The Stone)...	Col. Phipps	5	1 0	270 T	32·85	206
D Amersham (The Plantation)	G. Weller, Esq.	8	1 0	465 T	31·91	186
D Wendover (Halton Gardens) ...	Mr. Sanders	5	1 10	400	29·62	173
Aylesbury (New Road)	J. Copcutt, Esq.	12	1 0	280 T	28·10	...
„ (Mentmore)	J. Smith, Esq.	5	1 1	...	26·98	...
D† Winslow (Addington Manor) ...	Rt. Hon. Lord Addington	8	1 0	309 T	27·36	189
„ { „ „ }	„ „ „	5	1 0	309 T	27·43	...
D† Buckingham (Adstock)	J. E. S. Weston, Esq. ...	5	0 9	350 T	29·35	195
D Stony Stratford (Thornton)	Mr. W. Sturdy	5	0 9	...	28·36	186
D Woburn Sands (Sandymount) ...	C. P. Stuart, Esq.	5	1 6	...	27·21	203
D Newport Pagnell	late R. Littleboy, Esq. ..	5	2 0	196 T	25·04	163
Olney (Filgrave Rectory)	Rev. J. Tarver	8	0 8	280	26·48	...
OXFORD.						
D Whitchurch Rectory	Rev. J. Slatter	10	1 0	150 T	29·06	178
D Caversham (Cane End House) ...	D. Vanderstegen, Esq. ..	5	0 4	400 ?	32·25	201
„ (Kidmore Grange) ...	M. J. Sutton, Esq.	5	1 0	...	30·56	...
Henley-on-Thames (Greys)	Rev. N. Pinder	5	2 6	370 T	32·34	...
D „ „ „ (Northfield Ho.)	J. W. Guy, Esq.	5	1 0	120	31·15	185
D „ „ „ (Assenton) ...	Mr. J. Ratty	5	1 0	281	32·03	177
D Dorchester	Col. Blunt	5	0 6	169 T	28·76	190
D Abingdon (Culham)	Rev. F. C. Clutterbuck	5	1 0	200 T	31·67	191
D Watlington (Pyrton Manor)	Cecil Hamersley, Esq. ..	5	1 0	321 T	30·29	197
„ (Shirburn Castle) ...	Mr. W. M. Geddes ...	5	2 0	...	30·32	188
D Nuneham Park Gardens	Mr. Nichols	8	3 0	280 T	31·78	200
Wheatfield Rectory	Rev. C. V. Spencer ...	5	1 3	...	29·72	...
D Toot Baldon (Potlands) ...	E. Clinkard, Esq.	5	1 0	288	30·98	187
Garsington	Rev. D. Thomas	8	1 3	274 T	27·42	...
Waterstock	W. H. Ashhurst, Esq. ..	8	3 0	206 T	31·56	203
D† Oxford (Mag. Coll. Laboratory).	E. Chapman, Esq.	5	1 0	186 T	27·88	176
„ { „ „ „ }	„ „ „	5	33 11	223 T	25·57	...
„ (Radcliffe Observatory) ..	E. J. Stone, Esq., F.R.S.	8	1 8	210 T	28·54	174
D „ { „ „ „ }	„ „ „	11	2 4	210 T	30·10	165
„ { „ „ „ }	„ „ „	10	22 0	230 T	28·95	176
„ { „ „ „ }	„ „ „	10	112 0	320 T	20·99	163
D „ (St. Giles')	Miss Tawney	8	1 3	211 T	30·56	198
D „ (Norham Road)	Rev. C. B. Mount	9	1 2	220 ?	29·07	167
D „ (Headington Hill)	Miss Davenport	5	0 10	354	31·76	194
D „ (Elsfield)	H. Parsons, Esq.	5	1 0	330 T	30·16	200

DIVISION III.—SOUTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
OXFORD—(con.)						
Stanton St. John's.....	Miss Thomson.....	8	1 0	340	31·57	150
„ „ „ (Woodperry)...	J. Thomson, Esq.	6	1 0	399 T	32·08	213
Chipping Norton (Kingham).....	E. Lockwood, Esq. ...	5	4 0	442	30·22	...
d Bicester (Middleton Park)	Rt. Hon. Earl of Jersey	5	2 6	380	29·56	176
„ (Stratton Audley Pk.)...	Colonel Gosling	5	2 4	381 T	28·31	148
Steeple Aston (Hill House)	B. S. Ogle, Esq.	5	0 5	400 T	32·34	208
d „ „ (The Grange).....	Adl. Bradshaw, C.B....	8	1 0	400 T	30·72	201
d Banbury (Bloxham Grove)	Rev. G. Warriner	8	3 10	387 T	27·89	165
d „ „ „	Col. O. Ommanney ...	8	2 0	400 T	26·96	182
d „ „ (Sibford Ferris)	J. Lamb, Esq.	5	1 0	590 T	27·02	195
d „ „ (Bodicote)	J. F. Starkey, Esq. ...	8	1 3	388 T	29·41	191
d „ „ (Ark House School) ...	A. J. Beale, Esq.	5	1 0	310	27·14	182
NORTHAMPTON.						
Brackley (Market Place)	Messrs. Durran & Smith	8	6 10	400 T	27·17	177
„ (East Hill)	Rev. H. A. Boys.....	...	...	...	27·38	195
d Grimsbury [Banbury]	W. E. Wood, Esq.....	5	1 3	320 T	25·80	171
Thorpe Mandeville [Banbury]...	Mr. S. Baines	5	1 0	530	25·54	164
d Towcester (Whittlebury)	W. S. Miller, Esq.....	5	1 6	350	29·14	191
d „ „	P. Phipps, Esq.	5	1 0	290	28·32	166
„ „ (Easton Neston)	Mr. E. Slarke.....	8	1 0	340 T	30·27	157
d Stoke Bruerne Rectory.....	Rev. W. Wilson.....	8	1 0	320 T	25·82	179
Byfield (Woodford Halse)	Rev. H. A. Boys .....	...	...	...	27·35	190
d Blisworth (Grafton House)	A. Westley, Esq.	5	5 0	...	25·36	175
d Litchborough Hall	E. Grant, Esq.	5	1 1	500	33·40	203
d Daventry (Fawsley)	Lady Knightley	5	1 0	477 T	26·66	204
d Easton Mauduit Vicarage	Rev. H. A. Boys.....	8	1 0	245 T	25·44	193
d Castle Ashby	R. G. Scriven, Esq. ...	5	1 0	263 T	25·04	184
d Northampton (Berrywood)	R. Greene, Esq.	8	1 0	399 T	25·52	155
„ „ (Hazlewood Road)	Rev. H. A. Boys	5	5 0	253	20·86	155
d „ „ (Pytchley Street)...	Mr. E. Ball	5	1 6	270	21·62	175
d „ „ (Kingsthorpe).....	S. Law, Esq.	5	1 0	280	22·24	178
d Althorp House	Miss Chowler	8	3 10	310 T	23·18	136
Great Brington	Rev. H. A. Boys .....	...	...	...	25·38	166
Rushden .....	„ „ „ .....	...	...	...	21·44	...
d Pitsford (Sedgebrook)	C. A. Markham, Esq....	5	1 0	311 T	23·70	163
„ „ „	„ „ „	5	1 0	311 T	23·61	...
Daventry (Waterloo).....	F. F. Rodhouse, Esq...	5	1 3	436 T	28·10	205
Earls Barton Vicarage	Rev. H. A. Boys	5	1 4	280 T	24·68	202
d Wellingborough (Swanspool) ...	N. P. Sharman, Esq. ...	5	0 2	155	23·11	188
d „ „ (Croyland Abbey)	E. Sharman, Esq.	5	0 5	...	24·05	194
d Thrapstone (Hargrave)	Rev. R. S. Baker	5	1 0	220 T	26·72	140
Watford Court	Rev. H. A. Boys .....	...	...	...	25·83	192
d Ravensthorpe (Coton Mill)	G. S. Eunson, Esq. ...	5	1 0	355	26·75	182
West Haddon	Rev. H. A. Boys .....	...	...	...	25·77	187
d Kettering (Sewage Works)	T. R. Smith, Esq., C.E.	8	1 0	199 T	23·45	165
d „ „ (Queensberry Road)...	P. Wallis, Esq.	8	1 3	300	24·88	201
d „ „ (Headlands).....	C. W. Lane, Esq.	5	1 0	280	24·18	201

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	1894	
			ft. in.	feet.	inches.	
NORTHAMPTON—(<i>con.</i>)						
Welford (Salford House)	Mr. Wood	5	1 3	...	26·65	210
Rothwell	J. More, Esq., M.D. ...	8	1 2	300	23·58	160
Aldwinkle St. Peter	Rev. H. A. Boys .....	...	...	...	22·56	164
Oundle	J. M. Siddons, Esq. ...	5	3 4	105 †	22·94	154
D Corby (Weldon Grange)	J. Rooke, Esq.	8	1 0	342 †	24·14	222
D Rockingham Castle	Mr. J. H. Brown	5	4 4	400 †	23·07	161
Apethorpe Lodge ..	A. Jolly, Esq.	5	0 8	150	24·14	...
Kingscliffe (Fineshade)	Rev. H. A. Boys .....	...	...	...	21·84	140
Peterborough (Thorpe Hall)	Col. C. I. Strong	5	1 0	...	19·61	...
D Stamford (Easton)	Mr. H. Watkins	5	0 9	271 †	21·37	192
„ (St. Martins)	T. Booth, Esq.	5	1 3	86	22·31	167
D Maxey Vic. [Market Deeping]...	Rev. W. D. Sweeting...	5	1 0	32 †	20·09	191
„ „ [„ „] M	„ „ „	5	1 0	32 †	20·03	...
HUNTS.						
D St. Neots (Waresley Park)	Lady C. Duncombe ...	5	0 11	190	27·68	143
D „ (Great Paxton)	Rev. A. G. Cane	5	1 0	100 †	22·52	157
Offord D'Arey	W. Priestley, Esq.	5	0 9	50	25·26	...
D Huntingdon (Brampton)	Miss May Bird	5	1 1	...	25·54	202
D „	F. I. Howson, Esq. ...	5	0 11	...	23·40	156
D Alconbury	Rev. R. Conway	5	1 0	...	20·27	173
Whittlesea Mere	A. Lunn, Esq., C.E. ...	8	1 6	...	21·90	208
BEDFORD.						
Luton (Pumping Station)	G. F. Carter, Esq., C.E. ...	5	1 0	343 †	28·74	212
D „ (Hart Hill)	W. H. Brown, Esq. ...	5	5 0	520	25·47	197
D Ampthill (Higham Bury)	E. Jekyll, Esq.	5	1 0	310 †	28·23	188
„ (Silsoe)	H. Trethewy, Esq.	5	1 0	214 †	27·80	159
„ (Wrest Park)	Mr. G. Ford	5	1 1	...	27·60	...
D† Aspley Guise (Oaklands)	E. E. Dymond, Esq. ...	5	1 0	410 †	25·68	185
Woburn (Crawley Farm)	C. H. B. Cave, Esq. ...	5	3 8	300	26·37	155
D Stotfold [Baldock]	Dr. Swain	5	1 0	220 †	25·49	206
Ampthill (Maulden)	S. Street, Esq.	6	1 6	...	22·65	...
D Woburn (Hulcote Rectory)	Rev. B. Chernocke Smith	5	1 0	310	25·26	173
Biggleswade (Old Warden)	Mr. G. R. Allis	8	1 2	...	27·36	170
D „ (Brooke House) ..	R. F. Conder, Esq.	5	1 0	103 †	24·80	177
D „ (Caldecote) ...	Rev. M. E. Ruston ...	5	0 10	...	23·58	188
D Potton (Wrestlingworth)	H. J. King, Esq.	5	1 0	...	24·49	194
„ (Vicarage)	Rev. G. E. Gwynne ...	5	0 10	145	23·73	...
D Sandy (The Lodge)	Rt. Hon. Lord Peel ...	5	1 0	...	25·07	166
D Bedford (The Grove)	W. B. Graham, Esq. ...	5	1 0	108 †	23·90	184
„ (St. Peter's Street)	W. Godfrey, Esq.	5	1 2	114 †	23·24	...
„ (Milton Ernest)	F. Newbery, Esq.	5	5 0	137 †	25·68	158
CAMBRIDGE.						
D Odsey [Royston]	H. G. Fordham, Esq.	5	1 0	260 †	22·57	198
D Abington Pigotts [Royston] ...	W. G. F. Pigott, Esq. ..	8	0 8	130	23·18	190
Carlton	G. H. Long, Esq.	5	1 0	340 †	26·16	183

DIVISION III.—SOUTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
CAMBRIDGE—(con.)						
Trumpington	F. Parsons, Esq.	5	1 0	50	25·53	187
^D „ (Gilmerton)	S. Nutter, Esq.	8	0 9	...	22·74	207
Granchester Mill	H. G. Fordham, Esq.	5	5 0	31 ∇	23·85	181
^D Cambridge (Fulbourne Pmpng Sta)	W. W. Gray, Esq., C.E.	5	1 0	37 ∇	24·65	220
^D „ (W.W.Cherryhinton).	„ „ „ „ „ „	5	1 0	35 ∇	23·33	203
^D „ (Sidney Street)	W. E. Pain, Esq.	8	60 0	92 ∇	22·01	207
^D „ (Pinehurst)	C. F. Foster, Esq. ....	...	0 10	36	23·60	211
„ (Trinity College) ...	Registrar Gen. Returns	8	4 0	40	22·69	189
† „ Observatory	Sir R. S. Ball, F.R.S..	5	1 0	84 ∇	23·21	.
„ „ „	„ „ „ „ „ „	8	0 10	84 ∇	22·97	168
Quy Hall	Mrs. Francis	5	0 5	61	23·56	194
Cottenham	A. Bull, Esq.	5	3 6	30	23·10	...
^D Ely (Stretham)	Mr. J. Housley	9	4 9	13 ∇	22·29	164
^D „ („ Ferry)	Mr. C. Wright, Junr.	8	5 0	...	23·32	162
Mepal Engine	H. G. Fordham, Esq. ....	...	20 6	25	18·12	...
Littleport (Highfield House) ...	H. G. Martin, Esq. ...	8	2 7	67 ∇	22·52	186
Chatteris (Aylesby House)	A. H. Ruston, Esq. ...	8	0 6	45 ∇	22·34	156
^D „ (The Priory)	H. F. Fryer, Esq.	5	0 7	45	23·29	156
„ (Horseway Lock)	A. Lunn, Esq., C.E. ...	8	15 0	...	20·09	173
March	„ „ „ „ „ „	9	2 0	...	23·92	175
* „ (Stags Holt)	W. C. Little, Esq.	5	1 0	11 ∇	22·03	175
Upwell (Marmont Priory Lock)..	A. Lunn, Esq., C.E. ...	8	1 1	...	21·46	190
„ (Euximoor House)	H. West, jun., Esq. ...	5	0 8	15 ∇	24·42	164
^D Thorney	T. R. S. Lyster, Esq.	8	3 6	9	19·38	161
^D „ (Wryde House)	S. M. Egar, Esq.	5	1 0	11 ∇	19·41	178
^D Wisbech (Bank House)	A. Peckover, Esq.	8	0 8	6	23·48	167
^D „ (Tydd St. Giles)	A. Roney, Esq.	5	1 6	0	21·37	133

DIVISION IV.—EASTERN COUNTIES.

ESSEX.

^D Barking Outfall	A. R. Binnie, Esq., C.E.	8	0 6	6 ∇	24·92	179
^D Shoeburyness	The Asst. Super. Expts.	5	7 3	18	20·82	182
^D „	„ „ „ „ „ „	8	2 6	3	23·28	193
^D West Ham (Abbey Mills)	A. R. Binnie, Esq., C.E.	8	1 0	11 ∇	25·61	163
^D Barking Burial Ground	C. H. Mills, Esq.	5	1 0	...	24·92	170
^D Southend (Water Works)	C. S. Bilham, Esq. ...	8	1 0	112 ∇	24·94	193
^D „ („ „ Eastwood)	„ „ „ „ „ „	8	1 0	50 ∇	23·76	182
^D Romford (North Ockendon)	Rev. R. T. Crawley ...	5	1 3	100 ∇	24·73	158
^D Manor Park (Albany Road)	A. J. Wilmshurst, Esq.	5	3 0	...	23·27	214
Ilford (Great Gearies)	Mr. J. Douglas	5	1 0	120	20·70	...
^D Upminster Hall	G. P. Hope, Esq.	5	1 0	120	26·02	240
^D Walthamst'w (Prospect Hill Ldge)	J. E. Goodchild, Esq. ...	5	1 3	140 ∇	29·35	191
^D Woodford (Brancepeth House)	Albert Spicer, Esq. M.P.	5	1 0	...	27·52	141
„ (Hagger Lane)	W. B. Bryan, Esq., C.E.	8	1 0	176 ∇	26·62	168
^D Billericay (Burghstead Lodge)	General Branfill	5	1 0	310 ∇	25·36	167
^D Havering	Mrs. Pemberton-Barnes	5	1 0	...	26·67	212

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which ≥ 0·1 or more fall.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
ESSEX—(con.)						
Buckhurst Hill	W. B. Bryan, Esq., C.E.	8	34 0	305 T	24·91	185
Brentwood (Sawyers Hall)	Rogers Field, Esq., C.E.	5	1 0	270 T	25·25	...
Loughton (High Beech)	W. B. Bryan, Esq., C.E.	8	1 0	376 T	25·40	175
Waltham Abbey.....	" " "	8	1 0	62 T	27·63	196
" " (Gunpr. Factory).....	The Superintendent ...	5	1 6	70	25·14	138
Epping (The Hemnalls)	J. Nicholl, Esq.	8	0 8	345	36·07	179
Bradwell-on-Sea (Bradwell Hall).....	J.C. Chillingworth, Esq.	5	1 1	27	24·10	143
" " (Down Hall).....	R. Page, Esq.	5	1 0	20	24·39	160
d Chelmsford (Writtle).....	E. Rosling, Esq.	5	0 6	140 T	22·29	171
" (High Street).....	F. Chancellor, Esq. ...	8	1 0	86 T	22·15	141
"	The Royal Meteor. Soc.	5	1 0	135	24·44	188
" (Roxwell)	R. W. Christy, Esq. ...	5	1 0	190 T	25·09	141
" (Broomfield)	W. Impey, Esq.	5	1 4	144 T	23·55	...
d East Mersea Rectory.....	Rev. F. J. Ball	5	1 0	56 T	24·66	227
d Harlow (Sheering).....	Rev. Canon Hill.....	5	1 0	214 T	24·81	165
Witham (Little Braxted Hall)....	J. Taber, Esq.	5	1 0	50	26·65	182
" (Rivenhall)	Rev. F. Bridges.....	5	1 0	138 T	25·71	...
Laver Breton Rectory	Rev. F. Owston	5	1 0	88 T	23·03	199
Thorpe le Soken (Landermere)... ..	C. Hempson, Esq.	5	0 4	...	23·43	148
Colchester (Surrey Villa)	J. C. Hopwood, Esq. ...	5	1 0	110 T	25·26	172
d "	H. Goodyear, Esq., C.E.	8	16 10	82 T	23·70	188
d " (Hill House, Lexden).....	S. F. Hurnard, Esq. ...	5	1 0	90 T	22·32	177
" " " " " M.....	" " " " "	5	1 0	90 T	22·68	...
d " (Home Farm, ").....	Mr. W. Bird	5	1 0	125 T	22·20	188
d Braintree (Bocking, Fennes).....	H. S. Tabor, Esq.	5	1 0	240 T	23·13	185
" " (Place).....	S. Courtauld, Esq.	8	2 3	212 T	26·38	167
Earls Colne (Chalkney House)....	H. F. Hills, Esq.	5	1 0	180 T	22·28	139
Harwich (Ramsey)	A. Hempson, Esq.	5	0 6	150	26·43	175
Halstead	The Royal Meteor. Soc.	5	1 0	144	23·18	174
d Dedham	W. H. Penrose, Esq.	10	1 3	40	25·34	198
Langham Rectory	Rev. T. S. Raffles	5	0 7	134	27·34	215
d Saffron Walden (Newport)	Rev. G. F. Tamplin ...	5	3 0	208 T	23·73	206
d " "	S. Leverett, Esq.	5	1 0	199 T	23·81	212
" " (Audley End).. ..	Mr. J. Vert	5	1 0	155 T	22·15	223
SUFFOLK.						
d Erwardon Hall [Harwich]	J. A. Hempson, Esq. ...	8	0 6	...	27·25	154
d Ipswich (Woolverstone Park) ...	C. H. Berners, Esq. ...	8	1 0	100 T	26·58	189
d " (Orwell Park)	Mr. J. Wallis	8	1 0	60 T	28·93	183
d " (Belstead Hall)	A. Harwood, Esq.	8	9 0	120 T	24·50	167
d Alderton Rectory	Rev. C. G. Archer	8	2 2	...	28·06	170
d Sudbury (Friars Street)	E. Ramsom, Esq.	5	1 7	93 T	24·03	200
d " (Newton Road)	J. Alexander, Esq. ...	5	1 2	130 T	23·94	202
Ipswich (Bishop's Hill).....	G.A. Biddell, Esq., C.E.	5	1 0	104 T	24·90	...
d " (Clare Lodge)	E. R. Turner, Esq., C.E.	5	1 0	178 T	26·05	200
d Cavendish	S. J. Garrett, Esq.	5	1 0	...	24·10	189
Lavenham Hall	W. Biddell, Esq.	5	1 11	220	24·75	130
d Woodbridge (Co. Asylum Melton)	Dr. Eager	8	1 4	100 T	26·98	196

DIVISION IV.—EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in	feet.	inches.	
SUFFOLK—(con.)						
D Woodbridge (The Cedars, Melton)	W. P. T. Phillips, Esq.	5	...	...	25·85	197
D Rendlesham Hall	Rt Hon Lrd. Rendlesham	5	1 9	88 A	23·56	165
D Haverhill (Great Thurlow)	A. Boa, Esq.	5	1 0	241 T	22·87	207
Clare (Stansfield)	J. Slater, Esq.	5	1 0	...	24·34	...
D „ (Hawkedon Rectory)	Rev. B. P. Oakes	5	3 4	305 A	23·47	220
Ash Bocking Vicarage.....old g.	Rev. M. B. Cowell	5	7 3	231 T	25·86	145
„ „ „ „	„ „ „ „	5	3 4	231 A	25·39	145
D Aldborough (Aldringham Ho.)	F. Garrett, Esq.	8	4 5	50 B	24·98	197
D Great Glenham	Col. Bloomfield	5	0 10	80 T	27·65	180
Ickworth Park	Mrs. Wood	5	1 0	250	28·28	184
D Framlingham (Mount Pleasant)	Mr. R. Whitehead	5	1 2	125	26·66	186
D Little Saxham	Rev. H. J. Kilner	8	0 10	...	25·14	212
D Bury St. Edmunds (Orchard St.)	Mr. P. Grieve	5	1 3	...	23·11	182
D „ „ „ (Abbeygate St.)	Mr. O. A. Clark	5	65 0	...	19·23	168
D „ „ „ (Westley) new g	R. Burrell, Esq.	5	1 0	226 A	25·57	184
„ „ „ (Hengrave)	Mr. W. Nichol	5	1 2	91	20·77	...
D Bacton	C. H. Woods, Esq.	5	1 6	199 T	25·08	209
Darsham (Sibton Vicarage)	Rev. J. L. M. Moore	5	1 0	86	23·94	...
D Ixworth (Walsham-le-Willows)	Miss M. C. Martineau	5	1 0	...	27·68	213
Stradbroke Rectory	Rev. Canon Tate	5	1 3	172 T	26·23	...
D Beccles (The Staith)	Clifford Smith, Esq.	5	4 6	...	25·96	199
D Lowestoft (Bryn-y-Môr)	S. H. Miller, Esq.	5	1 0	86	25·54	209
„ „ „ „ M	„ „ „ „	8	1 0	86	25·14	...
D „ (The Clyffe, Corton)	J. J. Colman, Esq.	5	1 0	62	25·15	191
„ (Somerleyton Rect.)	The Royal Meteor. Soc.	8	1 0	50	23·73	184
Fritton	H. E. Buxton, Esq.	8	0 8	40	25·16	172
D Belton [Yarmouth]	Miss A. Howes	5	0 8	15 T	26·47	208
NORFOLK.						
D Scole Rectory	Rev. F. Page Roberts	5	1 0	90	26·46	233
D Diss	T. E. Amyot, Esq.	5	1 0	96	27·27	207
D Harleston (Rushall Vicarage)	Rev. C. Gape	5	1 1	117 A	25·89	198
D Santon [Brandon]	Rev. A. M. Gathercole	5	0 10	...	24·54	202
D† Geldeston [Beccles]	E. T. Dowson, Esq.	5	1 0	38 A	26·41	224
„ „ „ M	„ „ „ „	8	1 0	38 A	24·83	...
D „ „ „	R. Dashwood, Esq.	5	1 0	49 T	26·91	188
D Saxlingham Nethergate	Mrs. Pitt	8	1 2	...	26·06	206
D Loddon (Bergh Apton Rectory)	Rev. T. F. Lloyd	8	1 2	...	26·53	192
D Wymondham	E. B. Pomeroy, Esq.	8	1 3	118 A	26·24	209
D Watton	W. Martin, Esq.	5	2 0	166 T	26·91	168
D Hingham	T. W. Dobbs, Esq.	5	1 1	188	28·71	218
Norwich (Dunston Hall)	Rev. Canon Du Port	...	...	...	29·81	...
D Denver	„ „ „ „	8	1 0	80 A	25·22	188
D Stoke Ferry (Wereham)	Miss Mason	5	6 0	66	30·41	201
D Cantley	W. S. Horn, Esq.	5	1 0	50	25·54	198
D Wymondham (Hethersett)	Mrs. Pinwill	6	1 3	163	28·32	190
D Swaffham (Pickenham Hall)	H. Applewhaite, Esq.	5	1 0	104 A	33·33	238

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ".01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1894	
			ft. in.	feet.	inches.	
NORFOLK—(con.)						
Outwell Sluice	A. Lunn, Esq., C.E....	9	...	16	22-11	140
Yarmouth (Sailors' Home)	The Meteor. Council ...	8	4 0	12	26-75	212
" (Market Place) <i>old g.M</i>	W. C. Steward, Esq....	5	1 0	...	27-33	...
D " (" " <i>new g.</i>)	H. S. Gillett, Esq.....	5	1 0	...	27-91	212
D " (Halvergate Hall)	Miss Cross	5	3 3	48 ∇	25-40	172
D Norwich (Postwick)	J. J. Colman, Esq. ...	5	1 1	5	28-52	200
D " (Carrow House)	A. W. Preston, Esq....	5	4 0	35 ∇	26-08	149
D† " (Brundall)	W. Birkbeck, Esq. ...	5	1 0	66 \dagger	27-32	220
† " (Thorpe High House)...	F. Dix, Esq.	5	1 0	137 \dagger	27-07	214
D " (Essex Street)	J. H. Willis, Esq.....	9	2 6	88 ∇	26-82	193
D " (Ipswich Road)	G. J. Holblack, Esq....	8	1 0	110	28-56	244
D " (Newmarket Road)	J. R. Everitt, Esq. ...	8	1 2	89	28-28	244
D " (Heigham)	Dr. Compton	5	3 2	37 ∇	27-74	217
D " (" " Hall)	F. Cufaude, Esq.	5	1 0	...	25-95	199
Acle	H. R. Heyhoe, Esq. ...	5	0 6	51	26-86	...
D*Swaffham (London Street)	W. H. Plowright, Esq..	5	1 10	247 ∇	28-41	171
D " (Homewood)	F. Everett, Esq.....	5	5 0	250 ∇	28-03	201
Honingham	Rev. Canon Du Port ..	5	2 6	239 ∇	28-12	166
D Sprowston (Oak Lodge).....	Rev. Canon Du Port... Rev. Canon Du Port...	...	...	...	26-39	...
" "	...	5	1 0	101 ∇	26-27	213
South Walsham .....	" " " " .....	...	...	...	29-00	219
East Dereham	" " " "	5	3 3	22	27-64	...
D Drayton	G. H. Cooper, Esq. ...	8	3 0	161	29-15	152
D Swaffham (Dunham)	Miss Howell	5	1 2	50	24-99	174
D Salhouse	A. G. Copeman, Esq....	5	1 1	320	29-62	218
D Wiggenhall (Outlet Syphons) ..	Rev. T. F. Boddington	8	1 8	50	29-14	214
Tilney St. Lawrence (Aylmer Hall)	A. Lunn, Esq., C.E....	8	1 6	...	24-75	161
D Terrington	W. B. Parsons, Esq....	8	1 0	9	25-11	202
Felthorpe	late Dr. Seecombe	5	1 0	15 ∇	25-44	208
D Bylaugh Park Gardens	Mrs. Bourchier	5	1 1	75	24-77	...
D Reepham (Whitwell)	Mr. G. Beeton	5	1 0	130 \dagger	30-39	200
Cawston	Rev. F. W. Freeman... Rev. T. H. Marsh	8	2 0	120	27-27	198
Aylsham (Woodgate)	Rev. J. A. Lawrence... B. J. W. Purdy, Esq.. North Walsham (Dilham)	5	1 0	135 \dagger	27-99	217
D North Walsham (Dilham)	R. Cross, Esq.	5	0 8	...	26-91	220
D " " (Worstead)	Rev. H. Ffolkes.....	8	1 0	89 ∇	30-06	230
Hillington Rectory	" " " "	8	1 0	89 ∇	30-06	230
D† " School	W. Hamond, Esq.....	5	3 6	94 ∇	29-93	230
Fakenham (Pensthorpe)	Rev. E. W. Penny....	5	2 6	153	25-34	159
D Dersingham Vicarage	Sir L. J. Jones, Bart.. R. H. J. Gurney, Esq.. Holt (Letheringsett Hall).....	5	1 0	85	28-18	...
D Fakenham (Cranmer Hall)	E. Knight, Esq.....	5	1 0	144	29-96	221
D Cromer (Northrepps)..	J. H. Pearson, Esq. ...	5	0 4	...	29-37	180
Holt (Letheringsett Hall).....	W. Cozens Hardy, Esq. J. Nisbet	8	1 0	...	28-08	142
" Lodge	J. Davidson, Esq.	5	1 3	210	30-45	218
D " (Field Dalling)	Mr. Nisbet	5	1 0	...	26-08	177
Hunstanton Hall	Rev. Canon Du Port ..	11	3 8	60 ∇	23-99	...
Holkham .....	...	12	4 0	43	21-43	...
D Blakeney .....	...	...	...	...	24-54	179

DIVISION V.—SOUTH WESTERN COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which ·01 or more fell
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
WILTS.						
D Larmer Grounds [Shaftesbury]...	General Pitt Rivers, FRS	5	3 0	500 T	45·07	206
D Rushmore [Shaftesbury]	" " "	5	3 0	500 T	44·99	204
Landford	Mrs. Wigram	5	1 10	167 T	36·33	195
D Donhead St. Mary (Charlton Ho.)	Col. G. Best	5	0 7	514	41·66	223
Broad Chalke	Rev. T. N. Hutchinson	5	1 0	300	35·43	225
D† Salisbury (Alderbury)	Rev. R. S. Hutchings...	5	0 8	263 T	32·15	192
D† " (West Dean)	Rev. W. L. W. Eyre...	5	1 0	137 B	35·59	198
" (Milford Hill)	J. Lardner Green, Esq.	8	1 0	246 T	33·73	134
† " (Wilton House)	T. Challis, Esq.	8	0 5	180 T	36·87	222
Winterslow	J. King, Esq.	5	...	...	36·39	197
† Mere (Dews House)	J. Farley Rutter, Esq..	5	1 7	...	39·77	175
† " Vicarage	Rev. J. A. Lloyd	5	3 0	350	38·00	...
D† " Down	T. H. Baker, Esq.	5	1 0	702 T	42·99	240
D† Maiden Bradley	Lord Percy St. Maur ..	8	1 6	626 T	48·59	222
† Warminster (Rye Hill)	S. E. Jefferys, Esq.	8	2 0	466 T	45·20	237
Salisbury Plain (Chitterne House)	R. Hayward, Esq.	11	4 0	319 T	32·80	196
D Warminster (Downside)	Mrs. Stent	8	2 3	393	38·20	217
D Amesbury (Figheldean)	G. Knowles, Esq.	5	1 0	260 T	33·11	190
Ludgershall	Rev. W. H. Awdry ...	8	0 8	422 T	36·95	195
D " (Collingbourne Kingston)	Mr. E. G. Drew	5	1 0	470 T	31·96	167
Market Lavington	Mr. T. Selfe	5	3 6	300 ?	31·86	190
D Trowbridge (Water Works, Biss)	W. W. Gray, Esq., C.E.	5	1 0	311	37·98	168
" (Steeple Ashton Vic.)	H. P. Dixon, Esq.	5	1 0	240 T	33·63	...
" (Wingfield)	" " "	5	1 0	190 T	35·75	...
D " (Rodney House) ...	W. J. Mann, Esq.	5	1 1	140	33·52	210
D " (Lovemead)	Dr. Tayler	5	1 0	115 B	36·18	212
Bradford (The Chantry)	Dr. Beddoe, F.R.S. ...	...	...	125	32·73	...
" (Holt)	A. J. Beaven, Esq. ...	5	1 2	120	35·81	238
Devizes (Southgate House)	Miss Cunningham	8	1 0	436 T	34·16	...
D " (Wilts Co. Asylum) ...	Dr. Ireland Bowes	8	2 3	385 T	31·75	204
Buttermere	Rev. W. E. Burkitt ...	5	4 9	850 ?	36·78	226
Alton Barnes Rectory	H. P. Dixon, Esq.	5	1 1	434	33·71	...
Burbage (Wolfhall)	" " "	8	1 0	546	33·07	...
Shalbourne	Mr. J. Barns	5	1 0	...	35·26	196
D Bishop's Cannings	Rev. C. W. Hony	5	1 0	446 T	35·86	213
Devizes (Shepherd's Shore)	Mr. J. Carter	5	1 6	555	34·02	...
D Chippenham (Lacock)	Miss Awdry	5	0 11	250	36·68	207
Marlborough (Preshute House)...	H. P. Dixon, Esq. ....	...	...	...	37·14	...
"	C. E. B. Hewitt, Esq. ...	5	1 0	450	34·89	220
D " (Mildenhall)	Rev. G. Soames	5	1 0	456	34·46	190
D Calne (High Street)	Mr. H. Wilkins	5	3 6	244	32·85	237
D " (Compton Bassett)	Mr. W. A. Cook	8	1 0	395 T	36·39	221
Yatesbury	Rev. E. D. Guillebaud.	5	3 6	564 T	35·92	...
Ramsbury (The Rookery)	F. C. Batson, Esq.	5	1 0	411	32·73	...
D Broad Hinton	Rev. Vere Awdry	5	1 1	631 T	39·64	204
Wootton Bassett	H. P. Dixon, Esq.	5	1 0	...	34·49	...
D† Swindon, New	H. J. Southwell, Esq. ...	8	0 11	378	34·39	206
Malmesbury (The Priory)	A. W. Chubb, Esq. ...	5	2 6	...	35·00	160

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	1894	
WILTS—(con.)						
Malmesbury (Charlton Cott.) ...	Lady Victoria Howard ...	...	1 0	...	38·45	179
d Ashley Rectory [Tetbury]	Rev. M. Church.....	...	...	...	39·41	208
DORSET.						
d Portland (The Manse)	Rev. W. R. Waugh ...	5	1 6	10	36·06	194
Weymouth (Wyke Regis)	Mrs. Pretor.....	5	0 9	80 B	39·61	182
Corfe Castle (Smedmore)	Col. G. P. Mansel	8	6 0	130	31·01	...
Swanage (The Bank).....	J. Andrews, Esq.	5	1 0	8	40·91	174
„ (Gordon Villas)	F. A. Burt, Esq.	5	3 0	65 T	37·94	161
„	Rev. H. Pix	5	2 0	60	40·79	184
Weymouth	The Royal Meteor. Soc. ...	5	1 0	79	36·51	187
d „ (Langton Herring)...	Rev. C. H. Gosset.....	5	1 0	158 A	37·52	193
d Corfe Castle (Creech Grange) ...	T. Tyler, Esq.	5	1 2	200	46·82	162
d „ „ (Furzebrook)	L. W. Pike, Esq.	5	1 2	147 T	42·84	177
d Portisham	W. Symes, Esq.....	5	1 3	260	40·76	201
d Winterbourne Steepleton.....	H. Stilwell, Esq.	8	1 0	316 A	50·07	204
d Wareham (Castle Gardens)	S. W. Bennett, Esq. ...	5	2 6	18	38·04	177
„ (Binnegar Hall)	O. C. Farrer, Esq.....	5	1 0	65	37·45	...
Poole (West Street)	F. Styring, Esq.	5	1 2	6	36·78	169
d „ (The Yarrells)	„ „ „	5	1 1	60 T	36·22	161
„ (Hamworthy)	J. M. Henderson, Esq..	5	1 6	12	36·38	159
d „ (Parkstone)	R. H. Barnes, Esq. ...	5	0 11	198 A	39·02	193
d Bridport (Portville)	H. Gordon, Esq., C.E..	5	1 0	10 T	42·25	181
d „ (Coneygar)	„ „ „	5	1 0	110 T	40·04	189
Bere Regis (Bloxworth Rectory).	Rev O.P. CambridgeFRS	8	1 6	205	41·48	165
d „ „ („ House) ...	Col. Cambridge	5	2 0	100	39·12	160
„ „ (Whitelothington) ...	G. Lys, Esq.	8	2 6	...	42·28	...
Godmanstone Manor	Captain Acland	5	1 0	320 A	50·33	200
d Maiden Newton (Cattistock Lodge)	H. Hamilton Palairret Esq	5	1 0	350	49·73	209
d Wimborne (Rowlands)	General Maclean	5	2 6	110 T	36·86	141
d Beaminster Vicarage	Rev. A. A. Leonard ...	5	1 0	216 T	46·66	197
d Blandford (Whatcombe)	J. Mansel-Pleydell, Esq.	5	0 10	270 A	43·16	187
„ St. Mary.....	Colonel Stuart	5	3 0	120 T	38·85	167
d Cerne Abbas (Melbury).....	Mr. R. Rintoul	5	1 4	500	51·24	151
d Beaminster (Chedington)	Miss Creed	5	1 6	504 A	55·21	212
d*Wimborne Minster (Chalbury)...	Rev. G. H. Billington..	5	2 0	338 A	38·09	189
Hazelbury Bryan Rectory	Rev. Canon Wheeler...	5	1 0	305 A	54·74	190
d Verwood	W. R. Fryer, Esq.....	5	3 0	...	38·81	205
d Sturminster Newton (Riverside).	A. R. Hallett, Esq. ...	5	1 0	200	35·62	167
d Gillingham	S. H. Stephens, Esq....	5	1 2	244 T	39·15	200
DEVON.						
Salcombe (Prawle Point)	The Meteor. Council ...	8	1 9	350	36·67	207
d „ (Shadycombe)	Mr. T. Langmead	8	1 2	20	40·87	172
South Huish	W. Balkwill, Esq.....	5	5 6	220 T	36·49	..
d Kingsbridge	W.H. Webb, Esq., M.D.	5	1 0	84 T	47·05	189
d Revelstoke (Membland)	Mr. G. Baker.....	5	1 0	180 T	47·56	196

DIVISION V.—SOUTH WESTERN COUNTIES—*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which ".01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
DEVON—(con.)						
D Dittisham (Chipton)	Mr. H. Bond	5	1 6	342	55.09	179
D Plymouth (The Hoe).....	H. V. Prigg, Esq., C.E.	8	0 10	117 A	42.44	217
D „ (Freedom Field)	„ „ „ „	8	0 10	208 A	44.72	205
D „ (Drake's Reservoir)...	E. Sandeman, Esq., C.E.	5	1 0	149 A	42.47	206
D*Devonport (Rowdens Res.)	H. Francis, Esq., C.E.	5	1 0	201 A	39.72	220
D Ivybridge (Langham Hill)	Miss Glanville	5	1 0	400 T	56.89	219
Plympton (Hemerdon) ... <i>garden</i>	Rev. G. L. Woolcombe	5	4 0	360	49.53	...
„ („) <i>tennis court</i>	„ „ „ „	5	1 0	365	54.50	...
Totnes (Pomeroy House)	D. A. Fraser, Esq., M.D.	5	1 6	70	54.64	121
D Paignton (The College).....	Rev. A. F. Claydon ...	5	1 0	10 ?	45.56	199
Bere Ferrers	Rev. F. T. W. Wintle.	5	1 0	100	50.95	212
Bickley (Roborough Reservoir)..	E. Sandeman, Esq., C.E.	5	1 0	550 A	52.61	218
D Torquay (Cary Green)	C. Shapley, Esq.	5	1 0	12	43.23	203
„ (Chapel Hill)	A. Chandler, Esq.....	...	...	286	43.84	224
D „ (Grey's Lodge)	Col. J. R. Currie	5	1 0	260	44.79	213
D „ (Watcombe Park)	Col. C. Ichabod Wright	5	1 0	483 A	45.62	202
†Lee Moor Clay Works	T. Martin, Esq.	8	1 6	900	69.70	...
D Buckfastleigh (Bossel Park) ...	J. Hamlyn, Esq.....	5	1 0	250	71.02	201
†Sheepstor Vicarage	Rev. C. H. Crooke.....	5	0 7	730 A	65.85	...
† „ (Red Stone)	E. Sandeman, Esq., C.E.	5	1 0	760 A	63.39	224
† „ (Head Weir)	„ „ „ „	5	1 0	690 T	66.90	218
D†Walkhampton (Lowery)	H. Francis, Esq., C.E.	5	1 0	890 T	63.05	200
†Dartmoor (Deancombe Farm) ...	E. Sandeman, Esq., C.E.	5	1 0	830 A	64.53	220
† „ (Leather Tor Farm)...	„ „ „ „	5	1 0	910 A	68.88	189
† „ (Leeden Tor)	„ „ „ „	5	1 0	1270 A	62.29	...
Abbotskerswell (Court Grange)..	Mrs. Marcus Hare	5	1 0	130 B	44.28	185
D Ashburton (Holne Vic.)	Rev. J. Gill.....	5	1 6	650	61.99	220
D† „ (Druid House)	Fabyan Amery, Esq....	5	1 0	572 T	64.26	210
D Kingsteignton (Teignbridge Ho.)	F. H. Plumptre, Esq....	5	1 2	27 A	44.13	193
Teignmouth (Bitton Street).....	W. C. Lake, Esq., M.D.	5	1 0	70	39.85	193
D „ (Woodlands).....	W. B. Harris, Esq.....	8	1 2	98 T	40.80	186
„ (Bonnicliff)	Capt. J. Horner	5	1 0	260 T	41.61	194
D†Tavistock (Public Library)	Mr. R. Westington ...	8	20 0	283 T	50.46	217
D „ (West Street)	H. A. Gibson, Esq	5	1 1	272 T	56.93	236
D „ (Rose Villa).....	E. E. Glyde, Esq.....	5	1 0	392 A	52.65	222
Princetown	The Royal Meteor. Soc.	5	1 0	1360	90.65	240
„ (North Hessary Tor)M	E. Sandeman, Esq., C.E.	5	1 0	1625	70.57	...
D†Ilsington (Middlecott House) ...	Alfred Lyon, Esq.	5	3 6	649 T	55.47	192
Princetown (Cowsic Valley)	H. Francis, Esq., C.E.	8	1 6	1352 A	90.65	..
D Chudleigh (Ideford)	Rev. G. J. Ford.....	4	1 0	300 A	44.55	211
Bovey Tracey (Little Bradley)...	Miss C. N. Phillpotts...	5	1 0	120	40.17	182
D „ „ (Colehays)	Mr. E. E. Underdown.	5	1 3	415 T	55.56	203
†Milton Abbot (Endsleigh).....	Mr. F. Yole	5	1 0	180 T	57.42	...
D Dawlish (Mamhead Rect.)	Rev. W. C. Plenderleath	5	1 0	467 A	48.52	240
D Chudleigh (Torquay Waterworks)	T. S. Weeks, Esq., C.E.	8	4 0	718 A	50.42	229
„ (Trusham)	Rev. O. H. Cary	5	1 0	322 T	43.45	204
D Budleigh Salterton (Ravenshaw)	Col. Carlile.....	6	0 6	50	36.40	176
D „ „ (Bicton) ...	Mr. Mayne	5	1 0	90	35.39	195

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell
		Diameter	Height Above Ground	Height Above Sea Level	1894	
			ft. in.	feet.	inches.	
DEVON—(con.)						
d Kenton (Southtown House)	Major Courtenay	8	2 6	56 A	40·48	178
Coryton (Lew Down)	T. M. Symons, Esq.	5	4 0	445	58·24	200
d Polapit Tamar [Launceston] ...	R. C. Coode, Esq.	5	2 9	315 A	41·16	219
d Christow (Torquay W. W.).....	T. S. Weeks, Esq., C.E. ...	8	1 0	842 A	48·92	233
d Chagford (Batworthy)	F. N. Budd, Esq.	8	1 0	1282 A	73·49	211
† Sidmouth (Sidmount)	The Royal Meteor. Soc. ...	5	1 0	149 A	39·22	251
d*Rousdon [Lyme Regis]	C. E. Peek, Esq.	5	1 0	516 A	37·15	204
* " " " " " " " " " " " "	M " " " " " " " " " " " "	3	1 0	516 A	35·39	...
d†Clevelands [Lyme Regis]	Mr. H. Munro	5	1 11	465 A	39·76	185
d Exeter (Devon & Exet. Inst.) ...	A. R. Allinson, Esq. ...	5	13 7	155 A	36·73	213
† „ (Lyndhurst Road)	Miss M. E. Clark	5	1 0	140	35·80	...
d† „ (Manston Terrace)	Miss Dymond	5	1 0	166 A	34·78	202
d†Okehampton (Oaklands)	W. H. Holley, Esq. ...	5	1 0	521 T	52·33	191
Axminster (Great Trill)	F. J. Sparks, Esq.	5	1 0	300 T	40·28	167
†Exeter (Brampfod Speke)	Miss Gamlen	5	1 0	114 T	37·50	203
" " " " " " " " " " " "	" " " " " " " " " " " "	8	0 1	113 T	37·89	...
d Honiton (Ivedon)	Col. James	5	1 0	400 T	40·13	215
Hatherleigh (Broomford Manor)	Mr. Hawking	5	1 4	484 A	48·16	182
d Culmpton	T. Turner, Esq.	5	1 0	202 A	40·42	207
d Petrockstow (Heanton Satchville)	Mr. A. Eames	5	1 0	332 T	43·66	206
d Tiverton (Broomhill).....	Mrs. Dickinson	5	1 0	380	42·45	211
d „ (St. Peter Street)	Miss Gill	5	6 0	270	40·34	216
d Otterford (Otterhead)	R. Lewis Lloyd, Esq. ...	5	1 0	735 A	45·26	235
d Witheridge (Bradford Cottage)..	Rev. J. H. Thompson..	5	1 0	600	45·31	230
d Torrington (Stevenstone)	Mr. W. Gillies	5	1 0	...	44·99	211
" (Little Silver)	S. H. Friend, Esq.	5	1 0	395	41·89	203
d Tiverton (Cove House)	Miss North Row	11	0 10	460 T	38·76	137
Backenford (Cruwyshaye)	H. C. Devon, Esq.	5	0 9	800 T	46·65	210
d Bampton (Huntsham)	Col. Troyte	8	1 0	640	51·88	234
d South Molton (Rose Ash)	late Mrs. Tanner Davy	8	0 6	766 A	44·35	188
d Hartland Abbey.....	Mr. G. Sleep	5	1 6	222 T	46·31	192
d South Molton (East Street)	N.C.Hatherly, Esq.M.D	5	1 0	430 B	49·62	225
" " (Castle Hill School)	The Royal Meteor. Soc. ...	8	1 0	363	47·88	231
d Bideford (Gammaton W. W.)....	Baldwin Latham Esq CE	5	1 0	235 A	43·49	197
*† „ (Horwood)	Rev. J. Dene	5	1 0	288 T	35·78?	210
" (St. Helen's, Northam)	Miss L. Bowles	5	0 10	67 T	40·81	239
d*† „ (Northam)	Rev. Preb. Churchward	5	1 0	173 A	40·34	201
Barnstaple Athenæum	T. Wainwright, Esq....	8	0 6	15 T	38·26	203
d „ (Pilton)	Miss Hibbert	5	1 0	73	42·72	229
d „ (Arlington Court) ...	Lady Chichester.....	5	1 1	613 B	59·48	243
d Woolacombe	E. Henshall, Esq., C.E. ...	5	1 0	60 A	36·19	200
Lynton (Parracombe)	Rev. J. F. Chanter ...	5	3 0	795 T	51·58	223
† Ilfracombe Hotel	The Royal Meteor. Soc. ...	12	9 0	35	38·07	205
" " " " " new gauge	" " " " " " " " " " " "	5	1 0	24	46·39	205
† Lynton (Lee Abbey)	C. F. Bailey, Esq.	5	0 6	320 T	40·68	...
d Lynmouth (Glenthorne)	W. Halliday, Esq.	5	0 9	93	47·71	203

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	1894	
			ft. in.	feet.	inches.	
CORNWALL.						
Land's End.....	S. Trevail, Esq.....	...	...	279	45·06	185
Penzance (Morrabs)	J. " Branwell, jun., Esq.	5	1 0	55	43·26	212
„ (Penlee)	Major Ross	5	1 6	71 T	45·97	231
„ (Trevean)	Rev. Preben. Hedgeland	5	1 0	90 B	47·43	216
D „ (St. Clare)	T. W. Field, Esq.	5	1 0	213 T	44·82	259
Marazion.....	Rev. G. B. Hooper ...	5	2 0	30 ?	42·39	193
D St. Just-in-Penwith	E. Kitto, Esq.	8	5 0	386	46·24	219
D Falmouth (New Observatory) ..	„ „	11	2 0	169 T	47·74	219
St. Ives (Phillack Rectory)	„ „	8	1 9	169 T	48·10	216
„ „	Rev. Canon Hockin ...	5	1 0	70	41·46	199
„ „	J. M. Nicholls, Esq.	5	4 0	25	45·82	201
D Redruth (Trevince)	E. B. Beauchamp, Esq.	8	0 8	240 T	47·25	207
D „ (Trewirgie)	A. H. Jenkin, Esq.	5	1 0	400 T	49·27	228
D „ (Tehidy Park)	Mr. A. Mitchell.....	8	1 1	287 T	47·52	221
Truro (Killiow)	J. C. Daubre, Esq.....	5	1 0	230	46·93	...
D „ (St. Michael Penkevil).....	Rev. A. R. Tomlinson..	5	3 0	120 T	44·39	...
† „ (Royal Institution).....	R. A. Greg, Esq.	5	40 0	56 T	44·13	204
D Probus (Lamellyn).....	H. Tresawna, Esq.....	5	0 6	...	46·57	181
St. Agnes	Mr. Opie	5	1 3	278 B	42·08	172
D†*St Austell (Trevarna).....	W. Coode, Esq.	5	0 6	300 T	51·16	225
Par Station (Penellick).....	W. E. Geach, Esq.	5	0 9	240 T	35·03	...
Empacombe [Devonport]	J. Sandercock, Esq.	5	0 6	20	42·82	214
D Cremyll [„]	Mr. W. E. Marchant... ..	5	20 0	25	40·75	219
D St. John's [„]	Rev. J. H. Kirwan.....	5	1 0	20	46·64	211
D Lostwithiel (Lanwithan)	Miss Foster.....	10	1 0	80	47·60	210
D Newquay	A. Hardwick, Esq., M.D. ..	5	1 0	130	39·87	216
D†Liskeard (Dean Terrace)	S. W. Jenkin, Esq., C.E. ..	5	1 1	375 T	53·78	222
D†Saltash (Pentillie Castle)	Mr. W. T. Johnson ...	5	2 4	150 B	57·33	218
D†Bodmin (Lanhydrock)	Rev. Prebendary Every ..	5	1 0	390	53·30	249
Liskeard (St. Cleer Down)	S. W. Jenkin, Esq.	5	1 1	620	45·62	...
Callington (Hingston Down) ..	Mr. Wadge.....	5	3 0	850 T	58·89	221
†Launceston (Altarnon)	Rev. A. H. Malan	5	1 0	570 B	65·72	220
„	Captain L. Ching	5	0 10	446	49·46	183
North Tamerton (Ogbeare)	Mr. J. S. Bray	5	4 0	460	47·26	208
Bude	J. Arthur, Esq.	5	1 0	16 B	40·14	...
D Stratton (Trelana, Poughill) ..	Col. Field	5	1 0	200 T	42·71	227
SOMERSET.						
Chard (Cricket St. Thomas)	RtHn. Viscount Bridport ..	5	1 0	444	49·11	171
D Crewkerne (Bincombe House) ...	F. J. Sparks, Esq.	5	1 2	250 T	43·70	169
D Yeovil (West Coker).....	Major Aldworth.....	5	1 0	260 T	43·07	238
D „ (Hendford)	J. Curtis, Esq.	5	1 0	132 T	41·88	178
„ (Gas Works)	E. Howell, Esq.....	5	1 0	110 T	38·79	181
D Ilminster (White Lackington) ...	Rev. Prebendry Gowing ..	5	1 0	136 T	39·12	205
D „ (Ilton Vicarage).....	Rev. R. B. Poole	5	1 0	100 T	34·46	220
D South Petherton (Bridge)	W. Blake, Esq.	8	0 8	110 T	36·18	188

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

STATIONS	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which -01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
SOMERSET—(con.)						
Taunton (Blagdon Hill)	H. T. Coles, Esq.	8	...	...	38·93	...
„ (Leigh Hill)	„ „ „ „	8	...	...	40·13	...
D Wellington (Sunnyside)	W. Elworthy, Esq. ...	5	1 0	...	38·52	211
D „ (Windwhistle House)	Mrs. Lyndon	5	0 8	300 T	37·97	207
D „ (The Avenue)	F. J. Burnett, Esq. ...	5	0 10	220 P	36·25	202
Sandford Orcas Rectory	Rev. W. Esdaile	5	1 0	200	37·83	148
D Temple Combe (Stowell Rect.)...	Rev. H. J. Poole	8	1 0	376 T	40·40	232
D Taunton (Claremont)	E. Ball, Esq.	8	1 2	80 T	32·41	203
„	The Royal Meteor. Soc.	5	1 0	80	32·05	190
D „ (Norton Fitzwarren) ...	H. Ruddle, Esq.	5	1 0	140	34·79	168
Langport (Huish Episcopi)	J. Kelway, Junr., Esq.	8	1 0	74 T	30·38	154
D Milverton (The Lodge)	R. Bere, Esq.	5	1 0	198	38·40	211
D Taunton (The Mount, Halse) ...	Miss Smith	5	1 1	254	36·83	235
D „ (The Priory, Ash Priors) ..	R. E. Jackson, Esq. ...	5	1 0	...	34·39	203
D Wincanton	Rev. Walter Farrer ...	8	1 0	240	39·51	212
Cothelston House	C. E. J. Esdaile, Esq. ...	5	1 0	430	41·04	204
D Somerton (Butleigh Court)	R. Neville Grenville Esq.	8	1 2	80	37·64	173
Glastonbury (Street)	W. S. Clark, Esq.	8	1 0	100	34·71	209
„ (High Street)	J. Spire, Esq.	8	7 0	94 T	34·82	204
D „ (Ynyswytryn)	Major Swayne	5	1 8	245 T	35·56	195
D „ (Magdalene House)	J. G. L. Bulleid, Esq. ..	5	1 6	52 T	34·77	197
Bridgwater (Nurseries)	H. Corder, Esq.	5	1 0	...	35·89	190
D „ (Ashford)	F. Parr, Esq. ....	...	...	...	36·36	200
D Dunster (Knowle)	Worsley Battersby, Esq.	5	1 4	269 T	40·69	199
D Cranmore (Cranmore Hall)	Sir R. H. Paget, Bt., M.P.	8	1 0	600	49·90	228
D Wells	R. J. Manning, Esq. ...	5	44 0	181 T	40·12	209
D „ (Garden)	„ „ „ „	5	1 3	139 T	40·59	209
D Frome (Mells Rectory)	Mrs. Horner	5	1 0	344 T	46·17	218
Radstock (Downside College) ...	Rev. O. J. Berkeley ...	8	1 0	596 T	46·30	201
D Brent Knoll	Rev. M. Alford	5	1 0	21	35·45	204
Chewton Mendip (The Priory) ...	Mr. J. Batt	5	1 5	550 T	52·39	219
Ston Easton	H. E. Hippisley, Esq. ...	5	3 0	480 T	42·92	210
E. Harptree (Sherborne Reservoir)	Bristol Water Works...	5	1 0	338 T	44·90	207
D „ (Harptree Court) ...	W. W. Kettlewell, Esq.	5	1 0	346 T	48·80	209
Axbridge (Loxton)	F. G. Tiarks, Esq.	8	1 0	120	41·88	212
„ (Winscombe)	Rev. R. F. Follett	8	1 0	200 T	40·09	160
Radstock (Paulton House)	H. L. L. Macdonald, Esq.	5	1 0	384 T	41·56	198
„ (High Littleton)	A. M. Foster, Esq.	5	0 10	442 T	40·26	211
D Pensford (Sutton Court)	Sir E. Strachey, Bt. ...	8	1 0	...	42·15	211
Weston-super-Mare (High St.) ..	The Royal Meteor. Soc.	5	1 0	20	35·02	187
D „ „ „ (Worle Vic.)	Rev. W. F. Rose	5	1 0	16	38·43	213
Wrington (The Rectory)	Rev. G. M. Ashdown...	5	5 0	68	44·48	...
D „ (West Hay)	Gen. Harrison	5	2 0	95	40·31	199
Chew Magna	Bristol Water Works...	5	1 0	160 T	43·33	206
D Bath (Royal Institution) ...	W. J. Helps, Esq.	6	8 0	75	35·87	176
D „ (Ensleigh, Lansdowne)	C. H. Weston, Esq. ...	8	1 0	740 T	39·66	216
„ (Charlcombe)	C. Gilby, Esq., C.E. ...	8	2 0	325 T	36·61	201
D Batheaston	Col. Linley Blathwayt.	5	1 0	166 T	35·62	204

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which ".01 or more fell.
		Diameter.	Height Above Ground.		Height Above Sea Level	
			ft.	in.	feet.	inches.
SOMERSET—(con.)						
d Batheaston Reservoir.....	C. Gilby, Esq., C.E. ...	6	2	0	248 ∇	33.61 221
Yatton (Chelvey)	Bristol Water Works...	7	0	6	...	38.94 187
Barrow Gurney Reservoir	" " " "	5	1	0	320 ∇	43.47 206
d Long Ashton Estate Office	T. Dyke, Esq.	8	1	0	134	41.48 205
d Flax Bourton (Tyntesfield)	A. Gibbs, Esq.	5	1	7	320 ∇	38.30 215
d Clevedon (Pembroke Villa)	E. Sturge, Esq.	5	2	0	90 ∇	38.59 219
" (Water Works).....	E. Button, Esq. ....	...	...	...	26	37.63 ...
Abbots Leigh	H. R. Miles, Esq.	5	1	0	333 ∇	45.05 195
d Failand House [Bristol]	Miss Fry	12	2	10	...	38.79 204

DIVISION VI.—WEST MIDLAND COUNTIES.

GLOUCESTER.

Monkswood Reservoir [Bath] ...	C. Gilby, Esq., C.E. ...	6	2	0	363	37.29 218
d Bristol Docks (Underfall Yard)...	J.M. McCurrah, Esq., CE	8	19	6	45	37.26 205
" (Small Street)	Bristol Water Works...	12	33	10	52	36.72 188
d Clifton (Royal York Crescent)...	Miss Bridge	5	8	2	226 ∇	41.37 217
d " (Cecil Road)	Miss Hooper	5	1	5	230	41.61 214
d " (Pembroke Road)	R. F. Sturge, Esq. ...	8	1	0	215	41.26 200
d " (College)	D. Rintoul, Esq.	8	1	2	230	41.52 200
" " " "	" " " "	8	1	3	230 ∇	40.90 ...
d Bristol (Montpelier)	J. Harvey Jones, Esq..	5	1	0	93 ∇	40.58 199
" (Redland Green)	T. D. Sibly, Esq.	5	1	3	282	41.04 214
d " (The Grove, Fishponds)...	H. H. Harding, Esq....	5	1	0	160 ∇	39.06 224
" (Cote House)	H. St. V. Ames, Esq...	8	1	3	243 ∇	41.99 ...
Pucklechurch	Rev. S. G. Gillum.....	5	0	10	370 ∇	36.90 206
d Filton	F. W. Gayner, Esq. ...	5	1	0	266	37.11 196
d ChippingSodbury(FramptonCotl)	J. Marsh, Esq.	5	1	0	180 ∇	37.22 203
d " " (StanshawesCt)	R. N. Hooper, Esq. ...	5	1	3	280 ∇	37.51 207
d " " (Ridge House)...	Mrs. Burges	5	1	4	357 ∇	37.11 203
d Bristol (Over Court Park)	R. C. C. Lippincott, Esq.	5	0	9	147	40.68 214
d " " " " Garden).....	" " " "	8	1	0	137	39.13 214
d Almondsbury	Rev. C. O. Miles.....	5	2	0	144	36.53 206
d Wickwar Rectory	Rev. R. J. Lyon ...	5	2	0	260 ∇	37.48 205
d Thornbury (Prospect House).....	T. H. Taylor, Esq.....	5	2	3	150 ∇	42.10 ...
Alderley	Gen. Hale	5	1	0	300 ∇	40.73 ...
Tortworth Court	Mr. T. Shingles	8	1	0	264	37.75 196
Tutshill [Chepstow]	E. J. Lowe, Esq., F.R.S.	...	...	...	195	41.49 ...
Wirewood Green [Chepstow] ...	" " " " .....	...	...	...	220	47.50 ...
d Dennel Hill [Chepstow]	Mr. Clutson	8	1	0	573 ∇	42.95 189
d Fairford (Kempsford)	A. T. Iles, Esq.	5	1	0	...	29.81 180
d " (Horcott).....	R. A. Iles, Esq.	5	0	8	...	29.24 161
d Berkeley (Castle Gardens)	Mr. R. Shore	5	1	6	60	35.71 205
d " (Sharpness New Docks)	F. A. Jones, Esq., C.E.	8	3	9	50	34.39 180
d Lechlade	T. Arkell, Esq.	5	0	9	253	30.80 174
d Amberley (Highlands)	Mrs. Blackwell	8	0	10	550 ∇	37.82 179
d Lydney (Clanna)	Capt. Marling.....	5	1	0	260	41.79 195

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which "01 or more fell
		Diameter	Height above Ground.	Height above Sea Level		
			ft. in.	feet.	inches.	
GLOUCESTER—(con.)						
Lydney	G. W. Keeling, Esq., C.E.	10	5 0	87 ∇	33·48?	147
D „ (Priors Mesne)	H. Cook, Esq., M.D. ...	5	1 6	500 ∇	42·29	205
D Cirencester (Claremont Place) ...	R. Gorton, Esq.	8	1 0	356 ∇	35·39	200
„ { „ „ }	„ „ „	8	2 0	357 ∇	35·55	200
„ { „ „ }	„ „ „	8	0 6	356 ∇	35·89	200
„ { „ „ }	„ „ „	8	11 0	366 ∇	32·97	200
D „ (Royal Agricultural Coll.) ..	C. C. Duncan, Esq. ...	5	1 0	443 ∇	35·24	192
D „ (Further Barton)	Miss Brown	5	1 0	425	37·51	207
D Stroud (Stanley Park) ...	W. J. Paley Marling, Esq.	8	1 0	365	34·30	189
D „ (The Acre)	P. Witchell, Esq.	5	1 0	300	31·68	186
D „ (Upfield)	Miss Stanton	5	1 0	226 ∇	32·51	214
D Fairford (Hatherop Rectory) ...	Rev. R. P. Davies	8	1 3	411 ∇	29·79	179
D Whitminster	F. A. Jones, Esq., C.E.	5	1 0	32	33·98	192
Haresfield Court	Mr. S. Pearce	5	1 0	100	32·54	180
D Coleford (The Coombs)	I. Trotter, Esq.	5	1 0	660	47·52	234
Newnham-on-Severn	D. J. Wintle, Esq.	5	1 3	56 ∇	41·04	...
D Gloucester (Staunton Rectory) ...	Mrs. Jay Jones	5	0 8	726 ∇	41·00	215
D Westbury-on-Severn (Chaxhill). ..	H. S. Grant, Esq.	5	1 0	120 ∇	34·61	187
D Great Barrington	H. J. Barrett, Esq. ...	5	1 6	430 ∇	31·97	162
Northleach (Yanworth)	T. Arkell, Esq.	5	1 0	...	32·66	162
„ (Sherborne House) ..	Mr. Scott	5	1 0	405	32·87	169
Gloucester (Quedgeley House) ..	W. G. Robinson, Esq..	5	1 0	65 ∇	31·01	196
D „ (Birdlip Hill)	A. S. Helps, Esq.	5	1 0	800 ∇	31·70	199
„ (Witcombe Res.)	R. Read, Esq., C.E. ...	8	3 0	297 ∇	31·01	180
D Mitcheldean (Blaisdon) ..	P. Stubs, Esq.	5	1 0	117 ∇	35·09	203
„ („)	M „ „ „	5	1 0	117 ∇	34·98	...
D Gloucester (Hempsted)	F. A. Jones, Esq., C.E.	5	1 6	70 ∇	31·20	206
D „ (Llanthony Lock) ...	E. D. Marten, Esq., C.E.	5	1 2	39 ∇	28·16	170
D „ (Lower Barton Street) ..	W. P. Brown, Esq. ...	5	1 0	65 ∇	29·69	175
D „ (Churcham)	L. H. Hall, Esq.	5	2 1	90	31·05	160
D „ (Wotton Asylum)	Dr Johnson	8	0 9	90 ∇	29·71	189
D Cheltenham (Dowdeswell)	J. Hall, Esq., C.E.	5	1 0	357	32·94	174
D† Gloucester (Maisemore Lock) ...	E. D. Marten, Esq., C.E.	5	1 1	39 ∇	28·14	195
D Bourton-on-the-Water	E. W. Kendall, Esq. ...	5	1 0	434 ∇	31·94	181
D Cheltenham (Battledown)	Sir Brook Kay, Bt. ...	5	0 8	393 ∇	29·04	185
D „ (Northfield)	J. Hall, Esq., C.E.	8	5 0	637 ∇	27·24	183
D „ (Hewletts Res.) ...	„ „ „	8	1 6	419 ∇	30·11	184
D „ (Sandford)	„ „ „	5	2 8	210	28·37	183
D „ (Naunton Pk. Villas) ..	M. Llewellyn Evans Esq.	5	0 9	240	29·60	211
D „ (Heath Lodge) ...	Rev. M. A. Smelt	8	1 0	206	29·00	203
D „ (Southam Villa) ..	R. Tyrer, Esq.	5	1 0	184 ∇	29·12	194
„ („ „) M	„ „ „	5	1 0	184 ∇	27·82	...
D Moreton-in-Marsh (Longbro) new	W. Arkell, Esq.	5	1 0	...	31·31	175
D† Tewkesbury (Upper Lode)	E. D. Marten, Esq., C.E.	5	1 0	41 ∇	28·74	154
D „	J. Hall, Esq., C.E.	5	0 10	47	24·67	146
D „ (Beckford)	F. Slade, Esq., C.E. ...	8	1 0	120 ∇	25·28	184

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
HEREFORD.						
d Ross (Croome Hall)	W. E. Hancock, Esq. ...	8	2 0	284 π	32·64	183
d† „ (The Graig)	H. Southall, Esq.	5	1 0	213 π	32·63	212
Upton Bishop (The Baches).....	W. Hogarth, Esq.	5	1 0	...	29·29	...
Ross (Perrystone Court)	Mr. T. Greenway ...	5	1 3	...	29·88	158
Much Dewchurch (Bryngwyn)...	J. Rankin, Esq., M.P.	5	0 9	416 \uparrow	35·98	210
d Much Marcle (Homme House) ...	Mr. J. Maxton	5	0 11	280 \uparrow	29·51	207
d „ „ (Caerswall)	T. Charles, Esq.	5	1 0	423 B	31·33	179
d Fownhope (Morney Cross)	O. E. Cresswell, Esq. ...	5	1 5	...	26·61	167
d Ledbury (Orchardleigh)	M. A. Wood, Esq.	5	3 0	160	27·41	173
„ (Underdown)	S. H. Bickham, Esq. ...	5	1 0	307 π	28·75	193
„ („)	M. „ „ „ „	5	1 0	306 π	28·12	...
„ (Putley Court)	J. Riley, Esq.	5	1 0	290	29·88	183
Hereford (Bullinghope)	Rev. Preb. Elliot	5	1 0	...	29·17	165
d „ (Breinton Court).....	H. A. Wadworth, Esq.	5	1 0	238	31·17	191
„ (Hampton Bishop)	E. Anthony, junr., Esq.	8	2 0	184	33·59	178
d „ „	Rev. Canon Phillott ...	5	1 1	182	28·02	163
d „ (St. Michael's Priory) ..	Rev. J. O. Smith	8	1 0	291 π	32·59	215
d Ledbury (Canon Frome Vic.) ...	Rev. M. Hopton	8	1 3	252 \uparrow	28·79	184
Hereford (Burghill)	No. 3 T.A. Chapman, Esq. M.D	5	1 0	275	29·67	193
d „ („)	No. 4 „ „ „ „	5	1 0	275	29·17	193
Bodenham Vicarage	Rev. H. C. Sturges ...	5	0 9	240	29·99	...
d Hope-u-Dinmore (Hampton Ct.)	J. H. Arkwright, Esq..	8	1 2	212 B	29·23	184
d Weobley (Dilwyn)	T. L. Hall, Esq., M.D.	5	0 8	290 \uparrow	30·80	203
d Kington (Lynhales)	S. Robinson, Esq.	8	1 0	...	39·74	219
d Pembridge (Marston)	H. Langston, Esq.	5	1 5	347 π	34·84	197
d Bromyard (Buckenhill).....	R. Phipps, Esq.	8	1 9	...	31·86	167
d Leominster (Farm)	Mrs. Southall	5	1 6	268	35·33	200
d Stoke Bliss	Rev. G. E. Alexander..	5	1 0	420 \uparrow	33·04	188
SHROPSHIRE.						
d Ludlow (Ashford)	Rev. J. Selwood Tanner	5	1 2	265 \uparrow	31·67	191
d „ („ House)	W. Downes Hall, Esq.	5	0 5	315 \uparrow	35·27	231
Cleobury Mortimer (The College)	J. Davis, Esq.	5	1 6	440 \uparrow	29·98	...
d Bromfield (Priors Halton).....	Miss Beddoes	5	1 0	300	35·15	237
d „ Vicarage	Rev. W. Selwyn	5	1 0	300 \uparrow	35·43	220
Dowles [Bewdley]	J. M. Downing, Esq..	5	1 3	162 π	26·20	148
Cleobury Mortimer (Neen Savage)	Rev. F. Burd	5	0 11	367 \uparrow	31·63	196
Clun (Bettws)	Mr. R. F. Brand	5	2 0	1150 \uparrow	38·11	...
Craven Arms (Stokesay Vicarage)	Miss La Touche	5	1 0	371 π	31·96	189
d Burwarton	Rev. A. James	5	1 0	830	34·35	218
Bridgnorth (Coton Hall)	Col. Wakeman	3	3 0	460 \uparrow	27·92	164
Bishop's Castle (Totterton)	W. H. Whitaker, Esq.	5	0 7	...	34·99	...
„ „ (Castle Street)	E. Griffiths, Esq.	5	2 0	720 B	32·80	210
d Much Wenlock (Larden Hall) ...	Miss F. Rouse Boughton	8	1 3	658 π	30·12	197
d Church Stretton (Burway Ho.)...	H. Barnett, Esq., M.D.	5	1 0	640	35·21	223
d Bridgnorth (Aldenham Park) ...	W. F. De Wend, Esq..	5	3 0	430 \uparrow	28·24	170
Church Stretton (Preen Manor)...	A. Sparrow, Esq.	5	7 0	700 \uparrow	29·90	187
d „ „ (Woolstaston)...	Rev. E. D. Carr.	5	1 0	800 π	34·00	214

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which -01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
SHROPSHIRE—(con.)						
D Middleton in Chirbury	Rev. W. Brewster.....	5	1 2	702 A	29·38	233
D Much Wenlock (Willey Park)...	Rt. Hon. Lord Forester	5	1 0	502 A	28·64	194
Minsterley (Hampton Hall)	J. Whitaker, Esq.....	...	1 0	630 T	29·71	...
D „ (Wallop)	J. E. Severne, Esq. ...	8	1 3	700 T	34·58	208
D Pontesbury (The Villa).....	Mr. W. R. Croft	5	1 6	350 T	24·56	153
Shifnal (Neachley).....	Hon. F. Bridgeman ...	5	1 6	280 T	27·13	202
D „ (Haughton Hall).....	J. T. Brooke, Esq.	5	3 0	355	28·07	217
D Wem (The Clive Vic.)	Rev. J. Cooper Wood...	5	1 0	299 A	27·92	236
D Cheswardine (Knighton Res.) ...	G. R. Jebb, Esq., C.E.	8	0 3	351 A	27·26	215
Oswestry (Hengoed)	late Rev. A. R. Lloyd..	5	6 0	470 A	34·77	...
Market Drayton (Buntingsdale).	Mrs. Tayleur	5	1 0	276 A	25·68	...
Ellesmere (Oteley).....	Mr. Pearse	8	1 8	292	29·47	219
D Adderley Rectory	Rev. A. Corbet	5	0 9	290 T	24·74	204
STAFFORD.						
Dennis [Stourbridge]	E.B. Marten, Esq., C.E.	8	6 6	270 B	26·09	202
D Netherton (Lodge Farm Res.) ...	G. R. Jebb, Esq., C.E..	5	1 0	445 A	25·85	195
D Dudley (Shavers End)	H. A. Hill, Esq., C.E..	5	1 0	770 T	24·40	191
Handsworth	A. E. Ellis, Esq.	5	1 0	440	27·59	176
D Perry Hall [Birmingham]	Mr. G. B. Mitchison ...	5	2 6	343 A	28·84	238
D West Bromwich.....	J. T. Eayrs, Esq., C.E.	8	4 6	547 T	24·95	156
Walsall	E. B. Marten, Esq., C.E.	8	4 0	463 A	28·02	216
D „ Sewage Farm	R. H. Middleton, Esq. CE	8	0 11	376 A	21·83	159
Wolverhampton (Town Hall) ...	REW Berrington Esq CE	5	15 6	481 A	26·28	196
„ Park	Mr. W. Thomas	5	4 0	400 A	28·17	210
D „ (Wrottesley) ..	Mr. E. Simpson	8	1 0	500	23·88	167
D Bloxwich (Sneyd Res.)	G. R. Jebb, Esq., C.E..	5	1 0	507 A	24·28	170
D Hammerwich (Cannock Chase Res)	„ „ „	5	1 0	475 A	24·06	184
D Weston Park [Shifnal].....	Rt. Hon. Earl of Bradford	5	1 6	400 T	25·42	192
D Brewood (Belvide Res.)	G. R. Jebb, Esq., C.E.	8	1 0	367 A	24·32	138
D Penkridge (Rodbaston)	H. Ward, Esq.	5	1 0	324 A	24·24	160
D Hednesford.....	H. A. Hill, Esq., C.E..	5	1 0	770 A	22·34	185
Alrewas	E. Sellick, Esq.....	5	1 6	181 T	22·71	151
D Burton (Rangemoor).....	Mr. Bennett	5	5 6	424 T	23·77	214
D „ (Shobnall)	Messrs. Bass & Co. ...	5	5 0	156 T	20·43	149
D „ (Derby Road).....	J. G. Wells, Esq.	5	1 0	151 T	22·10	204
D „ (Hoar Cross)	F. W. Lycett, Esq. ...	8	4 0	400 T	25·11	188
D Salt Vicarage.....	Rev. S. W. Jones	8	0 8	266	27·67	196
D Uttoxeter (Brook House)	Mr. J. J. Gibbons	5	1 0	283 A	28·76	222
D Market Drayton (Old Springs)...	F. E. Harding, Esq. ...	5	0 8	422	27·50	224
D† Cheadle (The Heath House).....	J. C. Philips, Esq.....	5	1 0	647 A	27·20	191
D† „ (Tean Vicarage)	Rev. G. T. Ryves	5	1 1	470 T	28·03	207
D Longton (The Meir)	J. B. Piercy, Esq.....	5	1 0	618 A	27·35	197
D Newcastle (Madeley).....	„ „ „	5	1 0	348 A	26·21	196
D Stoke (Hartshill)	J. Knight, Esq.	5	1 0	485 A	27·64	199
„ (Stanley Reservoir).....	E. B. Smith, Esq., C.E.	5	3 1	550 T	23·48	140
Etruria	„ „ „ „	5	4 2	440	23·37	...

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	1894	
			ft. in.	feet.	inches.	
STAFFORD—(con.)						
Leek (Wall Grange)	J. B. Piercy, Esq.	5	1 0	458 ∇	31·98	191
Knypersley [Congleton]	E. B. Smith, Esq., C.E.	5	14 0	500 ∇	31·34	168
Leek (Rudyard)	" " "	5	12 7	500 ∇	37·50	191
WORCESTER.						
Northwick Park	Lady Northwick	8	1 6	410 ∇	27·17	...
Upton-on-Severn (Willow Bank)	J. S. Cowley, Esq.	5	1 3	...	26·54	161
Evesham (Lansdowne)	R. Burlingham, Esq.	5	5 0	108 ∇	23·91	139
" (The Drift)	late T. J. Slatter, Esq.	5	1 0	194 ∇	24·69	200
†Great Malvern (Church Street) ..	J. E. Palmer, Esq.	5	1 0	361 ∇	31·32	154
†" " (Belle Vue House)	A. Mander, Esq.	5	4 0	520	32·33	194
†" " (Madresfield Rect.)	Rev. G. S. Munn	5	1 4	124 ∇	28·18	192
†" " (" Court)	Mr. W. Crump	8	2 6	135 ∇	27·38	172
Worcester (Fort Royal)	Dr. Swete	5	5 0	135 ∇	25·11	149
†" (Diglis Lock)	E. D. Marten, Esq., C.E.	5	1 0	49 ∇	25·01	181
" (Belmont Road)	G. B. Wetherall, Esq. ..	5	1 6	175	25·30	183
" (Water Works)	T. Caink, Esq., C.E. ...	5	0 8	52 ∇	23·23	191
†" (Bevere Lock)	E. D. Marten, Esq., C.E.	5	1 1	52 ∇	27·16	185
" (Hawford Lodge)	F. Ames, Esq.	5	1 1	70	31·00	171
†Droitwich (Holt Lock)	E. D. Marten, Esq., C.E.	5	1 1	55 ∇	26·97	170
"	B. Godfrey, Esq., C.E.	5	4 0	161 ∇	28·35	181
†Tenbury (Orleton)	No. 2 T. H. N. Davis, Esq. ...	5	0 9	193 ∇	32·85	188
" " "	No. 1 " " "	5	0 9	193 ∇	32·67	188
" " "	No. 3 " " "	5	0 9	193 ∇	32·80	188
Redditch (Prospect Hill)	H. Page, Esq., M.D.	5	1 0	425 ∇	28·82	211
Bromsgrove (Stoke Reformatory) ..	Mr. J. Salter	5	5 0	225 ∇	22·71?	169
" (Tardebigge Res.)	F. A. Jones, Esq. C.E.	5	3 0	433 ∇	28·50	199
†Stourport (Lincombe Lock)	E. D. Marten, Esq., C.E.	5	1 0	62 ∇	27·57	179
Bromsgrove (Lower Bittal Res.) ..	F. A. Jones, Esq. C.E.	5	3 0	430 ∇	29·61	202
Bewdley (Winterdyne Gardens) ..	Mr. W. Wrather	8	2 0	...	28·86	165
Kidderminster (Woodfield)	Rev. J. R. Burton	5	3 0	167	26·72	163
" (Prospect Hill)	Mr. J. T. Cowderoy ...	...	1 0	161 ∇	23·94	179
Stourbridge (Pedmore)	E. B. Marten, Esq., C.E.	8	0 11	350 ∇	28·19	208
" (Longlands) .....	" " " .....	...	...	...	26·53	180
Northfield (Longbridge)	Mrs. Impey	6	0 9	560	30·76	184
King's Heath [Birmingham] ..	R. Godfrey, Esq., C.E..	5	8 0	523 ∇	34·70	174
Selly Oak (The Dell)	G. F. Lyndon, Esq. ...	5	1 0	485 ∇	28·38	197
Moseley (Woodstock Road)	C. J. Fowler, Esq.	5	2 4	440 ∇	28·77	198
Dudley (Trindle House)	E. B. Marten, Esq., C.E.	8	1 0	575	27·41	178
WARWICK.						
Long Compton (Weston Park) ..	H. A. Warriner, Esq. ...	8	3 0	510 ∇	26·56	170
Shipston (Compton Wynyates) ..	J. Sargent, Esq.	5	2 6	480	25·90	202
Radway (Ivy Lodge)	Rev. G. Miller	5	1 1	400 ∇	29·00	228
Farnborough Vicarage	Miss Prater	5	1 0	520 ∇	31·59	202
Kineton (Fenny Compton)	Miss Knott	5	4 0	436	24·87	...
Stratford-on-Avon (Guild Street) ..	Rev. F. Smith	12	4 0	135 ∇	23·60	186
Alcester (Ragley Hall)	The Marquis of Hertford	5	1 0	260 ∇	26·31	179

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	1894	
			ft. in.	feet.	inches.	
WARWICK—(con.)						
D Alcester (Ragley Gardens)	Mr. A. Christie	5	1 0	150 T	27.08	200
D Snitterfield	A. H. Campbell, Esq., C.E.	5	3 0	304 T	25.26	157
D Warwick (Barford Rectory)	Rev. C. Mills	8	0 11	167 T	25.18	200
Southam	E. Turner, Esq.	5	1 0	304	27.68	...
Leamington (The Parade)	J. Barnitt, Esq.	5	4 8	195 T	25.29	178
Henley-in-Arden (Barrells Park)	T. H. G. Newton, Esq.	5	1 0	318 T	24.84	181
Warwick (Hatton Vicarage) ...	Rev. H. Trethewy	5	0 6	384 T	29.64	165
Milverton (Latmos)	Rev. E. Healy	5	1 2	191 T	26.72	...
D Kenilworth (Park Hill)	T. G. Hawley, Esq. ...	8	0 8	300	26.87	...
D „ (The Spring)	W. Evans, Esq.	5	1 0	312 T	25.94	201
D Rugby (Temple Observatory) ...	H. P. Highton, Esq. ...	5	1 3	383 T	26.85	196
D Coventry (Ryton on Dunsmore) ..	Mr. Franklin	5	1 2	261 T	26.41	205
„ (City Hospital)	Dr. Fenton	8	1 0	266 T	25.68	220
„ (Priory Row)	J. Gulson, Esq.	8	1 3	279 T	26.23	191
„ (Stoke)	„ „ „	8	1 3	241	27.51	194
D „ (Coundon)	Colonel Caldicott	8	1 11	375 T	29.50	194
D Solihull (Blossomfield)	B. Boothroyd, Esq. ...	5	1 0	460 T	29.02	223
D Birmingham (Sheldon Rectory) ..	Mrs. Jones Bateman ...	8	1 0	323	29.82	180
D „ (Sparkbrook)	F. O. Lane, Esq.	5	4 6	414 T	26.98	199
D „ (Edgbaston)	A. Cresswell, Esq.	8	1 0	526	25.54	187
D† „ (Botanic Gardens) ..	Mr. Latham	5	5 2	505 T	25.70	201
D „ (The Crescent)	J. J. Gilbert, Esq.	5	21 0	495 T	24.78	174
„ („ „) ...M	„ „ „	5	7 0	480 T	26.13	...
D Bedworth Cemetery	Mr. D. Bosworth	5	1 0	385 T	25.20	168
D Castle Bromwich Hall	Mr. G. Allcock	5	1 2	363 T	29.87	193
Nuneaton (Caldecot Hall)	H. Townshend, Esq. ...	8	1 3	...	22.32	146
D Sutton Coldfield	C. F. Marston, Esq., C.E.	5	1 0	366 T	28.46	174

DIVISION VII.—NORTH MIDLAND COUNTIES.

LEICESTER.

Fleckney	J. B. Putt, Esq.	5	1 0	411 T	25.59	...
D† Kibworth Beauchamp	T. Macaulay, Esq.	5	2 6	355 T	22.89	179
Hallaton Hall	Mr. E. Huggard	8	1 3	...	23.61	...
D Leicester (Town Hall Square) ...	E. G. Mawbey, Esq., C.E.	9	1 7	212 T	18.56	166
D „ („ „)	„ „ „	5	0 6	211 T	18.84	171
„ (Humberstone Asylum)	J. E. M. Finch, Esq., M.D.	8	1 0	244 T	20.19	226
D† Thornton Reservoir	F. Griffith, Esq., C.E..	8	1 2	371 T	23.21	181
D Barkby	Rev. E. N. Pochin	8	0 10	221 T	21.55	207
D Thurstaston Rectory	Rev. T. A. Preston ...	5	1 0	253 T	18.96	161
D „ (Cropston)	F. Griffith, Esq., C.E..	8	1 0	246 T	23.72	195
Swithland (The Brand)	„ „ „	8	1 0	...	21.82	172
„ (Broombriggs Hill) ..	„ „ „	8	1 0	...	19.89	171
D Ratcliffe College	Rev. J. Hirst	5	1 0	288 T	19.69	147
D Rotherby Hall	J. Hames, Esq.	5	1 0	240 T	20.17	220

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	1894	
			ft. in.	feet.	inches.	
LEICESTER—(con.)						
Ashby-de-la-Zouch (Cole Orton)	Rev. Canon Beaumont.	5	1 6	480	23·39	...
d Loughborough (Nan Pantan Res.)	A. W. Cross, Esq., C.E.	8	2 11	269 A	21·99	175
„ { „ „ „) M	„ „ „ „ „	8	2 0	269 A	22·18	...
„ { „ „ „)	E. H. Warner, Esq. „	5	1 0	420	22·76	...
d „ (Forest Road) „	W. Berridge, Esq., C.E.	5	0 9	147 A	21·08	188
„ { „ „ „)	„ „ „ „ „	8	1 0	147 A	21·02	188
d Waltham-le-Wolds	Mr. Higgins	5	1 0	568	23·26	212
d† Belvoir Castle	W. H. Divers, Esq. „	8	1 0	237 T	27·02	249
d Bottesford	late Rev. R. M. Norman	8	0 8	100	20·69	133
RUTLAND.						
d Uppingham (West Deyne)	Rev. G. H. Mullins „	8	2 0	485 A	21·78	196
d Ketton Hall [Stamford]	F. Coventry, Esq.	5	1 0	130 B	22·51	219
d „ (The Holmes)	„ „ „ „ „	5	1 0	160	22·06	202
d Tolethorpe Hall [Stamford]	C. O. Eaton, Esq.	8	0 8	160 T	20·17	159
Burley-on-the-Hill	Mr. W. Temple	8	1 0	506	24·15	163
d Market Overton	Miss Grace Wingfield...	8	0 11	475 T	26·01	221
LINCOLN.						
d Stamford (Colly Weston Road)..	Baldwin Latham Esq CE	5	1 0	...	20·44	181
d Market Deeping (Wilsthorpe) ...	J. C. Gill, Esq., C.E.	8	3 10	55 A	21·24	185
d Bourne (Wytham-on-the-Hill) ..	Mr. E. Cooling	6	1 0	...	22·53	146
d „ (Edenham)	Rev. J. P. Sharp	5	1 3	75 A	23·98	236
Long Sutton	Mr. J. Tilson	5	4 0	18	24·19	171
Spalding (Pode Hole)	Mr. W. Grigg	12	0 6	20 A	22·38	...
Grantham (Stainby)	Rev. W. A. H. Thorold	5	0 9	490	24·12	...
d „ (Denton Manor)	Sir W Welby Gregory Bt.	5	1 6	280 T	24·77	228
d „ (Little Ponton Rect.) ..	Rev. P. R. Worsley „	5	1 0	...	26·12	229
„ (Saltersford)	H. Preston, Esq.	5	0 6	188 A	21·36	165
d „ (Guildhall)	J. Evans, Esq.	5	13 6	202 A	21·55	181
„ (Heydour Vicarage) ..	Rev. G. Deedes	5	1 10	244 T	20·75	...
„ (Syston Park)	H. J. Hildyard, Esq.	5	1 0	200	23·53	234
d Boston (Grand Sluice)	C. G. W. Phillips, Esq, CE	8	8 0	18	21·84	193
d „	W. H. Wheeler, Esq. C.E	5	6 6	16 A	21·20	169
d Sleaford (Rauceby Hall)	Col. Willson	5	0 6	125 T	24·64	152
Leake (Lade Bank Engines)	C. G. W. Phillips, Esq, CE	8	43 0	43	20·43	140
d Stubton [Newark]	G. Nevile, Esq.	5	4 6	94 T	21·09	166
Sleaford (Bloxholm)	Mr. D. Lumsden	5	3 0	80	22·10	129
Kirkstead	Mr. R. H. Brett	5	1 3	...	21·87	...
d „ (Woodhall Spa)	C. J. Williams, Esq., M.D	5	1 0	37 T	24·33	133
Horncastle (Miningsby)	W. H. Wheeler, Esq. C.E	5	0 6	135 A	22·90	...
d Spilsby (Hagnaby Priory)	Miss Pocklington	8	1 8	47 A	26·00	182
d „	Dr. J. W. Walker	5	1 0	160 T	29·30	192
d „ (Boston Road)	Mr. J. J. Rainey	8	0 6	130 T	27·80	165
d „ (Hagworthingham)	Mr. R. Wright	5	1 1	252 A	27·66	191
d „ (Dalby Grange)	W. Wright, Esq.	5	1 6	250	28·75	176
d Horncastle (Bucknall)	W. Carter, Esq.	5	1 0	50	23·02	153
d Lincoln (Branston)	A. S. Leslie Melville, Esq	5	1 0	120	22·73	170

DIVISION VII.—NORTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
LINCOLN—(con.)						
D† Lincoln (Boultham)	Mr. F. Terrill	5	1 0	18 7	25·53	165
„ (Moorlands, Skellingthorpe)	Capt. Warrenner	5	1 2	27 7	25·50	157
† „ (St. Botolphs)	H. Teague, Esq.	5	1 2	25 7	24·36	...
„ (St. Catherine's)	J. H. Teague, Esq. ...	5	...	...	25·04	...
D „ (Doddington)	Rev. R. E. Cole	5	1 2	92 7	22·26	165
„	M. S. & L. R. Co. ‡ ...	9	3 6	26	23·23	...
„ (The Close)	The Royal Meteor. Soc. ...	8	1 0	174	24·48	206
„ (D'Isney Place)	A. H. Leslie Melville Esq ...	4	1 0	215 1	23·57	171
D „ (Brayford Wharf)	Mr. J. W. Horton	5	5 8	28 7	24·32	204
„ (The Quarry)	R. Swan, Esq.	8	1 8	165 7	22·81	166
„ (Skellingthorpe Hall)	R. C. B. Coupland, Esq. ...	5	1 0	...	22·52	154
D Horncastle (Hemingby)	Rev. E. S. Bengough ..	5	1 0	158	25·51	194
Alford (The Burial Ground)	Mr. E. Hodgson	5	1 0	29 7	23·87	...
D Farforth (Maidenwell House) ...	Miss H. E. Browne ...	5	1 0	380 7	29·22	204
Gate Burton	M. S. & L. R. Co.	9	3 6	96	20·51	150
D† Louth (Gospelgate)	T. W. Wallis, Esq. ...	5	6 0	111 7	31·68	188
† „ (Westgate)	Dr. F. Fawcett	5	0 9	120 7	31·90	167
D Market Rasen	Mr. W. B. Jevons	5	0 8	84	24·41	153
„ „	M. S. & L. R. Co.	9	...	100	19·67	...
Gainsborough	„ „ „	9	...	76	18·11	169
Stockwith	„ „ „	9	3 6	21	20·61	177
D North Thoresby Rectory	Rev. H. Garrett	5	1 0	46 7	28·57	196
Caistor (Cabourne)	Rev. R. Thomas	5	...	...	26·37	...
Brigg	M. S. & L. R. Co.	9	3 6	16	23·52	193
D „	A. Atkinson, Esq., C.E. ...	8	1 2	11 7	25·13	171
D Grimsby (Waltham)	Rev. W. Tuckwell	5	1 0	50	28·44	193
„	M. S. & L. R. Co.	9	15 0	42	20·06	156
Barnetby	„ „ „	9	3 6	51	26·22	149
D N. Level Engine [Thorne Donc'st'r] ..	A. L. Peace, Esq., C.E. ...	5	2 3	...	20·95	165
Crowle (Keadby)	M. S. & L. R. Co.	9	...	10	20·68	178
D Burton-on-Stather Vicarage	Rev. F. A. Jarvis	5	0 6	212 7	26·88	210
D West Halton	Rev. R. D. Pierpoint ..	5	1 6	0	26·01	186
Ferriby Sluice	A. Atkinson, Esq., C.E. ...	5	1 0	18 7	25·90	...
New Holland	M. S. & L. R. Co.	9	3 6	18	24·25	173
NOTTS.						
D Kingston Hall [Loughborough] ..	Mr. W. English	5	0 8	...	19·92	142
D Plumtree (Normanton-on-Wolds) ..	T. A. Hill, Esq.	8	1 0	170 7	21·59	188
Cropwell Bishop (Cropwell Grove) ..	H. Smith, jun., Esq.	5	1 1	160 7	20·83	...
D Bramcote	H. H. Enfield, Esq. ...	5	3 6	292 7	23·96	190
Bingham (Whatton Manor)	M. H. Hall, Esq.	5	1 5	101 7	21·77	170
D Nottingham (Beeston Fields) ...	G. Fellows, Esq.	5	0 9	206 7	23·14	188
D „ (The Castle)	A. Brown, Esq., C.E. ...	8	1 2	192 7	20·25	178
„ „ „	„ „ „	8	76 0	268 7	18·25	166
„ (The Park)	G. Elmsley Coke, Esq. ...	5	4 0	247 7	22·67	...
Radcliffe-on-Trent (Chestnut Ho.) ..	Mr. W. P. Green	8	2 0	...	19·80	164
D Ntngm (Stoke Bardolph Sew Fm) ..	Mr. J. Avis	8	10 0	83	18·24	182

† 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. 1894	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
NOTTS—(con.)						
Nottingham (Strelley Hall)	T. L. K. Edge, Esq. ...	8	1 0	396 ∇	21·55	184
„ (Mapperley Hill) ..	E. Powell, Esq.	8	1 0	400 ∇	21·49	159
„ (Bassford)	D.M.F.Gaskin, Esq., C.E.	8	0 10	169 ∇	20·88	188
„ (Woodthorpe Grange)	H. Ashwell Esq.	8	1 0	270	23·80	173
Bulwell (Springfield)	G. W. Walker, Esq. ...	5	0 9	166 ∇	22·04	...
Newark (Shelton Rectory)	Rev. R. W. Marriott...	5	2 2	80?	19·76	...
Bulwell (Bestwood)	D.M.F.Gaskin, Esq., C.E.	8	1 5	317 ∇	21·67	184
Eastwood Colliery	Mr. E. Lindley	5	1 0	245 ∇	21·90	179
Hucknall Torkard (Forge Mills)	J. D. Walker, Esq.	5	1 0	200 ?	19·99	218
Southwell (Oxton Hall)	Capt. Sherbrooke	5	0 9	182	21·66	...
Papplewick (Water Works)	D.M.F.Gaskin, Esq., C.E.	8	0 10	317 ∇	23·06	191
Southwell (Grants)	T. L. K. Edge, Esq. ...	5	1 0	97 ∇	22·45	178
Farnsfield	Dr. Wills	5	1 0	200	23·76	183
Mansfield (Market Place)	Mr. P. J. Shacklock ...	5	1 0	350	29·19	234
South Scarle	Rev. E. C. Shawfield...	5	1 4	52	22·36	152
Ollerton (Thoresby Gardens) ..	Mr. A. Henderson	8	0 9	125	21·78	176
Worksop	M. S. & L. R. Co.	9	3 6	127	22·05	198
„ (Osberton Gardens) ..	late Mr. S. A. Woods..	5	4 0	70	22·41	168
Retford	M. S. & L. R. Co.	9	3 6	52	19·81	191
„ (Morton Hall)	W. H. Mason, Esq. ...	5	1 0	140	21·57	190
„ (Babworth Hall)	Col. Denison	5	0 6	92 ∇	20·80	140
„ (W. Retford House) ..	Mrs. Overend	5	1 4	63	21·59	150
Worksop (Hodsock Priory)	H. Mellish, Esq.	8	1 0	56 ∇	21·95	187
„ („ „)	M „ „ „	5	1 0	56 ∇	21·46	...
The Gardens [Bawtry Hall] ..	L. T. Baines, Esq.	5	1 0	31 ∇	23·15	...
Hesley Hall [Tickhill]	B. I. Whitaker, Esq....	8	0 11	61 ∇	21·68	173
DERBY.						
Stanton House [Burton]	J. L. P. Barber, Esq...	5	1 0	210	23·41	182
Melbourne (The Grange)	Miss Tasker	5	0 3	...	21·44	177
„ Vicarage	Rev. Canon Singleton ..	5	2 0	...	20·54	179
„ (The Hollow)	Mr. W. Garratt	5	1 0	182 ∇	19·45	...
Findern (The Longlands)	Rev. B. W. Spilsbury..	5	0 9	186 ∇	20·86	...
Etwall (Blakeley Lodge)	Mr. R. Giles	5	1 0	...	20·51	161
Mickleover Manor	Mr. J. Campbell	5	2 0	200	22·18	137
Derby (Wild Street)	Messrs. J. Davis & Son	5	1 0	174	21·87	194
„ (Midland Railway)	W. Langdon, Esq.	5	1 5	156 ∇	20·21	174
„ (Arboretum)	R. J. Harrison, Esq., C.E.	8	1 0	196	21·84	176
Breadsall Lodge	W. B. Woodforde, Esq.	5	1 3	280 ∇	22·23	206
Hazelwood (Holmside)	C. H. B. Hambly, Esq.	5	1 3	500 ∇	25·54	201
„ („ „)	„ „ „ „	8	1 3	500 ∇	26·79	...
„ (Chevin)	Sir J. G. N. Alleyne, Bart.	5	4 0	530	24·26	175
Belper (Northfield)	J. Hunter, Esq., C.E....	8	0 8	225 ∇	27·72	198
Alderwasley	A. F. Hurt, Esq.	5	5 5	541 ∇	30·94	170
Matlock (The Gables)	R. Wildgoose, Esq. ...	5	1 0	459 ∇	32·48	187
† „ Bath	Mrs. Chadwick	5	1 6	500 ∇	29·87	...
Darley Dale (Whitworth Inst.)..	J. H. Dawson, Esq. ...	5	1 8	361 ∇	33·08	220
North Darley	A. Clay, Esq.	5	1 0	400 ∇	34·29	219

DIVISION VII.—NORTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which 1.01 or more fell.
		Diameter	Height Above Ground	Height Above Sea level		
			ft. in.	feet.	inches.	
DERBY—(con.)						
Stretton (Lindway Res.)	Mr. Peers	5	4 3	447 ∇	20.75	158
Stuffynwood Hall [Mansfield]	J. Paget, Esq.	5	1 3	389 ∇	22.82	192
Hardwick Hall	Mr. Wilson	8	2 6	594 ∇	28.02	170
Grassmoor Colliery	J. Norman, Esq.	5	19 10	370 ∇	24.06	183
Chatsworth Gardens	W. Chester, Esq.	8	5 5	404 ∇	33.72	230
Chesterfield (Gas Works)	C. E. Jones, Esq., C.E.	5	1 0	279	24.74	165
"	M. S. & L. R. Co.	9	3 6	251	25.01	184
" (Linacre Reservoir)	C. E. Jones, Esq., C.E.	8	3 6	490 ∇	24.32	166
" (Tapton Grove)	Mr. Bloxham	5	3 3	400	24.16	136
Brimington Hall	G. Bond, Esq., C.E.	5	3 0	400	24.15	...
†Buxton (Devonshire Hospital)	The Royal Meteor. Soc.	5	1 0	986 ∇	50.27	224
Tideswell (Sterndale Ho., Litton)	W. F. Jackson, Esq.	...	4 0	1005 ∇	37.64	183
†Comb's Moss	M. S. & L. R. Co.	9	3 6	1669 ∇	37.12	...
†" Reservoir	" " "	9	3 6	710 ∇	36.36	228
†Chapel-en-le-Frith	" " "	9	3 6	965 ∇	39.54	228
†Killamarsh (Norwood)	" " "	9	3 6	238 ∇	22.67	206
†Norton [Sheffield]	Col. Creswick	6	0 8	700 ∇	29.44	198
†Glossop (Spire Hollin)	F. Hawke, Esq.	8	0 10	612 ∇	42.94	...
Woodhead Station	M. S. & L. R. Co.	9	3 6	878 ∇	51.25	233

DIVISION VIII.—NORTH WESTERN COUNTIES.

CHESHIRE.

Baddiley (Nantwich W. W.)	Baldwin Latham Esq CE	5	1 0	231	25.81	159
Nantwich (Dorfold Hall)	J. A. Saner, Esq., C.E.	8	1 6	190	26.83	169
Aldford	W. H. Phillips, Esq.	5	1 1	43 ∇	23.59	171
Eaton Hall Gardens	Mr. N. F. Barnes	5	3 0	64 ∇	23.03	...
Eccleston	E. Wells, Esq.	5	1 1	94 ∇	24.01	212
" Rectory	Rev. A. G. Robins	5	6 0	50 ∇	24.28	204
Congleton (Buglawton Vic.)	Rev. W. Besant	8	5 0	347 ∇	28.76	170
Bosley Reservoir	M. S. & L. R. Co.	9	3 6	590 ∇	27.95	201
" Minns	" " "	9	3 6	1210 ∇	31.73	205
Macclesfield (Wincle)	E. B. Smith, Esq., C.E.	5	3 0	500	35.96	202
Chester (Christleton Hall)	Mr. T. Weaver	5	1 2	142 ∇	25.29	206
" (Waterworks)	A. Bell, Esq.	5	0 10	85 ∇	21.97	204
" (Northgate Station)	M. S. & L. R. Co.	9	3 6	84 ∇	26.52	178
" (Parkgate Road)	Rev. Dr. Mitchell	5	1 0	60 ∇	25.55	207
†" (The Nurseries)	Messrs. Dicksons	5	1 0	62 ∇	24.32	186
" (Hoole Lodge)	Mrs. Hammersley	5	1 0	108 ∇	25.14	207
Middlewich (Bostock Hall)	Col. France Hayhurst.	5	2 0	157 ∇	28.24	177
Siddington (Thornycroft Hall)	C. Thornycroft, Esq.	5	3 0	377	25.79	173
Macclesfield (The Park)	Mr. J. Dale	5	1 0	501 ∇	32.25	200
Chelford (Astle Hall)	G. Dixon, Esq.	5	1 0	250 ∇	26.85	183
" (" ")	M " " "	8	1 0	250 ∇	27.13	...
Northwich	M. S. & L. R. Co.	9	3 6	76 ∇	29.13	178
" (Highfield)	J. A. Saner, Esq., C.E.	8	3 4	118 ∇	30.12	219

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		1894
			ft.	in.	feet.	inches.	
CHESHIRE—(con.)							
D Northwich (Highfield) <i>Snowdon</i>	J. A. Saner, Esq., C.E.	8	1	0	115 π	30.59	218
D " (Winnington).....	Mssrs Brunner Mond & Co	5	3	8	110 π	25.69	239
" (Wincham Hall) ...	H. Neumann Esq.....	8	1	6	120 π	29.31	193
D Macclesfield (Swanscoe Park) ...	T. C. Horsfall, Esq. ...	5	1	0	676 π	33.85	221
D * Neston (Hinderton) ..	Reginald Bushell, Esq.	5	1	0	215 π	25.87	198
* " { " }	" " "	8	1	0	215 π	26.08	...
* " { " Lodge) ...	" " "	5	1	0	145 π	25.72	...
D Frodsham (Dunsdale)	J. Simpson, Esq.	5	1	1	206	26.32	202
Bollington (Spond's Hill).....	M. S. & L. R. Co.	9	3	6	1279 π	34.92	...
D Hooton Grange	W. H. Jones, Esq.....	5	1	0	110 π	25.74	182
D Wilmslow (Southside)	G. Pearson, Esq.	8	1	0	255 π	31.65	209
" (Poplar House).....	J. Holden, Esq.	5	1	0	237 π	30.52	191
† Whaley	M. S. & L. R. Co.	9	3	6	602 π	41.14	229
Disley (Lyne Park).....	No. 1 T. Molyneux, Esq.....	9	3	8	720 π	31.37	180
D " { " }	No. 2 " " "	12	2	9	674 π	33.70	194
D Runcorn (Weston Point)	J. A. Saner, Esq., C.E.	8	2	4	18	23.50	179
Thurstaston (Dawpool)	T. H. Ismay, Esq. ....	...	...	...	...	26.50	...
D West Kirby (Caldy Manor)	Mr. W. Neish.....	5	1	0	129 π	25.57	140
D " (Greenfield)	H. Bell, Esq	5	1	0	75 π	26.40	200
Bowdon (The Firs).....	R. Swindells, Esq., C.E.	5	1	0	215 π	30.43	...
D " (Erlesdene)	E. J. Sidebotham, Esq.	5	1	0	211 π	25.49	205
" { " }	" " "	5	1	0	211 π	29.80	...
D Thelwall (Highfields)	T. G. Rylands, Esq. ...	5	1	0	118 π	27.90	196
" { " }	" " "	5	1	0	118 π	27.97	...
D " (Millington House)	L. W. Reynolds, Esq..	5	1	0	85 π	29.25	204
" { " }	" " "	5	1	0	82 π	29.37	...
Altrincham (Norman's Place) ...	A. Griffiths, Esq.	5	1	0	150 π	32.65	197
" (Barrington House).....	J. Newton, Esq., C.E.	8	3	0	105	30.92	...
D Cheadle (Harthill).....	R. A. Grundy, Esq. ...	5	1	0	142 π	30.90	193
Hoylake (The Chase East)	J. F. Leigh Clare, Esq.	5	1	0	29 π	24.47	191
Birkenhead (Oxton)	E. L. Billson, Esq. ...	5	0	10	185 π	29.64	...
† " (Bidston Obs.)	W. E. Plummer, Esq..	8	1	0	189 π	27.91	202
D Northenden (Wythenshawe).....	T. E. Tatton, Esq. ...	5	1	0	114 π	31.65	216
Marple Top Lock ..	M. S. & L. R. Co.	9	3	6	543 π	34.62	192
" Aqueduct	" " "	9	3	6	321 π	33.94	184
New Brighton (Stanley Rock) ...	A. C. Abraham, Esq... 5	5	1	0	130 π	26.14	189
D Broadbottom (Harewood Lodge)	Col. Sidebottom, M.P... 5	5	1	0	440	37.54	199
Godley Reservoir	G. H. Hill, Esq., C.E.. 12	12	...	...	500	33.25	...
Newton	M. S. & L. R. Co. 9	9	3	6	396 π	32.19	199
Mottram (Hill End)	" " "	9	3	6	680 π	38.64	207
" (Matley's Field)	" " "	9	3	6	399 π	35.63	188
D Hadfield (Millbrook).....	late J. Sidebottom, Esq. 12	12	3	10	442 π	40.55	208
D " { " }	" " "	8	3	10	442 π	40.36	208
Arnfield Reservoir.....	G. H. Hill, Esq., C.E.. 12	12	2	6	550	42.55	...
† Rhodes Wood Reservoir	" " "	12	1	0	520	45.86	...
† Torrside Reservoir	" " "	12	1	6	680	44.56	...
Staleybridge (Swineshaw).....	" " "	8	3	0	884 π	50.66	...
† Woodhead Reservoir	" " "	12	0	10	660	49.38	...

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which 101 or more fell.
		Diameter	Height Above Ground.	Height Above Sea level		
			ft. in.	feet.	inches.	
LANCASHIRE.						
D Garston (Grassendale Park).....	Miss E. C. Abraham ...	5	1 0	35 T	27·33	205
D Aigburth (Kelton).....	J. Sing, Esq.	5	1 0	150 T	28·10	213
D „ (Holmfild)	Miss Maxwell	5	1 0	100 T	27·52	208
D Warrington (Howley)	T. Longdin, Esq.	10	0 10	19 A	29·23	207
„ (Central Station) ..	M. S. & L. R. Co.	9	3 6	59 A	27·44	173
„ (Fever Hospital) ..	Dr Gornall.....	5	1 0	...	29·99	203
Liverpool (Grove Park)....	J. R. Darsie, Esq.	3	6 0	160	30·36	190
D „ (Hope Street)	G. Jevons, Esq.	5	1 0	150	29·37	211
„ (Huskisson Station) ..	M. S. & L. R. Co.	9	3 6	40 A	30·22	205
D Heaton Moor [Stockport] <i>new g.</i>	Dr. F. W. Jordan	5	1 0	235	32·27	207
Manchester (Withington) No. 2	J. King, jun., Esq. ...	5	1 3	110 T	30·53	201
D „ („) No. 3	„ „ „ „	8	1 6	110 T	30·18	201
D „ (Stretford)	H. Royle, Esq., C.E. ...	5	1 0	86 A	32·13	202
D „ (Lady Barn, Fallowfield)	Miss C. Herford.....	5	1 0	122 T	32·45	223
D St. Helens (Eccleston Hill)	J. J. Lackland, Esq. C.E.	12	2 9	268	33·34	198
„	The Meteor. Council ...	8	1 0	152	32·68	219
Denton Reservoir	G. H. Hill, Esq., C.E. ...	...	...	324 T	30·37	...
Gorton.....	„ „ „ „ .....	...	...	263 T	30·50	...
D Manchester (Plymouth Grove)...	J. F. Roberts, Esq. ...	5	4 2	150 A	33·33	204
† „ (Piccadilly)	M. S. & L. R. Co.	9	40 0	194 T	29·13	188
„ (Fairfield)	„ „ „ „	9	6 0	312 T	36·08	215
D „ (Oldham Road)	Dr. Niven	5	1 0	191 A	36·29	208
D „ (Alexandra Park) ...	J. Casartelli, Esq.	8	3 0	100 T	32·37	204
Eccles (Worsley Hall)	Mr. W. B. Upjohn	8	8 0	80 L	25·23	148
D „ („ Old Hall)	W. Bourke, Esq., C.E. ...	5	1 0	185 A	35·50	196
Blundellsands (Park Corner) ...	T. M. Reade, Esq. C.E. ...	5	1 0	33 A	27·70	189
D Stalybridge (West Hill)	Capt. Harrison	5	0 10	412 T	36·92	209
D Manchester (Newton Heath).....	J. Warren, Esq.	5	1 0	275 A	38·90	203
D „ (Cheetham Hill).....	W. B. Worthington Esq. C.E.	5	1 0	264 A	35·91	216
Ashton (Waterhouses)	M. S. & L. R. Co.	9	3 6	345 T	36·42	207
Prestwich Asylum.....	The Meteor. Council ...	8	1 0	295	39·22	216
„ Reservoir	G. H. Hill, Esq., C.E. ...	...	...	356 T	35·16	...
† Oldham (Gas Works)	„ „ „ „	5	4 0	600 T	39·42	...
„ (Honeywell Lane)	M. S. & L. R. Co.	8	...	553	40·02	220
„ (Brushes Clough).....	G. H. Hill, Esq., C.E. ...	5	4 0	930 T	49·24	...
„ („ „) <i>New g.</i>	„ „ „ „	5	5 0	955 T	44·85	...
Ormskirk (Aughton Springs) ...	G. Cooke, Esq.	5	0 6	150	30·83	...
D Wigan Waterworks	W. Bolton, Esq.	8	1 6	225 T	37·01	208
D Dalton (Ashurst Hall)	J. Baxendell, Esq.	5	1 6	400 T	34·55	204
D Bolton (The Park)	W. W. Midgley, Esq. ...	5	1 0	390 T	44·15	225
„ (Heaton) ... <i>old gauge</i>	RHSwindlehurst Esq. C.E.	6	1 3	500	41·00	...
„ („) ... <i>new gauge</i>	„ „ „ „	5	1 0	500	45·15	234
D „ (Ash Lawn, Heaton). ...	F. Taylor, Esq.	5	1 0	406	47·57	241
D „ (Hurst Bank „) ...	J. Watkins, Esq.	5	3 10	442 A	45·20	222
D „ (Moss Bank)	R. H. Ainsworth, Esq. ...	8	1 6	530 A	51·91	211
D „ (Smithills Hall)	„ „ „ „	8	1 2	520 T	47·91	193
Bury (Gin Hall)	T. Rigby, Esq.	8	1 0	475	46·62	189
† Milnrow (Piethorne, Kitcliffe)...	G. H. Hill, Esq., C.E. ...	5	...	767	41·89	...

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which "01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
LANCASHIRE—(con.)						
Milnrow (Piethorne, Coldgreave)	G. H. Hill, Esq., C.E.	5	4 2	894 †	39.73	...
Rochdale (Deeplish Hill)	J. H. Lancashire, Esq.	5	1 0	475 †	42.87	217
„ (Park Observatory) ...	Dr. Henry	8	0 6	472	44.81	233
D „ (Fieldhead)	S. S. Platt, Esq., C.E.	8	12 0	484 †	46.30	224
D Ormskirk (Rufford)	J. Porter, Esq.	5	0 8	38 †	32.45	197
Bolton (Belmont) .....old gauge	RHSwindlehurstEsqCE	6	0 9	800	60.50	...
„ („) ... new gauge	„ „ „	5	1 0	800	58.97	232
D Southport (Birkdale).....	J. Baxendell, Esq.	5	1 0	29 †	31.07	200
Rochdale (Nayden Dean)	J. Diggle Esq., C.E....	5	1 3	948 †	44.43	...
D† „ (Facit)	T. S. Smithson, Esq....	5	0 6	855 †	54.20	224
D „ (Spring Mill, Whitworth)	J. R. Ashworth, Esq....	8	1 7	720	53.38	193
D „ (Cowm „ „)	„ „ „	8	1 7	760	55.47	183
D Southport (Hesketh Park).....M	J. „ Baxendell, „ Esq. ...	5	1 0	22 †	31.24	...
D „ („ „) M.O.g.	„ „ „	8	1 0	22 †	31.35	192
„ (Lord Street Station)	M. S. & L. R. Co.	9	...	21 †	28.29	177
Entwistle .....old gauge	RHSwindlehurstEsqCE	7	1 0	700	56.00	...
„new gauge	„ „ „	5	1 0	700	53.95	205
Blackstone Edge (Hollingworth)	Rochdale Canal Compy†	10	1 5	650	39.40	...
† „ „ (Windy Bank)	„ „ „	10	1 6	600	41.20	...
† „ „	„ „ „	10	1 9	1225	44.40	...
† „ „ (Canal Summit)	„ „ „	10	1 10	700	34.20	...
† „ „ (Chelbourn) ...	„ „ „	10	1 3	800	39.60	...
„ „ (Lenches)	„ „ „	10	1 10	800	47.00	...
† „ „ (Calf Lee).....	„ „ „	10	1 6	960	37.00	...
Chorley (Crooke Hall) ...	Carlton Cross, Esq. ...	5	2 6	265 †	41.63	194
D „ (Whittle le Woods Vic.)	Rev. W. B. Jacques ...	5	1 0	...	39.91	202
Haslingden (Holden Wood)	T. Rigby, Esq.	8	1 0	670	53.55	198
„ (Calf Hey).....	„ „ „	8	1 0	800	50.97	197
Over Darwen (Sunnyhurst Hey).	W. Stubbs, Esq., C.E..	8	1 8	915 †	45.58	208
„ „ (Earnsdale Res.)...	„ „ „	8	1 8	705 †	51.66	208
D „ „ (St. James's Vic.)	Rev. W. H. Blamire...	5	1 0	564 †	49.78	208
„ „ (Daisy Green) No.1	G. W. Lund, Esq., C.E	8	1 0	969	51.18	199
„ „ („ „) No.2	„ „ „	8	1 0	969	50.82	199
„ „ (Pickup Bank) No.1	„ „ „	8	1 0	720	48.42	199
D Haslingden	Dr. Harrison	5	1 9	750	52.87	158
„ Vicarage	Rev. A. Spencer.....	8	1 6	800 †	51.71	213
D Todmorden (Water Works) No. 1	J. Radcliffe, Esq.	8	1 0	980 †	54.97	257
D „ („ „) No. 2	„ „ „	5	1 0	1326 †	57.48	254
Blackburn (Guide Reservoir) ...	G. W. Lund, Esq., C.E	8	1 0	650	38.15	215
„ (Witton)	„ „ „	8	2 6	315 †	41.54	188
„ (Store Yard)	„ „ „	8	30 0	373 †	31.49	173
„ (Pumping Station) ...	„ „ „	8	6 0	600 †	40.73	153
„ (Samlesbury) .....	„ „ „	...	...	240	32.26	...
Accrington (Milnshaw Grounds).	Mr. Hargreaves.....	5	1 6	464 †	40.31	200
† Rawtenstall (Clough Bridge Res.)	T. Rigby, Esq.	8	1 0	900 †	54.93	229

† 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 Sea Level	1894	
			ft. in.	feet.	inches.	
LANCASHIRE—(con.)						
Burnley Waterworks { †Causeway Side	W. Williamson, Esq.	8	2 0	1116	44·60	...
†Sheddin	" " "	8	2 0	960	45·17	...
†Cant Clough, S. Side	" " "	8	2 0	900	45·31	221
† " " N. Side	" " "	8	2 0	900	41·69	220
†Rams Clough Head	" " "	8	2 0	1260	42·12	...
Huncoat (Burnley Road Res.) ...	C. Harrison, Esq.	9	1 6	620 A	43·61	197
†Burnley (Yorkshire Street)	W. Williamson, Esq. ...	8	30 0	420 A	45·37	207
+ " (Swinden, Upper)	" " "	8	12 0	820 A	45·96	225
+ " (" Lower)	" " "	8	2 0	745 A	46·28	225
+ " (Extwistle Moor)	" " "	8	2 0	1310 T	43·57	..
" " (Gawthorpe Hall)	A. Ford, Esq.	8	1 3	316 T	43·23	203
" Preston (Haighton)	J. J. Myres, Esq., C.E. 5	1 2	255 A	37·20	199	
Alston	H. Reah, Esq., C.E. ...	8	1 2	320 A	45·15	...
Kirkham (Weeton)	C. Arthur, Esq.	10	1 0	95 T	37·49	...
" Blackpool Hospital	Dr. Anderson.	5	1 0	66	32·11	194
" Barton (Anderton Fold)	W. H. Mason, Esq. ...	5	0 6	90 T	41·86	201
Nelson (Coldwell Reservoir)	J. Newton, Esq., C.E..	8	2 0	950	30·46	...
" Eccleston (Elswick Lodge) old g. S. King, Esq.	10	1 4	50 T	33·07	180	
" " " " Field " " "	5	1 0	52 T	37·31	...	
" " " " " " "	5	6 0	56 T	35·31	...	
Stonyhurst College	Rev. W. Sidgreaves ...	11	1 0	376 A	50·29	225
" " " " " " "	" " "	11	2 0	377 A	50·49	225
" " " " " " "	M " " "	11	1 0	376 A	50·38	...
Preston W. Works. { Knowle Green	M H. Reah, Esq., C.E. ...	8	1 2	400 T	41·69	...
Loud-scales	M " "	8	1 2	400 T	43·55	...
Spade Mill	M " "	8	1 2	400 T	42·97	...
Jeffrey Hill	M " "	8	1 2	900 T	48·20	...
" St. Michael's-on-Wyre Vic. No.3	Rev. P. J. Hornby	5	1 0	26 A	36·87	198
" Beaton Fell (Barnsfold Res.) ...	J. J. Myres, Esq., C.E. 5	1 6	506 A	44·02	205	
" " " " " " "	M " " "	5	1 6	506 A	43·84	...
Garstang (Calder Mount)	M Sydney Wilson	5	0 6	71 A	39·23	...
Clitheroe (Downham Hall)	R. Assheton, Esq.	10	1 6	464 A	45·30	...
Chatburn (Middlewood)	W. K. Wilkinson, Esq. 5	1 3	363 T	47·65	144	
Garstang (Barnacre Reservoir)	C. Arthur, Esq.	10	1 0	617 A	48·24	...
" " (Grizedale Reservoir)	" " "	10	1 0	519 T	45·58	...
" " (Forton)	W. G. Welch, Esq. ...	5	2 0	130 T	39·06	217
Wyresdale (Abbeystead)	J. Cook, Esq., C.E. ...	8	1 0	366 T	51·51	189
Quernmore (Old Gauge Basin) M	" " "	8	1 0	963 T	46·44	...
Wyresdale (Wardstone)	M " "	8	1 0	1440 T	63·55	...
Quernmore (Brow Top)	" " "	8	1 0	552 T	37·02	181
" Overton Vicarage	Rev. W. J. Locke	5	1 0	65 T	31·65	179
Heysham House	Miss Tomlinson	5	1 6	80	43·75	..
" " Hall	Mrs. Grafton	5	1 0	96	39·40	212
Lancaster (Marton Street Yard)	J. Cook, Esq., C.E. ...	8	1 9	70 A	39·14	206
" " (Greg Observatory)	Dr. Schloesser	8	1 0	312	39·39	225
" " (Escowbeck, Caton)	A. Greg, Esq.	12	2 6	150 T	40·25	191
Hest Bank	T. Ransome, Esq.	5	2 0	58 T	33·64	177
" Wray Vicarage	Rev. C. L. Reynolds... 5	1 0	165 T	45·17	204	

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	1894	
			ft in.	feet.	inches.	
LANCASHIRE—(con.)						
Melling (Hornby Castle)	Col. Foster	8	1 8	100	51·87	200
Barrow-in-Furness	W. Fergusson, Esq. ...	11	1 6	36 ∇	38·55	199
Arkholme (Storrs Hall)	F. F. Pearson, Esq. ...	5	1 0	220	50·16	...
∇ Ulverston (Urswick)	Rev. R. B. Billinge ...	5	0 6	...	45·19	207
\dagger Cartmel (Holker)	Mr. W. Fox	8	4 8	155 ∇	45·37	208
∇ \dagger Ulverston (Poaka Beck)	W. Fergusson, Esq. ...	11	1 6	512 ∇	52·86	230
∇ Cartmel (Pit Farm)	Mr. W. R. Nash	5	1 0	122 ∇	47·58	210
„ (Broughton Hall)	Col. Ainsworth	5	2 8	210 ∇	50·13	206
∇ Colton	Rev. A. Christopherson	5	1 0	226 ∇	64·38	201
„	„ „ „	8	1 0	226 ∇	64·52	...
∇ Finsthwaite Vicarage	Rev. S. Inman	8	1 2	250	60·74	193
∇ Broughton-in-Furness	Rev. F. A. Malleson ...	5	1 3	40	61·77	180
∇ Blawith	Rev. J. Ashburner.....	5	0 10	185 ∇	65·90	196
∇ Cartmel Fell Vicarage	Rev. W. Summers.....	5	0 8	220 ∇	63·00	210
∇ Hawkshead (Esthwaite Lodge)..	Major Alcock-Beck ...	5	3 6	232 ∇	76·21	219
∇ \dagger Duddon Valley (Seathwaite Vic.)	Rev. S. R. M. Walker	5	1 0	330 ∇	85·91	219
∇ \dagger Monk Coniston Park	Mr. Etty... ..	5	1 2	305 ∇	92·17	215
Hawkshead (Black Fell)	M. S. A. Marshall, Esq. ...	5	1 6	1055 ∇	78·82	...
∇ Skelwith Fold [Ambleside]	„ „ „	5	1 0	333	95·87	234
„ „ [„]	M. „ „ „	5	1 0	333	95·55	...

DIVISION IX.—YORKSHIRE.

WEST RIDING.

\dagger Sheffield (Brincliffe Rise)	A. W. Chadburn, Esq.	5	1 0	500 ∇	32·61	181
\dagger „ („ Edge)	M. S. & L. R. Co.	9	3 6	336 ∇	30·78	186
\dagger „ (Redmires)	E. M. Eaton, Esq., C.E.	10	5 0	1110 ∇	40·43	214
„ („)	„ „ „	8	4 0	1110 ∇	40·02	...
∇ „ (Tylecote, Ranmoor) ...	J. Dixon, Esq.	5	1 0	610 ∇	33·38	190
∇ \dagger „ (Broomhall Park)	D. Doncaster, Esq.	10	2 0	330 ∇	29·86	183
„ (Rivelin)	E. M. Eaton, Esq., C.E.	10	4 0	564 ∇	36·72	198
„ („)	„ „ „	8	4 0	564 ∇	36·39	...
\dagger „ (Crookes)	„ „ „	10	2 0	629 ∇	31·53	193
\dagger „ („)	„ „ „	8	2 0	629 ∇	31·53	...
∇ „ (Weston Park)	E. Howarth, Esq.	8	1 0	430 ∇	32·71	191
\dagger „ (Victoria Station)	M. S. & L. R. Co.	9	3 6	188 ∇	24·66	181
\dagger „ (Tinsley Locks)	„ „ „	9	...	143 ∇	24·50	178
Tickhill (Sandbeck Park) ...	Mr. G. Summers.....	8	1 0	150 ∇	24·59	188
\dagger Rotherham (Moorgate Grove) ...	R. Chrimes, Esq.	5	1 0	262 ∇	24·11	193
„ (Thrybergh)	W.H.R. Crabtree Esq CE	8	1 0	184 ∇	22·79	171
∇ Tickhill	G. G. Phillips, Esq. ...	8	1 0	61 ∇	24·89	188
∇ Sheffield (Chapelton)	Mr. D. Bell.....	8	5 0	582 ∇	27·77	198
Doncaster (Firsby)	W.H.R. Crabtree Esq CE	8	1 3	189 ∇	25·82	176
∇ „ (Wadworth Hall)	Rev. J. C. Ross	8	1 0	190 ∇	24·61	191
„ („)	„ „ „	5	1 0	190 ∇	24·61	190
∇ Bolsterstone (Waldershaigh) ...	C. M. Wilson, Esq.....	8	3 1	950 ∇	30·76	208

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain 1894	Days on which "01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
WEST RIDING—(con.)						
Wortley	M. S. & L. R. Co.	9	3 6	548 T	25·78	163
Elsecar	" " " "	9	3 6	175 T	22·96	152
D Wath-upon-Deane (Chapel St.)	Dr. " Burman	8	1 0	185 T	23·91	184
D " " (Bierlow, Brampton)	Mr. S. E. Swiss	5	0 11	212 T	24·49	152
Worsborough	M. S. & L. R. Co.	9	...	225 T	23·67	161
D Stainborough (Wentworth Castle)	W. Fisher, Esq.	8	2 6	520 T	27·86	165
Doncaster	M. S. & L. R. Co.	9	...	35 T	23·71	192
" (Pumping Station) ...	WHR. Crabtree, Esq. CE	8	0 6	30 T	23·57	148
D " (Magdalens)	Mr. C. Parkin	5	4 9	46 T	23·74	189
† Dunford Bridge Station	M. S. & L. R. Co.	9	3 6	954 T	59·55	186
D† " " (Reservoir)	H. C. Marks, Esq., C.E.	12	2 0	1100 T	57·12	205
Greenfield (Chew Mount)	G. H. Hill, Esq., C.E..	...	...	...	56·00	...
" (Yeoman Hey) .....	" " " " .....	...	...	759	52·10	...
† Penistone (Carlcoates)	M. S. & L. R. Co.	9	3 6	1075 T	50·85	237
† " " " "	" " " "	9	3 6	717 T	42·83	195
" (Hazlehead)	" " " "	9	...	868 T	47·03	193
D " (Ingbirchworth Res.)..	J. H. Taylor, Esq. C.E.	8	5 0	853 T	38·69	196
Holmbridge (Yateholme)	O. J. Kirby, Esq., C.E.	7	1 0	861 T	61·80	...
" (Holme Styes)	Mr. L. Hinchliffe	7	2 0	830 T	51·10	...
" (Boshaw Whams) ...	" " " "	7	2 6	930 T	57·70	...
" (Bilberry Reservoir)..	" " " "	7	2 6	820 T	64·90	...
D Barnsley (Church Street)	Dr. Sadler	5	5 2	350 T	28·11	198
" " " "	M. S. & L. R. Co.	9	...	175 T	25·49	188
† Saddleworth Station	M. L. K. Jones, Esq.	5	4 2	630 T	43·16	...
Barnsley (Cawthorne)	Rev. C. T. Pratt	5	1 6	340 T	30·10	162
Strinesdale [Oldham]	G. H. Hill, Esq., C.E..	5	4 0	815	36·77	...
† Meltham (Harden Moss)	J. W. Schofield, Esq.	8	1 2	1212 T	52·94	...
" " " ") new g.	" " " "	8	1 0	1212 T	55·54	...
Wessenden Head	" " " "	8	1 0	1270 T	53·71	...
" (Hollin Bank Moss) ..	" " " "	8	1 0	1360 T	35·78	...
" (Great Butterley) ...	" " " "	8	1 0	1110 T	46·17	...
" (Bobus)	" " " "	8	1 0	1200 T	46·86	...
Standedge (Castleshaw)	G. H. Hill, Esq. C.E..	...	...	876 T	42·98	...
" (Redbrook Res.) old g.	L. K. Jones, Esq.	8	1 8	1150	47·36	...
" " " ") new g.	" " " "	8	1 6	1150	46·00	...
† Meltham (Brow Grains)	J. W. Schofield, Esq.	8	1 0	900 T	55·43	...
Denshaw (Ox Hey)	G. H. Hill, Esq., C.E..	...	...	1030	44·28	...
" (New Year's Bridge)...	" " " "	5	4 0	1012 T	45·03	...
" (Ready Con Dean) .....	" " " " .....	...	...	1414	39·53	...
Meltham (Royd Edge)	C. L. Brook, Esq.	8	1 0	585 T	57·52	...
D " (Harewood Lodge) new g.	" " " "	8	1 0	514 T	52·67	214
† " Grange	J. W. Schofield, Esq.	8	1 2	850 T	47·69	...
† Marsden (Deer Hill)	" " " "	8	1 0	1149 T	49·74	...
" " " ") new g.	" " " "	8	1 0	1149 T	51·14	...
D Doncaster (Kirk Bramwith)	B. S. Brundell, Esq. C.E.	5	1 0	17 T	24·26	193
D " (Burghwallis Rec.) ...	Rev. F. W. Peel	5	1 6	86 T	25·93	200
" " " ") M	" " " "	5	1 6	86 T	25·27	...
D† Slaithwaite (Blackmoorfoot)	J. W. Schofield, Esq.	8	1 0	800 T	49·75	232

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
WEST RIDING—(con.)						
† Honley (Northgate House) ... M	W. Brooke, Esq.	5	1 0	350 T	40·53	...
D Wakefield (Walton)	E. Simpson, Esq.	5	1 0	140 T	25·42	165
Huddersfield (Bankfield, Golcar)	J. E. Ramsden, Esq.	5	1 0	400 T	43·11	191
„ (Firth Observatory)	Dr. Kaye	8	4 0	...	39·59	...
D† „ (Dalton)	J. W. Robson, Esq. ...	12	1 0	350 T	38·96	212
Longwood (Bilberry Edge)	J. W. Schofield, Esq. ...	8	1 0	1090 T	36·85	...
D Ackworth (Nostell Priory)	Mr. J. Easter	5	4 0	...	26·61	164
D Mirfield (Cote Wall)	E. B. W. Balme, Esq. ..	8	0 9	200	30·92	169
D† Wakefield Prison	Dr. H. Clarke	8	1 0	96 T	26·41	164
„ (Alverthorpe Hall) ...	H. Clarkson, Esq.	5	1 0	150 T	28·36	194
„ (Field Head)	R. Porter, Esq.	8	1 6	250 T	25·01	147
D „ (Stanley Grange)	F. E. Haworth, Esq.	5	1 0	180 T	26·49	168
D Goole (Swinfleet)	Mr. G. Harrison	5	6 0	...	27·61	139
D „	W. E. Grayburn, Esq. ..	5	1 0	18 T	23·84	175
D Rastrick	Messrs. J. T. Clay & Sons	5	20 0	380	32·75	166
Batley (Staincliffe Reservoir) ...	O. J. Kirby, Esq., C.E. ..	7	1 0	492 T	28·10	...
D Sowerby Bridge (Haugh End) ...	J. S. Rawson, Esq. ...	5	0 8	550 T	48·28	224
Halifax (Bents, Norland) ... M	„ „ „	5	0 8	800 T	45·16	...
D „ (Bermerside Observatory)	J. Gledhill, Esq. ...	8	0 6	500	37·40	205
D „ (Hall Ings, S. Oworm) ...	Rev. G. E. Aspinall ...	5	0 7	750 T	35·73	198
„ (Thorpe) ... M	J. S. Rawson, Esq. ...	8	0 8	345 T	50·40	...
D „ „	„ „ „	5	0 8	345 T	51·04	222
D „ (Public Library)	J. Whiteley, Esq.	8	1 0	625 T	36·00	159
† „ (Albert)	J. A. Paskin, Esq., C.E. ..	5	1 0	795 T	38·65	...
† „ (Gibbet)	„ „ „	5	6 0	568 T	36·82	...
† „ (Ramsden Wood)	„ „ „	8	1 2	816 T	44·17	...
Leeds (Methley Park)	J. Richardson, Esq. C.E. ..	5	0 9	98 T	27·15	...
Hebden Bridge (Falling Royd) ..	A. R. Crossley, Esq.	4	1 0	479 T	49·74	210
Halifax (Castle Carr)	J. A. Paskin, Esq., C.E. ...	...	...	1060 T	42·39	...
† „ (Midgley Moor)	„ „ „	7	0 6	1350 T	51·60	...
† „ (Warley Moor)	„ „ „	7	0 6	1425 T	46·78	...
† „ (Ogden)	„ „ „	8	1 3	990 T	50·77	...
„ (Ovenden) .....	„ „ „ .....	...	...	1375	51·78	...
„ (Widdop) .....	„ „ „ .....	...	...	1050	53·72	...
† „ (Walshaw Dean)	„ „ „	8	0 3	1380 T	48·57	...
D South Milford Rectory	Rev. F. J. Young	5	1 2	70 T	24·21	193
Leeds (Wortley Res.)	T. Hewson, Esq., C.E. ..	8	0 9	307 T	29·70	181
Bradford (Queensbury)	R. J. Foster, Esq.	8	2 2	1050	42·88	157
„ (Brayshaw Reservoir) ..	J. Watson, Esq., C.E. ..	5	1 0	982 T	39·78	192
D „ (Merton Road)	A. Wilson, Esq.	5	0 6	443 T	39·35	207
D „ (The Exchange)	A. E. Preston, Esq. C.E. ..	8	65 6	395 T	32·78	214
D „ (Allerton Road)	J. Clayton, Esq.	5	1 0	522 T	39·54	211
„ (Thornton Road)	„ „ „	5	0 6	370 T	36·64	211
„ (Thornton Moor)	J. Watson, Esq., C.E. ..	5	1 0	1218 T	50·57	253
„ (Stubden) old gauge ...	„ „ „	8	1 0	1075 T	58·07	238
„ „	„ „ „	5	1 0	1071 T	51·72	238
„ (Nan Scar, Oxenhope) M	„ „ „	5	1 0	1101 T	57·31	...
„ (Leeming Res.)	„ „ „	5	1 0	850 T	49·38	...

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which -01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
WEST RIDING—(con.)						
Bradford (Doe Park) <i>old gauge</i> ..	J. Watson, Esq., C.E..	8	1 0	810 ∇	54·82	237
„ („ „)	„ „ „	5	1 0	811 ∇	48·50	237
„ (Manningham)	J. McLandsborough, Esq.	5	6 6	428 ∇	33·71	...
„ („ „)	J. Priestman, Esq.	5	1 0	507	37·89	199
„ (Leeshaw Res.)	M. J. Watson, Esq., C.E..	5	1 0	875 ∇	53·36	...
„ (Chellow Dean)	„ „ „	5	1 0	645 ∇	40·97	212
„ (Hewenden Res.) <i>old g.</i>	„ „ „	5	1 0	700 ∇	47·10	232
„ („ „ „)	„ „ „	5	1 0	701 ∇	44·57	232
„ (Heaton Res.) <i>old g.</i>	„ „ „	8	1 0	530 ∇	38·24	206
„ („ „ „)	„ „ „	5	1 0	531 ∇	29·92?	206
D Leeds (Holbeck)	Messrs. J. Rhodes & Co.	10	32 0	127 ∇	24·69	139
„ („ „ W. Works Depot)	S. A. Marshall, Esq.	5	1 8	95 ∇	26·00	...
D „ (Museum)	T. Hewson, Esq., C.E..	8	0 9	93 ∇	28·96	187
D „ (Woodhouse Moor)	Mr. H. Crowther	10	46 0	177	28·00	193
„ („ „ Cliff)	T. Hewson, Esq., C.E.	8	0 9	307 ∇	28·41	190
D „ („ „)	R. Reynolds, Esq.	5	1 0	330	29·84	216
D „ (Elmet Hall, Roundhay) ..	J. H. Kitson, Esq.	5	1 6	400 ∇	28·76	191
„ (Weetwood Reservoir) ..	T. Hewson, Esq., C.E.	8	0 9	328 ∇	28·38	193
„ („ „ Lodge)	J. P. Reay, Esq.	5	0 9	400 ∇	26·44	191
Shipley (Moor Head)	late G. Knowles, Esq. ...	8	10 0	500	34·60	...
D Leeds (Allerton Hill)	T. Fenwick, Esq., C.E.	5	0 7	418 ∇	28·58	208
D „ (Oliver Hill, Horsforth) ..	C. France, Esq.	3	1 0	250 ∇	30·39	203
Bingley (Gilstead Filters)	J. Watson, Esq., C.E..	5	1 0	572 ∇	30·51	207
Leeds (South View Ho., Yeadon)	H. Harris, Esq.	5	0 8	480 ∇	32·44	...
„ (Eccup South)	T. Hewson, Esq., C.E..	8	0 9	390 ∇	30·71	193
„ („ „ East)	„ „ „	8	0 9	375 ∇	30·89	188
+ Bingley (Sunnydale)	J. Watson, Esq., C.E..	5	1 0	975 ∇	34·41	198
Harewood (Arthington)	T. Hewson, Esq., C.E.	8	0 9	139 ∇	35·39	179
Boston Spa	Rev. P. M. Eastman ...	5	1 0	...	29·28	...
Skipton (Gill Grange, Silsden) ... M	J. Watson, Esq., C.E..	5	1 0	883 ∇	33·60	...
D Ilkley	G. W. Worfolk, Esq. ...	5	20 0	331 ∇	38·37	175
+ „ (Cherry Bank)	Mrs. H. Richardson ...	8	1 3	600	39·01	...
Skipton (Silsden Reservoir)	J. Watson, Esq., C.E..	5	1 0	560 ∇	33·02	192
Leathley (Lindley Wood S)	T. Hewson, Esq., C.E..	8	0 9	312 ∇	35·60	214
„ („ „ „ N)	„ „ „	8	0 9	320 ∇	35·69	214
Slaidburn (Hareden Brook) ... M	H. Reah, Esq., C.E. ...	8	1 2	540	80·63	...
„ (Langden Brook) ... M	„ „ „	8	1 2	556	81·56	...
„ (Whiteholme)	W. K. Wilkinson, Esq.	5	1 3	475 ∇	57·92	180
Skipton (Cringler's Reservoir) ...	J. Watson, Esq., C.E..	5	1 0	760 ∇	34·32	192
„ (Chelker Reservoir) ... M	„ „ „	5	1 0	730 ∇	34·81	...
+ „ (Craven Herald Office) ...	E. Townsend, Esq.	8	2 0	360	34·72	199
Slaidburn (Dunsop Houses)	G. W. Lund, Esq., C.E.	8	1 0	450 ∇	71·36	196
„ (Middle Knoll)	„ „ „	8	2 6	1298 ∇	57·55	...
„ (Brennand)	„ „ „	8	1 0	820 ∇	76·68	207
„ (Whitendale)	„ „ „	8	1 0	830 ∇	77·40	203
„ (Cabin Hill)	„ „ „	8	3 1	1559 ∇	63·87	...
„ (Baxton Fell)	„ „ „	8	2 6	1540 ∇	61·80	...
D York (Mount Villas)	J. S. Rowntree, Esq. ...	5	1 0	70	28·05	242

DIVISION IX.—YORKSHIRE.—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
WEST RIDING—(con.)						
D York (Burton Croft)	G. Crawhall, Esq.	5	1 0	45 T	29·33	196
D „ (Cherry Hill)	Mrs. H. Richardson ...	5	1 6	40	27·02	199
„ (Phil. Soc. Gardens)	The Meteor. Council ...	8	1 9	53 A	28·01	199
„ („ „ „)	„ „ „ „	8	1 9	53 A	28·08	199
D „ (Bootham)	J. E. Clark, Esq.	5	0 4	50	29·13	185
D Wetherby (Ribston)	Mr. Jones	5	1 2	130 A	26·77	149
Fewston (Swinsty E)	T. Hewson, Esq., C.E.	8	0 9	460 T	42·11	205
„ („ W)	„ „ „	8	0 9	425 T	42·50	205
„ (Timble)	„ „ „	8	0 9	720 T	39·68	220
„ South	„ „ „	8	0 9	525 T	43·08	221
„ North	„ „ „	8	0 9	525 T	37·80	221
„ (Spinksburn)	„ „ „	8	0 9	636 T	35·81	208
Blubberhouses	„ „ „	8	0 9	575 T	41·43	209
D† Harrogate (Bog Valley Gardens)	J. Farrah, Esq.	5	1 0	344 A	33·59	213
D „ (The Stray)	Mr. Gledhill	5	1 0	...	34·15	211
D „	„ „ „	5	1 0	...	34·39	211
Skipton (Barden Res.) <i>old g.</i>	J. Watson, Esq., C.E.	8	1 2	746 A	43·99	232
„ („ „)	„ „ „	5	1 0	746 A	43·58	232
Otterburn-in-Craven	W. Gomersall, Esq. ...	5	1 0	510 A	47·12	208
West End	T. Hewson, Esq., C.E.	8	0 9	787 T	50·78	223
„ „ (Thruscross)	„ „ „	8	0 9	900 T	42·00	226
Skipton (Upper Res., Barden)	J. Watson, Esq., C.E.	5	1 0	1250 A	41·89	239
„ (Thorpe Fell „)	„ „ „	5	1 0	1661 A	41·36	...
„ (Sandbed Beck, Burnsall) M	„ „ „	5	1 0	676 A	47·09	...
Nun Monkton	G. Crawhall, Esq.	5	0 8	35 A	28·09	155
† Knaresborough (Conyngh'm Hall)	late B. T. Woodd, Esq.	5	1 3	200 T	32·38	162
D „ (Farnham)	R. Elmhirst, Esq.	5	1 0	170 A	30·10	205
D Ripley Castle	Mr. J. Tunnington	5	1 0	230 T	34·49	206
D Settle (The Terrace)	J. W. Shepherd, Esq.	8	1 2	525 A	49·40	220
D† Pateley Bdg. (Castle Stead)	Mr. Young	5	1 0	410	48·08	196
„ „ (Grimwith Res) <i>old g.</i>	J. Watson, Esq., C.E.	8	1 0	890 A	50·21	215
„ „ („ „)	„ „ „	5	1 0	893 A	50·87	215
„ „ („ „ Trunla Hill) M	„ „ „	5	1 0	1201 A	43·86	...
Pateley Moor (Smaden Head)	T. Hewson, Esq., C.E.	8	0 9	793 A	32·70	179
D† Malham Tarn	Mr. Coulthard	5	1 0	1296 A	60·89	231
D „ „ <i>new gauge</i>	„ „ „	8	1 0	1296 A	60·23	231
Dallow Moor (High Skeldon)	T. Hewson, Esq., C.E.	8	0 9	719 A	41·21	178
„ „ (Harper Hill)	„ „ „	8	0 9	859 A	41·03	195
† Ripon (North Lodge)	F. D. Wise, Esq.	5	1 0	120	28·58	...
D „ (W.W. Lumley Moor)	Mr. G. Craggs	8	0 6	572 T	45·10	190
† Ramsgill (Raygill House)	J. Watson, Esq., C.E.	5	1 0	925 T	58·55	221
„ „	„ „ „	5	1 0	450 T	51·03	213
D† Arncliffe Vicarage	Rev. W. A. Shuffrey ..	8	3 0	734 T	68·87	230
D „ (Amerdale)	J. Hammond, Esq. ...	8	1 6	730	65·08	227
† Nidderdale (High Riggs)	J. Watson, Esq., C.E.	5	1 0	1010 T	61·70	210
† „ (Rain Stang)	„ „ „	5	1 0	1470 T	58·52	...
† „ (West Houses=Angram)	„ „ „	5	1 0	1150 T	63·51	162
† „ (New Houses)	„ „ „	5	1 0	755 T	53·63	219

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	1894	
			ft. in.	feet.	inches.	
WEST RIDING—(con.)						
Kirkby Malzeard (Drovers' Inn) ..	T. Hewson, Esq., C.E.	8	0 9	633 ∇	41·06	199
" " (Hawset)	" " "	8	0 9	820 ∇	44·40	222
" " (Hambleton Hill) ..	" " "	8	0 9	1106 ∇	50·66	...
" " (Bagwith Brae) ..	" " "	8	0 9	697 ∇	40·26	216
" " (Stone and Ears Wham) ..	" " "	8	0 9	1118 ∇	50·26	...
▷ Ripon (High Bank, Mickley) ...	Miss Harrison	5	1 6	225 ∇	35·78	187
Masham Moor (Benjy Guide) ...	T. Hewson, Esq., C.E.	8	0 9	1412 ∇	61·86	...
" " (W. Somerside) ...	" " "	8	0 9	960 ∇	47·28	173
" " (High Sour Mire) ..	" " "	8	0 9	884 ∇	40·17	195
" " (Leighton)	" " "	8	0 9	636 ∇	44·89	181
" " (Low Houses)	" " "	8	0 9	693 ∇	43·44	192
▷ Oughtershaw Hall	C. H. B. Woodd, Esq.	8	1 6	1175 ∇	75·27	217
Sedbergh (Gate)	The Meteor. Council ...	5	0 6	400 ∇	54·82	200
▷† " (Brig Flatts)	J. Handley, Esq.	5	1 0	300 ∇	54·05	210
† " (Thorns Hall)	Miss Sedgwick ...	5	1 0	400 ∇	54·57	217
EAST RIDING.						
Patrington (Spurn Head)	The Meteor. Council ...	8	1 0	27	22·55	193
▷ "	W. B. Pugh, Esq.	5	2 6	46 ∇	27·45	149
▷ Hull (Tranby Park)	G. Bohn, Esq., C.E. ...	5	1 0	161 ∇	27·95	180
▷† " (Pearson Park)	E. A. Peak, Esq.	5	0 6	6	28·14	176
▷ Hedon (The Vicarage) ..	Rev. J. H. Richardson	5	1 0	...	27·14	203
Brough (Brantinghamthorpe) ...	late Mr. R. C. Kingston	5	2 0	150 ∇	30·43	...
▷ Cottingham	J. H. Hill, Esq.	8	1 3	26 ∇	29·88	205
Market Weighton (Houghton) ...	Canon J. Wells	5	1 0	175 ∇	24·51	...
▷ Beverley (East Riding Asylum) ..	Dr. Macleod	5	1 0	175 ∇	28·05	199
▷ " (Register House)	G. A. Thompson, Esq. ...	5	1 0	22	28·68	174
"	W. Evans, Esq.	5	...	...	27·63	191
" (Hull Bridge)	" " "	5	2 6	11 ∇	26·54	201
▷ Mapleton Manor House	Mr. T. Clappison	5	4 0	74 ∇	26·89	178
▷ Market Weighton (Dalton Hall) ..	Mr. J. Allsop	8	1 4	150 ∇	30·06	186
▷ Hornsea (Elim Lodge)	T. B. Holmes, Esq. ...	8	1 3	30 ∇	27·91	206
Brandesburton (Hempholm)	W. Evans, Esq.	5	2 6	11 ∇	24·61	195
▷ Pocklington (Warter)	J. Coxon, Esq.	5	1 10	230 ∇	31·72	183
Catton Rectory [York]	Rev. H. L. Puxley	5	0 2	50 ∇	29·63	...
▷ Driffield (Beverley Road)	Rev. J. T. Harwood ...	8	8 0	68 ∇	26·08	214
" (York Road) <i>Snowdon</i> ..	W. E. Lovel, Esq. ...	5	1 0	76 ∇	28·43	219
" (" ")	" " "	5	1 0	76 ∇	27·93	...
Wetwang	Rev. E. M. Cole	5	1 0	235 ∇	29·05	181
▷ Thixendale	Rev. W. H. Fox	10	0 10	425 ∇	35·17	209
▷ Lowthorpe (The Elms)	H. Onslow Piercy, Esq.	5	1 0	63 ∇	28·24	207
▷ Malton (Norton)	E. K. Spiegelhalter, Esq.	5	1 0	66 ∇	29·85	188
Ganton Hall [Scarborough]	Mr. Sherwood .....	...	...	...	29·13	...
Hunmanby (Holly Bank)	Miss Suter	5	7 4	...	30·31	...

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	1894	
			ft. in.	feet.	inches.	
NORTH RIDING.						
† Old Malton	H. Hurtley, Esq. ...	10	1 0	75 †	27.47	...
„ Melmerby (Baldersby)	W. Gregson, Esq.	5	1 0	101 †	27.33	191
„ Masham (Aldburgh Hall)	Miss Greenwood	5	1 0	200 ?	36.54	239
„ Thirsk (Sowerby)	C. M. Swarbreck, Esq..	5	1 0	105 †	23.87	205
„ Pickering (The Rectory)	Rev. G. H. Lightfoot..	5	1 6	150	27.19	200
„ Bedale (Thorpe Perrow)	Mr. W. Culverwell ...	5	1 6	170	28.08	178
† Hawes Junction	The Meteor. Council ...	8	1 0	1135	62.47	240
† Aysgarth Vicarage	Rev. F. W. Stow	3	1 0	644 †	44.37	...
„ „ „ „	„ „ „ „	8	1 0	659 †	42.50	201
† Leyburn (Grove Ho.)	G. W. Wray, Esq.	7	1 0	660 †	36.70	230
„ „ (Bolton Hall)	Mr. F. Scrivener	8	1 0	420	34.90	189
„ Seamer (Irtton)	W. Millhouse, Esq. C.E.	8	1 0	94	28.93	180
„ Scarborough (Osgodby)	„ „ „ „	8	1 0	166	25.27	142
„ „ (South Cliff)	Dr. Monk	5	1 0	160	29.02	200
„ „ (Hardrow Vicarage)	Rev. R. Pinck	5	1 0	790 †	48.24	221
„ „ (South Lunds School) ..	Mr. Masheter	5	1 0	1100	61.97	...
„ Northallerton	The Meteor. Council ...	8	0 5	130	25.22	202
„ „ (Osmotherley)	T. Yeoman, Esq.	8	0 8	650	23.78	170
„ Richmond (The Grove)	G. Roper, Esq.	5	1 3	...	31.63	...
„ „ „ „	Mrs. Davidson	5	1 1	847 †	32.54	198
„ Northallerton (Rounton Grange).	The Royal Meteor. Soc.	8	1 0	250	25.71	203
„ Ingleby Manor	The Hon. H. Sidney ...	5	0 11	440 †	32.29	190
„ „ Greenhow Vicarage	Rev. J. Hawell	5	1 0	448 †	28.89	205
„ Robin Hood Bay (Fylingdales Vic.)	Rev. R. J. Cooper	5	0 5	120	25.14	...
„ East Layton	Mrs. Proud	5	1 0	575 †	30.62	185
„ Stanwick Park [Darlington]	Mr. W. Higgie	5	1 1	300 †	30.97	203
„ Forcett Park [„ „]	J. Michell, Esq.	5	1 0	360 †	31.48	218
„ Whitby (Royal Crescent)	T. Newbitt, Esq.	8	1 6	150 †	24.43	152
„ Bowes	G. J. Symons, Esq. F.R.S	8	1 0	950	41.80	...
„ Guisborough (Hutton Hall)	Sir J. W. Pease, Bt., M.P.	5	1 3	400 †	27.79	148
„ „ (Lockwood Beck Res)	W. I. Anson, Esq., C.E.	8	1 0	632 †	32.13	217
„ Saltburn	W. W. Stainthorpe, M.D	5	0 9	150	22.78	212
„ Middlesborough (Albert Park) ..	J. M. Parnaby, Esq. ...	8	2 0	30	24.66	189
„ Barnard Castle (Hury Res.)	D. D. Wilson, Esq. ...	8	1 0	866 †	47.58	233
„ Mickleton	G. J. Symons, Esq. F.R.S	8	1 0	...	37.57	196
„ „ (Lime Kiln Pasture) M	„ „ „ „	8	1 0	1175 †	37.35	...
„ „ „ „ „ „ M	„ „ „ „	8	1 0	1175 †	40.35	...

DIVISION X—NORTHERN COUNTIES.

DURHAM.

D	Darlington	(Hurworth Grange)..	J. E. Backhouse, Esq..	5	1	0	161	7	25-86	194
D	"	(Elcott, Hurworth)..	Rev. W. E. Stewart ...	5	1	0	121	7	25-34	214
	"	(Dinsdale Rectory)...	Rev. J. W. Smith	5	2	0	54	7	24-25	180
D	"	(South End)	Mr. N. Black ..	8	0	10	140		25-73	210
D†	"	(Cleveland Parade)..	S. Hare, Esq.....	5	1	0	160	7	24-35	197

DIVISION X.—NORTHERN COUNTIES—(continued.)

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which 50 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
DURHAM—(con.)						
D Darlington (Langholme Crescent)	J. H. Simpson, Esq. ...	5	1 6	165 T	26·19	200
„ (Hummersknott) ...	Mr. J. Short	5	1 0	...	28·73	182
D „ (Brinkburn)	Mr. H. Waud	8	1 6	165	24·96	181
D Barnard Castle (Whorlton)	Miss Dodgson	5	0 11	424 T	29·44?	180
D „ „ (County School) ..	E. Wells, Esq.	5	1 6	540 T	34·94	207
D† Staindrop (Raby Castle)	Mr. R. W. Smith	8	0 9	460 T	36·58	120
Stockton (Rimswell)	W. Anderson, Esq., C.E.	5	1 0	150 T	23·71	200
D Bishop Auckland (Mt. Pleasant)	E. Lingford, Esq.	6	3 0	408	27·03	175
„ „ (The Castle) ..	Mr. J. Larkin	5	1 0	300	25·07	175
D Witton-le-Wear (Witton Tower)	W. R. I. Hopkins, Esq.	5	0 8	420 T	31·41	190
D Hartlepool (Heugh Lighthouse) ..	W. Belk, Esq., C.E. ...	5	0 6	34 T	20·58	210
D „ (Hurworth Burn) ...	T. Fenwick, Esq., C.E.	5	0 7	360	24·61	175
D „ (Hart Reservoir)	„ „ „ „	8	0 9	164	22·58	166
D† Wolsingham	Mr. A. Mitchell	5	1 0	464 T	36·02	222
D Tow Law	Rev. T. E. Espin	5	1 0	990	29·37	214
Durham Observatory	The Meteor. Council ...	12	4 0	340	23·73	216
D „ (Ushaw College)	Rev. J. Corbishley	5	0 9	600 T	26·83	197
† Weardale W.W. (Waskerley 6)	R. Askwith, Esq., C.E.	8	4 2	1229 T	30·71	162
„ „ „ („ 3)	„ „ „ „	8	4 6	1433 T	32·30	162
† „ „ „ („ 4)	„ „ „ „	8	4 7	1321 T	31·77	162
† „ „ „ („ 5)	„ „ „ „	8	4 2	1244 T	31·34	162
† „ „ „ („ 2)	„ „ „ „	8	4 5	1367 T	31·82	162
† „ „ „ („ 1)	„ „ „ „	8	4 4	1317 T	30·08	162
D Seaham Harbour Cemetery	Mr. R. Leith	8	1 6	150	25·07	225
„ Vicarage	Rev. A. Bethune	5	0 6	80 T	23·88	...
„ Hall	Mr. R. Draper	5	1 0	106 T	26·07	...
Houghton-le-Spring (Myre Hall)	D. Balfour, Esq., C.E.	5	1 0	261 T	26·84	169
D Sunderland (W. Hendon Ho) No. 5	T. W. Backhouse, Esq.	5	1 0	130 T	24·18	187
„ „ „ „ „ No. 6	„ „ „ „	5	1 0	130 T	24·50	...
D „ (Willow Bank Lodge)	C. Stamp, Esq.	5	2 6	100	27·80	214
D Gateshead (Eighton Cottage) ...	Miss Favell	5	3 1	515	25·64	191
D Ryton-on-Tyne	J. W. Smith, Esq., M.D.	5	1 6	...	23·49	197
NORTHUMBERLAND.						
D Haltwhistle (Unthank Hall)	Rev. D. Dixon Brown..	5	0 9	380 T	38·01	200
D Ovingham (W. Tyne Colliery) ...	J. K. Guthrie, Esq., C.E.	8	2 0	179 T	26·62	202
D Haydon Br. (Beltingham)	Rev. G. Reed	5	2 8	340 T	39·89	217
D Corbridge (Howden Dene)	J. H. Straker, Esq. ...	5	0 9	200	28·02	229
D Newcastle (Clifton Road)	R. Foster, Esq.	8	1 6	314 T	22·81	174
„ „ „ „ „ M	„ „ „ „	5	1 0	314 T	23·24	...
„ „ (Lit. and Phil. Soc.) ..	H. Richardson, Esq. ..	8	55 0	160	24·44	...
D „ (Chronicle Office)	A. Yarrow, Esq.	8	30 0	148	23·50	148
„ „ (Gladstone Terrace) ...	W. Smurthwaite, Esq.	2	6 0	156 T	24·54	127
„ „ (Portland Road)	Mr. T. Bone	4	9 6	...	23·30	124
D „ (Town Moor)	A. Wright, Esq.	5	2 0	201 T	24·33	177
„ „ (Wellburn, Jesmond) ..	W. H. Holmes, Esq. ...	5	1 6	161 T	25·01	195
North Shields (Post Office)	The Meteor. Council ...	8	1 4	100	22·14	171

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 Sea Level	1894	
			ft. in.	feet.	inches.	
NORTHUMBERLAND—(con.)						
d North Shields (Tynemouth)	P. J. Messent, Esq., C.E.	5	1 8	65 ∇	20.75	191
Newcastle and Gateshead W. W. { Whittle Dean	G. Smith, Esq.	10	...	...	24.21	...
{ Swinburn (Woodford)	" " "	10	0 6	500 ∇	33.03	...
{ North Tyne (Green Crag) ...	" " "	10	0 6	800 ∇	29.56	...
{ " " Valley	" " "	10	0 6	300 ∇	32.09	...
{ Hallington	" " "	10	0 6	469 ∇	29.66	...
{ " (Fawcett)	" " "	10	0 6	563 ∇	31.21	...
{ Gunnerton Burn (Camphill)..	" " "	10	0 6	676 ∇	30.35	...
d Morpeth (Meldon Park)	Mr. J. Finlay	5	1 0	350	29.79	181
d " (Stobhill)	Captain Terry	5	1 0	...	24.12	207
d " (Bothalhaugh Garden)..	Hon. & Rev. W. C. Ellis	5	0 10	35 ?	23.78	188
d " { " ") M	" " " "	5	0 10	35	24.17	...
d " { " " Lawn)....	" " " "	5	0 10	130	24.69	208
d " { " ") M	" " " "	5	0 10	135	24.19	...
Scots Gap (Rothley Lake).....	J. Daglish, Esq.	5	0 6	665 ∇	33.72	188
+Redesdale (Horsley)	G. Smith, Esq.	8	1 0	600	34.61	...
Rothbury (Brinkburn Priory)...	A. H. Cadogan, Esq.	8	1 2	257 ∇	24.75	...
d " (Cragside)	Lord Armstrong, C.B..	8	1 0	400 ∇	33.41	174
+Redewater (Blakehope).....	G. Smith, Esq.	8	1 1	830	38.09	...
+ " (Ellis Crag)	" "	8	1 0	1200	47.68	...
+ " (Chattlehope)	" "	8	1 0	830	49.89	...
+ " (Cateleugh)	" "	8	1 0	794	45.39	...
Alwinton (Harbottle Castle) ...	Mr. J. Clark	5	1 0	500	32.09	...
" (Biddleston Hall)	P. Dodds, Esq.	5	1 0	820 ∇	31.68	172
Whittingham (Callaly Castle) ..	Major Browne	10	5 1	...	26.90	...
Alnwick Castle	The Meteor. Council ...	5	0 4	178	30.21	232
" (Glanton Pyke)	F. W. Collingwood, Esq.	8	4 4	517	25.90	...
d Howick Hall	Rt. Hon. Earl Grey ...	8	0 10	121 ∇	25.55	180
Ilderton (Lilburn Tower)	E. J. Collingwood, Esq.	10	6 0	300 ∇	23.93	...
Cheviot (Broadstruther)	G. P. Hughes, Esq. ...	8	1 8	1694	85.50?	...
Wooler	Dr. R. Walker	5	0 10	176 ∇	30.77	...
d Bamburgh	Mr. W. C. Good	5	1 0	75 ∇	22.44	181
d Pawston [Coldstream]	B. P. Selby, Esq.	8	1 0	328 ∇	29.58	212
Wooler (Milfield)	G. Grey, Esq.	5	0 6	215 ∇	25.93	...
" (" Hill)	" "	5	3 0	695 ∇	19.43?	...
d Ancroft (Cheswick)	Gen. Sir W. Crossman.	5	0 8	100 ∇	21.05	193
CUMBERLAND.						
d Millom (Leyfield)	Cedric Vaughan, Esq. CE	5	1 2	81 ∇	46.10	215
d Kirksanton (The Croft).....	J. E. Brockbank, Esq..	5	1 5	...	38.61	202
d†Duddon Valley (Ulpha Vic.) ...	Rev. W. Kewley	5	1 3	175	81.60	225
d Eskdale	Rev. R. H. Snape	5	1 6	150 ?	65.18	231
d Seascale (Whinthwaite)	Dr. Hellon	5	1 0	52 ∇	35.67	183
Braystones	W. H. Watson, Esq.	10	3 6	36	34.53	...
Scawfell Pike	G. J. Symons, Esq. F.R.S.	4	0 6	3200	122.35	...
Sprinkling Tarn	" "	4	0 6	1985	141.89	...
Wastdale Head	" "	4	0 6	204 ∇	83.83	...
Styehead Tarn	" "	4	0 6	1472 ∇	132.70	...

DIVISION X.—NORTHERN COUNTIES—(continued.)

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which ≥ 0.1 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level		
			ft in.	feet.	inches.	
CUMBERLAND—(con.)						
†The Styne	M G. J. Symons Esq., F.R.S.	4	0 6	1077 T	166.22	...
† „ „ „ <i>New S.E. gauge</i>	„ „ „	4	1 0	1077 T	159.02	...
† Gable Hawes	M „ „ „	8	...	1077 T	82.76	...
† Seathwaite	M „ „ „	4	0 6	422 T	147.53	...
D „ „ „	„ „ „	5	0 10	422 T	145.52	229
*† „ „ „	M John Marshall, Esq. ...	5	1 0	420 T	139.84	...
Ullscarf	M G. H. Hill, Esq., C.E..	7	1 0	2100 T	130.40	...
Egremont (Park Ho., Bigrigg)...	P. L. Addison, Esq. ...	5	4 0	280	48.02	208
D Cleator (The Floss)	D. Ainsworth, Esq. ...	5	1 11	208 T	52.39	180
„ Moor	F. J. Edge, Esq., C.E..	5	1 3	395 T	61.25	163
† Helvellyn (Birkside)	M G. H. Hill, Esq., C.E..	7	1 0	1900 T	92.70	...
† Wythburn	M „ „ „	7	1 0	580 T	105.50	...
D Borrowdale Vic.=Rosthwaite ...	Rev. A. J. Heelis	5	1 0	330 T	114.47	214
D† Buttermere (Hassness)	Mr. S. Stewart	5	1 0	355	113.11	238
D† Borrowdale (Grange)	Mr. Threlkeld	5	0 9	271 T	105.12	218
Armboth Fells (The Pewitts).....	G. H. Hill, Esq., C.E..	7	1 0	1650 T	91.80	...
Helvellyn (Whiteside)	„ „ „	7	1 0	2100 T	90.60	...
Thirlmere (Dale Head Hall) ...	„ „ „	7	1 0	620 T	93.50	...
D† Whitehaven (Irish Street)	Dr. P. Anson	5	1 1	21 T	44.47	167
† Keswick (Barrow House)	Miss E. G. Langton ...	8	0 6	282 T	81.33	238
Distington (Gilgarron)	Mr. A. Kydd	5	4 9	470 T	44.32	168
Ullswater (Hallsteads)	S. A. Marshall, Esq. ...	5	2 0	497 T	61.37	...
Keswick (Deer Close)	John Marshall, Esq. ...	7	1 9	300 T	68.47	242
„ (Derwent Island) ... <i>old</i>	„ „ „	5	0 7	280	62.00	243
„ „ „ „ „ <i>new</i>	„ „ „	5	0 6	290	70.79	243
D „ (Eskin Place)	J. Postlethwaite, Esq. ...	8	6 4	298 T	67.96	193
D† „ (Bank)	J. F. Crosthwaite, Esq. ...	5	1 0	265 T	68.23	228
D „ (The Beeches)	late T. Paulin, Esq. ...	5	1 0	396	76.18	217
D† „ (Shu-le-crow)	A. Mitchell Dawson, Esq. ...	5	0 7	296 T	72.93	219
D Cockermouth (Whinfell Hall) ...	W. Robinson, Esq. ...	5	2 0	265 T	54.57	236
D „ (Brandlingill)	Col. F. R. Sewell	5	1 0	320 T	57.94	215
D Bassenthwaite (Mire House) ...	Lady Jane Spedding ..	5	0 6	300 T	54.66	199
D „ (Bassenfell)	Mrs. S. G. Rathbone ...	8	1 0	384	41.97	211
D† Cockermouth (Higham)	Miss Hoskins	5	1 0	478 T	46.05	211
D „ (Broughton Grange)	G. S. Wilson, Esq. ...	5	1 3	209 T	42.82	192
Penrith (Culgaith Vic.)	Rev. G. W. Atkinson..	5	0 10	500 T	34.68	...
„ (Nandana)	G. Varty Smith, Esq. ...	5	4 0	650 T	36.22	211
† „ (Fell Lane, Fir Bank) ..	T. Lester, Esq.	5	1 0	575 T	37.86	197
„ (Greystoke)	H. Walker, Esq.	5	...	700	53.76	...
„ „ (Belle View)	M. Rowe, Esq.	5	4 0	640	41.89	228
D „ (Edenhall Vicarage) ...	B. W. Lovejoy, Esq. ...	5	1 0	310 T	36.36	220
„ (Kirkland Vicarage) ...	Rev. A. Edwards	5	1 0	640 T	33.42	...
D† Blencowe School	T. Fawcett, Esq.	8	0 9	601 T	46.56	219
Maryport (Netherhall)	H. P. Senhouse, Esq. ...	8	0 6	27 T	43.51	163
Skelton Rectory	Rev. J. Sharpe Ostle ...	5	0 8	780	46.90	...
D Penrith (Nunwick Hall)	Mrs Heywood Thompson	5	1 0	298 T	34.28	214
D Mealsgate (Uldale Rectory)	Rev. J. Greenwood ...	5	1 4	550	48.55	190

DIVISION X.—NORTHERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which ·01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level		
			ft. in.	feet.	inches.	
CUMBERLAND—(con.)						
d Aspatria (Brayton Hall)	Mr. W. Stewart	8	2 0	200	50·05	189
d „ (Brookfield)	M. Lidbetter, Esq.	5	0 9	124 A	42·92	226
Alston (Love Lady Shield)	Major Dickinson	5	0 10	1145 A	53·62	268
d Carlisle (Rose Castle)	Miss E. W. Bardsley... ..	8	...	...	36·71	208
„ (Wreay Vicarage)	Rev. A. R. Hall	5	2 0	310 T	34·13	219
d† „ (Cemetery)	S. Cartmell, Esq.	8	3 0	114 A	38·88	200
„ (Rickerby House)	M. MacInnes, Esq.	8	1 0	50 T	33·92	...
d „ (Burgh-by-Sands)	Rev. J. Baker	5	0 11	...	33·62	186
d „ (Castletown)	Mr. A. Smith	5	1 6	...	33·74	158
„ (Scaleby)	The Royal Meteor. Soc. ..	5	1 0	112	34·86	223
d Brampton (Denton House)	Mr. J. Charlton	5	1 5	541 A	34·87	211
„ („ „) ... M	„ „	5	1 2	541 A	34·85	...
WESTMORELAND.						
Witherslack (Halecote)	Rev. Canon Cross	5	1 0	100 T	53·23	216
d Kendal (Natland Park)	Mrs. Shipley	5	1 0	195 T	50·64	214
„ (Hill Top)	C. J. Holdsworth, Esq.. ..	5	1 0	560 B	53·89	203
d „ (Kent Terrace)	R. J. Nelson, Esq.	5	1 6	146 T	54·11	203
d „ (Underfell)	W. H. Crewdson, Esq.	8	1 0	300 B	56·39	196
d „ (Hawesmead)	G. F. Braithwaite, Esq.	8	0 6	175 A	52·09	205
„ (Ellergreen)	J. Cropper, Esq.	5	1 6	270 T	63·19	234
d Bowness (Fallbarrow)	H. E. Rawson, Esq.	8	1 0	135 T	69·84	209
d Windermere (Woodland Terrace) ..	Rev. T. Mackereth ...	5	6 5	376	63·34	216
Longsleddale	Mrs. Burrows	5	6 0	512 T	80·86	243
Ambleside (Skelwith Bridge) ...	S. A. Marshall, Esq.	5	...	...	98·91	220
Little Langdale (Fell Foot) ... M	„ „ „	5	2 2	380	120·45	...
d† Ambleside (Lesketh Howe)	F. M. T. Jones, Esq.	5	2 6	175 T	91·09	194
d Elterwater (Birch Hill)	Capt. Robinson	5	1 1	243	110·65	211
d Dungeon Ghyll	S. A. Marshall, Esq.	5	0 5	310	131·13	225
„ „ „ ... M	„ „ „	5	1 6	311	129·15	...
Mickleden	„ „ „	5	1 6	490	140·50	...
d† Grasmere (High Close)	E. B. W. Balme, Esq.	8	0 9	553 T	96·95	224
d „ (Pavement End)	T. A. Green, Esq.	5	1 0	214 T	108·98	233
d Ravenstonedale (Brownber)	J. Fothergill, Esq.	5	3 0	826 T	50·19	193
Orton Vicarage	Rev. E. Holme	5	3 6	770 T	69·68	234
d† Kirkby Stephen	Mrs. Mason	5	1 0	574 T	59·90	238
Fairfield	T. A. Green, Esq.	5	1 0	2860 T	87·40	...
„ „ „ ... M	„ „ „	8	1 0	2860 T	92·68	...
Asby (Town Head)	Mr. J. Clemmet	5	1 0	685 T	54·72	226
Grisedale (Ruthwaite Lodge) M	Mr. A. Milne	8	1 6	1750	121·13	...
d† Patterdale Hall	„ „	7	1 3	490 T	98·11	222
„ (Greenside Mine)	Mr. T. Taylor	7	1 6	1000 T	97·72	...
Shap (Church View)	Mr. W. Wilkinson	8	1 2	830	55·44	...
Appleby (Ormside)	Rev. J. Brunskill	5	4 0	480	34·70	209
d† „	late Dr. Armstrong ...	5	1 0	442 A	38·36	226
d „ (Castle Bank)	C. R. Rivington, Esq.	5	1 2	440 T	40·01	219
Ullswater (Swarth Fell) ... M	G. J. Symons Esq. F.R.S. ..	5	1 3	1000 T	62·40	...
Lowther Castle [Penrith]	Mr. F. Clarke	8	3 0	750 T	52·01	184

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS.

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which "01 or more fell.	
		Diameter	Height Above Ground.		Height Above Sea Level		1894
			ft.	in.	feet.		inches.
MONMOUTH.							
D† Marshfield (Llwynarthan)	F. G. Evans, Esq.	5	1	1	72 B	45·81	211
D Portskewett (Sudbrook)	T. D. Roberts, Esq., C.E.	8	1	6	33 T	39·22	192
„ (Caldicot Hall)	Rev. E. T. Williams...	9	1	3	40	43·43	157
Newport (Clytha Park)	J. H. Canning, Esq. ...	5	1	6	100 T	49·11	...
D Chepstow (Shirenewton Hall) ...	E. J. Lowe, Esq., F.R.S.	8	1	0	531 T	55·31	224
D „ (The Mount)	G. M. Smith, Esq.	5	1	0	150 T	43·09	188
D Llanfrechfa Grange	F. J. Mitchell, Esq. ...	5	4	0	326 T	49·33	199
Tredunnoch	Rev. C. T. Salusbury...	5	2	3	170 T	42·95	207
D Chepstow (Piercefield Park)	H. Clay, Esq.	5	1	6	300	43·25	194
D „ (Itton Court)	E. Curre, Esq.	8	3	6	390	47·00	210
D Abersychan (The Hawthorns)...	J. W. Mulligan, Esq., MD	5	1	0	755 T	64·93	242
D Tredegar (The Willows)	G. A. Brown, Esq. ...	8	1	0	1024 T	69·97	206
Blaenavon Gas Works	C. White, Esq.	5	0	9	980	69·71	...
D Monmouth (The Hendre)	Mr. Coomber	8	1	0	176 T	38·02	225
Abergavenny (Larchfield)	Dr. Glendinning	5	1	0	240 T	45·75	202
„ (Dyne House)	Dr. Steel	5	1	2	220 T	47·69	207
D „ (The Chain)	W. Baker Gabb, Esq. ...	5	1	0	250	50·60	231
Llantilio Court	Sir H. M. Jackson, Bt.	5	0	10	207 T	41·72	...
Llantillio Crosseny (Brynderie) ..	Mr. E. Essery	5	1	2	...	40·48	150
D Llanvihangel Court	Col. Sturt	5	2	4	508 T	44·70	216
„ „	„ „ „	5	2	4	508 T	46·35	...
„ „ Crucorney	Mr. J. Winfield	5	1	0	489	45·19	...
D Monmouth (Pentwyn)	Rev. J. T. Harding ...	5	1	0	191 B	35·74	183
GLAMORGAN.							
* Cowbridge (Fonmon Castle)	O. H. Jones, Esq.	8	1	2	130	50·53	202
D Barry & Cadoxton W.W. (Biglis)	E. W. Waite, Esq., C.E.	5	1	0	20 T	38·85	191
„ „ (Pencoedtre)	„ „ „	5	1	0	200 T	43·23	...
Cardiff (Cogan Pill, Landough) ..	J. A. B. Williams, Esq. CE	5	1	0	122 T	40·30	189
„ (Sanatorium)	Dr. Walford	5	6	3	...	41·19	204
D „ Castle	Mr. A. Pettigrew	5	1	0	38 T	41·79	208
D Porthcawl (The Rest)	G. Evans, Esq.	5	1	0	60	42·00	187
Cowbridge (Ash Hall)	D. Owen, Esq.	8	1	0	315 T	48·29	208
D Cardiff (Ely)	J. A. B. Williams, Esq. CE	8	1	0	53 T	45·85	215
„ (New Filters, Heath)	„ „ „	5	1	0	132	45·47	207
D „ (Llanishen Res.)	„ „ „	5	1	0	155	44·90	205
Gower (Penmaen)	Miss Bostock	5	1	0	300 T	50·38	194
D Oystermouth (Newton)	Rev. S. Jones	5	0	9	279 T	52·35	232
D Swansea (Sketty)	T. T. Wood, Esq.	5	1	0	281 T	54·57	220
Pontypridd	W. Hogg, Esq.	9	3	0	250	65·43	200
D „ (The Reservoir)	W. Jones Esq.	5	1	0	300	65·91	199
Morriston (Glanravan)	J. Naysmith, Esq.	5	1	0	53 T	54·80	219
D Neath	E. C. Pole, Esq.	5	1	0	204 T	54·35	214
D „ (Fairy Land)	Major Green	5	1	9	170 B	53·88	233
D† „ (Glyncorwg)	T. F. Brown, Esq., C.E.	5	4	6	717 B	99·92	242
D Mountain Ash (Maesydderwen) ..	M. Morgan, Esq.	5	1	0	483 T	65·93	211
D Treherbert	Sir W. T. Lewis, C.E. ...	5	1	0	670	95·29	198
D† „ (Tyn-y-waun)	A. R. Cawley, Esq. ...	5	1	0	800	98·31	222

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which not or more fell.
		Diameter	Height Above Ground.		Height Above Sea Level	
			ft.	in.	feet.	inches.
GLAMORGAN—(con.)						
†Treherbert (Tyn-y-waun)..... M	A. R. Cawley, Esq. ...	5	1	0	800	100·61 ...
▷ Gorseinon (Penllergaer).....	Sir J.T.D. Llewelyn, Bt.	5	3	0	240 T	56·54 216
▷ Rhondda (Castell-nos Res.).....	W. Jones, Esq.	5	1	0	1110	67·41 196
▷ Aberdare (Cwmaman)	J. Daglish, Esq.	5	2	3	740 T	78·84 195
▷ „ (The Mardy)	Sir W. T. Lewis, C.E. ...	5	2	0	431 T	72·07 193
† „ (Abernant).....	Evan Jones, Esq. ...	5	5	3	430	73·25 147
▷ Felindre (Lliw Reservoir).....	R. H. Wyrill, Esq., C.E.	8	1	3	426 T	60·77 220
Merthyr Tydfil (Plymouth Wks.)	T. H. Bailey, Esq. ...	5	0	6	497 T	65·22 185
▷ Dowlais (Gwernllwyn).....	R. C. Harrison Esq. ...	5	1	9	1035 T	63·04 222
▷ „ (Cwm Bargoed)	G. A. Lundie, Esq., C.E.	5	1	0	1237 T	52·35 160
▷ Ystalyfera (Wern Schools)	Mr. J. Williams.....	5	1	3	230 T	76·14 219
CARMARTHEN.						
▷ Llanelly (Old Market Place) ...	G. Watkeys, Esq., C.E.	5	10	0	35 T	52·08 206
▷ „ (Cwmlledi W.W.).....	„ „ „ „	5	3	0	240 T	61·37 233
Llandilo (Dynevor Castle)	Rt. Hon. Lord Dynevor	8	1	0	202 T	60·65 201
▷ Llandovery	J. Watkins, Esq.	5	1	0	217 T	55·33 239
PEMBROKE.						
Pembroke (Stackpole Court).....	Rt. Hon. Earl of Cawdor	6	1	6	60 T	43·70 218
St. Ann's Head	The Meteor. Council ...	8	0	8	150	35·88? 201
▷ Haverfordwest (High Street) ...	E. P. Phillips, Esq. ...	5	1	0	95 T	49·75 224
▷ St. Bride's Bay (Hilton)	Col. E. P. Maltby	5	1	0	250 T	38·35 208
▷ St. David's	Dr. W. P. Propert	5	1	0	216	37·23 211
▷ Llanrhian Vicarage	Rev. J. Lewis	5	1	0	295 T	41·15 203
▷ Newport (The Castle)	Genl. C. S. Sturt	8	1	2	240	51·15 207
▷ Castle Malgwyn [Llechryd] ...	Mr. Evason.....	5	1	0	...	46·56 197
CARDIGAN.						
▷ Troedraur Rectory	Rev. R. J. Lloyd	5	1	0	140 ?	38·93 221
▷ Tregaron Vicarage.....	Rev. T. Phillips.....	5	1	0	520 ?	53·41 219
▷ Strata Florida (Hafod).....	T. J. Waddingham, Esq.	5	1	0	580 T	57·04 223
▷ Aberystwith (Castle Grounds) ...	A. Thomas, Esq.	8	1	0	59	29·70 211
▷ „ (Gogerddan)	Sir Pryse Pryse, Bart..	5	1	0	80 B	44·87 185
BRECKNOCK.						
▷†Nanthir Reservoir [Aberdare] ..	O. Williams, Esq., C.E.	5	1	0	860 T	68·20 231
„ „ „ [„ „] M	„ „ „ „	5	1	0	860 T	68·49 ...
▷ Colbren (Penwyllt)	Mr. G. Palmer	5	1	0	1108 T	80·41 182
▷†Taff Fechan (Pentwyn Res.) ..	T. F. Harvey, Esq., C.E.	5	1	0	1120	72·24 231
† „ „ („ „ „)... M	„ „ „ „	5	1	0	1120	72·38 ...
†Cardiff WW (Cwm Taff Fawr No 5)	J. A. B. Williams, Esq., C.E.	5	1	0	1143 T	75·09 ..
† „ „ („ „ „ „ No 1) M	„ „ „ „	5	1	0	2350 T	83·46 ...
„ „ (Cantref Res.) ...	„ „ „ „	5	1	0	1120	71·85 246
„ „ (Cwm Taff Fawr No 6)	„ „ „ „	5	1	0	1328 T	89·43 238
▷†Taff Fechan (Neuadd Res.)	T. F. Harvey, Esq., C.E.	5	1	0	1462	74·63 222
† „ „ („ „ „)... M	„ „ „ „	5	1	0	1462	74·13 ...
Crickhowell (Glanusk Park).....	Sir J. R. Bailey, Bt. ...	5	1	0	290	50·82 186

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which 40 or more fell.	
		Diameter	Height above Ground.		Height above Sea Level		1894
			ft.	in.	feet.	inches.	
BRECKNOCK—(con.)							
Crickhowel (Gwernvale)	late Mrs. Lloyd	5	1	0	373 ∇	49.45	212
„ (Penmyarth)	S.H. Cowper Coles, Esq.	5	1	0	330	50.73	183
† Brecknock (Cantref Rect.) <i>old g.</i>	Rev. J. J. Evans	5	1	0	630 ∇	55.98	...
„ (The Barracks)	Colonel Bromhead	5	5	0	447 ∇	48.10	228
„ (Llandefaelog-fach) ..	Rev. W. Williams	5	1	0	660 ∇	55.50	229
„ Hay (Gwernyfed Park)	Major Wood	5	1	0	350 ∇	38.32	230
„ Bwlth	Dr. Baldock Fry	5	0	10	430 ∇	45.71	192
„ (Abergwessin Vic.)	Rev. J. Jones	5	1	0	904 ∇	75.32	256
„ Newbridge (Llysdimam)	Mrs. Lister Venables ..	5	1	3	640 ∇	40.58	204
RADNOR.							
Glasbury (Woodlands)	A. Battiscombe, Esq....	5	1	0	300 ∇	39.75	205
Old Radnor (Evancoyd)	Mrs. Mynors	8	1	0	760	39.30	151
„ New Radnor (Downton)	Col. Pearson	5	0	8	712	48.05	240
„ (Ednol)	Mr. W. Jones	5	1	0	950	50.54	223
„ Llandegley (Gwern-i-Arglwydd)	Mr. J. Campbell	5	2	0	1000	45.54	226
„ Pen-y-bont	Mr. J. Hamer	5	3	6	788	40.20	206
„ † Rhayader (Nant-y-car)	M G. J. Symons, Esq., FRS	5	1	0	1545	87.60	...
„ (Nantgwillt) <i>old g.</i>	G. M. Yourdi, Esq., CE	5	1	0	768 ∇	67.32	253
„ („) <i>new g.</i>	„ „ „	5	1	0	764 ∇	71.83	250
„ (Bwlchyrhendre) <i>M</i>	G. J. Symons, Esq., FRS	5	1	0	1585	70.30	...
„ (Claerwen)	„ „ „	5	1	0	1250	62.00	202
„ (Pryddellau) <i>M</i>	„ „ „	5	1	0	1710	77.45	...
„ (Abergwngy)	„ „ „	5	1	0	1200	67.65	184
MONTGOMERY.							
„ † Llangurig (Esgair Clochfan) <i>M</i>	G. J. Symons, Esq., FRS	5	1	2	1330	73.90	...
„ † „ (Ystrad-olwyn-fawr) <i>M</i>	„ „ „	8	1	0	950	73.70	...
„ Llandinam	The Meteor. Council ...	5	4	0	500	38.75	211
„ † Newtown (Dolfor)	W. B. Pugh, Esq.	5	2	6	1027 ∇	37.33	210
„ † Churchstoke (Mellington Hall) ..	P. Wright, Esq.	5	1	6	540 ∇	31.55	191
„ („) <i>M</i>	„ „ „	5	1	6	540 ∇	31.66	...
„ † Welshpool (Park Lane)	Mrs. Hawksworth	5	1	0	300	31.32	192
„ (Pool Quay Vic.)	Rev. R. J. Roberts	5	1	0	230	31.66	219
„ † Garthbibio (Bwlch Tomlyd)	G. J. Symons Esq., FRS.	5	1	2	1370	131.05	...
„ † Lake Vyrnwy	E. D. Marten, Esq. C.E.	5	0	7	770	65.97	232
FLINT.							
Hawarden	M. S. & L. R. Co.	9	3	6	35	23.37	176
„ † Flint (Soughton Hall, Northop).	J. Eldon Bankes, Esq..	5	1	0	418	28.86	...
„ St. Asaph (Maes Elwy)	Major Birch	5	3	0	200	25.53	175
„ (Nantllys)	P. P. Pennant, Esq. ...	5	1	0	173 ∇	26.70	...
„ † Halkyn	Capt. Williams	5	1	3	895 ∇	29.87	182
„ St. Asaph (Bodelwyddan Castle).	Mr. W. Brewster	5	0	9	222	30.05	199
„ Holywell (Bagillt)	H. T. Barker, Esq. ...	5	1	6	20 ∇	24.71	168
„ Rhyl (Sedgley House)	W. T. Girdlestone, Esq.	5	2	6	21 ∇	24.74	181
„ † Prestatyn (Edlestone House) ...	T. J. Scott, Esq.	5	0	6	30	24.55	169

DIVISION XI.—MONMOUTH, WALES AND THE ISLANDS—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which ·01 or more fell.
		Diameter	Height above Ground.	Height above Sea Level		
			ft. in.	feet.	inches.	
DENBIGH.						
D Chirk (Brynkinalt)	Rt. Hon. Lord Trevor..	5	0 10	445 ?	34·70	154
D Ruabon (Wynnstay)	Mr. Middleton	5	1 6	484 A	33·34	212
Llangollen (Plas Berwyn)	Col. Tottenham	5	0 5	440	41·20	171
Wrexham (Pack Saddle Res.) ..	F. Storr, Esq.	5	0 9	370 A	29·55	202
„ (Cae Llwyd Res.) ..	„ „	8	0 9	918 A	37·13	191
„ („ „ „) ..	„ „	5	0 9	918 A	36·73	191
D „ (Broughton)	J. Hall, Esq.	5	1 0	500 T	33·47	197
„ (Brymbo)	W. T. Lintern, Esq. ...	5	1 0	675	32·37	...
Gresford (Trenythen)	Mrs. Howell Evans ...	5	0 3	350	28·63	200
D Rosset (Trevalyn Hall)	Capt. Griffith Boscawen.	5	1 0	58 A	25·64	193
Nantglyn (Pant-y-maen)	W. Barker Esq.	8	1 0	1320 T	57·22	...
D Llangerniew (Hafodunos)	H. R. Sandbach, Esq..	5	1 0	512 T	44·26	183
Penbedw [Nannerch]	Mr. W. McMurray	8	0 6	650 T	34·32	...
D Denbigh (Garn)	W. D. W. Griffith, Esq.	5	1 0	447 T	31·04	204
Dolben [St. Asaph]	T. G. Dixon, Esq.	5	1 2	...	31·49	228
D Colwyn Bay (Nant-y-Glyn) ..	A. O. Walker, Esq. ...	5	1 0	180 A	30·46	199
„ (Bryn Euryn)	Mr. T. Hutchings	5	1 0	125 T	27·43	201
MERIONETH.						
†Dolgelly (Werngoch)	O. Hill, Esq.	5	1 6	465 T	65·04	...
D Bala (Eryl Arran)	Mrs. Burton	8	1 0	590 T	56·40	157
D Llanderfel (Palé Gardens)	Mr. T. Ruddy	8	1 0	606 A	50·05	239
Arenig (Bodrennig) ..	E. Jones, Esq.	5	1 0	1100 T	77·05	245
D Rhiwbryffdir = Oakley Quarries..	Mr. R. Roberts	5	10 0	1100	107·51	205
D Corwen (Rhug Gardens)	Mr. J. Bennett	5	1 0	500	28·51	156
CARNARVON.						
*Llanystumdwy (Talarvor)	Dr. J. Roberts	5	2 0	49	36·05	167
Llandwrog (Glynllivan Park) ..	Hon. F. G. Wynn	5	1 0	100	45·75	...
„ („ Garden) ..	„ „	5	1 0	170	49·53	...
„ („ Fort)	„ „	8	1 0	180	45·38	...
„ (Bodfean)	„ „	5	1 0	100	42·53	...
D Llanberis (Glyn Padarn)	Major Allen	6	6 0	370	72·61	198
Capel Curig (Lake Cowlyd)	T. B. Farrington, Esq.	8	1 3	1168 A	76·80	142
Carnarvon (Belan Fort)	Hon. F. G. Wynn	5	1 0	15	37·58	...
D „ (Cocksidia)	J. Jackson, Esq.	5	1 0	120	41·32	207
Llanbedr-y-Cennin	E. P. Stephenson Esq. CE	8	1 0	510 A	58·20	186
„ „ (Llyndulyn). ..	„ „ „ „	8	1 6	1622 T	100·80	...
Llanfairfechan	R. Luck, Esq.	5	0 8	150 B	40·60	214
D†Llandudno (Warwick House) ..	Dr. Nicol	8	0 8	99 A	29·13	219
ANGLESEA.						
D Llangadwaladr (Bodorgan)	Mr. J. Gray	8	3 6	...	42·76	223
Pennynydd Vicarage	Rev. H. D. Owen .....	...	...	300	39·94	213
Holyhead	The Meteor. Council ...	8	...	...	37·57	203
Llanerchymedd Llwydiarth Esgob	T. Prichard, Esq.	5	1 0	112 L	42·01	224

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which ·01 or more fell.
		Diameter	Height above Ground.	Height above Sea Level		
			ft. in.	feet.	inches.	
ISLE OF MAN.						
Castletown (Langness)	Bd. of Northern Lights	...	...	...	35·70	...
Derbyhaven	A. W. Moore, Esq.	5	1 0	20	33·51	...
Douglas (Derby Square)	P. Killey, Esq.	5	1 1	78	38·17	203
„ (Victoria Road)	H. Story, Esq.	5	0 9	160 L	44·84	206
„ (Cronkbourne)	A. W. Moore, Esq. ...	8	0 10	138 A	42·58	205
„ (Clypse, Onchan)	„ „	8	1 0	439 T	43·67	223
Bishops Court .....	„ „ .....	...	...	...	32·94	144
Ramsey	„ „	8	1 3	18	51·73?	...
Point of Ayre	Bd. of Northern Lights	...	...	...	23·86	...
ISLES OF SCILLY.						
St. Mary's	The Meteor. Council ...	8	1 6	77 L	38·04	200
†Tresco Abbey	T. A. D. Smith, Esq. ...	11	3 0	40	37·17	198
JERSEY.						
„ St. Helier (St. Louis Observatory)	Rev. M. Dechevrens ...	8	5 0	180	36·01	195
St. Aubins	The Meteor. Council ...	8	1 0	...	39·07	229
St. Saviours (The Ainges)	W. A. Gunner, Esq. ...	5	1 3	250 B	38·95	195
GUERNSEY.						
„ St. Martin's (Les Blanchés)	B. T. Rowsell, Esq. ...	5	1 0	310 T	38·00	226
„ St. Peter Port (Beaulieu)	A. Collenette, Esq. ...	5	1 0	190 L	40·39	239
„ Villa Carey	Dr. Carey	8	1 2	180	34·85	222

S C O T L A N D.

DIVISION XII.—SOUTHERN COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which ·01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level		
WIGTON.						
Mull of Galloway	Bd. of Northern Lights ...		ft. in.	feet.	inches.	
D Garliestown (Galloway Ho.).....	Mr. J. Day	5	4 6	20 ?	35·51	139
D Stoneykirk (Ardwell House).....	Sir M. J. Stewart, Bt. MP	8	5 0	125	40·50	175
D Newton Stewart (Corsbie).....	The Hon. Mrs. Stewart	6	0 10	100	31·08	127
Loch Ryan	Bd. of Northern Lights ...		...	...	46·59	193
Corsewall .....	„ „ „ ...	...	3 4	22 ?	33·16	130
					24·68	...
KIRKCUDBRIGHT.						
Little Ross	Bd. of Northern Lights ...	...	3 3	130 ?	33·46	162
Kirkcudbright (Balmae)	late P. Dudgeon, Esq... ..	...	...	50	30·09	...
D „ (Senwick).....	A. J. Corrie Esq.	5	1 0	113 A	41·58	205
„ („).....	„ „ „ ...	5	1 0	113 A	40·73	...
Auchencairn (Torr House)	W. Ovens, Esq.	5	0 8	50	50·61	...
Dalbeattie (Colvend Manse).....	Rev. J. Fraser	5	1 6	120 T	41·13	...
Gatehouse (Cally)	Dr. Buchan.....	5	1 0	50	49·84	193
Creetown (Cassencary)	J. A. Caird, Esq.	8	0 8	40	40·17	...
*Dalbeattie (Station Road).....	Mr. W. McBride	5	1 1	50	50·08	151
Castle Douglas (Slogarie).....	H. A. Timms, Esq. ...	5	1 0	300	56·51	...
Kirkpatrick Durham (Glenlair)..	A. W. Maxwell, Esq... ..	5	0 8	250	50·83	153
D Cargen [Dumfries]	late P. Dudgeon, Esq... ..	5	0 4	80 A	49·43	178
D New Galloway (Glenlee)	Mr. W. Melville.....	5	1 3	208	62·09	211
Irongray (Drum park).....	D. J. Kay, Esq.	3	0 6	230	66·50	...
„ („).....	„ „ „ ...	5	1 0	230	59·68	...
Carsphairn (Holm of Dalquhairn)	R. McMillan, Esq.....	5	1 2	800	66·45	...
DUMFRIES.						
D Dumfries (Ivy Bank)	Rev. W. Andson	5	0 10	70 T	42·01	208
Canobie (Byreburnfoot).....	W. Doughty, Esq.....	3	0 6	160	49·25	...
D Lochmaben (Esthwaite)	W. J. Halliday, Esq... ..	5	1 0	166 B	43·61	208
Langholm (Westwater).....	W. Elliot, Esq.	5	2 0	550 T	60·60	...
„	Mr. D. Elder	5	1 0	270 A	60·31	187
Moniaive (Glencrosh)	R. McMillan, Esq.....	5	1 2	400	59·01	...
D „ (Maxwelton House) ...	Rev. Sir E. Laurie, Bt.	8	1 2	400 A	50·25	217

DIVISION XII.—SOUTHERN COUNTIES (*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell
		Diameter	Height Above Ground.	Height Above Sea Level	1894	
			ft. in.	feet.	inches.	
DUMFRIES—(con.)						
Langholm (Ewes School)	Mr. J. C. Lyall	3	1 0	445 T	62·90	...
„ („ Burnfoot)	J. C. Little, Esq.	3	1 0	541 T	62·19	...
Thornhill (Capenoch House) ...	Mr. J. Dunlop	5	...	...	53·16	...
Durrisdeer (Drumlanrig Gardens)	Mr. D. Thomson	4	0 9	191	38·30	...
Moffat (Craigielands).....	W. Walthew, Esq. ...	5	0 9	360 T	57·63	...
„ (Ericstane)	J. J. Welsh, Esq.	3	0 6	550	59·90	...
ROXBURGH.						
New Castleton (The Flatt)	J. Elliot, Esq.	3	0 9	350 T	50·10	...
„ „ (Kirndean)	J. M. Elliot, Esq.	3	0 8	450 T	63·23	...
Hawick (Wolfelee)	Dr. Buchan.....	5	0 6	601	50·84	207
„ „ (Bransholme)	J. G. Winning, Esq.....	5	0 6	457 T	40·56	163
„ „ (Ladylaw)	The Meteor. Council ...	8	0 10	462	37·50	208
*Jedburgh (Sunnyside)	G. Hilson, Esq.	5	6 0	351 T	33·42	165
Lilliesleaf (Riddell)	Gen. Sprot	5	0 5	550 T	35·16	202
„ St. Boswell's (Elliston).....	The Hon. G. Dalrymple	5	1 0	352	31·75	192
Kelso (Springwood Park)	Mr. W. Chaplin.....	10	1 0	150 L	25·01	150
„ „ (Broomlands)	Dr. Buchan.....	...	...	205	26·55	223
„ Melrose (Asylum).....old g.	Mr. Pattman	5	0 6	480 T	36·68	212
„ „ „	„ „	5	1 0	480 T	35·68	212
„ „ (Abbey Gate)	Mr. A. B. Dodds	5	0 6	280 T	38·44	196
„ Wooplaw [Galashiels]	J. Murray, Esq.....	5	1 0	880 T	34·95	189

DIVISION XIII.—SOUTH EASTERN COUNTIES.

SELKIRK.							
▷ Selkirk (The Hangingshaw) ...	Miss Johnstone	5	0	6	670 T	35·61	153
Galashiels (Abbotsford Rd.).....	Dr. Somerville	5	0	6	416 T	36·96	210
„ (Stantling Craigs) ...	Mr. W. Ross	12	1	3	650	37·90	...
PEEBLES.							
Stobo Castle	Dr. Buchan.....	...	...	...	600	38·80	166
Innerleithen (Leithen Lodge) ...	Mr. D. Clark	11	0	0	700	34·55	...
▷ Peebles (Kailzie)	Captain W. C. Black...	5	0	4	559 T	43·87	202
Eddlestone (Portmore Res.)	W. Anderson, Esq.....	11	0	6	1000	33·46	181
▷ N. Esk Reservoir [Penicuik] ...	Mr. W. Tod	11	0	6	1150 T	47·00	170
BERWICK.							
▷ Coldstream (The Hirsell)...new g.	Mr. Cairns	5	1	0	94 T	26·06	193
Marchmont House	Mr. J. A. Wood.....	5	1	0	500 T	35·19	168
▷ Dunse Castle	Mr. R. Aikman	5	1	0	500	36·33	164
Eyemouth ..	Dr. Buchan.....	...	...	...	30	21·70	195
St. Abb's Head	Bd. of Northern Lights	...	0	4	211	22·43	143

DIVISION XIII.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which -01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
HADDINGTON.						
D Drummore [Musselburgh]	Mr. J. Robson.....	5	0 8	75	25·83	193
D Whittinghame Gardens	Mr. J. Garrett	5	1 0	348 B	26·99	130
D Haddington (Asylum)	J. Mowat, Esq.	5	0 9	238 T	29·20	204
Prestonkirk (Smeaton).....	Dr. Buchan.....	...	...	100	25·33	155
North Berwick Reservoir ...	Mr. J. Black	11	0 2	150 T	34·20	...
EDINBURGH.						
Moorfoot Hills (Gladhouse Res.)	W. Anderson, Esq.....	11	0 6	900	34·99	182
" " (Rosebery).....	" " 	11	0 6	750	34·44	...
Pentland Hills (Crosswood)	" " 	11	0 6	950	42·30	...
D Gorebridge (Middleton).....	Miss Anstruther.....	5	1 0	750	36·43	165
Penicuik (Edgelaw Res.).....	W. Anderson, Esq.....	11	0 6	654	34·29	...
Pentland Hills (Harper rig)	" " 	11	0 6	900	51·76	...
" " (Harehill)	" " 	11	0 6	1470	46·75	...
" " (Loganlea)	" " 	11	0 6	850	47·85	...
West Calder (Addiewell)	J. Fyfe, Esq.	5	0 6	600	41·17	...
Rosewell Asylum	Dr. Buchan .....	...	...	690	32·50	207
Pentland Hills (Swanston)	W. Anderson, Esq.....	11	0 6	550	38·30	...
" " (Glencorse Res.)..	" " " 	11	0 6	787	40·40	159
" " (Harlaw)	" " " 	11	0 6	800	42·54	...
" " (Clubbiedean Res)	" " " 	11	0 6	750	37·53	...
" " (Harbour Hill) ...	" " " 	11	0 6	1112	48·92	...
D Dalmahoy	Countess D. of Morton ...	5	0 10	358	37·85	180
Liberton (Alnwick Hill)	W. Anderson, Esq. ...	11	0 6	400	34·48	...
Portobello (Joppa).....	R. Muirhead, Esq.....	5	1 0	20 T	23·57	...
D Edinburgh (Blacket Place)	R. C. Mossman, Esq....	5	0 8	252 T	32·20	203
" (Charlotte Square) ..	Messrs. Leslie & Reid..	11	0 6	230	28·25	...
" (" ") ..	" " " 	12	63 0	300	22·01	...
" (Royal Observatory) ..	Dr. Copeland	5	23 0	370 A	18·53	139
D " (" ") ..	" " " 	5	1 0	347 A	28·02	167
" (Streatham Ho.).....	Dr. Buchan.....	...	...	...	29·00	...
" (Royal Botanic Garden)	Mr. A. D. Richardson..	8	1 0	74 A	29·89	212
Leith	The Meteor. Council ...	8	1 8	22	26·14	191
" (Navigation School)	Dr. Buchan.....	5	0 5	70	29·30	209
LINLITHGOW.						
Whitburn (Polkemmet)	Lady Baillie	5	1 0	600 T	51·53	207
Uphall.....	J. Fyfe, Esq.	5	0 9	380	35·64	...
Linlithgow (Rockville).....	Mrs. Adie	3	0 9	260	39·59	...
Bo'ness (Grange)	H. M. Cadell, Esq.....	5	0 6	20	38·93	...

DIVISION XIV.—SOUTH WESTERN COUNTIES.

LANARK.

Douglas (Newmains).....	Mr. J. Kerr.....	3	0 4	783	51·65	210
D Biggar (Cambus Wallace)	Captain Paul	6	0 6	748 A	36·06	172
Carmichael House	Sir W. C. Anstruther, Bt.	6	1 0	786 T	34·31	...

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 Sea Level	1894		
LANARK—(con.)							
D Cleghorn	W. Elliott Lockhart, Esq.	3	0 3	720	43·99	221	
D Lanark (Fence)	C. M. Irvine, Esq.	5	4 0	441 ∇	39·17	143	
D Dalzell House	Rt. Hon. Lord Hamilton	6	5 6	89 ∇	37·69	160	
Hamilton Water Works	Mr. R. Watson	7	1 0	436 ∇	41·05	...	
D „ (Ardenclutha)	Rev. T. M. B. Paterson	5	1 9	260 ∇	41·60	185	
Bothwell Castle	Mr. W. F. B. Archibald	10	18 0	146 ∇	32·30	157	
D Airdrie (Hillend Reservoir)	Mr. W. A. Ritchie	6	4 6	620 ∇	42·97	202	
Glasgow Observatory	J. Connell, Esq.	11	2 0	182	42·82	211	
„ (Belvedere Hospital) ..	Dr. Buchan .....	...	...	54	41·71	203
AYR.							
Barrhill (Dochroyle)	M. Mr. J. Scott	6	0 6	548 ∇	51·72	...	
D Colmonell (Clachanton)	R. Aitken, Esq.	6	0 6	140 ∇	43·72	165	
Girvan (Pinmore) ..	Capt. Hamilton	5	1 0	187 ∇	47·02	193	
D Barr Manse	Rev. G. Dods	5	1 0	330	45·96	208	
Loch Finlas	R. Gilmour, Esq., C.E.	5	1 0	849	54·02	...	
Girvan (Turnberry)	Bd. of Northern Lights	...	...	...	36·72	136
D Dalmellington (Benquhat)	A. Gillespie, Esq. ....	...	1 6	1068	44·03	213
Maybole (Culzean Gardens)	Mr. D. Murray	9	3 0	200	34·70	...	
„ (Sauchrie)	E. A. Miller, Esq.	5	1 0	380	42·33	217	
Ayr (Ballantine Drive) ..	P. Murdoch, Esq.	5	1 0	41 ∇	35·31	192	
Mauchline	Mr. A. Muir	5	4 4	483 ∇	40·15	...	
Muirkirk (Glenbuck)	Mr. W. F. Hamilton ..	6	1 0	...	52·30	...	
Kilmarnock (North Craig)	R. Blackwood, Esq. ...	12	1 0	319 ∇	43·40	...	
Ardrossan	The Meteor. Council ...	8	1 0	10	32·26	212	
D „ (Kirkhall)	H. F. Weir, Esq.	8	2 9	106 ∇	34·68	181	
Paisley W. W. (Camphill)	J. W. Moncur, Esq. ...	12	1 6	611	59·80	...	
Wemyss Bay (Asheraig)	M. Miss Stewart	10	2 10	30	61·31	...	
Shaws W. Works (Kelly Dam) ..	R. Gilmour, Esq., C.E.	6	1 0	640 ?	62·10	...	
„ „ (Knockencorsan) ..	„ „ „ ..	6	1 0	1040	63·30	...	
RENFREW.							
Lochwinnoch (Garthland)	H. Macdowall, Esq. ...	5	0 11	150	70·95	239	
„ (Castle Semple) ...	Mr. J. M. McMillan ...	6	30 0	240	53·35	218	
Paisley Gorbals's W. Works Dist.	Ryat Lynn	J. M. Gale, Esq., C.E.	8	0 5	310	56·80	...
	Waulk Glen	„ „ „	12	0 5	280	55·50	...
	Middleton	„ „ „	12	0 5	550	60·60	...
	Nether Cairn	„ „ „	12	0 5	700	63·34	...
	Stanely ..	J. W. Moncur, Esq., C.E.	12	1 0	190	46·61	...
	Back Thornleymuir	„ „ „	12	1 0	646	49·96	...
	Muirhead	„ „ „	12	1 0	482 ∇	58·36	...
Springside ...	„ „ „	12	1 0	532 ∇	65·49	...	
D Glasgow (Queen's Park)	J. Whitton, Esq.	8	0 9	144 ∇	41·48	196	
Paisley (Crookston)	Major Hotchkis	3	0 5	...	42·73	125	
„ (The Coats Observatory) ..	Dr. Buchan	10	1 0	107	47·51	229	

DIVISION XIV—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which 101 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1894	
			ft. in.	feet.	inches.	
RENFREW—(con.)						
Shaws Water Works. { Duchall Moor	R. Gilmour, Esq., C.E. ...	...	...	1150	63·90	...
Creuch Hill	" " " " ...	6	1 0	1100	57·80	...
Largs Road .....	" " " " ...	...	...	910	72·26	...
Green Water	" " " " ...	6	1 0	788	67·60	...
Gryfe Reservoir	" " " " ...	6	1 0	640	66·30	182
Mansfield	" " " " ...	5	1 0	573	65·82	255
Compensation Reservoir	" " " " ...	5	1 0	600	60·84	262
Loch Thom	" " " " ...	5	1 0	643	60·67	262
Shielhill	" " " " ...	6	1 0	962	53·70	...
Darndaff Moor .....	" " " " ...	...	...	850	64·80	...
Spango Burn	" " " " ...	6	0 9	757	54·00	...
Hole Glen	" " " " ...	5	1 0	603	65·40	251
New Yetts Dam	" " " " ...	5	1 0	800	64·84	251
Prospect Hill	" " " " ...	5	1 0	233	65·61	214
Port Glasgow (Douglichill Res.)	S.W. Dalzell, Esq., C.E. 5	1 0	549	62·29	146	
" " (Auchendores Res)	" " " " ... 5	1 0	321	59·00	146	

DIVISION XV.—WEST MIDLAND COUNTIES.

DUMBARTON.

New Kilpatrick (Chesters)	J. Kennedy, Esq.	5	1 0	245	45·76	...
Dumbarton (Leven Shipyard) ...	Messrs. Denny, Bros. ...	5	1 0	9	48·08	212
Helensburgh (Lyleston)	Forrest Frew, Esq.	6	0 6	120	48·70	...
" (Dalglenan)	L. P. Muirhead, Esq. ...	5	1 0	70	47·33	207
" (Ferniegair)	J. R. Wilson, Esq. ...	6	0 6	18	47·22	192
" (Water Works) ...	" " " " ...	...	...	300	45·35	192
Arrochar	Rev. J. Dewar	5	0 9	12	78·55	...

STIRLING.

Strathblane (Mugdock Reservoir)	J. M. Gale, Esq., C.E. ...	8	0 6	320	50·55	...
" (Craigend Castle) ...	Sir J. Buchanan, Bart. ...	5	0 9	543	60·95	243
Falkirk (Kerse)	C. Brown, Esq.	8	1 0	18	41·00	...
Larbert (Carron Park)	J. J. Cadell, Esq.	5	0 4	80	40·28	...
Little Denny	Col. J. S. Stirling .....	...	...	...	50·30	...
Earlsburn Reservoir .....	" " " " ...	...	...	...	64·20	...
D Killearn (Old Ballikinrain) ...	Mr. J. Smith	5	0 6	265	62·47	237
Stirling (Touch Reservoir)	Mr. W. Ronald .....	...	...	...	51·85	...
" (Polmaise Gardens)	Mr. W. W. Ritchie ...	6	1 3	12	43·81	...
" (Victoria Place)	Mr. R. Kidston	5	2 10	100	46·17	...
D " (Ravenna Cottage)	Mr. G. McDougall	5	1 8	14	46·01	227
D Buchlyvie (The Manse)	Rev. J. A. Macdonald ..	5	1 3	118	54·13	224
Gargunnoch	Col. J. S. Stirling	5	5 8	85	53·90	...
Kippen (Garden House) .....	" " " " ...	...	...	...	56·28	...
Ben Lomond	J. M. Gale, Esq., C.E. ...	...	...	1800	91·10	...

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain	Days on which -01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1894	
			ft. in.	feet.	inches.	
BUTE.						
Arran (Pladda)	Bd. of Northern Lights ...	...	...	...	37·64	135
Holy Island (Lamlash) .....	" " " " ...	...	...	...	64·90	133
Kingarth (Plan).....	H. Hastings, Esq.	5	1 0	40	39·46	...
D Rothesay (Barone Cottage)	J. Kay, Esq.	5	1 0	116 $\frac{1}{2}$	47·44	210
D " (Crichton Road).....	H. Lauder, Junr., Esq. ...	5	4 0	97	53·64	223
ARGYLL—(MAINLAND.)						
Tayvallick (Taynish)	Capt. Barne	5	1 0	15 $\frac{1}{2}$	47·53	...
Ardishaig	Dr. Buchan.....	8	0 6	14	71·13	...
Loch Eck (Benmore).....	H. J. Younger, Esq. ...	5	1 0	40	87·13	195
D Lochgilphead (Kilmory) <i>Snowdon</i>	Sir J. Campbell Orde, Bt. ...	5	...	...	61·67	220
" (Poltalloch)	Mr. D. S. Melville.....	3	4 6	126	45·78	203
" " " "	" " " "	5	0 4	121	46·67	...
Loch Awe (Ederline).....	Mr. D. McLeod	5	1 6	130	62·63	158
D Inverary Castle	Mr. G. Taylor	5	1 0	40	78·22	228
"	W. Douglas, Esq. ....	...	...	...	73·42	...
D " (Newtown)	Mrs. Little	5	1 0	17	72·95	224
Appin (Aird's)	M R. Macfie, Esq.	5	0 11	41 $\frac{1}{2}$	56·49	...
D Morvern (Drimnin)	Mrs. Gordon	5	1 0	225	66·53	237
D Ballachulish (Ardsheal)	Dr. W. D. Anderson... ..	8	1 0	103 $\frac{1}{2}$	82·40	214
" (Craigrannoch).....	D. Campbell, Esq., M.D. ...	8	1 0	15	95·66	215
D Strontian (Laudale)	A. Fletcher, Esq.	8	1 0	15 $\frac{1}{2}$	68·57	235
D Loch Sunart (Glenborrodale) ...	J. J. Dalgleish, Esq....	5	0 2	60 $\frac{1}{2}$	67·68	218
Ardgour House	Mr. D. Maclean	3	0 10	72	74·30?	...
Ardnamurchan	Bd. of Northern Lights ...	...	3 6	28 $\frac{1}{2}$	47·64	161
D " (Achateny)	Mr. R. Coltart	5	0 2	61 $\frac{1}{2}$	70·12	217
Loch Eil (Corran)	Bd. of Northern Lights ...	...	0 4	14 $\frac{1}{2}$	87·90	184
D " " (Conaglen)	Countess D. of Morton. ...	5	0 10	36	102·86	175
ARGYLL—(INSULAR.)						
Kintyre, Mull of	Bd. of Northern Lights ...	...	...	279 $\frac{1}{2}$	38·90	121
" (Campbeltown, Devaar) .....	" " " " ...	...	3 4	75 $\frac{1}{2}$	36·32	178
" (Skipness Castle)	Mr. P. McLean ...	5	1 6	27	52·12	...
" (Stonefield, Tarbert) ...	Colin G. Campbell, Esq ...	5	0 9	90	73·03	...
D Islay (Ardbeg)	C. Hay, Esq.	5	7 0	46	38·41	198
" (Rhinn)	Bd. of Northern Lights ...	...	3 0	74 $\frac{1}{2}$	34·74	141
" (Lochindaal).....	" " .....	...	...	...	39·27	161
" (McArthurshead).....	" " .....	...	...	...	48·17	137
" (Eallabus).....	R. Ballingal, Esq.....	5	1 0	68 $\frac{1}{2}$	43·62	162
Jura (Bay of Small Isles)	H. Evans, Esq. ....	...	...	80	61·10	...
" (Fladda)	Bd. of Northern Lights ...	...	...	...	62·30	119
" (Ardfin)	Miss J. H. Campbell ...	5	0 6	130	54·65	...
Lismore (Mousedale)	Bd. of Northern Lights ...	...	3 4	37 $\frac{1}{2}$	44·29	152
D Mull (Quinish)	J. N. Forsyth, Esq. ...	5	0 9	35	57·24	223
" (Sound of).....	Bd. of Northern Lights ...	...	...	...	63·35	161
Coll (The Manse)	Rev. N. MacDougall... ..	5	1 0	100	49·93	...

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which -01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1894	
			ft. in.	feet.	inches.	
CLACKMANNAN.						
Alloa (Mar Street).....	J. Melville, Esq.....	5	0 6	70	39·30	...
Alva House.....	Mr. McDermont.....	5	1 2	180	44·89	...
d Dollar	Mr. A. Blackwood	9	1 0	178	39·21	161
KINROSS.						
Blairingone [Dollar]	Rev. J. F. Cameron ...	5	1 6	300 T	45·57	180
d Loch Leven Sluice	Mr. W. Clark.....	7	0 7	360 L	42·60	130
d Kinross (Gelly Bank).....	G. Henderson, Esq. ...	5	0 6	440 N	38·05	205
FIFE.						
d Culross (West Grange)	J. J. Dalgleish, Esq....	5	0 2	116 N	38·45	173
d Dunfermline (Keavil)	L. Dalgleish, Esq.....	5	0 2	150	32·64	181
Carnock (Luscar House)	A. Mitchell, Esq.	5	0 10	430 T	39·58	...
" " ") No. 2	" " "	5	0 10	430 T	39·46	...
d Beath (Outh)	L. Dalgleish, Esq.....	5	0 2	890	49·05	169
Pittenweem (The Priory)	Rev. F. K. Lloyd	5	0 10	50	29·02	...
Kilconquhar (Balcarres)	Mr. E. Tate.....	5	1 0	300 T	35·78	210
Kennoway (Kilmux).....	D.J.RusselDuncan, Esq	5	1 0	500	32·69	240
d Cupar (Fife & Kinross Asylum).	Dr. Turnbull	5	0 4	210	35·95	164
Kilmany (Mountquhanie House).	D. Gillespie, Esq.	3	1 3	240	32·10	...
Tayport	D. Cunningham, Esq...	5	1 0	27	27·58	160
PERTH.						
Aberfoyle	J. M. Gale, Esq., C.E..	8	0 6	60	64·80	...
Ochertyre [Stirling].....	Capt. Dundas, R.N. ...	5	1 0	18	45·01	...
Dunblane (Kippenross)	Col. P. Stirling	3	0 4	150 N	46·45	...
Doune (Gartincaber).....	G. Burn Murdoch, Esq.	5	1 0	200	44·29	197
Sheriffmuir (Lynns Farm)	Col. P. Stirling .....	...	1 0	680	46·03	...
Loch Dhu	J. M. Gale, Esq., C.E..	8	0 6	325	86·40	...
Ledard .....	" " "	...	...	1500	54·55	...
Loch Drunkie.....	" " "	8	0 6	420	65·50	...
" Vennachar.....	" " "	8	0 6	275	56·40	...
d Lanrick Castle	Mr. J. Begg	3	1 0	...	53·05	166
d Cromlix Gardens	Cap.Hn.AH Drummond	5	1 0	430	45·82	214
Bridge of Turk	J. M. Gale, Esq., C.E..	8	0 6	275	69·30	...
Loch Katrine (Tunnel Hill Top)	" " "	8	0 6	830	104·30?	...
Between Glen Finlas & Ben Ledi.	" " "	8	0 6	1800	43·80	...
Callander (The Gart).....	C. A. Ainslie, Esq.....	5	0 7	250	64·74	...
" (Leny)	J. B. Hamilton, Esq...	3	0 4	345 T	63·40	...
Glen Gyle	J. M. Gale, Esq., C.E..	...	...	380	101·70	...
d Balquhidder (Stronvar).....	J. Dickson, Esq.	6	1 0	422 T	80·95	233
d Crieff (Ochertyre).....	Mr. G. Croucher	5	2 6	326 T	46·02	200
Perth (Rosebank)	Dr. Buchan.....	...	...	140	38·32	182
" (Huntingtower Field) ...	Mr. A. Bayne.....	6	1 0	40	36·80	..
d Coupar Angus Station	Mr. J. Robertson	5	1 3	183 T	32·45	193
d Ballinluig	Mr. J. Morrison	5	1 0	250 T	37·28	206
d Pitlochry (Donavourd).....	W. Maxwell, Esq.	6	0 7	400	35·30	129
" (Fasganevin)	T. Renny, Esq.	5	1 0	350	35·94	...

DIVISION XVII.—NORTH EASTERN COUNTIES.

Laurencekirk (Johnstone Lodge)	Dr. Buchan	34.58	...
The Burn [Breichin]	Col. McInroy	5	0	6	250	37.10
Fettercairn (Arnhall)	J. H. Hay, Esq.	5	0	6	194	33.89
D „	A.C.Cameron, Esq. LL.D	5	0	4	237	33.80
ABERDEEN.						
D† Braemar	J. Aitken, Esq.	8	0	9	1114	41.28
Forest of Glen Tana	Sir W. C. Brooks, Bt..	5	1	0	576	36.48
D Cromar (Logie Coldstone Manse).	Rev. Dr. Davidson.....	5	1	0	694	29.35
D „ („ „ School).	Mr. H. Cowie	5	1	0	607	29.71
„ („ „ Loanhead)	Mr. A. Farquharson ...	5	1	0	743	31.09
„ (Tillypronie).....	Mr. R. Littlejohn	5	1	0	1120	28.74
D Aberdeen (Cranford)	D. McHardy, Esq.	5	1	0	120	29.17
† „ (Rose Street)	Dr. A. Cruickshank ...	5	0	5	95	25.52
„ (Gordon's Hospital) ...	Dr. Buchan	8	1	6	66	28.63
„ (King's College)	The Meteor. Council ...	8	2	0	48	28.55

DIVISION XVII.—NORTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which 1/10 or more fell.
		Diameter	Height above Ground.	Height above Sea Level		
			ft. in.	feet.	inches.	
ABERDEEN—(con.)						
Midmar (Dun Echt Observatory)	Dr. Copeland	8	0 11	461 ∇	27·67	...
Towie (Culquoich).....	Mr. F. Berry ..	5	1 0	780	32·60	...
Ellon (Kermuck)	Mr. T. Mair	11	0 6	300 ∇	29·24	...
Haddo House	Mr. J. Forrest	5	0 5	180 ∇	30·35	...
Peterhead (Buchanness)	Bd. of Northern Lights	...	...	...	26·61	113
„	Dr. Buchan .....	...	...	126	23·31	...
D New Deer (Artamford Cottage)..	J. Joiner, Esq.....	5	1 0	551 ∇	28·84	238
D Old Deer	J. Walker, Esq.....	5	2 0	135 ∇	27·75	213
New Pitsligo	J. Will, Esq.	5	1 0	500	30·72	...
Kinnairdhead	Bd. of Northern Lights	...	...	...	23·22	...
BANFF.						
D Keith (H.R.S.)	The Station Agent.....	5	1 0	364 ∇	35·31	184
D Banff (Earl Hill)	A. Ramsay, Esq.	5	1 0	115 ∇	28·06	225
D Boyndie (Whitehills)	Rev. W. Anderson ...	5	1 0	68 ∇	25·33	212
Cullen House	Mr. J. F. Smith.....	5	1 0	100 ∇	31·50	...
ELGIN OR MORAY.						
Grantown	Mr. W. Duncan.....	5	1 1	712 ∇	34·24	211
Craigellachie (Wester Elchies Sch)	Mr. J. Milne	5	1 0	560 ∇	35·09	184
D Forres (H.R.S.)	The Station Agent.....	5	1 0	25	25·19	161
„ (Grange Hall)	J. Grant Peterkin, Esq.	5	1 0	52 ∇	25·16	...
D Gordon Castle	Mr. C. Webster	8	1 0	107 ∇	31·95	198
D Elgin (Highfield)	A. Cameron, Esq.	5	1 0	80 ∇	28·26	190
NAIRN.						
D Nairn (Achareidh).....	Col. Clarke	8	1 0	59	25·52	170
„ (School Ho.).....	The Meteor. Council ...	8	1 9	84	26·39	198

DIVISION XVIII.—NORTH WESTERN COUNTIES.

WEST ROSS.‡

Applecross Gardens	Mr. D. McCowan	5	1 0	70 ∇	55·98	...
D Strathconan [Beaulay]	Mr. D. McIver	5	1 0	450	55·71	137
D Glencarron Lodge	Mr. D. D. Munro	5	1 0	504	86·52	250
Loch Torridon (Bendamph)	Mr. K. MacPherson ...	5	0 5	25	95·95	...
Loch Vraon.....	Sir J. Fowler, Bt.	8	0 7	750	57·44	...
Braemore House.....	„ „ „	8	0 7	750	59·68	...
„ Lodge = Foich	„ „ „	8	0 7	100	57·01	...
Isle of Lewis (Stornoway)	Bd. of Northern Lights	...	3 4	31 ∇	37·54	212
„ („ „)	The Meteor. Council....	8	1 0	24	51·07	256
„ (Butt of Lewis) ..	Bd. of Northern Lights	...	3 6	...	47·20	162

EAST ROSS.‡

Contin (Kinnahaird) ..	W. Ross, Esq.	5	1 2	74 ∇	26·73	...
D Strathpeffer Spa (Ambatovory) ..	J. T. Fox, Esq.	5	1 0	254	30·82	233
D „	Mr. J. Baxter.....	5	2 0	...	37·91	208

‡ 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 Sea Level	1894	
EAST ROSS†—(con.)						
Dingwall (Uplands)	A. Beattie, Esq.....	3	ft. in. 1 3	feet. 360 T	26·50?	...
Evanton (Swordale House)	Dr. Buchan .....	...	...	...	33·00	...
Cromarty	Bd. of Northern Lights .....	...	...	...	21·84	...
D Alness (Ardross Castle).....	Mr. R. Massie.....	5	1 0	450 T	39·35	197
D Fearn (Lower Pitkerrie)	R. Gordon, Esq., C.E..	5	1 0	95	27·39	143
Tarbetness	Bd. of Northern Lights .....	...	3 4	61 ?	25·36	...
WEST INVERNESS.						
D Ben Nevis Observatory.....	Dr. Buchan.....	5	...	4407	149·94	255
D Fort William (Public School) ...	C. Livingstone, Esq. ...	5	1 0	36 T	83·79	221
" " (Observatory).....	The Meteor. Council ...	8	1 8	33	78·81	222
Moidart (Roshven)	Prof. Blackburn	5	1 0	68 T	71·04	247
D Loch Shiel (Glenaladale)	Major Macdonald	5	1 2	50 ?	105·40	247
D Borrodale (Arisaig)	Mr. A. Grant.....	5	1 0	20 ?	65·19	230
D Glenquoich	Mr. D. Grant.....	8	2 4	660	108·07	247
Skye (Oronsay)	Bd. of Northern Lights .....	...	0 6	15 ?	43·60	173
" (Kyleakin) .....	" " " " .....	...	...	...	91·89	179
" (Edinbane, Loch Grishinish) ..	Dr. K. M. Macdonald... ..	5	0 6	30	67·40	...
Rona	Bd. of Northern Lights .....	...	...	...	54·40	177
Barra (Barrahead).....	" " " " .....	...	3 0	640 ?	34·60	169
D S. Uist (Askernish)	D. Paterson, Esq.	5	1 0	10	46·06	215
" " (Ushenish).....	Bd. of Northern Lights .....	...	0 4	157 ?	43·50	...
N. Uist (Monach) .....	" " " " .....	...	...	...	51·32	181
D " (Loch Maddy)	J. M. Fraser, Esq.....	5	1 0	...	55·54	163
Harris (Island Glass).....	Bd. of Northern Lights .....	...	...	...	36·63	...
EAST INVERNESS.						
D Invergarry	Mrs. Ellice	5	1 0	...	66·27	135
D Fort Augustus (St. Benedict's)...	Rev. M. Wall... ..	5	1 6	68	54·65	221
D Aviemore (H.R.S.).....	The Station Agent.....	5	1 0	710	33·99	231
D Loch Ness (Drumnadrochit).....	Mr. A. Grant.....	5	1 0	104	39·85	228
Inverness (High School)	Dr. Buchan.....	...	...	114	27·82	...
† " (Culloden House).....	D. Forbes, Esq.	4	4 0	104 T	21·26?	...
D Beaulay.....	J. T. Garrioch, Esq. ...	5	1 3	25	32·56	163
D Cawdor [Nairn]	J. Joss, Esq.	5	1 0	250 T	31·73	203

DIVISION XIX.—NORTHERN COUNTIES.

SUTHERLAND.

D Invershin	Mr. G. Young	5	4 0	20 T	28·40	143
D Golspie (H.R.S.)	The Station Agent	5	0 9	27	31·33	145
D " (Dunrobin Castle)	Mr. D. Melville	5	1 0	14 T	31·11	156
" " " "	" " " "	3	0 3	13 T	29·00	...
Stourhead	Bd. of Northern Lights ..	...	...	...	50·00	187
D Scourie	J. Simpson, Esq.	5	0 4	28	45·15	198
Cape Wrath	Bd. of Northern Lights ..	3	3 6	355	35·38	...

† 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 Sea Level.	1894		
					ft.		in.	feet.	inches.
CAITHNESS.							
Wick	The Meteor. Council ...	8	1	9	77	29·53	213
† „ (Nosshead)	Bd. of Northern Lights	8	4	8	127 ?	20·59	...
† Watten (H.R.S.) ...	The Station Agent.....	5	2	6	75 †	26·21	203
Thurso (Holburnhead)	Bd. of Northern Lights	3	0	8	60 ?	32·50	...
Dunnethead	„ „ „	...	3	0	...	26·35	...
Pentland Skerries	„ „ „	...	3	3	72 ?	25·05	...
ORKNEY.							
South Ronaldshay (Roeberry) ...	J. Gray, Esq.	5	1	2	101 †	28·40	224
Hoy (Cantickhead)	Bd. of Northern Lights	...	0	6	...	27·70	...
„ (Graemsay Sound, East=High)	„ „ „	...	3	4	27 ?	32·00	146
„ („ „ West=Low)	„ „ „	...	3	4	...	28·46	171
Pomona (Deerness)	Dr. Buchan.....	...	1	0	172	31·58	161
„ (Kirkwall)	Mr. Alex. Smith.....	3	1	3	20	34·52	215
Hellyar Holm.....	Bd. of Northern Lights	...	...	...	..	33·28	...
Auskerry .....	„ „ „	...	...	...	...	32·81	155
Sanda (Start Point)	„ „ „	11	0	6	29 ?	27·10	...
SHETLAND.							
Fair Isle, S.	Bd. of Northern Lights	...	...	...	...	17·21	130
„ „ N. ....	„ „ „	...	...	...	...	20·15	...
Sumburghead .....	„ „ „	...	...	...	...	40·14	...
„ (Dunroseness) ...	The Meteor. Council ...	8	1	0	84	36·79	234

IRELAND.

DIVISION XX.—MUNSTER.

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1894	Days on which -01 or more fell.
		Diameter	Height above Ground.	Height above Sea Level		
CORK.						
D Castletownshend (Glen Barrabane)	E. B. Coghill, Esq. ...	5	3 0	25 L	37·97	177
Bantry House	The Meteor. Council ...	...	...	...	62·50	199
D Dunmanway (Coolkelure)	Col. Shuldham	5	1 6	500 T	67·51	224
Roche's Point	The Meteor. Council ...	8	1 9	32	41·52	187
D Douglas (Villa Franca)	R. C. Sikes, Esq.	5	1 0	49 T	40·33	204
D Cork (Clarence Place)	W. Miller, Esq.	5	1 0	106 T	40·14	199
D „ (St. Ann's Hill)	Dr. M. Altdorfer	5	1 0	240	38·57	206
D Mallow (Old Dromore)	B. Williamson, Esq. ...	5	1 11	291 T	39·34	206
D Fermoy (Gas Works)	Mr. J. Grant	5	1 1	...	41·93	172
KERRY.						
D Darrynane Abbey ..	D. O'Connell, Esq.	5	1 0	13 T	50·19	241
D Waterville (Iveragh Lodge)	T. J. Wilmot, Esq.	5	1 0	86 T	54·19	239
D Kenmare (Derreen)	Mr. W. Holbrow	5	1 0	74 T	68·12	190
Valencia (Glenleam = Tel. Station)	The Meteor. Council ...	8	1 0	12	58·30	252
Cahirciveen	„ „ „	8	2 0	32	56·30	242
Mangerton	M Ven Archdeacon Wynne	8	0 8	1760	90·50	...
D Killarney (Woodlawn)	„ „ „	5	1 1	96 T	63·34	237
Dingle	Rev. J. B. Anderson ...	5	1 0	20	56·40	...
Ballyheigue	Ven Archdeacon Wynne	5	1 2	75	41·09	156
WATERFORD.						
D Knockaderry	M. J. Fleming, Esq. C.E.	5	0 9	230 T	41·77	234
Waterford (Rockenham)	A. E. Graves, Esq. ...	10	2 6	150 T	38·33	124
D „ (Brook Lodge)	C. P. Bolton, Esq., C.E.	5	1 0	104 T	42·51	192
„ (Cove Lodge)	T. N. Harvey, Esq. ...	11	7 3	90	39·81	...
„ („ „)	„ „ „ „	5	1 0	72	38·69	...
D „ (Ticor)	M. J. Fleming, Esq. C.E.	5	0 7	171 T	39·03	180
D Portlaw (Mayfield)	J. Anderson, Esq.	5	4 0	70	43·88	208
D Glenam [Clonmel]	Miss Grubb	8	1 4	80 T	42·84	212
TIPPERARY.						
D Clonmel (Bruce Villa)	J. H. Grubb, Esq.	5	1 3	110 T	41·21	214
D Caher (Duneske)	G. N. Smith, Esq.	5	0 11	193 T	40·05	210
D Tipperary (Henry Street)	J. Dowling, Esq., M.D.	5	1 0	400 P	41·22	215
D Fethard (Mobarnane)	Dr. Donaldson	5	1 1	370 L	37·65	176
D Ballina [Killaloe]	T. Crosthwaite, Esq. C.E.	5	2 0	124 T	45·87	227
D Derry Castle [Killaloe] ...	Mr. T. Manly	5	1 6	580 T	51·72	252

DIVISION XX.—MUNSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell.	
		Diameter	Height Above Ground		Height Above Sea Level		1894
			ft.	in.	feet.		inches.
TIPPERARY—(con.)							
D Nenagh (Clashnevin).....	J. Mounsey, Esq.	5	1	2	300 $\overline{\text{T}}$	39·62	226
„ (Castle Lough)	A. Parker, Esq.....	5	1	3	120 $\overline{\text{T}}$	44·00	228
D Ballingarry (Hazelfort)	Mrs. Fraser.....	5	1	0	..	38·40	228
LIMERICK.							
Newcastle West (Churchtown)...	J. Horan, Esq.	5	1	0	234 $\overline{\text{T}}$	43·53	227
Foynes	The Meteor. Council ...	5	1	0	104	42·61	214
Limerick (Roxborough).....	A. W. Shaw, Esq., C.E.	8	1	6	112 $\overline{\text{T}}$	38·87	233
„ („).....No. 2	„ „ „ „ ..	5	1	0	108 $\overline{\text{T}}$	37·89	224
D „ (Kilcornan)	Mr. J. Smyth.....	5	1	0	...	32·20	153
CLARE.							
D Killadysert (Paradise Hill)	Rev. H. Henn	5	0	11	105 $\overline{\text{T}}$	45·34	239
D O'Briensbridge (Ross)	J. Digan, Esq.	10	2	0	93	41·25	212
D Broadford (Hurdlestown).....	Major Bentley	5	1	0	167 $\overline{\text{T}}$	35·34	246
D Ennis	O. J. K. Dobbin, Esq., C.E.	10	3	2	21 $\overline{\text{L}}$	39·94	212
„ (Roslevan)	The Meteor. Council ...	5	1	11	40	39·04	218
D Miltown Malbay	M. Molohan, Esq.	5	1	0	400 $\overline{\text{T}}$	46·29	251

DIVISION XXI.—LEINSTER.

WEXFORD.						
D New Ross (Longraigue).....	J. W. Deane, Esq.....	5	1 0	210 $\overline{\text{T}}$	41·75	198
D Wexford (Bann-aboo)	Col. Magrath	8	4 0	9	38·78	170
D „ (Alma)	E. F. Ryan, Esq.	5	1 5	50 $\overline{\text{T}}$	41·26	203
D Enniscorthy (Ballyhyland)	Mrs. Moffat.....	5	1 0	365 $\overline{\text{T}}$	44·95	213
„ (Monksgrange).....	E. M. Richards, Esq...	5	1 0	565 $\overline{\text{B}}$	55·24	248
D Oulart (Wells)	C. M. Doyne, Esq. ...	5	1 0	215 $\overline{\text{T}}$	48·84	209
D Gorey (Courtown House)	Rt Hon Earl of Courtown	5	3 0	80 $\overline{\text{T}}$	38·59	170
KILKENNY.						
D Inistioge (Woodstock)	Lady Louisa Tighe ...	5	1 0	400 $\overline{\text{T}}$	36·21	190
D Graigue (Brandondale).....	R. R. Burtchaell, Esq.	5	2 0	90 $\overline{\text{T}}$	37·97	133
Kilkenny (Lavistown)	D. A. Milward, Esq....	5	2 0	180 $\overline{\text{T}}$	33·93	180
„ Castle.....	The Meteor. Council ...	8	1 0	208	38·24	203
D „ (Sion Villa)	J. O'Connell, Esq., C.E.	5	...	...	34·50	206
WICKLOW.						
D Laragh (Glendalough)	Wyndham H Wynne Esq	5	2 9	460 $\overline{\text{T}}$	63·44	201
Greystones (Knockdolian).....	R Cathcart Dobbs Esq CE	5	1 2	68 $\overline{\text{T}}$	38·78	185
D† Bray (Fassaroe)	R. M. Barrington, Esq.	10	5 0	250	44·12	199
CARLOW.						
Bagnalstown (Fenagh House) ...	D. R. P. Beresford, Esq	5	1 0	340	38·69	210
D Carlow (Browne's Hill).....	W. Browne Clayton, Esq	5	1 0	291 $\overline{\text{T}}$	37·85	207

DIVISION XXI.—LEINSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1894	
			ft. in.	feet.	inches.	
QUEEN'S COUNTY.						
Abbey Leix (Blandsfort)	J. L. Bland, Esq.	5	3 0	532 ∇	39·98	237
d Maryborough (Meelick House)...	W. H. Odum, Esq. ...	5	0 6	...	37·15	174
KING'S COUNTY.						
Parsonstown (Birr Castle)	The Meteor. Council ...	8	0 11	180	35·93	192
d " (" ")	Rt Hon Earl of Rosse FRS	8	1 0	183	35·02	191
d Meelick Lock	T. Crosthwaite, Esq. C.E.	5	2 0	122	27·79	192
d Banagher	Mr. J. Deegan	5	2 0	...	30·88	139
KILDARE.						
d Straffan House	Mr. F. Bedford	5	2 0	240 ∇	33·56	192
DUBLIN.						
Glen-na-Smoel (Water Works)...	F. P. Dixon, Esq., C.E.	5	1 6	516 ∇	42·53	235
d Killiney (Cloneevin)	R. O'B. Furlong, Esq..	5	1 0	250 ∇	32·64	196
Rathmines (Terenure)	F. P. Dixon, Esq., C.E.	8	0 6	125 ∇	30·22	208
" (Leinster Road)	E. H. Cannon, Esq. ...	5	1 0	170	30·61	194
d† Dublin (Fitz William Square) ...	J. W. Moore, Esq., M.D.	8	1 6	54 ∇	29·26	209
d " (Phoenix Park)	Col. Kirkwood, R.E. ...	8	1 0	155 ∇	30·25	228
d Lucan (The Garden).....	Mr. P. Reid	5	1 0	105 ∇	30·08	209
d Glasnevin (Botanic Gardens) ...	F. W. Moore, Esq. ...	8	1 0	68 ∇	30·40	186
d Balbriggan (Ardgillan).....	Capt. Taylor	5	1 0	210	27·24	176
d " (Laragh).....	Rev. S. P. Warren	5	1 0	57 ∇	27·99	211
MEATH.						
d Summerhill House.....	Rt. Hon. Lord Langford	5	1 0	372	31·51	208
d Athboy	J. Penrose, Esq.....	8	1 3	227	36·45	193
d Kells (Headfort)	Major Somerset Maxwell	5	3 6	230	38·82	242
Moynalty (Westland)	W. A. Barnes, Esq. ...	5	1 2	260	36·91	234
d Aclare House	Admiral Singleton, C.B.	5	3 0	170 ∇	29·18	193
WESTMEATH.						
d Athlone (Twyford)	J. P. Hodson, Esq.....	5	5 0	188 ∇	38·09	244
d Mullingar (Belvedere)	Mr. J. Bayliss	5	1 0	367 ∇	38·69	151
LOUTH.						
d Ardee (Lissrenny) .. .	T. F. Filgate, Esq.....	8	0 10	75 ∇	33·25	214
Dundalk (Farndreg)	J. Barton, Esq.	5	1 0	90 ∇	30·25	...
d Greenore	T. Chambers, Esq.....	5	1 0	4 ∇	32·00	194
Ravensdale School	Mr. Locke	8	1 6	200	35·19	155
LONGFORD.						
d Cloondra [Tarmonbarry]	T. Crosthwaite, Esq. C.E.	5	2 0	131 ∇	33·24	242
d Edgeworthstown (Currygrane Ho)	J. M. Wilson, Esq.....	5	1 0	265 ∇	38·66	206

DIVISION XXII.—CONNAUGHT.

GALWAY.

D Ballinasloe	W. H. Kempster, Esq.	5	3 0	160 ∇	42·47	232
D " (Garbally)	Earl of Clancarty	8	1 0	157 ∇	47·85	212

DIVISION XXII.—CONNAUGHT—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1894	
GALWAY—(con.)						
D Woodlawn	Mr. A. Porter.....	5	3 6	300 T	47.42	229
Ahascragh (Clonbrock)	Rt. Hon. Lord Clonbrock	10	5 4	200 T	48.60	158
D Clifden (Kylemore House)	Mr. T. McNab	5	1 0	105	89.61	241
D „ („ Castle)	Mr. A. Cameron.....	5	0 9	...	78.58	252
Tuam (Castle Hacket)	Mrs. Percy Bernard ...	5	1 0	...	45.30	227
„ (Gardenfield)	M. H. Kirwan, Esq.	5	1 0	155 T	48.04	...
„ („) ... <i>Snowdon</i>	„ „ „	5	6 0	160 T	47.93	...
ROSCOMMON.						
D Athlone	T. Crosthwaite, Esq. C.E.	5	2 0	130 A	31.97	199
D Rooskey	„ „ „	5	2 0	136 A	37.22	247
MAYO.						
Ballinrobe (Cranmore)	Miss Knox	5	0 9	99	53.82	...
„ (Kilrush)	J. Simson, Esq.	5	1 0	120 T	53.15	...
D Crossmolina (Enniscoe)	J. Pratt, Esq.	5	0 11	74 T	64.27	260
Belmullet	The Meteor. Council ...	8	1 0	40	47.85	285
SLIGO.						
Ballymote (New Park)	R. A. Duke, Esq.	5	1 2	300	45.75	...
D Collooney (Markree Observatory)	A. Marth, Esq.	5	1 0	130 A	44.33	252
„ („)	„ „ „	5	16 6	148 A	38.48	251
D Ballysadare Bay (Glen Lodge) ...	Vernon Cockram, Esq..	5	1 0	14	47.91	239
D Sligo (Mount Shannon).....	F. M. Olpherts, Esq. ..	5	4 5	70 B	42.72	222
LEITRIM.						
D Jamestown (Albert Lock)	T. Crosthwaite, Esq. C.E.	5	2 0	142 A	35.03	243
D Ballinamore (Lawderdale)	J. O. Lawder, Esq., C.E.	5	1 0	275 T	44.16	235
D Drumshanbo (Lough Allen)	T. Crosthwaite, Esq. C.E.	5	2 0	165 A	38.75	214

DIVISION XXIII.—ULSTER.

CAVAN.						
D Lough Sheelin (Arley).....	No. 2 Major Somerset Maxwell	8	1 0	225 L	38.81	253
D „ „ („) ...	No. 1 „ „ „	5	1 0	210 L	35.08	253
D „ „ („) ...	No. 3 „ „ „	5	1 0	270 L	35.52	253
D „ „ (Fortland)	„ „ „	5	1 0	325	36.14	250
D Bailieboro' (The Laurels)	„ „ „	5	1 0	520	37.35	221
D Stradone House	„ „ „	5	1 0	280	37.64	207
Cavan (Water Works)	M „ „ „	8	...	...	36.25	...
D „ (Farnham)	„ „ „	5	1 0	210	37.77	231
D Killeshandra (Cas. Hamilton) ...	„ „ „	5	1 0	250	38.04	236
D Belturbet (Cloverhill)	„ „ „	5	1 0	...	34.34	238
D „ (Red Hills)	„ „ „	5	0 9	208 A	34.33	227
D „ (Quivvy) .....	„ „ „ .....	...	...	...	35.47	236

DIVISION XXIII.—ULSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which '01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1894	
FERMANAGH.						
D Newtownbutler (Crom Castle) ..	Major Somerset Maxwell	5	1 0	200?	38·68	227
D Enniskillen (Florence Court) ...	" " " ...	8	1 9	250 †	59·84	226
D Brookboro' (Colebrook Park) ...	The Meteor. Council ...	8	1 0	279	41·43	230
MONAGHAN.						
D Dartrey [Cootehill]	Major Somerset Maxwell	5	3 0	270	38·38	229
Monaghan (Rowantree House)...	Dr. J. C. Hall.....	5	5 6	240	32·56	211
" (Bellanode)	W. J. O'Neill, Esq., C.E.	5	1 0	...	26·34	...
D Glaslough House	Major Somerset Maxwell	12	3 6	150	34·49	...
ARMAGH.						
Edward St. Station [Newry] ...	J. L. D. Meares, Esq. ...	5	1 0	22 †	37·32	...
D Armagh Observatory.....	Dr. Dreyer ..	8	1 0	205 †	33·06	225
D Rich Hill (Fruitfield)	Messrs. Lamb Bros. ...	5	3 9	...	33·01	213
D Loughgall (Manor House)	Mrs. Cope	5	1 0	205 †	30·80	210
D Charlmont Lock [Moy]..	W. J. O'Neill, Esq., C.E.	5	1 0	61	29·27	140
D Lurgan (Belle Vue)	F. W. Bell, Esq.	5	0 5	200 †	29·00	214
DOWN.						
D Warrenpoint (Summer Hill).....	Mr. B. M. Kernan.....	5	1 0	30 †	38·81	142
Newcastle (Fairleigh)	Rev. Canon Seymour...	5	1 2	12	51·45	209
D Rathfryland (Ballynagappoge)...	J. Smyth, Esq., C.E. ...	5	1 0	300	37·49	187
D Castlewellan (Lough Island) ...	" " "	5	1 0	440 †	48·64	181
Banbridge (Katesbridge)	A. Mulligan, Esq.	5	1 0	230	24·70	...
D Seaforde	Rt. Hon. Col. Forde ...	8	0 5	180 †	40·88	200
D Banbridge (Corbet Reservoir) ...	J. Smyth, Esq., C.E. ...	5	1 0	234	26·90	139
D† " (Milltown)	" " "	8	0 8	200 †	28·85	213
D† Waringstown.....	Col. Waring, M.P." ...	8	0 8	191 †	30·16	203
D Lisburn (Union Locks).....	W. J. O'Neill, Esq., C.E.	5	1 0	138	30·37	190
Hollywood Water Works	Mr. R. McLean	5	3 6	310 †	32·10	254
Donaghadee	The Meteor. Council ...	8	1 6	30	31·33	230
ANTRIM.						
Stonyford (Belfast W. W.) ...	Mr. Hamilton.....	5	1 6	437 †	33·90	232
D† Belfast (Queen's College).....	Mr. W. Taylor	11	7 4	68 †	31·63	184
D " (Springfield)	J. Firth, Esq.....	5	1 0	150 †	42·87	226
D† " (Antrim Road).....	W. Hill, Esq., C.E. ...	7	7 0	144 †	37·12	225
† Antrim (The Manse).....	the late Rev. Dr. Orr..	5	1 0	150 †	29·53	189
Carriekfergus (Dorisland).....	G. E. Reilly, Esq., C.E.	5	1 0	250 †	45·29	271
" (South Woodburn).....	" "	5	1 0	640 †	40·97	254
D " (North Woodburn).....	" "	5	1 0	735 †	44·29	261
" (Copeland).....	M " "	5	1 0	380 †	39·77	...
" " ".....	" "	5	1 0	424 †	39·42	255
" (Lough Mourne)....	" "	5	1 0	596 †	43·43	264
Ballynure (Ballyboley).....	Mr. T. H. Craig.....	5	1 4	400	46·56	211

DIVISION XXIII.—ULSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which 01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level	1894	
			ft. in.	feet.	inches.	
ANTRIM—(con.)						
D Ballymena (Harryville)	J. R. Williams, Esq.	5	1 5	150 T	39·32	241
D Broughshane (Quolie)	H. O'Hara, Esq.	5	1 4	...	41·03	228
D Ballymoney (Balnamore)	W. H. Lawlor, Esq.	5	1 5	50 T	33·81	254
Stranocum (Gardenvale)	A. McNeill, Esq.	5	1 0	160	35·09	179
D Bushmills (Dundarave).....	Sir F.E. Macnaghten, Bt	5	1 0	162 T	34·36	238
LONDONDERRY.						
D Garvagh (Moneydig).....	H. R. Morrison, Esq.	5	1 0	121	38·90	189
D Londonderry (Cloonoy Terrace)..	Mr. J. Conroy	5	1 0	68 T	40·37	244
D „ (Creggan Res.).....	Mr. J. Hutchison	8	1 0	320 T	40·67	250
D Limavady	C. D. H. Campbell, Esq.	5	4 0	81 T	32·54	238
„ (Drenagh)	C. T. McCausland, Esq.	5	1 6	80	36·55	243
Bellarena	Sir F. G. Heygate, Bt.	5	1 0	12 T	35·27	186
D Coleraine.....	J. Kennedy, Esq.	5	4 0	52 T	34·21	214
TYRONE.						
Moy (Derrygally)	W. M. Bond, Esq.	10	5 0	42	34·84	164
„ „	„ „ „ „	5	5 0	42	37·52	164
Sixmilecross Rectory	Rev. R. S. G. Hamilton	5	1 0	400	38·95	236
D Stewartstown (The Square)	A. Johnston, Esq.	5	1 4	300 T	35·16	196
Dungannon (Rockdale).....	Col. Lowry	5	1 0	300 T	37·96	245
D Omagh (Edenfel)	Col. Buchanan	8	1 0	280 T	40·12	231
D Newtown Stewart (Baron's Court)	Mr. R. Bell.....	5	1 0	250 T	41·79	236
DONEGAL.						
Killybegs	A. Brooke, Esq.	5	1 0	30	60·58	241
Castlefinn (Finn Lodge)	Sir F. G. Heygate, Bt.	5	1 0	50	40·57	187
Raphoe (Convoy Ho.)	Col. Montgomery	5	1 0	110 T	50·33	210
D Glen Alla	H. C. Hart, Esq. ....	...	...	...	49·97	276
Rathmullen	Dr. Loughnan	5	1 0	1	45·38	241
„ (Fort Royal)	Capt. Montgomery.....	...	1 0	35	45·09	...
D Buncrana (Rockfort).....	T. Colquhoun, Esq.	5	1 0	40 T	39·38	220
D Moville (Prospect Villa)	Mr. J. Lowry	8	2 0	80	39·90	237
D Horn Head	C. F. Stewart, Esq.	5	1 0	160	45·56	247
D Lough Swilly (Carrablagh)	H. C. Hart, Esq.	5	1 0	130	43·60	249
Malin Head	The Meteor. Council ...	8	1 0	220	26·54	218

SUGGESTIONS 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 ($\cdot 10$) has fallen, the cypher must *always* be prefixed ; thus, if the measure is full up to the seventh line, it must be entered as $\cdot 07$, 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 $\cdot 1$) a cypher must be added, making it $\cdot 10$. 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 $\cdot 01$, observers whose gauges are sufficiently delicate to show less than that, are, if the amount is under $\cdot 005$, to throw it away, if it is $\cdot 005$ to $\cdot 010$ inclusive, they are to enter it as $\cdot 01$.

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 $\cdot 01$ 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.