

BRITISH RAINFALL,
1901.



For explanation see p. 116.

Macmillan

BRITISH RAINFALL

ON

THE DISTRIBUTION OF RAIN

OVER THE

BRITISH ISLES,

DURING THE YEAR

1901,

AS OBSERVED AT ABOUT 3500 STATIONS IN
GREAT BRITAIN AND IRELAND,

WITH ARTICLES UPON VARIOUS BRANCHES OF RAINFALL WORK.

COMPILED BY

H. SOWERBY WALLIS,

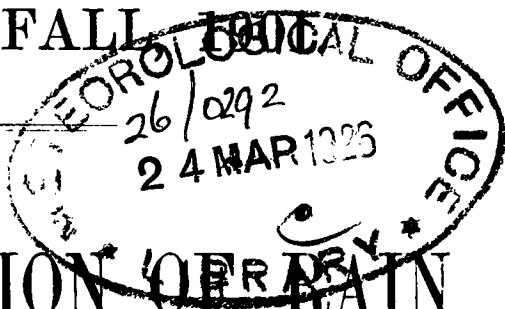
AND

HUGH ROBERT MILL,

D.Sc., LL.D.

LONDON:

EDWARD STANFORD, 12, 13 & 14, LONG ACRE, W.C.
1902.



ERRATA IN BRITISH RAINFALL, 1900.

- Page 71. Delete line 5—Rev. A. Bethune.
- „ „ „ „ 32 & 33—J. Hansford Hill, Esq.
- „ „ „ „ 40—Rev. Canon Musgrave.
- „ 72. „ „ 14—T. Stonham, Esq.
- „ [157]. Buckhorn Weston, February, *for* 3·82 in. *read* 4·82 in., and Total
for 27·47 in. *read* 28·47 in.
- „ [178]. Wimbledon (Sewage Works), *for* 19·62 in. *read* 19·71 in.
- „ [179]. Folkestone (Sanatorium), *for* 29·65 in. *read* 28·93 in.
- „ [195]. Moulton. Delete the record, an incorrect glass was used.
- „ [221]. Huddersfield (Dalton). Delete the record.
- „ [236]. Bangor (Penrhyn Castle Gardens). Delete the record.

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PREFACE.

IN the preface to *British Rainfall*, 1900, we expressed the hope that we might be able to return to July as the date of publication. This hope we have not been able to fulfil this year, but, in spite of the greatly diminished power to work of one of us, we still cherish the hope. We are ten days earlier than we were last year, and we might perhaps claim the indulgence of our readers on the ground that the preface to the 1891 volume was dated July 28th, or ten days earlier, and that whereas in the ten years the number of records has increased by 700, or 25 per cent., the time occupied in the preparation of the volume has increased by only 5 per cent.

The work is that of our correspondents, and to them the nation is indebted not only for the observations but for the cost of preparing them for publication and issuing them from the press. We believe that no other nation can show a parallel example of disinterested labour for the public weal.

H. SOWERBY WALLIS,
HUGH ROBERT MILL.

August 7th, 1902.

REPORT.

General Work.—We should like to refer new readers to this section of the Report in the 1900 volume, as there is much in it that we think would interest them. It is unnecessary to reprint it, but it refers equally to the present volume. All the critical examination there mentioned has been applied to the records for 1901, and we confidently hope that when the list of errata comes to be compiled, it will prove as short as usual. We are very reluctant to trespass on the time of Observers, but no doubt almost all make a summary of their observations on one of the small forms, and it would be a great convenience if all would send a copy of this as well as the sheet giving the daily readings. It would take each observer very little time to make one extra copy of the summary, while for our assistants to extract the details afresh from a considerable number of daily records increases the work of preparing the annual volume very considerably. A point on which we should like to ask for greater care is the measurement of the height of the top of the gauge above ground. In many cases there are variations year after year of a few inches up or down in the height quoted although the gauge has not been moved. In a few cases this variation extends to a foot or even more. No doubt the height above ground is frequently *estimated*, not *measured*.

Overflow.—The 1901 returns give us reason to hope that the obsolete patterns of rain gauge of insufficient capacity are gradually dropping out of use, for the number of cases of records spoiled by the gauge running over is less than usual, although the year was marked by an excess, rather than a deficiency, of heavy rains.

Additional Observers.—We are glad that the total number of records has returned to the normal condition of growth, though the increase in number is small. Observers do not, perhaps, fully realize that we are glad of additional returns from every part of the British Isles; for even in districts where records are plentiful, removals and deaths are constantly occurring. In thinly populated districts not only is there a greater scarcity of observers, but as a

rule the physiography is such that the variations of rainfall are much greater. In such districts, therefore, additional observers are doubly valuable.

Rainfall of Snowdonia.—Mr. Gethin Jones in 1901 succeeded in securing no fewer than thirteen records from gauges on the eastern slopes of Snowdon, nine of them yielding totals exceeding 100 inches. These gauges of course cannot be visited at frequent intervals and occasionally not for three or four months, so that they necessarily lack the precision of daily records, more especially as regards snow, but no doubt they are as reliable as the conditions will allow, and as accurate as those in other similar districts. With such rainfalls as prevail there, the precision of laboratory experiments is unnecessary. Once more he has had the annoyance of finding one of the gauges maliciously destroyed by tourists.

Rainfall of the Decade 1890–1899.—The whole of the averages for the ten years have now been calculated, and we find that our estimate in *British Rainfall*, 1900, of a total number of 1850 records was very near the truth. The labour of making these calculations, in all nearly 25,000, was very considerable.

Galvanized Iron Gauges.—Two or three cases of failure of these gauges have come to light through the edges of the iron at the seams rusting, and it is desirable that the seams be painted from time to time. These gauges are strong and serviceable, but no material is equal to copper for rain gauges. The one defect of that metal is that the gauges are worth stealing for the intrinsic value of the copper.

Snow.—Heavy falls of Snow in February, 1901, and again in December, emphasized the difficulty of accurate measurement, and we would urge upon Observers careful attention to Rule XV.

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.

Even with the greatest care considerable uncertainty must attach to the measurement if high wind accompanies the snow, as was the case with some of the heavier falls in 1901. In a few instances we have adjusted the values and printed the totals in italics, but we have only done this where the amount recorded by the gauge was very discordant.

Date of Entry.—The value of rainfall work depends in great measure on the care with which Observers follow the rules. The great majority are extremely careful in this respect, and so it becomes easier every year to detect instances in which the rules are not regarded. But to do so involves considerable loss of time, and we venture to urge such Observers as have not hitherto acted upon Rule IX. to begin to do so on the 1st of January next.

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 the 17th, contains the fall during 15 hours of the 16th, and only 9 hours of the 17th.

Finance.—We regret to have to announce a falling-off in receipts which will amount to about ten per cent. of the total income, unless a considerable number of new subscriptions should be received before the close of the year. With an income that at any time barely covers the cost of the collection, discussion, and publication of the data contained in the volume, such a shrinkage is necessarily productive of anxiety. We cannot express surprise that it has occurred, considering the increase of taxation and the exceptional expenses of a Coronation year; added to this, as mentioned in the Obituary, an exceptional number of old friends of the Organization have been called to their rest, and the loss of their financial support is considerable. We have not restricted the size, nor, we hope, impaired the quality, of the publications, and we ask all observers to whom the expense is not important to become subscribers for the annual volume and the monthly magazine.

LIST OF ALL SUMS OF £1 AND UPWARDS RECEIVED IN PAYMENT
FOR BOOKS, DIAGRAMS, &c., OR AS CONTRIBUTIONS TO THE
GENERAL EXPENSES OF RAINFALL INVESTIGATIONS IN 1902.

CORPORATIONS AND WATER COMPANIES.

	£	s.	d.		£	s.	d.
Aberdeen Corporation	1	1 0
Aire and Calder Navigation Company	1	6 0
Birmingham Corporation	2	12 0
Bolton	1	0 0
Brighton	3	0 0
Bristol	1	1 0
Bury	1	0 0
Cardiff	1	1 0
Clevedon Water Board	1	1 0
Hull Corporation..	1	1 0
Leicester	1	17 0
Lowestoft Gas and Water Company..	1	1 0
Nottingham Corporation	2	1 0
Sheffield	1	1 0
Weaver Navigation Trust	1	6 0

	£	s.	d.		£	s.	d.
Addington, Rt. Hon. Lord	1	1	0	Bentley, R., Esq.....	2	2	0
Ainsworth, Col. D.....	1	1	0	Benyon, J. H., Esq.	1	10	0
Aitken, R., Esq.	1	0	0	Berners, C. H., Esq.	1	1	0
Allcard, Miss	1	15	0	Berridge, W., Esq.....	1	7	0
Allen, A. C., Esq.	1	0	0	Berryman, F. H., Esq.....	1	1	0
Ames, F., Esq.	1	0	0	Best, Colonel	1	10	0
Appach, Miss	1	1	0	Bickham, S. H., Esq.	1	0	0
Argles, T. A., Esq. (2 years)	1	0	0	Bilham, C. S., Esq.	1	0	0
Arkwright, J. H., Esq.....	1	0	0	Billiat, J., Esq., J.P.....	1	0	0
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Assheton, R., Esq.	1	10	0	Blathwayt, Colonel Linley	1	1	0
Aston, Miss Emily.....	1	1	0	Boscawen, Capt. Griffith	1	2	0
Backhouse, Mrs.	1	0	0	Boston, Rt. Hon. Lord.....	3	13	0
" T. W., Esq.	5	15	0	Boughton, Miss F. H. R.....	1	1	0
Bacon, J. W., Esq.....	1	0	0	Boys, Rev. H. A.	1	3	0
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Baines, G. H., Esq.	1	4	0	Bradshaw, Mrs.	1	1	0
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Bankes, John, Esq.	1	1	0	Brown, Miss.....	2	0	0
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Mansergh, J., Esq., C.E., F.R.S..	2	2	0	Rayner, F., Esq., C.E.	1	1	0
Maples, C. E., Esq.	1	6	0	Rees, Togarmah, Esq., C.E.....	3	15	0
Markham, C. A., Esq.	1	0	0	Remington, J. Stewart, Esq.	1	5	0
Marshall, J., Esq.	2	0	0	Rendlesham, Rt. Hon, Lord	3	0	0
„ Stephen A., Esq.....	5	0	0	Reynolds, L. W., Esq.	1	1	0
Marson, F. B., Esq.	1	1	0	Rideout, Rev. G. A.	1	1	0
Marten, E. B., Esq., C.E.....	1	17	0	Ridout, Rev. G.	1	1	0
„ E. D., Esq., C.E.....	1	5	0	Riley, Mrs.	1	0	0
Martineau, Miss	1	0	0	Ritson, T. N., Esq., C.E.	1	0	0
Mathew, Mrs.	2	2	0	Roberts, J. F., Esq.	1	1	0
Mathews, W. Esq., C.E.	1	1	0	Roe, Surgeon-General, C.B.	1	1	0
Maw, C. Trentham, Esq.....	1	1	0	Rogers, Major J. M.	1	10	0
Mawley, E., Esq.	1	2	0	Rolle, The Hon. Mark	1	1	0
Meares, J. L. D., Esq.	1	0	0	Rosling, H., Esq.	1	1	0
Mellish, H., Esq.	2	10	0	Ross, Rev. J. C.	1	0	0
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THE AVERAGE RAINFALL OF THE DECADES
1880-89 AND 1890-99.

By HUGH ROBERT MILL, D.Sc., LL.D.

THE words "average rainfall" or "mean rainfall" are devoid of scientific meaning unless the period to which they refer is specified, since the averages for different periods at the same station may vary greatly. In 1892 Sir A. R. Binnie formulated certain rules in his discussion of Mean or Average Rainfall,* based on the study of a number of long records in all parts of the world, and quite recently the leading continental meteorologist, Dr. Julius Hann, has made an exhaustive investigation into three records of 176, 137, and 100 years respectively, which fully confirm the conclusions.† Dr. Hann showed that the mean of any thirty consecutive years was almost as near the true mean as the mean of any forty consecutive years, and that it was subject to much less variation than the mean of any twenty consecutive years. Table I., dealing with some of the longest records in the British Isles, presents the same facts with regard to our own country, and yields the same result.

* Min. Proc. Inst. C.E., Vol. CIX., Pt. iii.

† Sitzber. k. Akad. Wiss. Wien. Math.-naturw. kl., Bd. CXI.

TABLE I.—AVERAGE RAINFALL FOR LONG PERIODS.

	Camden Square.		Chilgrove.		Nash Mills.		Orleton.		Boston.		Kendal.		Seathwaite.		Loch Leven.		Rothsay.		Aver.
	in.	(34.16)	in.	(26.76)	in.	(28.60)	in.	22.56	in.	56.20	in.	110	in.	...	in.	...	in.	...	101
10 Year Means	...	33.41	100	25.86	96	28.41	96	24.58	108	51.18	100	...	...	(35.18)	98	49.94	104	100
1830-9.....	...	32.23	96	26.43	98	28.82	98	20.65	91	44.91	88	126.98	93	35.66	99	45.93	95	95	
1840-9.....	...	33.22	99	26.39	98	30.90	105	22.09	97	53.32	105	154.05	113	36.22	101	50.67	105	103	
1850-9.....	25.68	35.05	105	28.66	106	33.26	113	23.53	103	51.78	101	134.95	99	38.05	106	50.65	105	105	
1860-9.....	27.24	32.83	98	28.94	107	30.25	102	24.99	110	48.40	95	129.01	95	34.73	97	46.42	96	100	
1870-9.....	25.45	33.60	100	(25.30)	94	(26.40)	89	20.91	92	51.04	100	136.63	100	35.83	100	(47.00)	98	96	
1880-9.....	22.78	...	...	26.31	98	28.50	96	23.57	104	53.69	105	...	...	...	...	...	...	101
20 Year Means	...	32.82	98	26.15	97	28.61	97	22.61	99	48.04	94	...	...	35.42	99	47.93	99	98
1830-49 ...	...	32.72	98	26.41	98	29.86	101	21.37	94	49.11	96	140.51	103	35.94	100	48.30	100	99
1840-59 ...	...	34.13	102	27.52	102	32.08	109	22.81	100	52.55	103	144.50	106	37.13	103	50.66	105	104
1850-69 ...	26.46	33.94	101	28.80	107	31.76	108	24.26	107	50.09	98	131.98	97	36.39	101	48.53	101	103	
1860-79 ...	26.34	33.21	99	27.12	101	28.32	96	22.95	101	49.72	97	132.82	97	35.28	98	46.71	97	99	
1870-89 ...	24.12	...	...	26.35	98.0	28.61	97.0	22.60	99.5	50.76	99.5	...	...	...	...	...	...	99.0
30 Year Means	...	32.95	98.5	26.23	97.5	29.38	99.5	22.44	98.5	49.80	98.0	...	...	35.69	99.5	48.85	101.5	99.0
1830-59 ..	...	33.50	100.0	27.16	101.0	30.99	105.0	22.13	97.0	50.00	98.0	138.66	102	36.64	102.0	49.08	102.0	99.0
1840-69 ...	...	33.70	100.5	28.00	104.0	31.47	106.5	23.54	103.5	51.17	100.5	139.34	102	36.33	101.0	49.25	102.5	100.5
1850-79 ...	26.12	33.83	101.0	27.63	102.5	29.97	101.5	23.14	101.5	50.41	99.0	133.53	98	36.20	101.0	48.02	99.5	103.0	
1860-89 ..	25.16	...	...	26.36	98.0	29.18	99.0	22.47	98.5	51.40	101.0	...	...	...	...	...	...	100.5
40 Year Means	...	33.48	100.0	26.83	99.5	30.35	103.0	22.71	100.0	50.30	98.5	...	...	36.28	101.0	49.37	102.0	99.0
1830-69 ...	...	33.33	99.5	27.60	102.5	30.81	104.5	22.82	100.0	49.60	97.5	136.25	100.0	36.16	100.5	48.42	100.5	100.5
1840-79 ...	...	33.67	100.5	27.32	101.5	30.20	102.0	22.88	100.5	51.13	100.0	138.66	101.5	36.21	101.0	48.69	101.0	101.0
1850-89 ...	25.29	...	...	26.82	99.5	30.02	101.5	22.68	99.5	51.48	101.0	...	...	...	...	...	...	99.0
1860-99 ...	...	33.35	99.5	27.26	101.5	30.33	102.5	23.17	101.5	49.92	98.0	...	...	35.97	100.0	48.72	101.0	100.5
50 Year Means	...	33.39	99.5	27.14	101.0	29.93	101.5	22.43	98.5	49.89	98.0	136.32	100.0	36.10	100.5	48.13	100.0	100.0	
1830-79 ...	...	...	...	26.82	99.5	30.02	101.5	22.68	99.5	51.48	101.0	...	...	...	...	...	...	100.5
1840-89 ...	...	33.61	100.5	27.26	101.5	30.33	102.5	23.17	101.5	49.92	98.0	...	...	35.97	100.0	48.72	101.0	100.5
1850-99 ...	...	33.39	99.5	27.14	101.0	29.93	101.5	22.43	98.5	49.89	98.0	136.32	100.0	36.10	100.5	48.13	100.0	100.0
60 Year Means	...	33.48	100.0	27.17	101.0	30.04	101.5	23.07	101.5	50.96	100.0	...	...	...	...	...	...	101.0
1830-89 ...	...	33.39	99.5	26.93	100.0	29.67	100.5	22.79	100.0	50.10	98.5	...	...	...	...	...	...	100.0
1840-99 ...	...	...	...	27.17	101.0	30.04	101.5	23.07	101.5	50.96	100.0	...	...	...	...	...	...	101.0
70 Year Means	...	33.50	100.0	26.91	100.0	29.52	100.0	22.76	100.0	50.98	100.0	...	...	...	...	...	...	100.0
1830-99 ...	...	(100.0)	100.0	26.91	100.0	29.52	100.0	22.76	100.0	50.98	100.0	...	...	...	(100.0)	...	(100.0)	100.0

The eight longest records which could be used for this purpose are discussed together with that for Camden Square. Under each station is given the mean annual rainfall in inches for various periods, and the ratio which the mean for each period bears to the mean of the whole series of years at that station. As five of the records extend over 70 years and two over 60, the respective means are reduced for easy comparison to their percentage of a 70 years' average; the correction applied in the two cases where a correction is necessary being equivalent to less than .25 in. on the total annual fall. The figures are dealt with in groups of ten years, not because there is any magical virtue in the number 10 but merely for convenience, as it is usual to keep an abstract of the records on sheets containing ten years, and when masses of figures have to be averaged there is a great saving of labour in using groups of ten each. Similarly it is convenient to calculate the averages of longer periods in even groups of ten years; and although this method is not the most thorough, it is quite sufficient to fulfil the purpose of the present article.

We wish to lay stress on the very considerable difference between the mean of one ten-year period and that of another at the same station, and on the very slight difference between the mean of one thirty-year period and that of another; for on this important fact the trustworthiness of long averages depends.

Table II. is a selection from Table I., designed to bring into prominence the variability of the different periods from the mean of the whole series.

TABLE II.—*Variability of Short Periods.*

Length of Periods.	10 years. Per cent.	20 years. Per cent.	30 years. Per cent.	40 years. Per cent.
Maximum range for any station.....	24	13	9·5	5·5
Max. percentage for same station ...	113	109	106·5	104·5
Min. percentage for same station ...	89	96	97	99
Average max. range for all stations ...	10	6	4	2
Max. percentage for all stations.....	105	104	103	101
Min. percentage for all stations	95	98	99	99

On looking along the lines from left to right it will be seen that the range steadily diminishes, the maximum steadily diminishes and the minimum steadily increases. The line showing the average range brings out the fact that while there may be a difference of 10 per cent. between the wettest and the driest period of ten years, there is likely to be a difference of only 4 per cent. between the wettest and driest period of thirty years.

These tables deal with long series of observations at a few stations, and must not be taken as affording more than an indication of the sort of variations which occur over the country as a whole, unless confirmed independently. They show, indeed, that all parts of the country do not vary in exactly the same way at the same time. Thus, in Table I., it will be noticed that for the decade 1860-69, Seathwaite had 113 per cent. of the true average fall, and Boston only 97 per cent.; a difference of 16 per cent. in the same year. For the 40 years, 1860-99, however, the greatest difference that can be found between two stations is two per cent., Orleton having 102 and Kendal 100. The regional difference thus also tends to become insignificant as the length of the time of the observation increases. When the percentage figures for a large number of stations are plotted on a map, it is found that these differences are so regularly distributed that no station varies appreciably from its immediate neighbours, although the existence of a steady change in one direction may cause two distant stations to differ considerably from one another. This also is an extremely important fact, for it very often enables a defective rain-observing station to be detected by its want of harmony with the stations immediately around it.

Bearing in mind those hints as to the variation in deviations from average rainfall between different stations at the same time, and between different times at the same station, we may proceed to consider specially the facts regarding the rainfall of the last two completed decades, 1880-89 and 1890-99. As a standard for comparison we have taken the period of 30 years, 1870-99, because it is the longest period for which the records of a large number of stations are available. From 387 stations in the British Isles complete returns of rainfall have been received for every individual year; and from 668 other stations the records extend over so long a period, that, by comparison with the complete records of neighbouring stations, we have been able to compute trustworthy mean values for 30 years.

As 1870-99 is the thirty-year period with which we must work, it is interesting to see how it compares with the other 30-year periods dealt with in Table I. The comparison is most satisfactory, because it shows that on the average of all the stations 1870-99 only differs by 0.5 per cent. from the 70 years' average, and that none of the other four 30-year periods come so near. Looking at the individual stations we see that at five the period 1870-99 differs from the true

mean by 1 per cent. or less, at two it differs by 1·5 per cent., at one by 2 per cent., and at one by 2·5 per cent. The conclusion arrived at in the article on the Decade 1890-99 in *British Rainfall* for 1899 to the effect that the mean for 1870-99 did not differ more than 1 per cent. from the mean of fifty years is thus confirmed. It is not only confirmed but extended, and we can now say that the thirty-year period 1870-99 yields a mean practically identical with that for seventy years, and that in several respects it is better than any of the thirty-year periods commencing in 1830, 1840, 1850 or 1860.

In 1899 the relations of the decade just completed were dealt with in a preliminary way ; but although the paper was called an interim report, it was so complete as regards the treatment of the monthly fall that it is unnecessary to go into that part of the subject again. We may, however, deal a little more fully with the total annual falls. For this purpose, Table III. has been drawn up. It does not contain all the stations with complete thirty-year records, for many of them lie so close together that one was sufficient to represent a group. It does include, on the other hand, a certain number of stations, the records for which had to be completed by computation, because a large tract of country would otherwise be unrepresented. In the Table the means for any decade completed by computing the values for some missing years are enclosed in brackets ; this does not mean that the numbers cannot be trusted, for unless we could trust them we would not print them, but merely that they have been computed from sufficient data, although not from continuous observations of the same gauge. In a few outlying stations where more than three years were wanted to complete a decade, the figure is not printed ; but even there the mean for the thirty-year period is probably correct to the nearest inch. The Table contains 81 stations for England and Wales, 44 for Scotland, and 29 for Ireland, a total of 154, more than twice the number dealt with in 1899. Their distribution is good, except in the Western Highlands and Islands of Scotland, where there are some unfortunate gaps. The data given in the Table are—the height of the rim of the rain gauge above the ground, the height above sea-level, the mean rainfall for the 10 years 1880-89, the mean rainfall for the 10 years 1890-99, the mean rainfall for the 30 years 1870-99, all expressed in inches, and the mean rainfall of each of the two decades expressed as a percentage of the mean rainfall of 30 years.

TABLE III.—*Comparison of the Rainfall of the Decades 1880-89 and 1890-99, with the Thirty Year Period 1870-99.*

Div.	Stations.	Height of Gauge.	Height above sea.	1880-89.	1890-99.	1870-99.	Per cent. of 30 year mean.	
				in.	in.	in.	1880-89.	1890-99.
I.	London, Camden Square ...	0 8	111	25·45	22·78	25·16	101	91
II.	Dorking, Holmwood	1 2	320	31·50	30·82	32·71	96	94
	„ Cranbrook, Hartley	4 0	405	30·76	29·07	30·77	100	94
	„ Acrise, School House.....	1 0	504	36·17	37·16	36·79	98	101
	„ Arundel, Yapton	1 0	24	28·25	26·37	28·22	100	93
	„ Eastbourne, Osborne Ho. ...	1 0	12	30·61	29·96	30·98	99	97
	„ Ventnor, Hospital	1 0	75	29·24	27·97	29·10	100	96
	„ Alton, Ashdell	3 6	433	32·22	31·85	33·20	97	96
III.	Hertford, Bayfordbury	1 2	250	25·04	22·84	24·97	100	91
	„ Winslow, Addington	1 0	309	27·97	23·84	26·75	105	89
	„ Henley, Greys	2 6	370	27·10	25·00	27·47	99	91
	„ Kettering	1 3	300	27·18	23·37	25·80	105	91
	„ Whittlesea Mere.....	1 6	...	24·74	20·27	23·09	107	88
	„ Cambridge, Observatory ...	1 0	84	23·87	21·58	23·07	103	94
IV.	Shoeburyness	7 0	18	19·23	18·01	19·75	97	91
	„ Saffron Walden, Newport...	3 6	208	24·82	24·27	(24·80)	100	98
	„ Ipswich, Bishops Hill	1 0	104	24·08	22·83	23·48	103	97
	„ Bury St. Edmund's, Westley	1 0	226	25·31	25·34	25·39	100	100
	„ Yarmouth, Halvergate Hall	3 3	48	24·18	21·27	23·96	101	89
	„ Swaffham, Dunham	1 1	320	28·76	25·92	28·41	101	91
V.	Ludgershall	0 8	422	30·77	29·59	31·31	98	94
	„ Marlborough, Mildenhall ...	1 0	456	30·18	28·22	30·19	100	93
	„ Wimborne Minster, Chalbury	2 0	338	29·64	29·82	31·06	95	96
	„ Ilington, Middlecott House.	3 6	649	47·68	(45·96)	48·23	99	95
	„ Cleveland [Lyme Regis] ...	1 11	465	35·32	33·43	35·67	99	94
	„ Polapit Tamar [Launceston]	2 9	315	38·18	36·79	38·85	98	95
	„ S. Molton, Castle Hill	3 9	600	42·11	42·06	43·93	96	96
	„ St. Ives, Phillack Rectory..	1 0	70	35·46	35·27	36·68	97	96
	„ St. Austell, Trevarna	0 6	300	47·10	42·75	47·16	100	91
	„ S. Petherton	0 8	110	29·31	27·94	29·58	99	94
	„ Frome, Mells Rectory	1 0	344	38·90	34·52	38·57	101	90
VI.	Fairford, Hatherop Rec. ...	1 3	411	30·15	24·95	28·99	104	86
	„ Ross, The Graig	1 0	213	31·18	25·61	29·51	106	87
	„ Kington, Lynhales.....	1 0	566	35·32	29·50	33·56	105	88
	„ Woolstaston.....	1 0	800	33·07	28·96	33·04	100	88
	„ Oswestry, Hengoed	6 0	470	34·95	(28·50)	34·33	102	83
	„ Adderley Rectory	0 9	290	28·80	26·69	29·13	99	92
	„ Wolverhampton, Wrottesley	1 0	500	28·10	23·38	27·28	103	86
	„ Evesham, Lansdowne	5 0	108	24·79	20·45	24·22	102	84
	„ Tenbury, Orleton	0 9	200	30·25	(26·40)	29·97	101	88
	„ Southam	2 6	...	(24·15)	22·59	24·27	100	93
VII.	Thornton Reservoir	1 2	371	27·69	24·17	26·48	105	91
	„ Belvoir Castle	1 0	260	28·02	23·29	25·69	109	91
	„ Boston	6 6	25	24·77	20·20	23·30	106	87
	„ Horncastle, Revesby	2 0	135	26·62	22·23	24·77	107	90
	„ Gate Burton.....	3 6	96	24·25	21·49	23·26	104	92
	„ Grimsby	15 0	42	23·49	20·34	22·29	105	91
	„ Eastwood Colliery	1 0	245	(29·94)	24·70	29·00	103	85
	„ Chapel-en-le-Frith	3 6	965	38·19	37·28	39·34	97	95

Div.	Stations.	Height of Gauge.	Height above sea.	1880-89.	1890-99.	1870-99.	Per cent. of 30 year mean.	
							1880-89.	1890-99.
		ft. in.	ft.	in.	in.	in.		
VIII.	Neston, Hinderton.....	1 0	215	28·06	27·39	28·67	98	96
„	Southport, Hesketh Park...	1 0	38	33·38	30·88	33·22	100	93
„	Rawtenstall, Clough Bridge	1 0	900	46·01	47·80	48·69	94	98
„	Clitheroe, Downham Hall...	1 6	464	40·78	41·47	41·88	97	99
„	Caton, Escowbeck	3 0	150	39·15	41·28	41·01	95	101
„	Ulverston, Poaka Beck.....	1 6	512	51·67	52·16	51·80	100	101
IX.	Wath-upon-Dearne.....	3 0	188	27·94	23·16	25·99	108	89
„	Leeds, Allerton Hall	0 7	418	28·36	26·48	28·02	101	95
„	Grimwith Reservoir	1 0	890	46·08	44·44	45·61	101	97
„	Sedbergh, Thorn's Hall	1 0	400	49·11	54·75	52·50	94	104
„	Beverley	7 0	62	25·61	(24·50)	(25·16)	102	97
„	Old Malton ..	1 0	75	26·90	24·79	26·71	101	93
„	Northallerton, Osmotherly.	0 8	650	27·77	23·86	27·35	102	87
X.	Hartlepool, Heugh Light Ho.	0 6	34	27·95	(21·70)	26·35	106	82
„	Wolsingham.....	1 0	464	35·27	33·26	34·75	101	96
„	Haltwhistle, Unthank Hall.	0 9	380	35·97	33·89	35·46	101	96
„	Hallington	0 6	469	30·19	29·38	31·09	97	94
„	Howick Hall	0 10	121	27·61	26·90	28·29	98	95
„	Seathwaite .....5-in. g.	1 0	422	129·01	136·63	133·53	97	102
„	Aspatria, Brookfield	0 9	124	33·31	38·63	35·66	93	108
„	Appleby, Castle Bank	1 2	440	32·75	35·10	34·05	96	103
XI.	Cardiff, Lisvane	1 0	150	40·02	34·08	39·93	100	85
„	Aberdare, The Mardy	2 0	431	60·63	57·98	62·93	96	92
„	Llanelly, Cwmlledi W.W..	3 0	240	42·61	47·56	(46·90)	91	101
„	Haverfordwest	1 0	95	47·12	43·20	47·88	98	90
„	Castle Malgwyn	1 0	...	45·29	40·85	43·85	103	93
„	Aberystwith, Gogerddan ...	1 0	80	45·92	44·67	45·41	101	98
„	Rhayader, Nantgwillt	1 0	768	62·80	56·82	61·45	102	92
„	Bala	1 0	590	50·37	51·98	51·45	98	101
„	Talarvor	2 0	49	36·53	35·56	35·83	102	99
„	Llandudno	0 8	99	28·81	30·49	30·98	93	98
„	Llanerchymedd	1 0	112	36·63	38·60	(38·21)	96	101
XII.	Stoneykirk, Ardwell House	3 9	107	34·10	34·77	(35·05)	97	99
„	Gatehouse, Cally	1 0	120	49·15	47·90	48·74	101	98
„	Cargen [Dumfries]	1 0	80	39·74	43·90	43·43	92	101
„	New Galloway, Glenlee.....	1 3	234	55·35	55·35	(56·40)	98	98
„	Moffat, Ericstane	0 6	580	52·63	52·60	54·97	96	96
„	New Castleton, The Flatt...	0 9	350	43·90	(47·00)	46·84	94	100
XIII.	Galashiels.....	0 8	416	33·96	31·26	33·82	100	92
„	Marchmont House	1 0	500	34·01	31·86	34·91	97	91
„	Edinburgh, Charlotte Sq....	0 6	230	24·18	(25·00)	26·10	93	96
XIV.	Biggar, Cambus Wallace ...	0 6	748	29·98	31·06	30·72	98	101
„	Girvan, Pinmore.....	1 0	187	48·25	46·98	48·87	99	96
„	Dalmellington, Benquhat ...	1 6	1068	...	49·76	(50·80)	...	98
„	Ardrossan, Kirkhall	3 0	106	34·92	36·00	(36·80)	95	98
„	Paisley W.W., Stanely.....	1 0	190	39·81	39·76	42·45	94	94
XV.	Arrochar	0 9	12	74·10	71·40	76·64	97	93
„	Falkirk, Kerse	1 0	18	28·97	32·40	31·61	92	102
„	Loch Sunart, Glenborrodale	0 2	60	69·34?	66·43	65·06?	107	102
„	Locheil, Corran	0 4	14	75·40	83·60	77·09	98	108
„	Tarbert, Stonefield.....	0 9	90	69·63	71·85	71·07	98	101
„	Islay, Eallabus	1 0	68	47·65	46·79	47·68	100	98
„	Mull, Quinish	1 6	35	57·28	56·30	(57·50)	100	98

Div.	Stations.	Height of Gauge.	Height above sea.	1880-89.	1890-99.	1870-99.	Per cent. of 30 year mean.	
				in.	in.	in.	1880-89.	1890-99.
XVI.	Loch Leven Sluice	0 7	360	34·73	35·83	36·20	96	99
"	Balquhiddel, Stronvar	1 0	422	73·44	72·98	(74·70)	98	98
"	Dunkeld, Inverbraan .....	...	...	38·37	38·00	(39·80)	96	95
"	Dalnaspidal	1 6	1414	57·61	63·48	61·02	94	104
"	Dundee, E. Necropolis	0 4	199	27·24	27·55	28·95	94	95
XVII.	Fettercairn, The Burn	0 11	250	33·07	33·34	34·75	95	96
"	Braemar	0 9	1114	35·57	34·51	36·07	99	96
"	Cromar, Logie Coldstone ...	1 0	694	28·62	29·60	30·14	95	98
"	Aberdeen, Rose Street	0 5	95	27·76	(27·94)	29·15	95	96
"	Old Deer	2 0	135	30·57	32·05	32·50	94	99
"	Keith, H.R.S.	1 0	364	29·98	33·84	32·72	92	103
"	Grantown	1 1	712	28·65	31·69	31·00	92	102
"	Forres, H.R.S.	1 0	25	22·31	24·72	24·33	92	102
XVIII.	Braemore House	0 7	750	57·94	64·48	58·56	99	110
"	Butt of Lewis	3 6	...	34·87	39·21	38·25	91	103
"	Alness, Ardross Castle	1 0	450	35·31	38·14	37·84	93	101
"	Glenquoich	2 4	590	102·64	112·44	108·26	95	104
"	Skye, Kyle Akin .....	...	...	62·18	60·38	64·52	96	94
XIX.	Golspie, Dunrobin Castle M	0 3	13	30·07	31·09	31·03	97	100
"	Scourie	0 5	28	40·58	(45·00)	42·47	96	106
"	Wick, Noss Head	4 8	127	24·44	27·19	26·37	93	103
"	Watten, H.R.S.	2 6	75	27·01	28·03	(27·40)	99	102
"	S. Ronaldshay, Roeberry ...	1 2	101	31·61	36·09	33·15	95	109
XX.	Cork, Roche's Point	1 9	32	46·46	43·32	(47·20)	98	92
"	Kenmare, Dereen	1 0	74	67·99	66·16	(69·50)	98	95
"	Valencia, Glanleam	1 0	12	55·86	55·30	(55·90)	100	99
"	Killarney, Woodlawn	1 1	96	...	55·10	(58·10)	...	95
"	Glenam [Clonmel]	1 4	80	42·15	40·89	42·17	100	97
"	Derry Castle [Killaloe] ..	1 6	580	46·33	47·55	(47·70)	97	100
"	Miltown Malbay	1 0	400	44·12	45·31	(44·50)	99	102
XXI.	New Ross, Longraigue	1 0	210	39·29	38·75	40·54	97	96
"	Gorey, Courtown House ...	3 0	80	35·39	33·62	35·72	99	94
"	Carlow, Browne's Hill	1 0	291	33·59	33·65	34·44	98	98
"	Parsonstown, Birr Castle ...	1 0	180	32·22	32·96	33·06	97	100
"	Dublin, FitzWilliam Square	1 6	54	27·47	27·30	27·75	99	98
"	Moynalty, Westland	1 2	260	...	36·67	(37·40)	...	98
"	Mullingar, Belvedere	1 0	367	34·69	36·50	(36·50)	95	100
XXII.	Ballinasloe	3 0	160	35·66	36·58	37·04	96	99
"	Clifden, Kylemore House...	1 0	105	78·37	79·82	(80·20)	98	100
"	Tuam, Gardenfield	6 0	160	42·76	41·85	41·01	104	102
"	Crossmolina, Enniscoie	0 11	74	51·41	52·60	(50·50)	102	104
"	Collooney, Markree	1 0	130	41·15	41·27	41·83	98	99
"	Ballinamore, Lauderdale ...	1 0	275	...	41·02	(41·50)	...	99
XXIII.	Belturbet, Red Hills	0 9	208	34·57	34·42	35·19	98	98
"	Armagh Observatory	1 0	205	32·16	30·97	31·36	103	99
"	Warrenpoint, Summerhill...	1 0	30	37·88	36·44	(38·70)	98	94
"	Belfast, Queen's College ...	7 4	68	32·77	32·00	33·23	99	96
"	Garvagh, Moneydig	1 0	121	39·02	37·95	39·16	100	97
"	Omagh, Edenfel	1 0	280	36·63	39·66	37·85	97	105
"	Raphoe, Convoy House	1 0	150	46·94	43·00	44·67	105	96
"	Bloody Foreland	0 9	39	...	46·29	(45·60)	...	102
"	Moville, Prospect Villa	2 0	80	41·23	40·93	42·55	97	96

It will be seen from Table I. that amongst the seven decades there considered, 1880-89 and 1840-49 were the only two of which the average coincided with the average of the 70 years, the decade before 1880-89 was 5 per cent. too high, that following it was 4 per cent. too low. Having already shown that the mean of the 30 years is practically identical with that of the 70 years or true mean, we are able to compare the average of the nine stations in Table I. with that of the 154 stations in Table III., and this is done in Table IV. The ratios for the decade 1870-79, though not given in the table, may easily be calculated by subtracting the sum of the other two decades from 300. The ratio of the rainfall of 1890-99 to that of 1870-99 can also be obtained from the mean of the 176 stations used in the discussion of the Annual fall of 1901 on p. [160] of this volume. Although from the exigencies of the case the stations used for Scotland and Ireland are for the most part the same in the two series of calculations, those for England are on the whole different, and the calculation is, to a large extent, an independent one. A fourth estimate may be made from the 69 stations quoted in *British Rainfall* for 1899, p. 26.

TABLE IV.—*Variations of Mean Rainfall for British Isles.*

	1870-79	1880-89	1890-99	1870-99
From Table I.	105	100	96	100
„ Table III.	105	99	96	100
„ Abstract on p. [160]	...	...	97	100
„ B.R., 1899, p. 26 ...	...	...	95	100

We regard this concurrence as extremely satisfactory. It proves absolutely that the rainfall of the decade 1890-99 was 96 per cent. of the true mean, or deficient by 4 per cent., and it affords the strongest grounds for believing that the rainfall of 1870-79 was 105 per cent. of the true mean, or 5 per cent. in excess; while the mean for 1880-89 was practically true.

Unfortunately the true mean rainfall of the British Isles as a whole does not possess much practical value; the thing which is of direct importance to everyone is the true mean rainfall of the district in which he is specially interested and the variations from that mean of the actual rainfall for different periods. This is a very much more difficult question to attack and one which cannot be dealt with fully without the construction and reproduction of large-scale maps, a task we cannot at present undertake. We can, however, approach the subject so as to give a good general idea of the state of the case; and first it will be convenient to dissect the British Isles into the three

kingdoms and see how these great divisions are related to each other and to the whole which they make up. We cannot rely on Table I. for this purpose as the stations are not sufficiently numerous, but Table III. may be summarized so as to produce Table V., showing the values for each decade.

TABLE V.—*Variations of Mean Rainfall in different parts of the British Isles.*

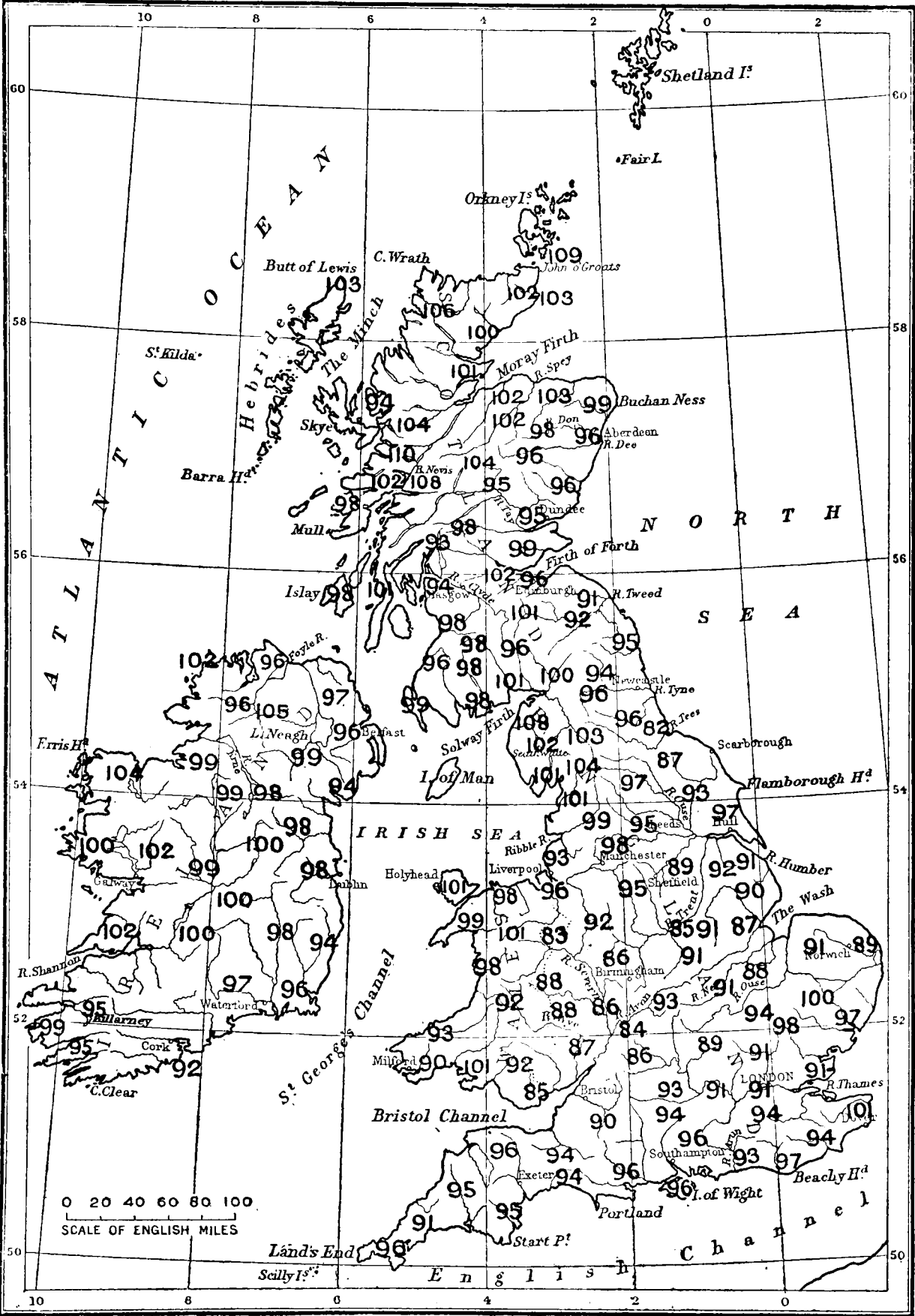
		1870-79	1880-89	1890-99	1870-99
England and Wales	...	107	100	93	100
Scotland	... ..	103	97	100	100
Ireland	... ..	103	99	98	100
All stations	... ..	105	99	96	100

This shows that in 1870-79, there was an excess of 7 per cent. of rainfall in England and Wales, and of 3 per cent. in Scotland and Ireland; that in 1880-89, England and Wales and Ireland had practically average rainfall, but Scotland was deficient by 3 per cent., and that in 1890-99 the rainfall of England and Wales was deficient by 7 per cent., that of Scotland was normal, while Ireland had a deficiency of 2 per cent.

England as a whole thus appears to be subject to greater extremes of rainfall than either Scotland or Ireland, a fact which agrees with its wider extent of surface and its closer proximity to the great land mass of the continent; while the less pronounced extremes of Scotland and Ireland agree well with their more insular character. We must, however, go further in this discussion, and in order to do so, maps have been prepared showing the ratios given in Table III. in their proper positions. The map for 1880-89 is not reproduced, as we are not at present specially concerned with that decade, but we may describe its general appearance. Ireland varied from 5 per cent. below to 5 per cent. above the average fall, the stations showing an excess being scattered over the northern half of the country, and over probably two-thirds of the area the rainfall did not differ so much as 2 per cent. from the true mean. In Scotland a fringe of the extreme west coast and the islands had a slight excess of rainfall; the rest of the country was all below the average, and round the Moray Firth, where the deficiency was greatest, it amounted to 8 per cent. Over the rest of Scotland the deficiency was less than 5 per cent.

In England there was a slight deficiency in the south-west and in the north-west, most marked in the Lake District, where it averaged 4 per cent. The whole of eastern and central England had a con-

RAINFALL OF THE DECADE 1890-99 IN RELATION TO
THE 30 YEARS 1870-99.



siderable excess of rainfall, which came to a maximum in the Fenland and the district to the north and west of the Wash, where it averaged rather more than 6 per cent. The valley of the Wye seems to have been equally wet.

The decade 1890-99 is of more immediate interest, and the map representing the variations of rainfall is reproduced. It is a repetition, with much greater detail, of the map illustrating the article in 1899, but instead of giving percentage differences from the average, it shows the ratio which the actual fall at each station bore to the mean fall at that station, the mean for the thirty years being expressed as 100. The figures are thus the same as in Table III., and the stations can easily be identified. Any number less than 100 shows a fall for the ten years less than the true mean, so that two figures always indicate a deficiency, three figures always show an excess. In Ireland the centre and west of the island are seen to have had a rainfall very slightly exceeding the normal, only two isolated stations showing an excess of more than 2 per cent., and one of these towards the north is not supported by surrounding stations. The north shows a slight and the south a more marked deficiency, which certainly exceeded 5 per cent.

In Scotland there was a marked excess of rainfall to the north of a line drawn from Cantyre to Buchan Ness. The sparseness of the stations makes it difficult to speak with confidence, but it appears as if the western islands had not received an average supply, while the west coast of the mainland, in one place at least, shows an excess of 10 per cent. This means that the rainfall of eleven normal years at that spot was crowded into ten actual years. Almost all the rest of Scotland shows a deficiency, usually slight, but amounting to 9 per cent. in Berwickshire, where the 10 years had little more than the rainfall of nine normal years.

The English Lake District, the extreme west of Yorkshire and Northumberland, and a narrow strip of the Southern uplands of Scotland, contrasted with all the rest of Great Britain south of the Grampians by having an excess of rainfall averaging about 3 per cent. All the rest of England was remarkably dry, and the drought culminated (as was pointed out in the discussion in 1899) in central England, where a deficiency of more than 10 per cent. prevailed from the border of Wales nearly to the North Sea, the line bounding the area on the south running approximately from Bristol to Wisbech, that bounding it on the north from about Oswestry to

Hull. Here there were roughly 15,000 square miles over which the 10 years had less than a nine-years' rainfall ; and over the west of Lincoln, the greater part of Northampton, Oxford, Worcester, Gloucester, Hereford, Shropshire, Stafford and Warwick, the deficiency amounted to 15 per cent., which is equivalent to a fall of less than $8\frac{1}{2}$ years rain in the ten years. It will be noticed that in the centre of the area of minimum rainfall a few stations show values a little above 90 per cent. of the true mean ; these indicate a patch of somewhat less intense drought which prevailed over Leicestershire. It is thus seen that the extremes of rainfall in England during the two decades 1880-89 and 1890-99 are due to the central portion of the country, which was relatively the driest part of the British Isles in 1890-99, and relatively the wettest in 1880-89. The Lake District, curiously enough, had a deficiency of rainfall in 1880-89 almost equal to its excess in 1890-99. This opposition helps to make the period 1870-99 so nearly a true mean for all parts of the country ; and it suggests a question which cannot be ignored, though it cannot easily be answered — why does a run of wet or of dry seasons affect a particular locality ?

One turns naturally to the annual maps in *British Rainfall*, and these show that except in 1891 no year of the ten from 1890 to 1899 shows a single + in the great dry area, while almost every year shows a series of ringed — signs somewhere within it. But remembering that these signs refer to the average of the preceding decade, when the very area in question was an exceptionally wet one, it is evident that the annual maps, valuable as they are for comparing one year with another in the same decade, would require to be redrawn with reference to the 30 years' average before they could be used in comparison with those of a different decade. The only conclusion we can draw with confidence is, that the broadest and most level part of England is more subject to extremes of rainfall and to spells of wet or dry years than the other parts of the British Isles appear to be.

In conclusion, we may point out a practical use for the map of the relation of the rainfall of the decade 1890-99 to the thirty years' average, which may be taken advantage of by any observer who has readings for these ten years and wishes to arrive at a true mean. We must also give a caution. In taking and recording observations it is necessary to strive after the greatest possible accuracy, and to register the readings with a degree of minuteness which may even be within the limits of error of the instruments or of the observations. But in

using observations it is unnecessary to pay attention to fractions too small to be of practical importance. Thus for most purposes of use (though not for recording) it is enough to calculate the rainfall to the nearest inch or the nearest half-inch, and where that is done the accompanying map will allow the ten years' average to be converted into a thirty years' average. The first thing to do is to mark on the map the exact position of the observer's station; if that should lie within the area covered by one of the numbers, that number may be accepted as the ratio for the station. If, however, the station lies equidistant from several numbers, the average of these should be taken as the ratio; but this must be done intelligently, the stations for comparison being taken in pairs equidistant from and in the same line with the station for which a value is sought, as far as it is possible to do so. Suppose that this ratio, either taken directly or calculated from others on the map, is 91, and that the average rainfall for the ten years, 1890-99, at the station is 35·21 in. the 30 years' mean can be calculated thus: Express the rainfall to the nearest half inch, *i.e.*, as 35 inches, and increase it in the ratio of 91 to 100 by the simple proportion:—

$$91 : 100 :: 35 : x,$$

which is solved by multiplying 35 by 100 and dividing the product by 91, yielding as answer 38·45, or to the nearest half inch 38·5, which is the computed mean for 30 years.

It is of vital importance that the fact of an average being computed as above instead of being calculated from a complete series of observations should be stated whenever the figures are used, for such computed values are subject to some little uncertainty and might lead to error if improperly used. It may be that local conditions in exceptional cases make the rainfall at a particular station quite different from that at another only a few miles away, hence caution and experience are necessary to ensure success in such comparisons.

RECORDS OF EVAPORATION.

THIS branch of investigation is steadily developing, for we have records from two additional stations for 1901, both of them in the north of England in the region referred to in the 1900 volume as that in which observations were specially desirable.

Mr. Swindlehurst, C.E., of Bolton and Mr. Clemesha Smith, C.E., of Wakefield have established tanks of the standard pattern; the first at the Heaton works and the latter at Ardsley reservoir. We have, therefore, in the table nine records, seven of them from standard tanks six feet square, one at Croydon from a floating evaporator which has been proved in former years to give results fairly comparable with the standard tank, and one at Southwold from a tank four feet square.

Reference to the summary for the past four years at the foot of the table shows considerable irregularity in the results, of which at present we see no explanation. Thus the maximum amount has been recorded at a different station each year.

1901.....	Southwold.....	23·17 in.
1900.....	Downholland	23·17 in.
1899.....	Otterbourne	23·40 in.
1898.....	Kennick	20·27 in.

The minimum value has twice occurred at Croydon, once at Revesby and once at London. Taking the mean of the four years Downholland gives the greatest evaporation and Revesby the least. The high value for Downholland is attributed by Mr. Baxendell, we believe rightly, to the sand dunes in the neighbourhood, which in summer become highly heated by the sun and both warm and dry the wind to a remarkable extent on its passage to the tank.

We have now a sufficient accumulation of facts to justify a preliminary attack on some of the problems of the subject, and perhaps one of the first of these is the normal curve of evaporation

throughout the year. To determine this we have the following long records :—

- (1) The Standard tank at Strathfield Turgiss for 14 years, 1870 to 1883.
- (2) Miller's evaporation at Lowestoft for 20 years, 1878 to 1897.
- (3) The Standard tank at Camden Square for 16 years, 1885 to 1900.
- (4) Latham's floating evaporator at Croydon for 14 years, 1888 to 1901.

No. 2 is known to give too high a value,* but this probably compensates for the small value obtained at Camden Square owing to London smoke and buildings shutting out sunshine and wind. No. 4 is fairly comparable with the standard tank.

We have thus 65 years' observations, for varying periods at various stations, and we believe that the mean of them may be accepted as a very fair representation of the evaporation in the south of England, with an average of about 18 inches. July giving the highest value, followed by June; then May and August about equal, and the remaining months to the beginning and end of the year pairing off.

Table of Mean Evaporation in the South of England.

EVAPORATION.						EVAPORATION AS A PERCENTAGE OF THE YEARLY MEAN.				
	Camden Square, 1885-1900 16 years.	Croydon, 1888-1901 14 years.	Strathfield Turgiss, 1870-1883 14 years.	Lowestoft, 1878-97 20 years.	Mean.	Camden Square.	Croydon.	Strathfield Turgiss.	Lowestoft.	Mean.
	in.	in.	in.	in.	in.	p.c.	p.c.	p.c.	p.c.	p.c.
Jan.....	·08	·18	·14	·37	·19	0·5	1·1	0·8	1·7	1·0
Feb. ...	·25	·29	·22	·63	·35	1·6	1·7	1·2	2·8	1·8
March...	·65	·86	1·04	1·31	·97	4·3	5·1	5·8	5·9	5·3
April ...	1·47	1·68	1·75	2·00	1·72	9·7	10·0	9·7	9·0	9·6
May.....	2·34	2·67	2·69	3·10	2·70	15·4	15·9	14·9	13·9	15·0
June ...	2·90	2·98	3·05	3·66	3·15	19·1	17·7	16·9	16·4	17·5
July.....	3·04	3·06	3·50	3·88	3·37	20·0	18·2	19·4	17·4	18·8
Aug. ...	2·29	2·49	2·85	3·08	2·68	15·1	14·8	15·8	13·8	14·9
Sept. ...	1·28	1·44	1·60	2·06	1·60	8·4	8·6	8·9	9·3	8·8
Oct.	·59	·74	·78	1·20	·83	3·9	4·4	4·3	5·4	4·5
Nov. ...	·23	·36	·36	·62	·39	1·5	2·1	2·0	2·8	2·1
Dec.....	·07	·06	·05	·36	·13	0·5	0·4	0·3	1·6	0·7
Year ...	15·19	16·81	18·03	22·27	18·08	100·0	100·0	100·0	100·0	100·0

* See *British Rainfall*, 1898, p. 40.

The records of the standard tank at Otterbourne have now been continued for ten years, and it may be of interest to set out the monthly means side by side with the absolutely comparable values for Camden Square.

Mean Evaporation from Standard Tanks at Camden Square and Otterbourne for the ten years 1892-1901.

	Camden.	Otterbourne.		Camden.	Otterbourne.
July	3·34 in.	3·71 in.	March	·65 in.	1·05 in.
June	3·06 „	3·59 „	October ...	·55 „	·84 „
May	2·64 „	3·26 „	February...	·25 „	·29 „
August.....	2·57 „	3·19 „	November..	·20 „	·30 „
April	1·54 „	2·12 „	January ...	·09 „	·05 „
September..	1·32 „	1·92 „	December..	·06 „	·00 „
Total...	14·47 „	17·79 „	Total...	1·80 „	2·53 „

This table indicates that nearly nine-tenths of the evaporation occurs in the summer six months.

Comparing the totals for the individual years, we find much less uniformity :—

Yearly Evaporation at Camden Square and Otterbourne for the ten years 1892 to 1901.

	Camden. in.	Otterbourne. in.		Camden. in.	Otterbourne. in.
1892.....	14·95 (8)	(5) 20·44	1897.....	15·73 (7)	(8) 19·09
1893.....	18·18 (3)	(2) 23·36	1898.....	13·95 (9)	(6) 19·53
1894.....	12·87 (10)	(9) 18·63	1899.....	18·88 (2)	(1) 23·40
1895.....	16·03 (5)	(7) 19·31	1900.....	17·40 (4)	(10) 17·69
1896.. ..	15·80 (6)	(4) 20·48	1901.....	18·93 (1)	(3) 21·22

The small numbers in parenthesis indicate the order in which the years would run if arranged in order of amount, beginning with the greatest evaporation. It is curious that there is not one year out of the ten for which these numbers correspond at the two stations.

Turning now to another—and extremely important—branch of the subject, the evaporation from soil, we are met by a totally different set of conditions ; for in the case of evaporation from water the water is always there, and the hotter and drier the summer the greater the amount that will be evaporated. On the other hand, with the evaporation from soil, in a dry summer there will be a marked absence of moisture at the surface of the ground to evaporate, and the vegetation will be parched and the amount of transpiration materially diminished.

This subject has most frequently been attacked by measuring the amount of water which percolates through different depths of soil of various descriptions; and a good deal of space has been devoted to it in previous volumes of *British Rainfall*.

In 1888 the late Sir Cuthbert Peek erected at Rousdon three precisely similar tanks, about 2 ft. square, for the measurement of evaporation. One, filled with water, was placed at the ground level; one, filled with water, was fixed 4 ft. above ground, and one, filled with soil, grassed over, was fixed at 4 ft. above ground. The amount of evaporation was determined each morning by weighing the tanks bodily, and the records were continued for ten years.

The following table gives the mean results:—

Evaporation at Rousdon, Devon, for the ten years 1888-97.

	Water Tank.		Earth Tank.			Water Tank.		Earth Tank.	
	Level. in.	4 ft. in.	4 ft. in.	Level. in.		Level. in.	4 ft. in.	4 ft. in.	Level. in.
Jan....	·21	·37	·67	(·56)	July..	2·41	2·76	2·65	(2·22)
Feb....	·40	·60	·79	(·66)	Aug...	2·08	2·37	2·85	(2·37)
Mar...	1·01	1·32	1·61	(1·35)	Sept...	1·42	1·64	2·12	(1·78)
April..	1·68	1·99	2·52	(2·10)	Oct. ...	·93	1·04	1·66	(1·39)
May...	2·55	2·92	3·43	(2·86)	Nov...	·49	·74	1·11	(·93)
June..	2·60	3·01	2·90	(2·41)	Dec....	·32	·55	·82	(·67)
					Year	16·10	19·31	23·13	19·30

The value for the earth tank at ground level has been calculated by reducing the value of the 4 ft. earth tank in the same proportion as existed between the water tanks at 4 ft. and ground level; and although it is probable that this proportion would not be identical in the case of water and earth tanks, it no doubt gives a more reliable value than that of the earth tank at 4 ft.

Comparing this earth tank value with the previously quoted water evaporation for the South of England (*see* p. 29), we have:—

Comparison of Evaporation from Water and from Earth.

	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
Water	·19	·35	·97	1·72	2·70	3·15	3·37	2·68	1·60	·83	·39	·13	18·08
Earth	·56	·66	1·35	2·10	2·86	2·41	2·22	2·37	1·78	1·39	·93	·67	19·30
Diff.	+·37	+·31	+·38	+·38	+·16	—·74	—1·15	—·31	+·18	+·56	+·54	+·54	+1·22

These values are so remarkably accordant that we cannot help thinking that they very closely represent the facts. From January to April there is an almost constant excess in the evaporation from the earth tank; in May this excess is reduced by about one-half, probably the fact is that during the first half of the month the evaporation is in excess from the earth tank, and during the latter half of the month from the water tank. In June, July and August, the evaporation is much less from the earth tank, owing to the absence of moisture; in September the curves cross again, and in October, November and December, there is again an excess of evaporation from the earth tank, greater, even, than in the early months of the year.

The importance of a knowledge of the amount of evaporation from the ground as regards water supply, drainage, river conservancy and agriculture, is so great that we cannot help thinking that, in spite of their difficulty, experiments on the evaporation from soil offer an extremely promising field to the investigator.

Evaporation at Camden Square, 1885-1901.

	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
1895.	·14	·64	·36	1·26	3·06	3·31	3·07	2·12	1·27	·54	·19	·07	16·03
1896.	·16	·24	·64	1·57	3·06	3·21	3·63	1·96	·68	·47	·18	·00	15·80
1897.	·23	·21	·76	1·23	2·99	2·48	3·60	2·49	·99	·63	·26+	·14	15·73
1898.	·19	·37	·51	1·28	1·56	2·10	2·96	2·53	1·73	·45	·11	·16	13·95
1899.	·04	·28	·52	1·24	2·34	3·67	4·03	3·78	2·01	·45	·41	·11	18·88
1900.	·03	·16	·80	1·46	2·35	2·85	4·25	2·61	1·61	·89	·24	·15	17·40
Mean	·08	·25	·65	1·47	2·34	2·90	3·04	2·29	1·28	·59	·23	·07	15·19
1901.	·13	·24	·60	1·98	3·25	3·85	3·37	3·19	1·42	·64	·31+	·05	18·93
Diff.	+·05	-·01	-·05	+·51	+·91	+·95	+·33	+·90	+·14	+·05	+·08	-·12	+3·74

EVAPORATION IN 1901.

County Station	London, Camden Sq.	Surrey, Duppas Ho., Croydon	Hampshire, Otterbourne	Suffolk, Southwold	Devon, Kenick, Christow	Lincoln, Revesby Water Works	Lancashire, Downholland	Lancashire, Bolton, Heaton	Yorkshire, Ardley Reservoir
Latitude	51° 32' 30" N.	51° 22' 5" N.	51° 0' 28" N.	52° 20' N.	50° 38' 30" N.	53° 9' N.	53° 34' 38" N.	53° 34' 55" N.	53° 43' 10" N.
Longitude	0 8 0 W.	0 6 13 W.	1 19 55 W.	1 41 E.	3 41 20 W.	0 3 W.	3 1 12 W.	2 28 21 W.	1 33 20 W.
Altitude	111 ft.	158 ft.	112 ft.	44 ft.	842 ft.	130 ft.	13 ft.	521 ft.	390 ft.
Observer	H. Sowerby Wallis and Dr. Mill.	Baltwin Latham, C.E.	W. Matthews, C.E.	A. C. Herbert	W. Ingham, C.E.	J. Shaw	J. Baxendell.	R.H. Swindlehurst, C.E.	C.C. Smith, C.E.
Size of tank ...	6 ft. x 6 ft.	1 ft. diameter	6 ft. x 6 ft.	4 ft. x 4 ft.	6 ft. x 6 ft.	6 ft. x 6 ft.	6 ft. x 6 ft.	6 ft. x 6 ft.	6 ft. x 6 ft.
Capacity (galls.)	450	5	450	200	450	450	450	450	450
Height of lip } above ground }	3 inches	4 inches	3 inches	3 inches	3 inches	—	2 inches	3 inches	3 inches
January	in. .13	in. .04	in. .11	in. .65	in. +.02	in. +.05	in. .52	in. .28	in. .27
February .....	.24	.17	.24	.11	.30	.12	+.02	.02	.23
March .....	.60	.60	.48	1.12	1.61	.60	1.39	.92	.79
April	1.98	1.73	2.59	1.92	2.23	1.81	2.65	2.04	1.99
May	3.25	2.45	3.59	3.23	3.67	2.79	3.51	3.46	3.28
June	3.85	3.07	3.75	3.65	3.49	2.91	3.94	3.31	3.35
July	3.37	3.18	3.49	3.81	3.79	3.33	3.73	3.58	3.67
August	3.19	2.57	3.93	3.56	3.31	3.00	3.36	2.75	3.22
September	1.42	1.56	1.90	2.36	1.62	2.39	1.78	1.86	1.59
October .....	.64	.81	1.05	1.16	.98	1.01	1.27	.94	.79
November .....	.31	.26	.32	.66	.45	.47	.40	.26	.33
December	+.05	+.19	+.23	.94	+.13	+.01	.34	.21	.31
Year, 1901	18.93	16.25	21.22	23.17	21.30	18.37	22.87	19.63	19.82
" 1900	17.40	15.50	17.69	21.77	20.38	16.05	23.17	...	...
" 1899	18.88	18.78	23.40	22.01	22.85	16.03	22.50	...	...
" 1898	13.95	16.38	19.53	17.78	20.27	(15.0)	(20.0)	...	...
Mean	17.29	16.73	20.46	21.18	21.20	16.36	22.13	...	...
Year, 1901	22.17	21.94	27.49	19.21	39.02	23.58	25.35	34.53	23.54
" 1900	23.28	25.26	28.23	22.54	40.66	28.82	31.18	45.22	30.27
" 1899	22.54	23.37	22.87	22.94	41.33	21.42	26.58	40.68	...
" 1898	17.69	20.40	23.71	19.31	35.33	19.20	(26.5)	40.46	...
Mean	21.42	22.74	25.57	21.00	39.08	23.25	27.40	40.22	...

*Observations made at Duppas House, Croydon by Mr. Baldwin Latham,
M.Inst.C.E.*

1901	Evaporation from 12 in. Evaporator floating in Water.	Condensation in 12 in. Evaporator floating in Water.	Average daily Temperature of Water at 9 a.m. in 12 in. Evaporator floating in Water.	5 in. Evaporator fully exposed in Air.	Average daily Temperature of Water at 9 a.m. in 5 in. Evaporator freely ex- posed in Air.	Temperature of the Dew Point at 9 a.m.
	in.	in.	Deg. F.	in.	Deg. F.	Deg. F.
Jan.....	·110	·070	37·18	·790	37·29	33·96
Feb. ...	·215	·040	33·57	·415	34·71	31·37
March...	·655	·060	37·92	1·470	37·92	34·74
April ...	1·745	·010	48·44	3·525	51·47	39·62
May ...	2·450	—	55·54	5·090	57·12	45·77
June ...	3·065	—	62·25	4·825	63·74	49·63
July ...	3·180	—	67·42	4·930	68·80	57·80
August..	2·570	—	65·00	4·060	66·02	56·16
Sept. ...	1·565	—	59·10	2·285	59·10	53·90
Oct.	·810	—	50·30	1·210	49·10	47·30
Nov. ...	·290	·030	39·06	·870	38·82	35·82
Dec... ..	·030	·224	35·67	·485	36·83	35·17
Totals	16·685	·434	591·45	29·955	600·92	521·24
Means.....	...	...	49·29	...	50·08	43·44

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

THE records of Dr. Hellmann's gauges have now been continued for ten years, and, as mentioned in *British Rainfall*, 1900, we purpose omitting them from the volume in future, and have taken the opportunity of examining the records of all the gauges in use at Camden Square. These are—

- (1) The Standard gauge, a copper Snowdon 8 inches diameter, read daily.
- (2) A copper Snowdon, 5 inches diameter, read weekly.
- (3) A copper contracted Float gauge, 8 inches diameter, read monthly.
- (4) A Casella recording gauge, the funnel of zinc painted, 9·5 in. diameter.
- (5) A copper Sidebottom Snow gauge, 8 inches diameter.
- (6) (7) Dr. Hellmann's German gauges of zinc unpainted, 6·27 in. diameter.
- (8) Symons's Storm-gauge.

Nos. (1), (2) and (3) have remained in every way identical for 23 years; they are only a few inches from each other, and their results are remarkably accordant.

No. (1)	Mean Annual Rainfall for 23 years (1879–1901) ...	24·42 in.
(2)	„ „ „ „ „ „ ...	24·36 in.
(3)	„ „ „ „ „ „ ...	24·33 in.

The difference between the two Snowdon gauges is so trifling as to be immaterial and is, we believe, fortuitous, but if the advocates of gauges 8 inches in diameter claim that it is the inherent advantage of the larger gauge, we will not quarrel with them.

The smaller value recorded by the float gauge might at first sight be attributed to evaporation, but the water in it is never less than two feet below the surface of the ground and is in addition covered by the float. So this idea can hardly be accepted, and further, after thirty years' experience and many experiments, we are satisfied that the loss by evaporation from a properly-constructed rain gauge is

practically nil. We must, therefore, look for some other explanation of the smaller amount, and have no hesitation in attributing it to the gauge, which is of an obsolete pattern. It has no deep rim for holding snow and as a result in windy weather an eddy is set up in the funnel and too little snow is retained ; secondly, it has cross-bars supporting the collar through which the rod is dropped in measuring, and these would be wetted by each shower and a drop or two of water would remain on them and evaporate.

Turning now to the consideration of the German and Snow gauges, we find that for the ten years 1892—1901,

No. (1) the Standard Snowdon gauge gives an average of	22·39 in.
(2) „ 5-inch „ „ „ „	22·35 in.
(3) „ Float gauge..... „ „	22·27 in.
* (5) „ Snow gauge..... „ „	21·06 in.
(7) „ German gauge No. 2..... „ „	21·17 in.

Expressing the values as percentages, we have—

No. (1) Standard gauge	100·0
(2) Snowdon, 5 inches	99·8
(3) Float.....	99·5
(5) Snow gauge.....	94·1
(7) German gauge No. 2.....	94·6

The German gauge No. (6) is not included, inasmuch as the conditions were varied during the ten years, and the two resultant periods are too short to give satisfactory values. During the first five years this gauge had a cruciform diaphragm in the funnel, dividing it into four equal segments ; the object being to prevent an eddy of wind in the funnel. It will be seen that this diaphragm materially decreased the amount caught by the gauge, no doubt by exposing an additional surface of about 60 square inches to be wetted by each shower. This diaphragm is, we believe, intended to be used only in snowy weather, when this disability would scarcely apply.

Taking the ten years as fairly representative, we have—

English Standard gauge at 1 foot above ground...	22·39 in.,	100·0 per cent.
German „ „ 5 feet „ „	21·17 „	94·6 „

* This gauge has been in position only 9 years, but to make the averages comparable, the fall in 1892 has been calculated by means of the difference existing in the other 9 years.

The difference due to the additional height above ground of the German gauge is 5 per cent. ;*adding this to the 94·6 per cent., we have 99·6 per cent., or a difference of less than half of one per cent. between the standard gauges of the two nations.

1901	Ordinary English 8 in. gauge.	Ordinary 8 in. gauge reduced by 5 per cent.	DR. HELLMANN'S GAUGES.				SIDEBOTTOM'S SNOW GAUGE.	
			No. 1. N.E.	No. 2. S.W.	Difference from reduced English.		Total.	Differ- ence from Reduced 8 inch.
					No. 1.	No. 2.		
	in.	in.	in.	in.	in.	in.	in.	in.
Jan.	·55	·52	·47	·50	—·05	—·02	·46	—·06
Feb.	1·21	1·15	1·07	1·04	—·08	—·11	1·10	—·05
Mar.	2·14	2·03	1·92	1·92	—·11	—·11	1·94	—·09
April	2·15	2·04	1·90	1·89	—·14	—·15	1·98	—·06
May	·84	·80	·68	·66	—·12	—·14	·79	—·01
June	1·25	1·19	1·49	1·48	+·30	+·29	1·18	—·01
July	5·04	4·79	4·84	4·81	+·05	+·02	4·81	+·02
Aug.	1·79	1·70	1·64	1·62	—·06	—·08	1·69	—·01
Sep.	1·62	1·54	1·51	1·53	—·03	—·01	1·55	+·01
Oct.	1·92	1·83	1·78	1·79	—·05	—·04	1·79	—·04
Nov.	·59	·56	·52	·53	—·04	—·03	·53	—·03
Dec.	3·07	2·92	2·86	2·87	—·06	—·05	2·97	+·05
Total 1901	22·17	21·07	20·68	20·64	—·39	—·43	20·79	—·28
1900	23·28	22·12	21·34	21·43	—·78	—·69	21·74	—·38
1899	22·54	21·41	20·79	21·08	—·68	—·33	21·22	—·19
1898	17·69	16·82	16·43	16·57	—·39	—·25	16·59	—·23
1897	22·86	21·72	21·49	21·58	—·23	—·14	21·61	—·11
1896	23·52	22·34	21·45 with x	22·08	—·89	—·26	21·95	—·39
1895	21·47	20·39	20·05	20·62	—·34	+·23	20·31	—·08
1894	27·94	26·55	26·01	27·11	—·54	+·56	26·48	—·07
1893	19·80	18·82	18·22	18·82	—·60	·00	18·58	—·24
1892	22·61	21·48	21·30	21·81	—·18	+·33	(21·28)	—·20
Avr. 1892- 1901	22·39	21·27	20·78	21·17	—·49	—·10	21·06	—·21

* See *British Rainfall*, 1900, p. 33.

RAINFALL AT THE ROYAL OBSERVATORY, GREENWICH.

Lat., 51° 28' 38" N.

Long., 0° 0' 0"

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

1901	No. of Rainy Days.	MONTHLY AMOUNT OF RAIN COLLECTED IN EACH GAUGE.							
		Osler's Anemometer		On roof of Octagon Room.	On roof of Magnet 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.
January	11	in. .210	in. .269	in. .443	in. .559	in. .654	in. .762	in. .708	in. .744
February	11	.270	.359	.473	.585	.741	.865	.817	.823
March	16	.827	.846	1.289	1.759	2.095	2.170	1.977	2.125
April	13	.852	.837	1.239	1.508	1.758	1.807	1.726	1.833
May	5	1.543	1.634	1.712	1.849	1.823	1.793	1.785	1.823
June	9	1.134	1.214	1.315	1.403	1.418	1.491	1.409	1.418
July	8	1.289	1.347	1.448	1.500	1.511	1.724	1.570	1.600
August	10	1.548	1.564	1.840	1.999	2.062	2.033	2.025	2.058
September	6	1.102	1.058	1.168	1.318	1.346	1.351	1.344	1.348
October	11	1.886	1.936	2.171	2.513	2.622	2.597	2.608	2.646
November	8	.246	.246	.518	0.617	.717	.667	.700	.713
December	15	1.631	1.708	2.097	2.513	2.878	3.033	2.944	2.976
Sums	123	12.538	13.018	15.713	18.123	19.625	20.293	19.613	20.107
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.

1902, January 10.

THE STAFF OF OBSERVERS.

WE are happy to find that the trifling decrease in the number of records noticed last year has been more than counterbalanced, and the present volume contains the annual values for 3,506 stations, five more than on any previous occasion. Although this is satisfactory, it affords no reason for relaxing our efforts to obtain additional observers in the more thinly-peopled parts of the country. Even in England there are many extensive tracts, of the rainfall of which we know very little ; but if we take the total number of rain gauges in England as a standard easily attainable, we are struck by the room for development in the other parts of the British Isles. To attain the same number of rain gauges per 100 square miles, Wales would require 106 additional observers, Scotland 1,097, and Ireland 1,446. We must look at the question from the point of view of population as well as of area, and, on doing so, we find that Wales has 126 more observers than equal representation with England would demand, Scotland has 62 more, but Ireland 185 fewer.

From the point of view of rainfall statistics we thus feel bound to call upon our friends in Scotland and Ireland to do more individually for the advancement of our knowledge in this department than is necessary in England, where the work is shared by a larger number. We are sure that an appeal to Scottish and Irish patriotism in this particular will not be in vain.

The most serious loss we have to deplore in England is that of the old record at Haltwhistle, in Northumberland. In Scotland the losses include an old record in the south, and half-a-dozen in the Highlands ; in the very places where observations are most urgently

required. These include the Forest of Glen Tana, in Aberdeenshire, two of the few remaining Highland Railway Stations, and, worst of all, the only gauge in the middle of Sutherlandshire.

Amongst the new stations we have to welcome in the south of England, are five in the counties where observers are most numerous, which possess an interest of a special kind. They are situated on the North or South Downs at heights exceeding 500 feet, a level above which there are very few houses indeed in that part of the country. A new station in Northumberland, close to the foot of Cheviot, is at such a distance from other stations as to possess special value.

We are particularly glad to find that the Braemore Estate gauges, in West Ross, have not been discontinued, and they now re-appear in the tables, while several new stations in the north of Aberdeenshire make the representation of the eastern angle of Scotland much more satisfactory than before.

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

Years.	England.	Wales.	Scotland.	Ireland.	Gross Total.	Increase over previous year.
1860...	163	...	5	...	168	...
1861...	334	...	9	...	472	...
1871...	1038	...	88	...	1504	...
1881..	1548	...	131	...	2145	...
1891...	2091	...	168	...	2799	23
1892...	2113	...	178	...	2850	51
1893...	2205	...	193	...	2987	137
1894...	2269	...	184	...	3043	56
1895...	2304	...	196	...	3084	41
1896...	2427	...	209	...	3219	135
1897...	2492	...	223	...	3318	99
1898...	2545	...	237	...	3404	86
1899...	2615	...	252	...	3501	97
1900...	2612	...	248	...	3493	..
1901...	2616	...	253	...	3506	13
Difference from 1900.—						
Increase	4	...	5	...	13	13
Decrease	—	...	—	...	—	—

MIDDLESEX (69).

ABSENT RECORDS.

Staines (Knowle Green)—*Record ceased*.
 Twickenham (Sewage Works) M.—*Not recd*.
 Isleworth (Spring Grove House)—*No reply*.
 Hendon (Hillwood)—*Record ceased*.
 Whetstone—*Record ceased*.
 Enfield (Carisbrooke)—*roof g. discontinued*.

INSERTIONS.

Ealing (St. Stephen's Road).
 Kensington (V. & A. Museum).
 Uxbridge (Cowley).
 Pinner (Moss Cottage).
 „ Green (Northwold).
 Harrow Weald (Hill House).
 North Finchley.
 Enfield (Chase Court).

SURREY (153).

Felbridge Place—*Not received*.
 Dorking (Woodcote)—*Observer moved*.
 Reigate (Doods)—*Observer dead*.
 Bookham Lodge—*Not received*.
 Weybridge (Field Place)—*Not received*.
 Croydon (Waddon House)—*Observer dead*.
 Egham (Cooper's Hill)—*Record ceased*.
 Putney Vale Cemetery—*Record ceased*.
 Battersea Creek (York Road)—*Record ceased*.
 Vauxhall Cross (Wandsworth Rd.)—*R. ceased*.

Cranleigh (County School).
 Dorking (Rose Hill).
 Guildford (Newlands Corner).
 Horsley West.
 Frimley Green (Ridgemount).
 Warlingham (Egremont).
 Banstead (Burgh Heath Res.).
 Epsom (Water Works).
 Croydon (Ashburton Road).
 East Molesey.
 Wimbledon (The Downs).

KENT (136).

Hythe (Frogholt)—*Observer moved*.
 Tunbridge Wells (Belvedere Ter.)—*Obsr. dead*.
 Canterbury (Burgate Street)—*Obs. moved*.
 Birchington (Thor)—*Observer moved*.
 Reculver (Brook)—*Observer moved*.
 Hayes Common (The Warren)—*Record ceased*.
 Margate (Apsley House)—*Snowdon g. discontd.*
 Bickley (Elmhurst)—*Observer moved*.
 Chislehurst (Southlaund)—*Observer dead*.
 Beckenham (Oakwood Avenue)—*Gauge moved*.

Tenterden (Summerhill)—*New g.*
 Hythe (Hillcrest Road).
 Biddenden (Sandpit Wood).
 Goudhurst Vicarage.
 „ (Maypole).
 Kearsney (Chilton Farm).
 Tunbridge Wells (Didmarton).
 Sandwich (Word).
 Halstead Rectory.
 Ramsgate (Thyra Villas).
 Farningham (Mount Pleasant).
 Margate (Grosvenor Place).
 Chislehurst (Foxbury).
 „ (Hawkwood).
 Rochester (Beluncle, Hoo).
 Eltham (Court Road).

WEST SUSSEX (39).

Chichester (Oaklands)—*Record ceased.*
 Arundel (Warningcamp)—*No reply.*
 Slinfold (Dedisham)—*Observer moved.*

Steyning.
 Crawley.

EAST SUSSEX (72).

Bishopstone—*Observer moved.*
 Brighton (Kemp Town)—*Gauge defective.*
 Selmeston Vicarage—*Observer ill.*
 Wadhurst (Kirkstone)—*No reply.*

Eastbourne (Arundel Road).
 Willingdon (Hill Cottage).
 St. Leonard's (Branksome House).
 Lewes (Bedford Lodge).
 Hurstpierpoint (The College).
 Burgess Hill (Ote Hall).
 Bodiam Station (Ewhurst Rec.)
 Etchingham (Shoyswell Manor).
 Nutley (Chelwood Beacon).
 Handcross (The Warren) [Horsham]

HAMPSHIRE (96).

Newport (Castle Hold)—*Gauge moved.*
 Christchurch (Mudford)—*No observations.*
 Havant (Farlington) M.—*Record interrupted.*
 Botley (Fairthorne)—*Record imperfect.*
 „ (Hall Court)—*No Observations.*
 Southampton (Red Lodge)—*Observer dead.*
 Fordingbridge (Wood Green)—*Obsr. dead.*
 Chandler's Ford (Fryern)—*Observer ill.*
 East Liss (Hill Brow)—*Observer moved.*
 Winchfield (Sheldons)—*Observer moved.*
 „ (Bylands)—*Observer moved.*

Bournemouth (South Cliff).
 Milford-on-Sea (Keyhaven).
 Ringwood (Burley Manor).
 Cosham (Purbrook Grange).
 Twyford (Pumping Station).
 Basingstoke (Hoddington House).
 Strathfieldsaye Gardens.

BERKS (43).

Old Windsor (Beaumont College)—*No reply.*
 Reading (East Thorpe)—*Observer moved.*
 Twyford (Haines Hill)—*No reply.*

Mortimer (Wokefield Park).
 Newbury (Sandleford Priory).
 „ (Greenham Lodge).
 Wokingham (Staverton).
 Reading (London Road).
 Maidenhead (The Firs, Castle Hill).
 „ (Isis Cottage).
 Abingdon (Draycott Moor).

HERTS (53).

Chipperfield (Little Callipers)— <i>Record doubtful.</i>	Barnet (Hadley).
Gt. Berkhamstead (Northchurch)— <i>Observer moved.</i>	St. Alban's (County Museum).
Hertford (Marden Hill, Tewin)— <i>Obsr. dead.</i>	Hoddesden (Fielde's Weir).
	Hertford (Wigginton).
	Hitchin (The Chilterns).

BUCKS (28).

Stony Stratford (Thornton)— <i>Observer moved.</i>	Buckingham (The Vicarage).
Olney (Brayfield House)— <i>Observer dead.</i>	

OXFORD (42).

Oxford (St. Giles)— <i>Observer moved.</i>	Abingdon (Culham College).
Chipping Norton (Churchill)— <i>No observations.</i>	Woodstock (Hampton Poyle Rec.)
Steeple Aston (Hill House)— <i>No reply.</i>	
Banbury (Sibford Gower)— <i>No reply.</i>	

NORTHAMPTON (47).

Thorpe Mandeville [Banbury]— <i>Rec. ceased.</i>	Desborough.
Towcester— <i>No reply.</i>	
Byfield (Woodford Halse)— <i>Record imperfect.</i>	
Northampton (Freehold Street)— <i>Obs. moved.</i>	
East Carlton— <i>Return incomplete.</i>	
Peterborough (Thorpe Hall)— <i>Rec. incorrect.</i>	
Barnack (Walcot Hall)— <i>No reply.</i>	
Maxey Vic. [Market Deeping]. 2 gauges— <i>Observer moved.</i>	

HUNTS (8).

Buckden— <i>Record ceased.</i>	Catworth.
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BEDFORD (14).

Aspley Guise (Oaklands)— <i>Record ceased.</i>	
Biggleswade (Langford Vic.)— <i>No observations.</i>	
Potton Vicarage— <i>Observer moved.</i>	
Bedford (St. Peter's Street)— <i>Gauge moved.</i>	

CAMBRIDGE (49).

Elm (Grove House)—*Observer moved.*Wimpole Hall.
Gamlingay (Old Woodbury)
Conington Hall [St. Ives].

ESSEX (69).

Shoeburyness, M.—*Return incomplete.*Manor Park (Albany Rd.)—*Old g. rec. ceased.*Billericay (Burghstead Lodge)—*Gauge leaking.*Norton Mandeville (Readings)—*Obs. moved.*Chelmsford—*No observations.*,, (Broomfield)—*Observer dead.*Witham (Freebournes)—*Observer dead.*Colchester (Surrey Villa)—*No observations.*Braintree (Bocking)—*Record ceased.*Ardleigh—*Observer dead.*

Foulness (The Lodge).

Stow Maries (Wellingditch)

Ingatstone (Fryerning).

Fingringhoe (Ballast Quay Farm).

Saffron Walden (Debden Rec.)

SUFFOLK (47).

Ipswich (Bishop's Hill)—*Observer dead.*Cavendish—*Observer moved.*Gorleston (Springfield Rd.)—*Observer dead.*

Woodbridge Abbey. 2nd g.

Framlingham.

Halesworth (Rumburgh).

Beccles (Sotterley Hall).

NORFOLK (54).

Keswick Lodge—*Observer ill.*Litcham (Mileham Hall)—*No reply.*Burnham Overy—*Gauge moved.*

Yarmouth (Ormesby, St. Michael).

West Rudham.

WILTS (46).

Larmer Grounds [Shaftesbury]—*No reply.*Rushmore [Shaftesbury]—*No reply.*Salisbury (Tintinhull)—*Observer ill.*Calne (Calstone Rectory)—*Record ceased.*

Chippenham (Kington Langley).

Marlborough

DORSET (47).

Portisham—*Observer moved.*

Chickerell Rectory.

Piddletown.

Bere Regis Vicarage.

,, ,, (Bloxworth House).

DEVON (108.)

Totnes (Fernleigh)— <i>No reply.</i>	Salcombe (Sandhills).
Torquay (Chapel Hill)— <i>Gauge moved.</i>	Plymstock (Thorncot, Hooe).
„ (Watcombe Park)— <i>Record ceased.</i>	Torquay (Princess Gardens)
Sheepstor Vicarage— <i>Observer dead.</i>	Dartmoor (Cramber Tor).
Dartmoor (Leeden Tor)— <i>Gauge tampered with.</i>	Teignmouth (Bitton Street).
Princetown (N. Hessary Tor) No. 1—	Budleigh Salterton (Raven Shaw).
„ <i>Gauge tampered with.</i>	Challacombe.
Exmouth (Betworth)— <i>Observer moved.</i>	
Honiton (Ivedon)— <i>Observer moved.</i>	
Torrington (Reservoir)— <i>No observations.</i>	
South Molton— <i>Observer dead.</i>	
Lynton (Glenthorne)— <i>Record ceased.</i>	

CORNWALL (48).

Flushing (Trefusis)— <i>Record ceased.</i>	Falmouth (St. Mawes Place).
Grampound (Heligan)— <i>Return imperfect.</i>	West Looe (Polperro).
Antony Ho. [Devonport]— <i>Observer moved.</i>	

SOMERSET (85).

Ilminster (Bay House)— <i>No reply.</i>	Wincanton.
„ (White Lackington)— <i>Obs. moved.</i>	Dunster (Alcombe)
Bath (Statutory Hospital)— <i>Obs. interrupted.</i>	Bridgwater (Pawlett).
	Shepton Mallet (Field House).
	Radstock (Downside College).
	Axbridge (The Down, Winscombe).
	Bath (Royal Institution).

GLOUCESTER (76).

Clifton (Royal York Crescent)— <i>Obsr. abroad.</i>	Berkeley (Sharpness). <i>New g.</i>
Cheltenham (Dowdeswell)— <i>Observer moved.</i>	Stroud (Harescombe Grange).
	Gloucester (Maisemore Lock).

HEREFORD (29).

Much Marele (Claremont)— <i>Record ceased.</i>	Ross (Perrystone Court).
	Much Marele (The Mount).

SHROPSHIRE (39).

Cleobury Mortimer (The College)— <i>No reply.</i>	Ludlow (The Sheet).
Bridgnorth (Quatford)— <i>Record ceased.</i>	Shrewsbury (Berwick Hall).
Church Stretton (Pole Cott. Longmynd)— <i>Discontinued.</i>	„ (Fitz Manor).
Middleton Chirbury— <i>Record ceased.</i>	

STAFFORD (39).

West Bromwich— <i>Record interrupted.</i>	Burton (Trent Cottage).
Wolverhampton (Tettenhall)— <i>Gauge moved.</i>	Etruria.

WORCESTER (37).

Alvechurch (The Uplands)— <i>Observer moved.</i>	Bromsgrove (Barnt Green).
Bromsgrove (Lower Bittal Res.)— <i>Record imp.</i>	Bewdley (Beaucastle).
Lifford Sewage Works— <i>Record ceased.</i>	Moseley (Prospect Road).
Moseley (Woodstock Road)— <i>Observer moved.</i>	

WARWICK (34).

Shipston (Compton Wynyates)— <i>Rec. ceased.</i>	Burton Dassett Vicarage.
	Rugby (Bilton Grange).
	Birmingham (Olton).
	„ (Edgbaston)

LEICESTER (25).

Kibworth Harcourt— <i>No reply.</i>	Lutterworth (Walcote).
Ashby-de-la-Zouch (Cole Orton)— <i>Obs. dead.</i>	
Loughborough (Forest Rd.)— <i>5 in. g. out of order.</i>	
Belvoir Castle— <i>Old g. discontinued.</i>	

RUTLAND (7).

LINCOLN (69).

Farforth (Maidenwell House)— <i>Record ceased.</i>	Spilsby (East Keal Manor).
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NOTTS (45).

Bramcote— <i>Record ceased.</i>	North Collingham.
Newark (Averham Rectory)— <i>Return imperfct.</i>	Worksop (Welbeck).
Ollerton (Thoresby Gdns.)— <i>Record unreliable.</i>	

DERBY (54).

Matlock (Cromford)— <i>Observer dead.</i>	Buxton (Lightwood).
„ Dale (Tor House)— <i>Observer moved.</i>	Norton [Sheffield].

CHESHIRE (67).

Eaton Hall Gardens— <i>No reply.</i>	Audlem Vicarage.
Macclesfield (Wincle)— <i>Gauge out of order.</i>	Birkenhead (Oxton).
Bollington (Sponds Hill)— <i>Gauge leaking.</i>	
Knutsford— <i>Record ceased.</i>	
Thurstaston (Dawpool)— <i>No observations.</i>	
Bowdon (Erlesdene) No. 2 <i>discontinued.</i>	

LANCASHIRE (189).

Gateacre (The Nook)— <i>Observer moved.</i>	Liverpool (Hope Street).
Liverpool (Grove Park)— <i>Observer dead.</i>	Milnrow (Piethorne, Norman Hill).
Manchester (Newton Heath)— <i>Observer dead.</i>	„ („ Rooden Res.)
Blackstone Edge (Windy Bank)— <i>Gauge out of order.</i>	Rochdale (Ashworth Moor).
„ „ — <i>Gauge out of order.</i>	Blackburn (Water Works Office).
Over Darwen (St. James's Vic.)— <i>Rec. ceased.</i>	„ (Pumping Station).
„ „ (Gillibrand Obs.)— <i>No reply.</i>	Accrington (Milnshaw Park).
„ „ (Daisy Green)— <i>No. 2. gauge under repair.</i>	Garstang (Holme Ho., Bleasdale).
„ „ (Pickup Bank)— <i>No. 2 gauge under repair.</i>	Lancaster (Blea Tarn Reservoir).
Lytham— <i>Return imperfect.</i>	Cartmel (Aynsome).
Lancaster (Marton St. Yard)— <i>Record ceased.</i>	Hawkshead (Tower Bank).
Caton (Caton Vicarage)— <i>Return imperfect.</i>	

YORKSHIRE—WEST RIDING (287).

Denshaw (New Year's Bridge)— <i>5in. g. discontd.</i>	Wombwell.
„ (Ready Con Dean)— <i>5in. g. discontd.</i>	Standedge (Castleshaw, Cudworth).
Longwood (Bilberry Edge)— <i>Record ceased.</i>	Bradford (Chellow Heights).
Bradford (Bowling Dyeworks)— <i>Not received.</i>	Ilkley (Amblethorpe).
Leeds (Woodhouse Cliff)— <i>Record ceased.</i>	Dallow Moor (High Skeldon) <i>5in. g.</i>
Skipton (Bolton Rd., Silsden)— <i>Gauge moved.</i>	„ „ (Harper Hill) <i>5in. g.</i>
York (St. Paul's Sq.)— <i>Observer abroad.</i>	Kirkby Malzeard (Drover's Inn)
Knaresborough (Conyngham Hall)— <i>No reply.</i>	<i>5in. g.</i>
Grimwith (Trunla Hill)— <i>Gauge believed to be leaking.</i>	„ „ (Bagwith Brae) <i>5in. g.</i>
	Masham Moor (W. Somerside) <i>5in. g.</i>
	„ „ (High Sour Mire) <i>5in. g.</i>
	„ „ (Leighton).
	„ „ (Low Houses) <i>5in. g.</i>

YORKSHIRE—EAST RIDING (23).

Cottingham—*Record ceased.*
 Beverley (Register House)—*Not received.*

YORKSHIRE—NORTH RIDING (46).

Malton— <i>No reply.</i>	Thirsk (Mount St. John). Bedale (Thorpe Perrow). „ (Newton House). Scarborough. „ (Scalby).
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DURHAM (44).

Bishop Auckland (The Castle)— <i>Not received.</i>	Stockton (Ropner Park). West Hartlepool (Bradgate). Wearhead. <i>New gauge.</i> Ushaw (St. Cuthbert's College). Seaham (Dalton Pumping Station). Fence Houses (Chilton Moor). Houghton-le-Spring (Myre Hall). Sunderland (Ryhope Pumping Sta.) „ (Cleadon Pumping Sta.)
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NORTHUMBERLAND (45).

Haltwhistle (Unthank Hall)— <i>Observer dead.</i> Newcastle (Chronicle Office).— <i>Not received.</i> North Shields (Chirton Cottage)— <i>Obs. dead.</i> Meldon (Gallowhill Hall)— <i>Not received.</i> Ewesley Station (Redpath)— <i>Return imperfect.</i> „ „ (Tod Crag)— <i>Return imp.</i> „ „ (Fallowlees)— <i>Return imp.</i> „ „ (Chertners)— <i>Return imp.</i> Rothbury (Brinkburn Priory)— <i>Record lost.</i> Alwinton (Harbottle Castle)— <i>No observations.</i>	Corbridge (Newton Hall). Ilderton (Lilburn Cottage). Kirknewton (Hethpool).
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CUMBERLAND (68).

Wythburn— <i>Gauge leaking.</i> Penrith (Ennim)— <i>No observations.</i>	Cockermouth (Ullock) M. Matterdale. Penrith (Inglewood).
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WESTMORELAND (40).

Ravenstonedale (Brownber)— <i>Record ceased.</i>	Kirkby Lonsdale (Casterton).
	| Milnthorpe (Eversley).
	| Rydal (The Stepping Stones).
	| Loughrigg (Silverthwaite).
	| Ravenstonedale.

MONMOUTH, WALES, AND THE ISLANDS.

MONMOUTH (30).

Chepstow (Moun-ton Road Res.)— <i>Record ceased.</i>	| Blaenavon.
Llanvihangel Court, M.— <i>Return imperfect.</i>	| Llantilio Court.

GLAMORGAN (49).

Port Talbot (Margam W.W.)— <i>No reply.</i>	| Barry W.W. (Merthyr Doran).
	| " " (Pencoedtre).
	| Port Talbot (Margam, Twyn-yr-hydd)
	| Caerphilly (Ystrad Mynach).
	| Llwynypia (Glyncornel). 8-in. g.
	| Ystradyfodwg (Fever Hospital).
	Blaenrhondda (Craig Carn Mosyn).

CARMARTHEN (8).

Llandovery (Neuaddfawr)— <i>Not received.</i>	
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PEMBROKE (8).

Tenby— <i>No reply.</i>	Pembroke Dock (County School).
Llanrhian Vicarage— <i>Observer dead.</i>	Haverfordwest (Picton Castle).

CARDIGAN (4).

BRECKNOCK (36).

Llanwrtyd Wells (Dolecoed)— <i>Not received.</i>	
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RADNOR (17).

Caerwnon [Builth]— <i>Record ceased.</i>	
Pen-y-bont— <i>No reply.</i>	

MONTGOMERY (12).

| Welshpool (Leighton Hall).

FLINT (6).

Rhyl (Sedgley House)—*Gauge moved.* |

DENBIGH (19).

Colwyn Bay (Abergele Road)—*No reply.* | Llanefydd (Glascoed Reservoir).

MERIONETH (7).

Corwen (Rhug Gardens)—*Record ceased.* | Tan-y-bwlch (The Gardens).

CARNARVON (30).

Llanllyfni (Rhydlydan)— <i>Record ceased.</i>	|	Snowdon (Glaslyn).
Snowdon (Cwm Glas) No. 4.— <i>G. destroyed.</i>	|	Eigiau, Upper, No. 15.
Bangor (Penrhyn Castle)— <i>Same gauge as</i>	|	Lake Cowlyd (Upp.Brwynog) No.16
<i>the following entry.</i>	|	(Lower „) No.18
	|	Frith Rhos, No. 17.
	|	Bangor (Bethesda, St. Anne's Vic.)

ANGLESEA (8).

| Llanfachreth.

ISLE OF MAN (9).

Derbyhaven— <i>Mean of 4 gauges.</i>	|	Bishop's Court.
Ramsey— <i>Not received.</i>	|	

ISLES OF SCILLY (2).

JERSEY (2).

GUERNSEY (6).

SCOTLAND.

WIGTON (6).

Loch Ryan—*Record imperfect.* | Whithorn.

KIRKCUDBRIGHT (14).

New Galloway (Glenlee)—*Observer moved.* | Kirkcudbright (Balmae).

DUMFRIES (14).

| Dumfries (Dalawoodie House).

ROXBURGH (11).

| Hawick (Wolfelee).

SELKIRK (3).

PEEBLES (7).

Kirkurd (Castle Craig)—*Record ceased.* |

BERWICK (7).

West Foulden—*Record unreliable.* | Duns (Manderston).

HADDINGTON (7).

EDINBURGH (25).

Rosewell Asylum— <i>Record ceased.</i>	|	Edinburgh (George Square). 3 in. g.
Pentland Hills (Swanston)— <i>Record imperfect.</i>		
Liberton (R. Obs., Blackford Hill). 5 in. g.— Not received		
Edinburgh (Blacket Place)— <i>Observer moved.</i>		

LINLITHGOW (6).

| Linlithgow (Rockville)

LANARK (20).

AYR (20).

Dalmellington (Benquhat)— <i>Observer moved.</i>	|	Ailsa Craig. Maybole (Knockdon Farm) Ayr (Newark Castle).

RENFREW (30).

| Paisley (The Coats Observatory).

DUMBARTON (3).

Arrochar—*Observer dead.* |

STIRLING (21).

Little Denny Filters—*Gauge out of order.*Kippen (Arngomery)—*Gauge moved.*

| Kilsyth (Currymire).

| Falkirk (Inglewood, Laurieston).

BUTE (5).

ARGYLL, MAINLAND (17).

Oban (Loch-na-gleann-na-brathrach—*No*
reply.,, (The Corran)—*No reply.*| Lochgilphead (Poltalloch) M.
Ballachulish House.

ARGYLL, INSULAR (20).

| Islay (Gruinart School).

| Mull (Bunessan).

| „ (Knock).

| „ (Gruline, Aros).

CLACKMANNAN (5).

| Tullibody House [Stirling].

| Dollar (Home Farm, Dollarbeg).

KINROSS (4).

FIFE (11).

Inchkeith—*Record doubtful.*Beath (Outh)—*No observations.*Isle of May—*Record doubtful.*Kilmany (Mountquhanie)—*Observer dead.*Balmerino—*Record ceased.*

| Culross (West Grange).

PERTH (28).

Callander (Leny)— <i>Return incomplete.</i>	Balquhidder (Blaircreach).
Abernethy— <i>Not received.</i>	Blairgowrie (Ballintuim House).
Perth (Kinfauns Castle)— <i>Record ceased.</i>	
„ („ „ Gardens)— <i>Rec. ceased.</i>	

FORFAR (32).

Broughty Ferry (Corona Gardens)— <i>No reply.</i>	Dundee (Balruddery).
Liff— <i>Record ceased.</i>	
Kirriemuir (Lintrathen, Longdrum)— <i>Record</i>	
	<i>[interrupted.]</i>
„ („ Glen Dye) „	
„ („ Barney) „	
„ („ Glen Damff) „	

KINCARDINE (7).

Johnshaven (Brotherton)— <i>Not received.</i>	Crathes (Pinewood).
	„ (Woodbank Cottage).

ABERDEEN (20).

Forest of Glen Tana— <i>Record ceased.</i>	Braemar (Glencunnie Lodge).
	Cromar (Logie Coldstone School).
	Strathdon (School House).
	Alford (Lynturk Manse).
	Monymusk (The Manse).

BANFF (4).

Aberlour— <i>Record imperfect.</i>	
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ELGIN OR MORAY (6).

Forres, H.R.S.— <i>Observer dead.</i>	Carron (Bridgend Cottage).
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NAIRN (4).

WEST ROSS AND CROMARTY (12).

Glenshiel (Cluanie Forest).
Loch Vraon.
Braemore House.
| „ (Foich Lodge).

EAST ROSS AND CROMARTY (7).

Strathpeffer Spa (Ambatovory)—*Record imp.* |

WEST INVERNESS (23).

Skye (Raasay House)—*Observer moved.*
S. Uist (Askernish)—*Observer moved.*

Skye (Armerdale Ardvasar).
Eigg.
„ (Kildonan).
Harris (Tarbert).

EAST INVERNESS (11).

A viemore, H.R.S.—*No observations.*

Mucomir.
Loch Ness (Aberchalder).
„ „ (Drumnadrochit).
Inverness (High School).

SUTHERLAND (9).

Loch Naver (Altnaharra)—*Record ceased.*
Durness—*No reply.* |

CAITHNESS (6).

Stroma—*Record imperfect.* |

ORKNEY (12).

SHETLAND (5).

IRELAND.

CORK (13).

KERRY (7).

Mangerton—*Gauge leaking.* |

WATERFORD (8).

Waterford (Cove Lodge)—*2 gauges—Obsr. dead.* | Portlaw (Milfort).

TIPPERARY (7).

Ballina [Killaloe]—*Not received.* | Nenagh (Highlands).

LIMERICK (5).

Pallaskenry (Kilcornan)—*Record ceased.* | Limerick (Corbally).

CLARE (10).

WEXFORD (7).

| Oulart (Wells).

KILKENNY (8).

WICKLOW (10).

| Bray (San Remo).

CARLOW (3).

QUEEN'S COUNTY (2).

| Mountrath (Ballyfin).

KING'S COUNTY (3).

KILDARE (3).

DUBLIN (16).

| Dundrum (Lynton).
| Kingstown (Peoples' Park).

MEATH (7).

| Oldcastle (Killeagh Rectory).

WESTMEATH (4).

LOUTH (2).

Dundalk (Farndreg)—*Record lost.* |

LONGFORD (0).

Cloondra—*Not received.* |

GALWAY (10).

Clifden (Kylemore Castle)—*Gauge moved.* | Galway (Queen's College).

ROSCOMMON (0).

Athlone—*Not received.* |Rooskey—*Not received.* |

MAYO (9).

| Westport (Mallaranny).

SLIGO (4).

LEITRIM (1).

Jamestown (Albert Lock)—*Not received.* |Drumshanbo—*Not received.* |

CAVAN (5).

Belturbet (Red Hills)—

Gauge believed to be leaking. |

FERMANAGH (1).

MONAGHAN (2).

ARMAGH (5).

DOWN (8).

Waringstown—*Record ceased.* |

ANTRIM (18).

| Glenarm Castle.

LONDONDERRY (6).

Londonderry(Clooney Terrace)—*Observer dead.*| Limavady (Bellarena).

TYRONE (3).

DONEGAL (8).

Raphoe (Convoy House)—*Observer dead.* | Raphoe (Convoy).
| Malin Head.

O B I T U A R Y .

IN a body of more than 3,000 persons devoted to any particular pursuit the inevitable hand of death is not long absent, and although the following list is not of unusual length, we feel that we have to regret the loss of an exceptionally large number of old friends of the Organization.

The average period of observation shown in the table is 20 years, while no fewer than nineteen of these Observers had continued their record for more than a quarter of a century, twelve for 30 years or longer, and two for more than 40 years.

The names of those who had completed 30, or more, years of observation are :—

Mr. Hurtley	of Old Malton	43 years.
Mr. Mansel-Pleydell	„ Blandford	40 „
Mr. Hinxman	„ Fordingbridge.....	37 „
Mrs. Horner.....	„ Mells	37 „
Col. Forde.....	„ Seaforde	34 „
Mr. Peake.....	„ Hull	34 „
Rev. Dr. Davidson	„ Logie Coldstone ...	31 „
Mr. Tyrer	„ Cheltenham.....	31 „
The Hon. G. Dalrymple...	„ St. Boswells	30 „
Sir J. H. Gilbert.....	„ Rothamsted	30 „
Dr. Jeans	„ Grantham	30 „
Canon Pinder	„ Greys, Henley ...	30 „

It would be out of place here to endeavour to estimate the value to the community of these long records, or to make reference to the services of the deceased observers to their day and generation in other branches of activity, but without undervaluing these, reference may be made to one or two names which are associated with landmarks in the history of *British Rainfall*. Dr. J. W. Jeans, of Grantham, was one of the original band of 168 observers whose records appeared in the leaflet of 1860, the first publication of the series. The Rev. J. Chadwick Bates in 1862, 1863 and 1864, at Castleton Moor conducted experiments on the elevation and magnitude of rain-gauges and also on the temperature of falling rain. Sir J. H. Gilbert was for many years responsible for the extensive series of records of evaporation and percolation at Rothamsted, and also of the large rain-gauge there with a receiving area of one-

thousandth of an acre. Mr. Tyrer, of Cheltenham, had for many years published monthly tables of the rainfall of Gloucestershire and stimulated interest in the subject throughout the county.

Referring to the question of longevity, which the late G. J. Symons so often claimed as associated with the pursuit of meteorological observations, we find that we have particulars of the age of 26 of the deceased observers. Of these no fewer than 21 had passed the allotted span of three-score years and ten, while eleven had attained their eightieth year, and six had reached or passed the eighty-fifth year.

Observers Deceased to July, 1902.

NAMES AND STATIONS.	PERIOD OF OBSERVATION.	
	DATE.	Perfect Yearly Records.
Alexander, Rev. G. E., { Stoke Bliss, Tenbury	C 1873 imp -1894 T }	25
{ Belvedere Terrace, Tun- bridge Wells.....	1897-1900	
Ball, Rev. F. J., { East Mersea Rectory.....	C 1888 imp -97 T .. }	12
{ Ardleigh	C 1898-1900 }	
Bannerman, Sir G., Bart., East Hill, Brackley	1891-1901	11
Bates, Rev. J. Chadwick, Castleton Moor, Rochdale	C 1863 imp -66 T 1880-5	9
Biddell, W., Esq., Lavenham Hall, Suffolk	1878 imp 1880-1900 C	21
Conroy, Mr. J., { Sch. Military Engineering, Chatham	C 1869-1874 T	28
	Mt. Mellick, Tinnahinch, Queen's Co	
	1876 T.....	
	C 1878 imp -81 T ...	
{ Abercarn Road, Londonderry	C 1882 -1901 imp T }	17
{ Clooney Terrace, Londonderry ...	C imp 1883-1900 imp T }	
Conway, Rev. R., { Alconbury Vicarage	C imp 1900-1901 ... }	3
{ Catworth	1887-89	
Crimp, W. Santo, Esq., Raynes Park, Wimbledon..	C imp 1892 -1900 ...	8
Crooke, Rev. C. H., Sheepstor	C 1872-1901	30
Dalrymple, Hon. G. G., St. Boswell's, Elliston, N.B.	C 1870 imp -1901 ...	31
Davidson, Rev. Dr., Logie Coldstone Manse	C 1872 -1901 imp ...	29
Dewar, Rev. J., Arrochar	1880-95 imp	15
Flower, Major Lamorock, Fieldes Weir, Hoddesdon	1867 imp -1901 C...	34
Forde, Rt. Hon. Col., Seaforde, co. Down	1875-1901	27
Fraser, Rev. Dr., Colvend Manse, Dalbeattie	1878-1891 T	24
Garret, Rev. H., { Highfield, Southampton	C 1892-1901	
{ North Thoresby, Louth	1872-1901 C	30
Gilbert, Sir J. H., F.R.S., Rothamsted, St. Albans	1886-1901	16
Harrowby, Earl of, High Ashursh, Dorking	1873-78 imp -	18
Harvey, T. N., Esq., { Tramore, Waterford	1879-83 imp ...	
	C 1885-88, 1890-91 }	
	imp T	
{ Cove Lodge, Waterford	C 1891 imp-1900 ... }	21
Harwood, Rev. J. T., Beverley Road, Driffield	1881-1901	
Hilder, W., Esq., Little Westwell, Tenterden	1890-1901	12

Observers Deceased to July, 1902—(continued).

NAMES AND STATIONS.	PERIOD OF OBSERVATION.	
	DATE.	Perfect Yearly Records.
Hinxman, H., Esq., { Lower Woodford, Salisbury... Wood Green, Fordingbridge..	C 1862-63, 65-74 imp T } 1875-1900	37
Horner, Mrs., Mells Rectory, Frome	C 1865-1901	37
Hurtley, H., Esq., Old Malton	C 1859-1901	43
Hutton, T. O., Esq., { Merlewood, Bickley	1880-1893 imp T } C imp 1893-1900 ...	20
Impey, W., Esq., Broomfield, Chelmsford	1888-1900	13
Irvine, Mr. C. S., Lawnswood, Adel	C 1887-93 imp 1895-1900	12
Jeans, J. W., Esq., Grantham	C 1851-1880 T	30
Jones, Rev. John, Abergwesyn Vicarage	1881-1901	21
King, Rev. F., South Molton	1894-1900	7
Lewis, Rev. Preb., Llanrhian Vic.	C 1893 imp -90.....	7
Lightfoot, Rev. G. H., Pickering Rectory	1886-1901	16
Lloyd-Philipps, Capt. F., Penty Park, Pembroke...	1885-1900 imp	12
Mansel Pleydell, J. C., Esq. { Longthorns, Blandford Whatcombe, Blandford	1867-77 imp } 1871-72, 1874-1901 }	40
MacGilp, Mr. D., Gruinart School Ho., Islay	C 1872-1900	24
McCausland, C. T., Esq., Drenagh, Limavady	imp 1872 -1900 C	28
Ommanney, Col., Bloxham, Oxford	C 1888-1894 T	7
Peak, E., Esq., Pearson Park, Hull.....	C 1867-1900 C	34
Pinder, Rev. Canon, Greys, Henley-on-Thames ...	C imp 1871-1901.....	30
Pix, Rev. H., { Minterne Rectory, Cerne Abbas.....	C 1877-87 imp T ... } C 1887 imp -1901 }	24
Relton, Rev. A., Brinsop Vicarage	C imp 1894-1901	7
Robinson, J., Esq., Westwood Hall, Leek	1874	1
Scott, J. W., Esq., { Muswell Hill	C 1872-82 imp T ... } C imp 1882-85 imp T } C imp 1885-1901 C }	28
Sing, Rev. Canon, { Greenhill, Allerton, Liverpool... Cromford, Matlock	C 1873-79 T	8
Spence, J. F., Esq., Chirton Cottage, N. Shields ...	C 1900 T.....	6
Strachey, Sir E., Bart., Sutton Court, Pensford ...	1895-1900 T	14
Sturt, Col., Llanvihangel Court.....	C 1887 imp -1901 C...	12
Thornton, R., Esq., Harrow	C imp 1889-1901 C ..	3
Tibbitts, J. B. Maunsell, Esq., { Barton Seagrave, Kettering.....	1899-1901	4
Tighe, Lady Louisa, Inistioge, Woodstock.....	1872-75, 1879 imp	22
Tyrer, R., Esq., { Grove House, Mansfield	1878-1899	31
Warren, J., Esq., Newton Heath	1870-76	22
Wheatley, T. E., Esq., West Bank, Ledbury	1878-1901	12
Whitehead, R., Esq., { Mt. Pleasant, Framlingham	C imp 1878-1901 imp	20
Williams, Rev. Preb., Llandefaelog-fach, Brecon ...	1873-1884 T	23
Wilson, C. M., Esq., Waldershaigh, Bolsterstone...	1880-98 imp T ... }	20
Wilson, J., Esq., C. E. Shaw's Water Works, Greenock	1899-1900	26
Witchell, P., Esq., The Acre, Stroud	1879-1901	10
Younger, H. J., Esq., Benmore, Lock Eck	C imp 1881-1901	10

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

RAINFALL AND METEOROLOGY
OF
1901.

SYMBOLS EMPLOYED.

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

ON THE METEOROLOGY OF 1901.

WITH NOTES ON SOME OF THE PRINCIPAL PHENOMENA.

These Notes should be read in conjunction with those on Heavy Rains in 1901.

JANUARY.

1st.—*Ross, The Graig* (VI). High flood on the Wye ; 13 ft. 9 in. at 7 a.m.

4th.—*Chelford, Astle* (VIII). Thick fog and cold E. wind.

6th and 7th.—*Tenterden* (II). Temp. below 32° all day.—*Dunkeld, Inverbraan* (XVI). S.

6th.—8th.—*Reigate, Woodhatch Lodge* (II). S.—*Redhill, Oxford Road* (II). S.—On 6th, at *Newmarket*, a labourer who had been sleeping out died from the intensity of the cold ; on 7th, at *Holmfirth, Yorks*, a mechanic died from exposure and exhaustion, and on 8th, at *Reading*, a man employed in one of the nursery gardens fell dead from stoppage of the heart's action due to the intense cold.

7th.—*Battle, Whittington* (II). S three and three-quarter inches deep.—*Wendover, Halton Gardens* (III). About four inches of S.

7th and 8th.—*Christchurch, Winkton Lodge* (II). S four inches deep.—*Ashburton, Druid* (V). S.

8th.—*Ealing* (I). Four inches of S.—*Bournemouth, Kempsey* (II). Four inches of S.

8th and 9th.*—*Blandford, Houghton Rectory* (V). A remarkable frost. Following a fall of S which lasted from 11 a.m. to 3 p.m. on the 8th the temp. fell from 31° at 3 p.m. to 25° at 4 p.m., and 15° at 7 p.m., when a thick fog which had formed cleared away. At 10.30 p.m. temp. was 11° , and the min. during the night was $10^{\circ}\cdot5$. By 1 p.m. on 9th it had risen to $39^{\circ}\cdot5$, and by 6 p.m. to 44° .

9th.—*Bournemouth, Kempsey* (II). Exceptional frost. Min. in shade $15^{\circ}\cdot2$. — *Cork, Wellesley Terrace* (XX). S. — *Ballindoney* (XXI.) S.—*Kilkenny, Sion Villa* (XXI). S and frost.

12th.—*Bournemouth, Kempsey* (II). Thick fog throughout the day.

* See also *Met. Mag.*, February, 1901, p. 7 ; and March, 1901, p. 20.

16th.—*Redhill, Oxford Road* (II). Gale from S.W.

17th.—*Miltown Malbay* (XX). L.

19th.—*Haslemere, Hazelhurst* (II). Gale from S. — *Abergwesyn Vicarage* (XI). H.

24th and 25th.—*Ashburton, Druid* (V). H.—*Ballachulish, Ardsheal* (XV). S.—*Fearn, Lower Pitkerrie* (XVIII). S. — *Drumnadrochit* (XVIII). S.—*Crossmolina, Enniscoe* (XXII). H.

24th—29th.—*Glenaladale* (XVIII). S and sleet daily.—*Invershin* (XIX). S daily.

24th—30th.—*Balquhiddier, Stronvar* (XVI). S and sleet daily.—*Blair-Atholl* (XVI). Severe S storms.

25th.—*Harptree Court* (V). Very heavy H storm.—*Baldersby* (IX). S.—*Buttermere, Hassness* (X). S.—*Lilliesleaf, Riddell* (XII). S.—*Colmonell* (XIV). T, L and S showers.—At *Fort William, Inverness*, the body of a navvy employed on the Mallaig railway was found by the roadside, death having occurred from exposure. The S was from 9 to 12 inches deep.

25th—27th.—*Killybegs* (XXIII). Strong gale from N.W.

25th—28th.—*Eskdale* (X). H and S.—*Llanfrechfa Grange* (XI). W. gale.

25th—29th.—*Winterbourne Herringstone* (V). Strong N.W. gale all five days.

25th—31st.—*Bettyhill* (XIX). S storms and boisterous weather.

26th.—*Redhill, Oxford Road* (II.) Gale from S.W.—*Chelford, Astle* (VIII). TS at 3.30 a.m. with heavy H, a gale from W. and S.—*New Galloway, Glenlee* (XII). T, L, S and R.—*Derry Castle* (XX). Heavy N.W. gale.

26th and 27th.—*West Dean* (II). Heavy S.W. and W. gale.—*Llanvihangel Court* (XI). Gale from W.N.W.

26th—31st.—*Wearhead* (X). S daily.

27th.—*West Kensington* (I). Strong S.W. gale.—*Haslemere, Hazelhurst* (II). Gale from W.—*Redhill, Oxford Road* (II). Very heavy gale from W. and W.N.W.—*Birchington* (II). Heavy W.N.W. gale.—*Emsworth, Redlands* (II). W. to N.W. gale.—*Blakeney* (IV). Very heavy N.W. gale.—*Southport, Hesketh Park* (VIII). Whole gale, highest velocity for a whole hour 53 miles, and in a gust 77 miles per hour. H.—*Harewood Lodge* (IX). T at 4.20 p.m. Severe gale in afternoon ; much salt deposited on windows.—*Stanley Grange* (IX). T and L.—*Denton House* (X). Gale with R and S.—*Ballachulish, Ardsheal* (XV). Gale from W.—*Ballindoney* (XXI). Gale from N.W. with sleet and S.

27th and 28th.—*North Cadbury* (V). A bad gale from before midnight on the 26th to about 2 a.m. on 28th. At 9 a.m. on the 27th the sky was overcast and there was a strange coppery light in W. and N.W. The air was extraordinarily clear, and the Quantock Hills showed coppery with great distinctness.—*Chelford, Astle* (VIII). Violent gale from N.W. with S. T on 28th.—*Buttermere, Hassness* (X). S.—*Borrowdale, Grange* (X). S.

27th—29th.—*Abergwesyn Vicarage* (XI). H and S daily.

27th—30th.—*Kensworth* (III). S daily.—*Carnbee, Ovenstone W.W.* (XVI). S daily.

27th—31st.—*Drumnadrochit* (XVIII). S daily.—*Enniscoe* (XXII). S and H.

28th.—*Corton, The Clyffe* (IV). Tempest and blizzard with total darkness from 4 to 4.30 p.m. Very vivid L.—*Burgh Castle Rectory* (IV). A remarkable storm with S, L and T.—*Harptree Court* (V). Heavy H storm.—*Ross, The Graig* (VI). Wye in high flood; height 12 ft. 3 in.—*Dowlais, Gwernllwyn* (XI). Very stormy, two inches of S fell.—*Dunmanway, Coolkelure* (XX). S.—A succession of S, H and R storms with T and L broke over *Northwich, Winsford* and *Middlewich*. A labourer at *Winnington* chemical works while handling a steel rope was struck by L and rendered unconscious, but recovered.

28th—30th.—*Highmore Vicarage* (III). H.—*Llandovery* (XI). S.

28th—31st.—*Corbridge, Howden Dene* (X). S.

29th and 30th.—*Killarney, Asylum* (XX). S.—*Killybegs* (XXIII). H and S.

30th.—*Penzance, St. Clare* (V). T, L and H.—*Stanley Grange* (IX). T and L.

30th and 31st.—*Chelford, Astle* (VIII). S each day.

FEBRUARY.

1st.—*Southport, Hesketh Park* (VIII). H and lunar halo.—*Eskdale* (X). S.—*Watten, H.R.S.* (XIX). S.

2nd.—*Hoar Cross* (VI). S.—*Coventry, Kingswood* (VI). S.

3rd and 4th.—*Chelford, Astle* (VIII). S each day.

4th.—*West Kensington* (I). Heavy fall of wet S.—*Finchley, Etchingham Park* (I.) S about six inches deep.—*Uxbridge, Harefield Park* (I). S.—*Chiddingfold* (II). S yielding 1.01 in.—*Witley, Fernside* (II). S 9 to 12 inches deep, the heaviest fall at one time since Dec. 26th, 1886. Huge masses rested on the fir trees and remained for about

three weeks.—*Cranleigh Common* (II). Heavy fall of S at night.—*Ewhurst Rectory* (II). S yielding .90 in.—*Farnham, Dippen Hall* (II). Nine inches of S.—*Newlands Corner* (II). Heavy S.—*Redhill, Oxford Road* (II). S.—*Betchworth* (II). Four and a half inches of S.—*Horsell, Lindisaye* (II). S, yielding .65 in.—*Bagshot, Hall Grove* (II). S seven and a quarter inches deep.—*Ashurst, Stone Ness* (II). S, yielding .84 in.—*Bickley, Elmhurst* (II). S.—*Borden Wood* (II). About five inches of S.—*Christchurch, Winkton Lodge* (II). S.—*West Dean* (II). Heavy S and N.E. gale.—*Cookham* (II), S.—*Broxbourne, Stafford House* (III). S.—*Berkhamsted, Rosebank* (III). S.—*Slough, Upton* (III). S.—*Hedsor* (III). Heavy S, yielding .86 in.—*Highmore Vicarage* (III). S ten and a half inches deep.—*Culham Vic.* (III). S.—*Oxford, Mag. Coll.* (III). S in the night.—*Swerford* (III). S five inches deep.—*Banbury, Bloxham Grove* (III). S.—*Chelmsford, Springfield Place* (IV). S.—*Mildenhall* (V). S.—*Harptree Court* (V). One and a half inches of S.—*Lechlade* (VI). S.—*Cirencester, Further Barton* (VI). S.—*Great Barrington* (VI). S.—*Hoar Cross* (VI). S.—*Coventry, Priory Row* (VI). S at night five inches deep.—*Southport, Hesketh Park* (VIII). S.—*Thixendale* (IX). Remarkable darkness from 1.30 to 3.30 p.m.—*Dowlais, Gwernllwyn* (XI). Blizzard with six inches of S.—*Lligwy* (XI). S.—*Douglas, Woodville* S storm all day.—*Colmonell* (XIV). Four inches of S.—At *Liverpool*, about 7 p.m., the telephone wires crossing London Road were broken down by the weight of S, and came in contact with the trolley wires of the electric tramway. Two foot passengers in the street were killed, and more than a dozen injured by the electric current.

4th and 5th.—*Steeple Aston, The Grange* (III). S.—*Coventry, Kingswood* (VI). S.

4th—6th.—*Penzance, St. Clare* (V). H.

5th.—*Ealing* (I). Five inches of S.—*Farningham, Mount Pleasant* (II). S three inches deep.—*Pyrton Manor* (III). S.—*Northallerton, The Lodge* (IX). Five or six inches of S.—*Meldon, Gallowhill Hall* (X). S and H

8th.—*Chelford, Astle* (VIII). Thick fog. Thaw commenced.

10th—12th.—*Burgh Castle Rectory* (IV). S averaging nearly six inches in depth.

13th.—*Chelford, Astle* (VIII). One inch of S.

14th.—*Thixendale* (IX). Heavy fall of S.—*Ballindoney* (XXI). Between 6.30 and 9.30 a.m. one and a half inches of S fell.

17th—21st.—*Chelford, Astle* (VIII). S daily.

23rd.—*Lligwy* (XI). Absolute drought for 17 days ended.

26th.—*Clifton, Pembroke Road* (VI). TS at about 5 p.m.

27th and 28th.—*Harptree Court* (V). T.

28th.—*Emsworth, Redlands* (II). S.W. to W. gale.—*Rochdale, Fieldhead* (VIII). In 40 mins. .30 in. of R fell.

MARCH.

1st.—*Wallington* (II). T and heavy H at 1 p.m.—*Rendlesham Hall* (IV). T.—*Penzance, St. Clare* (V). T, L and H.—*Truro, Killiow* (V). Severe TS during which the parish church at *Kea* was struck by L about 4.15 p.m.; the tower, which has a conductor, was uninjured, but the roof was damaged, and the church cleaner received a severe shock.—*Polperro* (V). Very loud T.—*Woodlawn* (XXII). S.

1st and 2nd.—*North Cadbury* (V). TSS.

1st—3rd.—*Llandefaelog-fach* (XI). H and T on 1st.

1st—4th.—*Harptree Court* (V). H storms and T.

2nd.—*Ashburton, Druid* (V). T and L.—*Cirencester, Further Barton* (VI). S, H, T and L at 8 p.m.—*Chelford, Astle* (VIII.) Gale from S.—*Dowlais, Gwernllwyn* (XI). A hurricane with H and R.

2nd and 3rd.—*Abergwesyn* (XI). H.

3rd.—*Wisbech, Elm* (III). T at 3.30 p.m.—*Ashburton Druid* (V). H and T.—*Thixendale* (IX). T followed by H.—*Dowlais, Gwernllwyn* (XI). H, T and L.

5th.—*Birchington* (II). T, L and H at 3 p.m.—*Rendlesham Hall* (IV). TSS.—*Crossmolina, Enniscoe* (XXII). H.

5th and 6th.—*West Kensington* (I). S.W. gale.—*Mullingar, Belvedere* (XXI). S.

5th—7th.—*Markree Observatory* (XXII). H showers.

6th.—*Wallington* (II). Heavy H at 1 p.m.—*Broxbourne* (III). T, L and S.—*Harptree Court* (V). Heavy S storm.—The German church at *Dalston, London*, was struck by L and the organ loft was fired.

7th.—*Maidstone, Ulcombe Place* (II). T, L and H near here.—*Broxbourne* (III). S and H.—*Ballindoney* (XXI). N.W. gale.

18th.—*Harptree Court* (V). S, one and a half inches deep.—*Coventry, Priory Row* (VI.) Heavy S.

18th and 19th.—*Wisbech, Elm* (III). S. — *Blakeney* (IV). S.—*Knaresborough, Farnham* (IX). H and S.

19th.—*Kensworth* (III) S. — *Banbury, Bloxham Grove* (III) S.—*Sedgbrook* (III). S.—*Llanvihangel Court* (XI). S.

19th—21st.—*Chelford, Astle* (VIII). Gale from E.

19th—31st.—*Dowlais, Gwernllwyn* (XI). S daily.

20th.—*Kingskerswell, South Hill* (V). S and sleet, yielding 2·10 in., with a N.E. wind.

20th and 21st.—*Birchington* (II). Heavy N.E. gale.

21st.—*West Dean* (II). Heavy N.E. gale.—*Ashburton, Druid* (V) S 18 inches deep.—*Polperro* (V). S drifts on the hills 1 to 2 ft. deep.—A party of labourers tramping from *Plymouth* to *Exeter* were overtaken near *Princetown* by a gale and snowstorm, and one of them, after being without food for 30 hours, succumbed. The S drifts were from 5 ft. to 12 ft. deep.

24th and 25th.—*Northallerton, The Lodge* (IX). S.

25th—28th.—*Crossmolina, Enniscoe* (XXII). S.

25th—29th.—*Scalby* (IX). S daily.

26th—28th.—*Woodlawn* (XXII). S.

26th—29th.—*Ballindoney* (XXI). S daily.

27th.—*Burgh Castle* (IV). S.

28th.—*Bournemouth, Kempsey* (II). S from about 6.55 to 8.15 p.m., depth one inch.—*Wisbech, Elm* (III). T at 3.45 p.m.—*Burgh Castle* (IV). TS and S.—*Eigg* (XVIII). S about one foot deep.—*Derry Castle* (XX). Blizzard at night.—*Castledermot* (XXI). Heavy fall of S.—*Belturbet, Clover Hill* (XXIII). Three inches of S.—*Killybegs* (XXIII). S.

28th—30th.—*Wolsingham* (X). S.

28th—31st.—*Mullingar, Belvedere* (XXI). S and H.

29th.—*Worksop, Hodsock Priory* (VII). Heavy S.—*Southport, Hesket Park* (VIII). Heavy fall of S.—*Broughton-in-Furness* (VIII). Fully six inches of dry S.—*Seathwaite Vicarage* (VIII). Heavy S.—*Goldsborough Hall* (IX). Severe S storm with strong S.E. wind.—*Thixendale* (IX). A blizzard after 5 p.m.—*Baldersby* (IX). S.—*Eskdale* (X). S.—*Borrowdale, Grange* (X). S.—*Colmonell* (XIV). Three and a half inches of S.—*Miltown Malbay* (XX). T, L and H.—*Kilkenny, Sion Villa* (XXI). S two and a half inches deep.—*Banbridge, Milltown* (XXIII). S.

29th and 30th.—*Upper Midhope* (IX). S, sleet, R and H.—*Maxwelton House* (XII). S seven inches deep.

30th.—*Wallington* (II). S.—*West Dean* (II). Heavy S.S.W. gale.—*Lechlade* (VI). High wind, H and T.—*Further Barton* (VI). T and L at 1.30 p.m., and H.—*Upper Midhope* (IX). Heavy sleet and H.—*Goldsborough Hall* (IX). T.—*Glenlee* (XII). S three inches deep.—*Glasgow, Queen's Park* (XIV). S.

31st.—*Sedgebrook* (III). T.—*Wisbech, Elm* (III). T and H.—*Coventry, Kingswood* (VI). Slight T and L.

APRIL.

1st.—*Haywards Heath, Braydell Lodge* (II). TS.—*Wisbech, Elm* (III). S, H and T.—*Cheltenham, Southam Villa* (VI). T and heavy H.—*Coventry, Priory Row* (VI). TS and H.

2nd.—*Barr Manse* (XIV). R 2·03 in., the largest fall recorded here.—*Ballindoney* (XXI). S.E. gale.

4th.—*Chelford, Astle* (VIII). Gale from W. with S.—*Southport, Hesketh Park* (VIII). H and gale.

5th.—*Ashburton, Druid House* (V). Heavy S.—*Ingleby Greenhow* (IX). Well marked solar halo.

7th.—*Further Barton* (VI). Severe S.W. gale. *Abergwesyn* (XI). Very stormy with H.

7th and 8th.—*Emsworth, Redlands* (II). S.W. to W. gale.—*Llandovery* (XI). H.

8th.—*Bishops Cannings* (V). H and T.—*Cirencester, Further Barton* (VI). W. gale and H, R, T and L.—*Cheltenham, Southam Villa* (VI). T, S and H.—*Ross, The Graig* (VI). L.—*Church Stretton* (VI). The last S drift on *Long Mynd* melted.

8th and 9th.—*Harptree Court* (V) H storms and T.—*Clifton, Pembroke Road* (VI). H storms.—*Great Barrington* (VI). T and L.—*Thixendale* (IX). T and H.

9th.—*Cirencester, Further Barton* (VI). Heavy H storm at 6 p.m.

10th.—*Tavistock, Whitchurch* (V). L.—*Llanfrechfa Grange* (XI). T.—At *Coverack* near *St. Keverne, Cornwall*, two houses were struck by L about midnight and wrecked. In the valley below a mill was struck and a cow and pigs were killed in the outbuildings.

11th.—*Llanfrechfa Grange* (XI). H storm.

12th.—*Douglas, Woodville* (XI). Strong N.W. gale.

13th.—*West Dean* (II). Heavy W. gale and T.—*Findern, The Longlands* (VII). TS.

14th.—*Harewood Lodge* (IX). Several brilliant flashes of L without audible T. Sky nearly clear.

14th and 15th.—*Abergwesyn* (XI). S and H.

14th—16th.—*Southport, Hesketh Park* (VIII). H daily, and gales on 14th and 15th.

15th.—*Haslemere, Hazelhurst* (II). T.—*Crowborough* (II). T and H.

—*Haywards Heath, Braydell Lodge* (II). TS. House struck one mile N.—*Bournemouth, Kempsey* (II). T and L at 2 p.m., with R and H.—*Emsworth, Redlands* (II). T and L.—*Wisbech, Elm* (III). S and T.—*Little Saxham* (IV). T and H showers.—*North Cadbury* (V). H.—*Findern, The Longlands* (VII). TS.—*Llandovery* (XI). S and H.—*Ballindoney* (XXI). Heavy H at 10 a.m., and TS lasting 15 minutes at 11 p.m.—*Kilkenny, Sion Villa* (XXI). Loud T and vivid L at 10 p.m.

15th and 16th.—*Tottingworth Park* (II) T and H.—*Harptree Court* (V). H storms and T.—*Chelford, Astle* (VIII). TSS each day.

16th.—*Seathwaite Vicarage* (VIII). T and L at night.—*Lewes, Saxonbury* (II) TS.—*Goldsborough Hall* (IX). T, R, H and S.—*Brampton, Denton House* (X) T.—*New Galloway, Glenlee* (XII). T and H.

21st.—*Lynton, Rock House* (V). T and L.

23rd.—*Haslemere, Hazelhurst* (II). S.W. gale with heavy R.

24th.—*Bournemouth, Kempsey* (II). Remarkably warm and dry forenoon. Temp. 67°·8 at 9 a.m., and max. 69°·7 at 10.45 a.m. Relative humidity at 9 a.m. 46.

27th.—*Church Stretton* (VI). T and L.

MAY.

1st.—*Wolverhampton, Tettenhall* (VI). Absolute drought for 15 days ended

2nd and 3rd.—*Inveraray, Newtown* (XV). TSS.

3rd.—*Calstone Rectory* (V). Absolute drought for 17 days ended.—*Bolton, The Park* (VIII). Slight T and L at 5.15 p.m.—*Brampton, Denton House* (X). T and L.—*Colmonell* (XIV). T and L.—*Stronvar* (XVI). T and L.—*Cork, Wellesley Terrace* (XX). T and L.

4th.—*Dowlais, Gwernllwyn* (XI). Absolute drought for 18 days ended.

5th.—*West Kensington* (I). and *Emsworth, Redlands* (II). Absolute drought for 19 days ended.—*Otterbourne W.W., Shawford* (II). Absolute drought for 17 days ended.—*Cirencester, Further Barton* (VI). T, R, and H at 6 p.m.—*Knaresborough, Farnham* (IX). T and L.—*Brampton, Denton House* (X). T and L.—*Dowlais, Gwernllwyn* (XI). T.

5th—7th.—*Cahir, Duneske* (XX). T and H daily.

7th.—*Tavistock, Whitchurch* (V). Heavy S storm 11 a.m. to noon.—*Thixendale* (IX). L and much T.—*Brampton, Denton House* (X).

T and L.—*Colmonell* (XIV). Very heavy H.—*Cork, Wellesley Terrace* (XX). T and L.—*Kilkenny, Sion Villa* (XXI). L and loud T at night.

7th and 8th.—*West Dean* (II). H.

8th.—*Haslemere, Hazelhurst* (II). TS with H.—*Horsell, Lindisaye* (II). TS.—*Wallington* (II). Heavy TS and H at 1 p.m.—*Christchurch, Winkton Lodge* (II). Frost, doing much damage to flowers and fruit.—*Ashburton, Druid* (V). TS and H.—*Ballindoney* (XXI). T and H.

8th and 9th.—*Chiddingfold* (II). TSS.

9th.—*Caterham Valley, Bradenhurst* (II). TS with 1.61 in. of R.—*Wokingham* (II). TS.—*Swerford* (III). H and T.—*Pitsford, Sedgebrook* (III). Stormy with T.—*Cirencester, Further Barton* (VI). T, L, R and H from 3 to 7 p.m.—*Cheltenham, Southam Villa* (VI). TS.

10th.—*Colchester, Lexden* (IV). Heavy shower of H.

14th—16th.—*Thixendale Vicarage* (IX). Northern lights visible each night.

17th.—*Colmonell* (XIV). T and L.

24th.*—*Betchworth, The Holmes* (II), *Oxford, Elsfield* (III), *Upper Midhope* (IX), *Knaresborough, Farnham* (IX) and *Wetwang* (IX). Absolute drought for 15 days ended.

25th.—*Hereford, Burghill Court* (VI), *Southport, Park Crescent* (VIII), *Garstang, Forton* (VIII), *Sawrey, Tower Bank* (VIII), *Eastgate Vicarage* (X), *St. Asaph, Nantillys* (XI) and *Killiney, Cloneevin* (XXI). Absolute drought for 15 days ended.—*Wolverhampton, Tettenhall* (VI), *Wakefield, Walton* (IX) and *Lligwy* (XI). Absolute drought for 16 days ended.

26th.—*Brampton, Denton House* (X). Absolute drought for 15 days ended.

27th.—*Brampton, Denton House* (X). T, L and R.—*Danbury Rectory* (IV) and *Douglas, Villa Franca* (XX). Absolute drought for 17 days terminated.

27th and 28th.—*Cirencester, Further Barton* (VI). T.

28th.—*Margate, Grosvenor Place* (II), *Hawkedon Rectory* (IV), *Calstone Rectory* (V) and *Dowlais, Gwernllwyn* (XI). Absolute drought for 18 days ended.—*West Kensington* (I), *Watergate* (II), *Bournemouth, Kempsey* (II), *Emsworth, Redlands* (II), *Otterbourne, W.W., Shawford* (II), *St. Albans, County Museum* (III), *Highmore Vicarage* (III), *Cambridge, Benet Place* (III) and *Harptree Court* (V). Absolute drought for 19 days ended.—*Bournemouth, Kempsey* (II). Partial drought for 43 days, with .38 in. of R, ended.—*Otterbourne, W.W., Shawford* (II)

* See also *Met. Mag.*, June, 1901, p. 92.

Partial drought for 45 days, with .41 in. of R, ended.—*Swansea, St. James' Gardens* (XI). Partial drought for 42 days, with .37 in. of R, ended.

29th.—*Christchurch, Winkton Lodge* (II) T.—*Swerford* (III). Heavy TS lasting about an hour.—*Pitsford, Sedgebrook* (III) TSS.—*Wisbech, Elm* (III). T at 4.15 p.m.—*Upminster Hall* (IV), *Terling Vicarage* (IV) and *Redruth, Trewirgie* (V). Absolute drought for 19 days ended.—*King's Heath, Cambridge Road* (VI). In 18 mins. .52 in. of R fell.—*Market Overton* (VII). TS.—*Horncastle, Bucknall* (VII). TS.—*Findern, The Longlands* (VII). TSS.—*Chelford, Astle* (VIII). T.—*Bolton, The Park* (VIII). TS between 6.15 and 7 p.m.—*Southport, Hesketh Park* (VIII). Slight TS in evening.—*Broughton-in-Furness* (VIII). T, L and heavy R.—*Upper Midhope* (IX). Smart TS at night with H.—*Harewood Lodge* (IX). Sharp TS from 7.30 to 8 p.m.—At *Bottisham, Cambridge*, farm buildings were struck by L and a pony and cattle killed.—At *Grimston, Norfolk*, a militiaman sitting at an open window was killed by L, and two companions were slightly injured.—At *Stretton-on-Dunsmore* some excursionists from Coventry sheltered under an elm and were struck by L; one man was killed, several women and children were injured and a horse was killed.

29th and 30th.—*Knaresborough, Farnham* (IX). T and L.

31st.—*Lochmaddy* (XVIII). Strong gale from S.E.—*Murrisk Abbey* (XXII). Great gale from S.E. veering to S.W.

JUNE.

1st.—*Aldermaston Wharf* (II). Absolute drought since May 11th ended.

2nd.—*Thixendale* (IX). About 10 a.m. .10 in. of R fell in five minutes.

3rd.—*Findern, The Longlands* (VII). TS.

10th—13th.—*Southport, Hesketh Park* (VIII). Moderate to fresh gales daily, H on 12th.

11th.—*West Kensington* (I). Partial drought for 56 days, with .51 in. of R, ended.—*St. Albans, County Museum* (III). Partial drought for 33 days, with .33 in. of R, ended.—*Rochdale, Fieldhead* (VIII). In 20 mins. .10 in. of R fell.—*Colmonell* (XIV). H.—*Drumnadrochit* (XVIII). H and T.—*Invershin* (XIX). H and T.

12th.—*Goldsborough Hall* (IX). Heavy H storm and T.—*Knaresborough, Farnham* (IX). Two severe flashes of L at 6.30 p.m.; the

first struck an oak half a mile from here, and grooved it in a N. to S. direction.—*Brampton, Denton House* (X). T.

12th and 13th.—*Christchurch, Winkton Lodge* (II). Gale from W.

13th.—*Church Stretton* (VI). S fell in places in the early morning.

14th.—*Cirencester, Further Barton* (VI). Heavy TS passed to E.—*Chelford, Astle* (VIII). T, heavy R, and very large H.

18th.—*Burghill Court* (VI). Partial drought for 40 days, with ·34 in. of R, ended.

19th.—*Little Ponton Rectory* (VII). Sharp frost caused great destruction to potatoes, &c.—*Thixendale* (IX). Terrible havoc wrought in the garden by frost. Min. temp. 24°.

20th.—*Upminster Hall* (IV). Partial drought for 39 days ended. There was little food for cattle, and the worst hay crop for many years.

21st.—*Rochdale, Fieldhead* (VIII). In 7 mins. ·08 in. of R fell.

22nd.—*Emsworth, Redlands* (II). S.W. to W. gale.

22nd and 23rd.—*Tavistock, Whitchurch* (V). S.S.W. gale.

23rd.—*Cirencester, Further Barton* (VI). Strong S.W. to W. gale all day.

24th.—*Great Glemham* (IV). In about half-an-hour at noon ·58 in. of R fell.—*Chelford, Astle* (VIII). H.

26th.—*Glastonbury, Street* (V). At 8.30 p.m. a sun pillar was noticed extending 20° or 25° above the horizon.

28th and 29th.—*Farnham, The Bourne Vicarage* (II). TSS.

29th.—*Cranleigh Common* (II). TS at night.—*Wallington* (II). TS at night.—*Ashburton, Druid* (V). TS.—*Tavistock, Whitchurch* (V). E. gale and TSS.—*Wellington, The Avenue* (V). Violent TS at night.—*Harptree Court* (V). Heavy T.—*Clifton, Pembroke Road* (VI). TS.—*Lechlade* (VI). TS.—*Cirencester, Further Barton* (VI). Heavy T, L and R in the early night; the L was unusually fine. E. to S.W. gale later.—*Cheltenham, Southam Villa* (VI). TS.—*Dowlais, Gwernllwyn* (XI). TS.—*Llandovery* (XI). T and L.—At *Awliscombe, Devon*, a house was fired by L and burnt down.

29th and 30th.—*Haslemere, Hazelhurst* (II) TS with heavy R.—*Chiddingfold* (II). TSS.—*Abinger Hall* (II). Severe TS with extremely vivid L from 10 p.m. to 3 a.m. on 30th, with two intervals of about 15 minutes.—*Betchworth, The Holmes* (II). TSS.—*Horsell, Lindisaye* (II) TSS.—*Lewes, Saxonbury* (II) TSS.—*Emsworth, Redlands* (II) TSS more or less continuous from 10 p.m. on 29th to 10 p.m. on 30th. In the 24 hours 2·77 in. of R fell, the largest amount in 24 hours ever

recorded here.—*Oxford, Mag. Coll.* (III). T and very vivid L.—*Rousdon* (V). Distant T at intervals all day on 29th, and about 8 p.m. L all round the compass. About 2.45 a.m. on the 30th a brilliant flash was simultaneous with three loud reports as of heavy guns, and a cottage at Higher Crooklands, near Coomlepyne, was struck, the chimney demolished and great damage done.*—*Romansleigh Rectory* (V). Exceptionally severe T and L.—*Wellington, The Avenue* (V). TSS intermittently from 5 p.m. on 29th to 2 p.m. on 30th, with R 1.64 in. on 29th and .27 in. on the 30th.—*North Cadbury* (V) TSS.—At *Tiverton* a house was struck by L, and a sheep-dog in the cellar was killed.—At *Pawlett, Somerset*, a colt and nine sheep were killed.

30th.—*West Kensington* (I). TS in early morning.—*Crowborough* (II). Sharp TS between 2 and 3 a.m.—*Haywards Heath, Braydell Lodge* (II). TS. House struck 1 mile N., near that struck on April 15th.—*Ryde, New Lodge* (II). Between 0.40 and 1.10 p.m. 1.05 in. of R fell, with loud T.—*Highmore Vicarage* (III). Heavy TS.—*Banbury, Bloxham Grove* (III). TS.—*Malmesbury, Charlton* (V). T nearly all day.—*Otterford, Otterhead* (V). Heavy TS with 1.41 in. of R.—*West Bromwich* (VI). R, 1.15 in. in 12 hours.—*Coventry, Priory Row* (VI). T, L and 1.61 in. of R.—At *Nash, near Newport, Mon.*, half-a-dozen cattle were killed by L, and at *Bridgend, Glamorgan*, a house was struck.

JULY.

1st.—*Harpree Court* (V). From 0.16 to 0.27 p.m. .29 in. of R fell. Heavy T.—At *Chideock, near Bridport*, a cottage was fired by L, and the occupants had a narrow escape, the cottage and the two adjoining being destroyed.

2nd.—*Haslemere, Hazelhurst* (II). More than an inch of R fell between 10 and 11 a.m.—*Chiddingfold* (II). TS.—*West Dean* (II). Sharp TS.—*Swerford* (III). Between 0.45 p.m. and 2.30 p.m. .55 in. of R fell.

6th.†—*Lewes, Saxonbury* (II). TS with .20 in. of R; two miles away 1.50 in. and 2.00 in. were measured.—*Haywards Heath, Braydell Lodge* (II). TS.—*Colchester, Lexden* (IV). TS.—A youth was killed by L between *Withyam* and *Crowborough, Sussex*, and at *Framfield, Sussex*, one of two men who had sought shelter in a chicken house was killed.

* See *Quart. Journal*, R. Met. Soc., No. 121, for January, 1902.

† See also *Met. Mag.*, July, 1901, p. 108.

10th.—*Grange-over-Sands, Belmont* (VIII). Three TSS passed overhead or very near.—*Knaresborough, Farnham* (IX). TS.—*Seaham Hall* (X). A remarkable H storm at 3 p.m., broke 2,413 panes of glass in 15 mins.—*Lilliesleaf, Riddell* (XII). T.

11th.—At four inquests held in *London* death was found to have been caused by heat apoplexy; a death occurred from sunstroke also at a flower show at *Wolverhampton*.

12th.*—*Wokingham* (II). TS.—*Maidenhead, Castle Hill* (II). Very exceptional R, 4·24 in.—*Maidenhead, Lowood* (II). R 3·63 in. in little more than an hour.—*Cookham Vic.* (II). T and L commenced about 6 p.m. and heavy R at 7 p.m. At 6 a.m. on the 13th the ground was quite dry, showing that the R must have ceased for some hours. The total was 3·36 in. On July 17th, 1890, 3·37 in. fell between 6 p.m. and midnight.—*Watford, St. Albans Road* (III). TS and violent H.—*Chipperfield* (III). Heavy TS.—*Wooburn, The Chestnuts* (III). In about 6 hours from 6 p.m. 4·10 in. of R fell.—*Amersham, The Plantation* (III). Heavy TS.—*Amersham, Rumseys* (III). TS and 2·40 in. of R in 12 hours; less than a mile off more than four inches fell, but four miles away there was none.—*Great Barrington* (VI). TSS.

12th and 13th.—*Sheppey, Leysdown* (II). T.—*Cirencester, Further Barton* (VI). L and T.

13th.—*Maidstone, Ulcombe Place* (II). TS from 7.30 to 10.30 a.m.—*Guestling Rectory* (II). Severe TS from 6 a.m. to 7.30 a.m., L so frequent that for a time the T was incessant. R 1·40 in. Houses and trees were struck, and two stacks set on fire.—*Calstone Rectory* (V). In an hour 1·12 in. of R fell.—*North Cadbury* (V). TS.—*Eskdale* (X) and *Rydal, The Stepping Stones* (X). Absolute drought for 20 days ended.—*Brampton, Denton House* (X). Absolute drought for 19 days ended.—At *Chatham, Kent*, a grocer's shop was fired by L.

14th.—*Southport, Hesketh Park* (VIII.) TS.—*Blair-Atholl* (XVI). T.

18th.—*Harewood Lodge* (IX). Shade max. 86°·9, the highest in 23 years. Temp. at midnight 71°·5.—The heat was so severe that the L. & N.W.R. Co. closed the chain-workers' department at the *Crewe* works.

18th—20th.—*Invershin* (XIX). T.

19th.—*Newcastle, The Quarries* (X). Severe TS.—*Angerton Hall* (X). In 30 mins. 1·00 in. of R fell.

20th.—*Bolton, The Park* (VIII). Severe TS during the afternoon.—*Wakefield, Walton* (IX). Absolute drought for 18 days terminated.

* See also *Met. Mag.*, August, 1901, p. 118.

—*Wetwang* (IX). Absolute drought for 15 days ended.—*Glenlee* (XII). T and L.—*Murwelton House* (XII). Heavy TS.—*Inveraray, Newtown* (XV). T.

20th and 21st.—*Cirencester, Further Barton* (VI). L.—*Whithorn, Cutroach* (XII). TSS.—*Colmonell* (XIV). T and L each day.—*Stronvar* (XVI). T.—*Blair-Atholl* (XVI). T.

21st.—*West Kensington* (I), *Highmore Vicarage* (III) and *Leamington, The Parade* (VI). Absolute drought for 19 days ended.—*Chelford, Astle* (VIII). TSS almost all day; directly overhead at 3 p.m.—*Rochdale, Fieldhead* (VIII). In 10 mins. .10 in. of R fell.—*Broughton-in-Furness* (VIII). Heavy TS from 4 to 6 p.m. doing considerable damage.—*Seathwaite Vicarage* (VIII). TS lasting about an hour.—*Harewood Lodge* (IX). Rather severe TS from 4 to 6 p.m.—*Knaresborough, Farnham* (IX). T and L.—*Rosthwaite* (X). T.—*Brampton, Denton House* (X). T and L.—*Dowlais, Gwerllwyn* (XI). Absolute drought for 19 days ended.—*Forres, H.R.S.* (XVII). TS.—At *Kirkheaton*, near Huddersfield, an excursion party was struck by L, two men were killed and others injured.

22nd.—*Betchworth, The Holmes* (II), *Bournemouth, Kempsey* (II) and *Hereford, Burghill Court* (VI). Absolute drought for 20 days ended.—*Haywards Heath, Braydell Lodge* (II). TS.—*Redruth, Trewirgie* (V). Partial drought for 30 days, with .28 in. of R, ended.—*East Keal Manor* (VII). Absolute drought for 21 days ended.—*Horncastle, Hemingby* (VII). TS in evening.—*Whitby, Royal Crescent* (IX). Two heavy TSS, each with drenching rain. Total fall 2.47 in.—*Lligwy* (XI). Partial drought for 30 days, with .27 in. of R, ended.

23rd.—*Aldermaston Wharf* (II) and *Clare, Hawkedon* (IV). Absolute drought for 21 days ended.—*Talarvor* (XI). T and L.

23rd—25th.—*Eccleston Rectory* (VIII). In three days 3.53 in. of R fell, .54 in. falling in 60 mins. on 24th.

24th.—*Betchworth, The Holmes* (II). TS.—*Orford, Mag. Coll.* (III). Very heavy R with T from 2.30 to 4.30 p.m.—*Swerford* (III). Heavy TS.—*Bishop's Cannings* (V). T.—*Ashburton, Druid* (V). T at 1 p.m.—*Clifton, Pembroke Road* (VI). TS from 9 to 10 a.m.—*Pawston* (X). R 2.21 in., the heaviest fall since September 14th, 1880, when 2.57 in. fell. Between 4 and 7.30 p.m. 1.50 in. fell.—*Llanfrechfa Grange* (XI). T and L from 9.30 a.m. to noon.—*Abergavenny, Dyne House* (XI). Heavy TS and .87 in. of R between 10.45 and 11.30 a.m.—*Llandefaelog-fach* (XI). TS and heavy R.—*Abergwesyn* (XI). TS.—*Douglas, Woodville* (XI). Succession of slight TSS.—*Lilliesleaf, Riddell*

(XII). T with 2·25 in. of R, which is unprecedented. In less than an hour 1·60 in. is believed to have fallen.

24th and 25th.—*Oxford, St. Giles* (III). R 1·65 in. and 1·55 in. respectively with TSS. R began before 6 a.m. on 23rd, and by 1 p.m. on 25th two inches had fallen, the heaviest falls taking place between 3.30 p.m. and 4.30 p.m. on 24th and between 10.20 a.m. and 11.15 a.m. on 25th. Between 10.20 a.m. and 1 p.m. 1·20 in. fell. On both days basements were flooded all about the town.—*Bishop's Castle, Castle Street* (VI). In six hours 1·50 in. of R fell on 24th, and 1·50 in. in 24 hours on 25th.—*Wombwell* (IX). In 30 hours 1·70 in. of R fell.—*Welshpool, Pool Quay Vic.* (XI). R in two days 3·08 in.

24th—27th.—*Crouch End, Aubrey Road* (I). R 3·78 in. in four days.—*Upper Midhope* (IX). R in four days 3·40 in.

25th.*—*Westminster, Chester Square, S.W.* (I). Very heavy R with TS from noon to 3 p.m.—*West Kensington* (I). Heavy TS.—*London, City Road* (I). TS with ·65 in. of R.—*Finchley, Etchingham Park* (I). Much L and T between noon and 3.30 p.m.—*Abinger Hall* (II). T all round.—*Farnham, The Bourne Vicarage* (II). Terrific TS with 3·32 in. of R between 1 and 3.10 p.m.—*Farnham, Dippen Hall* (II). TS with heavy R from 1 to 3 p.m.—*Farnham, Short Heath Lodge* (II). Between 1 and 3 p.m. 3·23 in. of R fell.—*Newlands Corner* (II). Heavy H storm.—*Horsell, Lindisaye* (II). TS.—*Maidstone, Ulcombe Place* (II). T and L at 4 p.m.—*Hayward's Heath, Braydell Lodge* (II). TS.—*Emsworth, Redlands* (II). TSS recurring all day.—*Datchworth Rectory* (III). Between noon and 3.30 p.m. 1·68 in. of R fell.—*Oxford, Mag. Coll.* (III). Between 10.30 a.m. and 10.50 a.m. ·85 in. of R fell.—*Shenfield Rectory* (IV). TS.—*Ross, The Graig* (VI). Violent TS at 2 a.m. Palmerston House, not 30 yards away, was struck; the crash was terrific. Some sheep were also killed near here.—*King's Heath, Cambridge Road* (VI). In 20 mins. ·30 in. of R fell.—*Eccleston* (VIII). Between 9 a.m. and 8 p.m. 1·58 in. of R fell.—*Chelford, Astle* (VIII). TS with heavy R at 10 p.m.—*Heaton Mersey* (VIII). R 2·97 in.; of which the great bulk fell between 2 and 6 p.m.—*Manchester, Ladybarn* (VIII). The greatest fall ever measured here, 2·49 in. All the afternoon the R came down in torrents.—*Rochdale, Fieldhead* (VIII). In ten hours 1·09 in. of R fell.—*Upper Midhope* (IX). Very heavy TS.—*Hemsworth Hall* (IX). In seven hours 2·03 in. of R fell.—The R flooded the underground railway between *King's Cross* and *Paddington*, and 10,000,000 gallons had to be pumped out, occupying 40 hours,

* See also *Met. Mag.*, August, 1901, p. 109.

before traffic could be resumed. At *Parton*, near *Berwick*, heavy H accompanied the TS; 250 panes of glass were broken in the mansion and 650 more in the greenhouses.

25th and 26th.—*Croydon, Ashburton Road* (II). TSS.—*Colchester, Lexden* (IV). T.

25th—27th.—*West Dean* (II). TSS.—*Broxbourne* (III). TSS.

25th—28th.—*Blandford, Whatcombe* (V). TSS daily.

25th—29th.—*Bedale, Newton House* (IX). R 3·23 in., the heaviest fall in 24 hours being 1·95 in.

26th.—*London, City Road* (I). Between 9 and 10 a.m. ·40 in. of R fell.—*Oxford, St. Giles* (III). TS.—*Banbury, Bloxham Grove* (III). TS and 2·14 in. of R.—*Wisbech, Elm* (III). Heavy TS with 1·52 in. of R, almost all between 1 and 2 p.m.—*Conholt Park* (V). At 1 p.m., between *Everley* and *Winterslow*, a low dark cloud was observed from which a conical cloud was descending, and which shortly formed a thin dark pillar reaching to the horizon. It remained visible three or four minutes when a heavy shower obscured every distant object from view. It was assumed to be a well defined waterspout.—*Marlborough, Mildenhall* (V). From 2.10 to 2.30 p.m. ·70 in. of R fell.—*North Cadbury* (V). Heavy TS passed by from 4 to 6 p.m.—*Harescombe Grange* (VI). In less than half an hour ·45 in. of R fell.—*Bishop's Castle, Castle Street* (VI). Violent TS.—*Harewood Lodge* (IX). TS at 4 p.m.—*Llanfrechfa Grange* (XI). T and L from 3 to 4 p.m.—One of two men sheltering under a clump of fir trees at *Salisbury* was struck by L and killed.

26th and 27th.—*Llandefaelog-fach* (XI). T and L.

26th—28th.—*Cirencester, Further Barton* (VI). T.

27th.—*Bagshot, Hull Grove* (II). From 10 to 10.30 a.m. ·60 in. of R fell.—*Kingston, Union Street* (II). In 40 mins. ·43 in. of R fell.—*Bournemouth, Kempsey* (II). Severe TS from N.N.W. with 1·81 in. of R from 11.20 a.m. to 1.10 p.m.; heaviest from 11.25 to 11.50 a.m. Three houses, a chapel and a coach-house were struck by L. The lower pleasure gardens, portions of *Holdenhurst* and *Wellington Roads*, and basements of houses were flooded and considerable damage was done.—*Bishop's Waltham, Northbrook House* (II). In 20 mins. ·42 in. of R fell.—*Plymstock, Thorncot, Hooe* (V). TS and 1·39 in. of R.—*Ashburton, Druid* (V). Heavy T and R.—*King's Heath, Cambridge Road* (VI). In 5 mins. ·17 in. of R fell.—*East Layton* (IX). Heavy TS.—*Middlesbrough, Ormesby* (IX). TS and 2·50 in. of R.—*Talarvor* (XI). T and L.—*Balquhiddier, Stronvar* (XVI). T.

27th and 28th.—*Haslemere, Hazelhurst* (II). N.W. gale.—*Tavistock, Whitchurch* (V). TSS.

28th.—*Clayton Rectory* (II). Between 10.30 and about 11.30 a.m. 1.37 in. of R fell, with very large H.—*North Cadbury* (V). Heavy TS passed by from 4 to 5 p.m.—*Dursley, Farnley* (VI). In about an hour 1.50 in. of R fell in a TS.—*Chelford, Astle* (VIII). T and R.—*Heighington, Walworth Castle* (X). R 2.52 in. in a TS; the heaviest remembered.

28th and 29th.—*Haywards Heath, Braylell Lodge* (II).—TSS.

29th.—*Maidstone, Ulcombe Park* (II). T and L.—*Ticehurst, Whiligh* (II). Local TS during which .45 in. of R fell in 15 minutes, while two miles off at Cousley Wood 3.25 in. fell in an hour.—*Wadhurst, Lower Cousley Wood* (II). TS with R from 0.10 to 1.30 p.m. Nearly the whole of the 3.25 in. registered fell in 55 mins. This heavy fall was almost confined to the ridge on which Cousley Wood is situated.—*Pyrton Manor* (III). In 53 mins., between 4 and 5 p.m., 2.10 in. of R fell; half a mile on either side the fall did not exceed .50 in.

30th.—*Broadchalke* (V). In 1 hr. 30 mins. 1.31 in. of R fell.

AUGUST.

9th.—*Oakley Quarries* (XI). T; R 2.53 in.

9th—11th.—*Tavistock, Whitchurch* (V). TSS.—*Seathwaite Vicarage* (VIII). TSS.

10th.—*Plumtree, Normanton-on-Wolds* (VII). During a violent TS .25 in. of R fell in 11 minutes. Two haystacks were fired by L within half-a-mile of this place.—*Hodsock Priory* (VII). TS with large H, breaking much glass and doing considerable damage to gardens and crops.—*Broughton-in-Furness* (VIII). Heavy TS from 6.30 a.m. to 3 p.m.—*Wetwang* (IX). Great H storm, 1000 panes of glass broken in the village.—*Thixendale* (IX). Heavy H storm doing much damage to crops.—*Keswick, Shu-le-crow* (X). Severe TS and 1.81 in. of R.—*Armathwaite Hall* (X). Severe TS and 1.97 in. of R.—*Brampton, Denton House* (X). TS, much T, L, and R; 1.31 in. fell in one and a half hours, the greater part in the first 30 minutes.—*Patterdale, Greenside Mine* (X). Between 10.30 a.m. and 0.30 p.m. 1.45 in. of R fell.—*Hawick, Branzholme* (XII). Terrific H storm at Hawick, three miles distant, the stones varying from the size of a pea to that of a pigeon's egg. Great damage to glass and many wild birds killed.—*Lilliesleaf, Riddell* (XII). Excessively heavy TS with 2.79 in. of R,

and extra large H measuring five inches in circumference ; all the R fell in about two hours. The H stones stopped the drainage pipes, which overflowed to a degree never seen here before. Whole fields of corn were utterly destroyed—the ears being taken off the straw. Pieces were cut out of apples by the H. Whole rows of glasshouses were destroyed. In one field ten seagulls, ten rooks and many small birds were found dead. The Ale water rose to the height of a winter flood.—*Melrose Asylum* (XII). R 2·72 in., the greatest fall in 20 years, the next greatest being 2·12 in. in August, 1894.—*Galashiels, Abbotsford Road* (XIII). TS and 3·98 in. of R : 9 a.m. to 10 a.m. 1·14 in., 10 a.m. to noon 1·77 in., noon to 3 p.m. ·98 in., and from 3 to 4 p.m. ·09 in.—*Drummore* (XIII). Severe TS.—*North Berwick Reservoir* (XIII). In less than two hours about three inches of R fell.—*Colmonell* (XIV). T and L.—*Carnbee, Ovenstone W.W.* (XVI). TS.—*Stronvar* (XVI). T at 1.15 p.m.—*Forfar, Lilyfield* (XVI). TS yielding in two and a half hours 1·34 in. of R.—*Monymusk, The Manse* (XVII). TS at midday with ·87 in. of R.—*Crathes, Pinewood* (XVII). TS ; ·75 in. of R fell in 1 hour 5 mins. A larch tree was struck by L and split from top to bottom.—*Forres, H.R.S.* (XVII). TS.—*Watten, H.R.S.* (XIX). TS.—*Banbridge, Milltown* (XXIII). Great TS at 10 p.m., when about 1·50 in. of R fell in 1 hour 30 mins.

10th—12th.—*Findern, The Longlands* (VII). TSS each day.—*Southport, Hesketh Park* (VIII). T daily, TSS on 10th and 11th.

11th.—*Clifton, Pembroke Road* (VI). TS from 11 a.m. to noon.—*Cirencester, Further Barton* (VI). T and downpour of R.—*Tenbury, Rochford* (VI). T and L.—*King's Heath, Cambridge Road* (VI). In five mins. ·18 in. of R fell.—*Douglas, Woodville* (XI). TS at 0.30 p.m.—*West Linton, Rutherford House* (XIII). TS and 1·26 in. of R.

12th.—*Chipping Norton, Kingham* (III). In a quarter of an hour ·30 in. of R fell.—*Blisworth, Grafton House* (III). Between 2.15 and 3.15 p.m. ·80 in. of R fell.—*Wisbech, Elm* (III). T and L.—*Stronvar* (XVI). T and L at 2·45 p.m.

14th.—*West Dean* (II). Heavy R with T and L.—*Winterbourne Herringstone* (V). In about ten hours 2·90 in. of R fell with very little wind or T.—*Dorchester, Wollaston House* (V). 2·40 in. of R fell without T.

15th.—*Margate, Grosvenor Place* (II). T.—*Sudbury, Friars Street* (IV). TS.—*Tenbury, Rochford* (VI). In 15 minutes ·19 in. of R fell.

17th.—*Lilliesleaf, Riddell* (XII). TS.

25th.—*Cheltenham, Southam Villa* (VI). TS.—*Campden, Hidcote*

(VI). TS.—*Douglas, Woodville* (XI). Severe N.W. gale; incoming steamers from Liverpool were three hours late.

25th and 26th.—*Knarborough, Farnham* (IX). TSS.

26th.—*Margate, Grosvenor Place* (II). T.—*Tavistock, Whitchurch* (V). N.W. gale and T.—*Church Stretton* (VI). S and H for a few minutes at 9 a.m.—*Wem, The Rectory* (VI). Great storm of wind and R, with T and L at intervals, and very cold though the preceding day was close and sultry.—*West Bromwich* (VI). In five hours 1.21 in. of R fell.—*Findern, The Longlands* (VII). TSS. A house in Willington was struck by L and much damage done.—*Seathwaite Vicarage* (VIII). TS.—*Harewood Lodge* (IX). TS from 6.30 to 7.15 p.m.—*Baldersby* (IX). T and L at 2 p.m.—*East Layton* (IX). Heavy TS.—*Sunderland, The Cedars* (X). From 1.15 to 1.30 p.m. half an inch of R fell.—*Lilliesleaf, Riddell* (XII). TS.

26th and 27th.—*Southport, Hesketh Park* (VIII). Strong gales.

27th.—*Hastings, St. Helen's Crescent* (II). R 1.15 in., of which an inch fell from 9.15 to 11.30 p.m.

29th.—*Lilliesleaf, Riddell* (XII). TS.

SEPTEMBER.

10th.—*Sturminster Marshall, Bailie Ho.* (V). From 3.30 to 4.30 p.m. .20 in. of R fell.

11th.—*Ross, The Graig* (VI). From 2.5 to 2.10 p.m. .20 in. of R fell.

14th.—*Sturminster Marshall, Bailie Ho.* (V). Sky very lurid and dark in S.W. making it almost impossible to read indoors. Heavy R began at noon, and at 0.15 p.m. there was a flash of L. Half-an-hour's R measured .31 in.

16th.—*Sturminster Marshall, Bailie Ho.* (V). R began at 2 p.m., and by 6 p.m. .46 in. had fallen.—*St. Germans, Trethill* (V). Strong gale from S.

16th and 17th.—*Caterham Valley, Bradenhurst* (II). Between 6 p.m. on 16th and 9 a.m. on 17th 1.15 in. of R fell.

19th.—*Kilkenny, Sion Villa* (XXI). S.W. gale.

20th.—*Haslemere, Hazelhurst* (II). S.W. gale.—*Rochdale, Fieldhead* (VIII). In nine mins. .12 in. of R fell.

21st.—*Slough, Upton* (III). A passionate shower burst overhead at 10 a.m., and in about 15 mins. produced .28 in. of R. The fall was

very rapid at times, causing the water to shoot over roof gutters ; $\cdot 01$ in. fell on several occasions in eight seconds.

21st—23rd.—*Templeudigan, Ballindoney* (XXI). Heavy R daily causing great floods.

23rd.*—*Whitehaven, Irish Street* (X.) In about 30 mins. $\cdot 66$ in. of R fell.—*Brampton, Denton House* (X). T, L, R.—*Douglas, Woodcille* (XI). TS at 3 p.m. with $\cdot 36$ in. of R and H in 30 mins.

26th.—*Fettercairn, The Burn* (XVII). R $\cdot 72$ in., almost the whole of which fell in a quarter of an hour in a terrific TS at 7.20 a.m.

30th.—*Christchurch, Winkton Lodge* (II). T.—*Sturminster Marshall, Bailie Ho.* (V). T, L and heavy R.—*Great Barrington* (VI). TS.—*Rochdale, Fieldhead* (VIII). In five mins. $\cdot 08$ in. of R fell.

OCTOBER.

1st.—*Ashburton, Druid* (V). T and L.—*Taristock, Whitchurch* (V). Heavy TS moving from S.W. to N.E. from 3.15 to 3.59 p.m.—*St. Germans, Trethill* (V). TS.—*North Cadbury* (V). Short TSS at 2.30 a.m. and from 6 to 8 p.m.—*Clifton, Pembroke Road* (VI). TS at 7 p.m.—*Cirencester, Further Barton* (VI). Sharp T, L and R at 3 a.m. Railway station struck.—*Cheltenham, Southam Villa* (VI). TS at 5 a.m., L at 7 p.m.—*Campden, Hidcote* (VI). TS.—*Ross, The Graig* (VI). Smart TS at 8 p.m.—*Tenbury, Rochford* (VI). T and L from 8 to 9 p.m.—*King's Heath, Cambridge Road* (VI). In five mins. $\cdot 14$ in. of R fell.—*Southport, Hesketh Park* (VIII). L.—*Seathwaite Vicarage* (VIII). T and L.—*Thixendale* (IX). Dense fog.—*Lower Penarth* (XI). TS at 6 p.m.—*Dowlais, Gwernllwyn* (XI). TS.—*Llandefaelog-fach* (XI). TS and very brilliant L.—*Abergwesyn* (XI). T and L.

2nd.—*West Dean* (II). Heavy TS.—*Cambridge, Benet Place* (III). In 30 mins. an inch of R fell.—*Brampton, Denton House* (X). T and L.

3rd.—*Brigg* (VII). In less than an hour $1\cdot 86$ in. of R fell ; the gauge being near the centre of a very small area of heavy fall. At the Great Central Railway Station, about half a mile S.E., only $\cdot 75$ in. was measured, and at places two or three miles distant only slight showers fell.

6th.—*West Kensington* (I). S.W. gale with heavy squalls.—*Haywards Heath, Braydell Lodge* (II). L.—*Slough, Upton* (III). L in evening.—*Little Saxham* (IV). T and L in afternoon.—*Cirencester, Further Barton* (VI). Severe W. to N.W. gale ; L at 6 p.m.—*Chelford*,

* See also *Met. Mag.*, October, 1901, p. 149.

Astle (VIII). N.W. gale with T and L.—*Southport, Hesketh Park* (VIII). Strong N.W. gale and H.—*Dowlais, Gwerllwyn* (XI). Very stormy ; L.—*Abergwesyn* (XI). H.—*Blair-Atholl* (XVI). First S of the season on Ben Vrackie.

6th and 7th.—*Haslemere, Hazelhurst* (II). Gale from W.

8th.—*Cirencester, Further Barton* (VI). Strong S.W. to N.W. gale.

9th.—*Southport, Hesketh Park* (VIII). Strong N.W. gale.

16th.—*Colmonell* (XIV). L.

17th.—*Rochdale, Fieldhead* (VIII). In 15 mins. .17 in. of R fell.—*Miltown Malbay* (XX). L.

17th and 18th.—*Haslemere, Hazelhurst* (II). Gale from W.

19th.—*Southport, Hesketh Park* (VIII). Slight TS.

20th and 21st.—*Whithorn, Cutroach* (XII). TSS.

21st.—*Lewes, Saxonbury* (II). TS with heavy R.—*Tavistock, Whitchurch* (V). L in evening.—*Beltingham Vicarage* (X). TS.—*Brampton, Denton House* (X). T, L, R.—*Glenlee* (XII). T and L.

21st and 22nd.—*Colmonell* (XIV). L each day.

22nd.—*Southport, Hesketh Park* (VIII). Slight TS.

26th—29th.—*Oban, Bragleenbeg* (XV). In four days 4.76 in. of R fell.

30th and 31st.—*Haslemere, Hazelhurst* (II). N.E. gale.

31st.—*Chelford, Astle* (VIII). Gale from E. at night.

NOVEMBER.

2nd—6th.—*Thixendale* (IX). Foggy.

3rd.—*Chelford, Astle* (VIII). Fog.

3rd—5th.—*Southport, Hesketh Park* (VIII). Fog daily.

3rd—6th.—*Wem, The Rectory* (VI). Unbroken fog.

4th.—A correspondent in *The Times* writes : “ I walked from the city to Camden Town between 2 and 3 o'clock this morning I was walking along Camden Park Road when I saw before me one of the most remarkable phenomena of its kind that I have ever observed—a dense wall or bank of fog in Camden Road (which I was approaching and had to cross) just about 6 ft. high. Above it and in Torriano Avenue on the other side of it, there was no trace even of haze. On entering the fog I found that it was so thick that I could not see the ground at my feet. Standing on tip-toe I found that my eyes were above the fog level, and so far as I could see this dense bank of fog extended up and down the Camden Road. It

might perhaps be more accurately compared to a river of fog, for it was flowing rapidly out towards Holloway, although there was scarcely a breath of air stirring.

4th and 5th.—*Cranleigh Common* (II). Fog all day.—*Little Sutham* (IV). Very thick fog.—*Wetwang* (IX). Great fog.—*Builth, Tyny-berllan* (XI). Dense fogs, the worst for many years, and severe cold.

4th—6th.—*Knaresborough, Farnham* (IX). Black fog.

5th.—*Horsley, Woodcote Lodge* (II). A dense black fog of London smoke settled on this place and covered everything with soot. The distance from London is 20 miles. Nothing of the kind has been observed before in the memory of man.—*Sywell Hall* (III). Dense fog.

5th and 6th.—*Chelford, Astle* (VIII). Fog each day.

5th—7th.—*Christchurch, Winkton Lodge* (II). Heavy fog daily.

6th.—*Bournemouth, Kempsey* (II). Thick wet fog all day.

10th and 11th.—*Lligwy* (XI). Between 7 p.m. on 10th and 9 a.m. on 11th 2·33 in. of R fell.—*Miltown Malbay* (XX). The greatest R of the half century, measuring 4·75 in.—*Lahinch, Moy House* (XX). On 11th 2·88 in. of R fell in 24 hours, after ·87 in. on 10th, making 3·75 in. in 42 hours and causing great floods.

10th—12th.—*Nenagh, Castle Lough* (XX). R 3·29 in., which exceeds the record of any other three consecutive days in 27 years.—*Miltown Malbay* (XX). R began late on the 10th, continuing until about 8 p.m. on 12th, the total being 4·74 in., 3·54 in. of which fell on 11th. Great floods resulted, carrying off sheep, cattle, horses and farming produce, bursting bridges and culverts, and causing a bog-slide in the neighbourhood.—*Woodpark [Scariff]* (XXII). Light R commenced at 4 p.m. on 10th, almost ceased from 9.30 to 11 a.m. on 11th when the wind began to rise and finally ceased at about 8.30 p.m. on 12th, giving a total of 4·47 in. in about 52 hours. Gale from N.E.

11th.—*Emsworth, Redlands* (II). Absolute drought for 18 days ended.—*Llanefydd, Plas Uchaf Res.* (XI). R 2·14 in., the largest fall recorded on this area since the gauges were fixed in 1893.—*Whithorn, Cutroach* (XII). Severe blizzard from N.E.—*Cork, Wellesley Terrace* (XX). Disastrous gale from S.W. and N.W.—*Ennistymon House* (XX). The biggest flood in the memory of man, causing the Ballyfandean bog-burst and other great damage.—*Kilkenny, Sion Villa* (XXI). Heavy R causing floods in the streets in the lower parts of the city similar to those on January 1st, 1901.

11th and 12th.—*Ormskirk, Aughton Springs* (VIII). Almost continuous R from 9 p.m. on 11th to 9 p.m. on 12th, during which time 2·80 in. fell; 1·54 in. between 9 p.m. on 11th and 9 a.m. on 12th.—*Rochdale, Fieldhead* (VIII). From 8.45 p.m. on 11th to 0.25 p.m. on 12th 2·86 in. of R fell; from 5.45 a.m. to 0.25 p.m. on 12th 2·04 in. fell.—*Meltham, Harewood Lodge* (IX). In 16 hours from 8.30 p.m. on 11th 3·06 in. of R fell; by far the greatest on record. Very big floods.—*Huddersfield Cemetery* (IX). R 3·34 in., with one exception the greatest fall in two days in 25 years.—*Huddersfield, Dalton* (IX). Between 4.30 p.m. on 11th and 3 p.m. on 12th, 2·77 in. of R fell steadily and persistently with E. wind.—*Rishworth, Ringstone Res.* (IX). In 18 hours 4·08 in. of R fell.—*Todmorden, Fielden Hospital* (IX). Heavy R resulting in one of the worst floods ever known; many parts of the town were covered to a depth of several feet.—*Bolton Abbey* (IX). Between 9 p.m. on 11th and 4 p.m. on 12th 2·20 in. of R fell.—*Knaresborough, Farnham* (IX). In 19 hours 2·72 in. of R fell.—*Middlesbrough, Ormesby* (IX). R commenced at 10.45 p.m. on 11th and continued for 36 hours with gale from S.E. changing to N.E. Total fall for 36 hours 2·62 in.—*Goldsborough Hall* (IX). Commencing about 9 p.m. on 11th 1·08 in. of R had fallen by 9 a.m. on 12th, and by 4.30 p.m. another 1·89 in., making a total of 2·97 in. in 19½ hours.—*Templeudigan, Ballindoney* (XXI). Severe gale from E. with heavy R.—*Tullamore* (XXI). In 24 hours 2·75 in. of R fell, and the country was flooded to an extent unknown for many years.—*Monasterevin, Moore Abbey* (XXI). From 3 p.m. on 11th to 10 a.m. on 12th 2·79 in. of R fell.—*Balbriggan, Ardgillan* (XXI). R on 11th 2·74 in., the greatest fall measured here in one day. On 11th and 12th 4·32 in. fell in about 30 hours, but not continuously.—*Lurgan, Belle Vue* (XXIII). The greatest continuous R remembered. R began at about 6 p.m. on 11th and ceased at about 8 p.m. on 12th, 2·54 in. falling in 26 hours. Great gale on 12th from E. and N.E.—*Banbridge, Katesbridge* (XXIII). R 2·05 in. and 2·06 in. causing great floods.—*Antrim, Ardnaveigh* (XXIII). Between 9 p.m. on 11th and 9 p.m. on 12th three inches of R fell, with a severe N.N.E. gale, which did much damage.

11th—13th.—*Stanley Grange* (IX). Very heavy R and disastrous floods, 2·38 in. of R in 24 hours.—*Melmerby* (IX). Violent N.E. gale lasting over 48 hours, with 3·48 in. of R.—*Ryton-on-Tyne* (X). Continuous R, 3·56 in.

12th.—*West Kensington* (I). S.E. to S.W. gale all day.—*Clifton*,

Pembroke Road (VI). Gale from S.E.—*Chelford, Astle* (VIII). Gale from N.W.—*Chatburn, Middlewood* (VIII). Between 1 a.m. and 3 p.m. 3·11 in. of R fell.—*Seathwaite Vicarage* (VIII). Furious N.E. gale that did extensive damage, and 3·28 in. of R.—*Bilberry Reservoir* (IX). In 12 hours 3·50 in. of R fell.—*Gilling, Grimstone Manor* (IX). R 2·75 in., the largest fall remembered, doing damage to ponds and roads.—*Beverley, East Riding Asylum* (IX). R 2·28 in., the heaviest since July 30th, 1891.—*Darlington, Cleveland Parade* (X). Great storm, in which 1·15 in. of R fell in five hours.—*Sunderland, West Hendon House* (X). R 2·50 in., the heaviest daily fall, with two exceptions, in 42 years.—*Newton Hall* (X). Great gale from E.N.E., with 3·17 in. of R on 11th and 12th.—*Brampton, Denton House* (X). Great E. gale, with R, sleet and S. Many sheep overblown on the hills.—*Lower Penarth* (XI). In 15 mins. 11 in. of R fell.—*Penarth* (XI). In 20 mins. 18 in. of R fell.—*Colmonell* (XIV). H, S and sleet.—*Kilkenny, Sion Villa* (XXI). Very heavy gale, the lower part of the city flooded.

12th and 13th.—*Wombwell* (IX). In a little under 30 hours more than two inches of R fell.

13th.—*Cirencester, Further Barton* (VI). Severe S. to S.W. gale all day and night.—*Chelford, Astle* (VIII). Gale from N.—*Southport, Hesketh Park* (VIII). Strong N.N.E. gale.—*Eastgate Vicarage* (X). Great gale from N.E., giving 3·86 in. of R.—*Dowlais, Gwernllwyn* (XI). First S of the winter.

14th.—*Douglas, Woodville* (XI). L and heavy S.—A man was found dead by the roadside between *Beddgelert* and *Portmadoc*, having perished in the snowstorm.

14th and 15th.—*Haywards Heath, Braydell Lodge* (II). L and T.

14th—16th.—*Sudbury, Friars Street* (IV). L.

15th.—*Lligwy* (XI). S.

16th.—*Tiverton, St. Peter Street* (V). River Exe frozen over slightly.—*Chelford, Astle* (VIII). Fog all day.—*Southport, Hesketh Park* (VIII). Silver thaw. Temp. below 32° all day. Fog.

18th—20th.—*Burr Manse* (XIV). R 3·59 in., more than an inch falling on each day.—*Killybegs* (XXIII). R 1·94 in., 2·41 in. and 1·16 in., a total of 5·51 in. in three days.

22nd.—*Redhill, Oxford Road* (II). Great darkness for about half an hour at 1 p.m. Chicken went to roost.—*Penarth* (XI). In 20 mins. 13 in. of R fell.

26th.—*Sudbury, Friars Street* (IV). Splendid lunar rainbow about 7 p.m.

27th.—*Rochester, Hoo St. Mary* (II). Very distinct and perfect fog-bow at 8.30 a.m.; colourless like a lunar rainbow, but a very small arc.

DECEMBER.

4th.—*Ryde, Beldornie Tower* (II). Partial drought for 41 days, with 40 in. of R, ended.

6th—13th.—*Upper Midhope* (IX). R in eight days 4.80 in., of which 2.21 in. fell on 7th.

7th and 8th.—*Rochdale, Fieldhead* (VIII). From 9 p.m. on 7th to 8 a.m. on 8th 1.48 in. of R fell.—*Meltham, Harewood Lodge* (IX). In 12 hours from 9 p.m. on 7th 1.90 in. of R fell. Sharp TS from 9.20 to 9.30 p.m. on 8th.

7th—12th.—*Keswick, Portinscale* (X). L often seen.

8th.—*Haslemere, Hazelhurst* (II). Strong S.W. gale.—*Bournemouth, Kempsey* (II). Warm night, min. shade temp. 51°·5.—*Chelford, Astle* (VIII). L in evening.—*Colmonell* (XIV). T, L, S and H.—*Monaghan, Rowantree House* (XXIII). T, L and S.

8th and 9th.—*Southport, Hesketh Park* (VIII). Strong gales and H. L on 8th.

8th—10th.—*Sudbury, Friars Street* (IV). L daily.—*Knaresborough, Farnham* (IX). T and L; S and H on 9th.

8th—14th.—*Enniscoe* (XXII). H daily.

8th—31st.—*Pawston* (X). The severest S in December for some years.

9th.—*Burgh Castle* (IV). L.—*Meltham, Harewood Lodge* (IX). TS from 10.10 to 10.25 a.m. First S of the winter.—*Thixendale* (IX). L in evening.

9th and 10th.—*Seathwaite Vicarage* (VIII). TSS and S.—*Wakefield, Stanley Grange* (IX). TSS with S.

9th—14th.—*Chelford, Astle* (VIII). Succession of gales from N.W. with sleet and S, and occasional L.

9th—18th.—*Dowlais, Gwernllwyn* (XI). S daily, three inches falling on 11th and 6¼ inches on 12th.

10th.—*Swerford* (III). One and a half inches of S.—*Broughton-in-Furness* (VIII). Very wild, with S, H, T and L.

11th.—*Southport, Hesketh Park* (VIII). T and H.—*Llandoverly* (XI). S.—*Coolkelure* (XX). Blizzard with eight inches of S.—*Cork, Wellesley Terrace* (XX). Heavy fall of S.—A tramp perished in the S near *Rushup Edge* in the Peak district.

12th.—*Tenterden* (II). The wettest day for seven years, with 1·33 in. of R.—*Swerford* (III). Three inches of S fell in forenoon; thaw with R and fog set in later.—*Blisworth, Grafton House* (III). S, sleet and R all day.—*Great Glemham* (IV). R 1·81 in., the largest fall in 24 hours in ten years.—*Burton, Hoar Cross* (VI). S.—*Hawford Lodge* (VI). S.—*Leadenham Rectory* (VII). Sleet and S yielding 2·16 in.—*Spilsby, Boston Road* (VII). R 2·65 in., the heaviest recorded.—*East Keal Manor* (VII). R 3·55 in., the greatest ever measured by the observer.—*Workshop, Hodsock Priory* (VII). Heavy fall of wet S.—*Breadsall Priory* (VII). Gale and S, yielding 1·77 in.—*Belper, Highfield* (VII). R and S, measuring 1·70 in., fell from 10 a.m. to 3.30 p.m.—*Wentworth Woodhouse* (IX). S yielding 1·77 in.—*Llandefaelog-fach* (XI). Heavy S.—*Meifod, Tan-y-fron* (XI). S yielding 1·29 in.

12th and 13th.—*Bishop's Castle, Castle Street* (VI). S fell from 6 a.m. on 12th to 4 p.m. on 13th. The wet S solidified a great deal, but the average depth was 14 inches. Roads completely blocked. Total yield 2·73 in. in 34 hours.—*Church Stretton* (VI). One of the heaviest S storms ever known; nine inches fell between 7 a.m. and 2 p.m. on 12th. The yield from 9 a.m. to 6.30 p.m. was 1·04 in., from 9 a.m. on 12th to 9 a.m. on 13th 2·00 in., and from then till 2.30 p.m. ·52 in., making 2·52 in. in 29 hrs. 30 mins. Generally 18 inches deep on 13th.—*Horncastle, Hemingby* (VII). Practically continuous R (3·68 in.) producing floods along the valley of the Bain. The fall on 12th, 2·93 in., is the greatest since observations began in 1881.—*Waltham Rectory* (VII). R 2·29 in. from noon on 12th to 10 a.m. on 13th.—*Meltham, Harewood Lodge* (IX). Rather severe N.E. gale, with much wet S followed by R.

13th.—*Brampton, Denton House* (X). Gale with showers of sleet and S.—*Crathes, Pinewood* (XVII). H at 5 p.m., T and L at 7.45 p.m.

13th—15th.—*Templeudigan, Ballindoney* (XXI). S daily.

14th.—*Rendlesham Hall* (IV). S storm.—*Colmonell* (XIV). Half an inch of S.—Two brothers who left the train at *Llangunllo, Radnorshire*, to walk to their home on the *Beguildy Beacons* perished in the S.

14th and 15th.—*Brampton, Denton House* (X). S each day.

15th.—*Lligwy* (XI). S.—*Kilkenny, Sion Villa* (XXI). S and fog.

15th—27th.—*Kilkenny, Sion Villa* (XXI). Thick fogs.

16th—31st.—*Alvie Manse* (XVIII). Eighteen inches of S fell.

17th.—*Drummore [Musselburgh]* (XIII). S three and three quarter inches deep.

18th.—*Scot's Gap, Rothley Crag* (X). Six inches of S.—*Morpeth, Cockle Park* (X). S about 1 ft. deep.

- 18th and 19th.—*Enniscoe* (XXII). H.
- 19th.—*Wombwell* (IX). TS with sleet and high wind.—*Lligwy* (XI). S.
- 20th.—*Swaffham* (IV). S.
- 21st.—*Southport, Hesketh Park* (VIII). Fog.—*Kilkenny, Sion Villa* (XXI) Thick fog.
- 21st—24th.—*Lyndhurst, Fritham House* (II). Skating daily.
- 22nd—24th.—*Dunkeld, Inverbraan* (XVI). S.
- 23rd.—*Bournemouth, Kempsey* (II). Min. temp. in screen 20°·9 and skating in the morning. Temp. rose 15° in two hours in the forenoon.—*Chelford, Astle* (VIII). Gale from S. with S melting as it fell.—*Borrowdale, Grange* (X). S.—*Stronvar* (XVI). S six inches deep.—*Forfar, Lilyfield* (XVI). Sleet for seven hours yielded ·72 in.
- 23rd—26th.—*Dowlais, Gwernllwyn* (XI). S daily.
- 24th.—*Highmore Vicarage* (III). Deep fall of S.—*Blair-Atholl* (XVI). Depth of S thirteen and a half inches.—*Enniscoe* (XXII). H.
- 25th.—*Southport, Hesketh Park* (VIII). T and H. — *Abergwesyn Vicarage* (XI). H and distant T.
- 27th.—*Kilkenny, Sion Villa* (XXI). Fog all day.
- 28th.—*Broadwindsor* (V). R 2·18 in., the heaviest yet recorded. Houses flooded and roads torn up. — *Burton-on-Stather* (VII). R 1·65 in., the largest fall since observations began in 1888.
- 28th and 29th.—*North Cadbury* (V). From 7 a.m. on 28th to about 1 a.m. on 29th 1·58 in. of R fell, of which 1·26 in. fell after 4 p.m. on 28th.
- 30th.*—*Bishop's Castle, Castle Street* (VI). Thaw and floods.—*Tenbury, Rochford* (VI). Distant T and L at night.
- 31st.—*Tenbury, Rochford* (VI). The Teme, after being very low, suddenly rose and overflowed its bank as a result of the melting of S on the hills.

* See also *Met. Mag.*, January, 1902, p. 199.

OBSERVERS' NOTES ON THE MONTHS.

JANUARY.

I. *West Kensington*. Exceedingly dry. R 1·12 in. below the average, and only one slightly drier January in 18 years.—*Muswell Hill*. R 1·50 in., or 70 per cent. below the average of 29 years, being the smallest fall in January since 1880. Rather more than half the total fell as S from 5th to 9th.—*Finchley, Etchingham Park*. R 1·34 in., or 66 per cent., below the average of 15 years. S on 6th, 7th and 8th.

II. *Haslemere, Hazelhurst*. R or S on 11 days. Frost in shade on 15, and on grass on 21, nights. There was skating on 7th and 8th, but heavy snow on 8th spoiled the ice and a rapid thaw followed on 9th.—*Abinger Hall*. Severe weather at the end of the first week, with deep S on 8th and temp. nearly down to zero, followed by a steady thaw. Mild and open generally with a few frosts.—*Redhill, Oxford Road*. R 1·29 in. below the average of 34 years; mean temp. 0°·4 above the average of 21 years.—*Wallington*. Warm, dry and sunny. The ground, however, was very damp, so that field work was restricted. R 1·03 below, and mean temp. 0°·4 above, the average. Duration of sunshine 50·1 hours, or 7·9 hours above average and 19 per cent. of the possible amount.—*Sheppey, Leysdown*. Exceedingly fine and dry. The gale on 27th was particularly severe.—*Lewes, Saxonbury*. Mild, misty and foggy as a whole. Sharp frost from 5th to 9th and at end. The Winterbourne stream began to flow on 1st, but feebly.—*Crowborough*. Somewhat stormy with very little S. Frost on nine days.—*Christchurch, Winkton Lodge*. Very damp, although the R was small; and the roads were always moist. Frost on 12 mornings.—*West Dean*. Very unsettled, with intense cold from 3rd to 9th, and from 27th to 31st. Four inches of S fell on 7th and 8th. The cold on the night of the 8th was phenomenal, the min. temp. falling to 3°·0, everything indoors being frozen and much damage done to plants, notwithstanding the S fall.

III. *St. Albans, Museum*. Dry and rather mild. R only about

half the average.—*Culham*. Rather changeable, with some sharp frosts.—*Pitsford, Sedgebrook*. R .69 in. below the average of ten years.—*Wisbech, Elm*. A featureless month except for the small R. A good deal of frost, but not severe. Very still during the first 12 days with fog on 3rd and 5th, but gales and high winds from 25th to 28th.

IV. *Lexden*. Fairly bright with frosty nights till 15th, then mild with two gales till 28th. Two inches of S on 7th and 8th.—*Rendlesham Hall*. Very dry and cold with S storms on 8th and 29th.—*E. Ruston Grange*. Stormy with S on three days. Three TSS in the last week.

V. *Bishop's Cannings*. R .60 in. below, and rainy days four above, the average. Springs were still low.—*Okehampton, Oaklands*. Mild, with less than average R.—*Wellington, The Avenue*. Very stormy, the gales at times being very severe. Some really cold days at the beginning reduced the mean temp. to about the normal. R near the average, but on a large number of days.—*North Cadbury*. An ordinary month, with cold snaps from 3rd to 9th and from 29th to the end, but ice never bearing. No heavy R, but measurable falls for 17 consecutive days from 15th. Ground sodden and ponds rising throughout.

VI. *Clifton, Pembroke Road*. R 1.14 in. below the average of 45 years, but rainy days normal. Much fog in the first week, and a violent W. gale on 26th and 27th.—*Cirencester, Further Barton*. On the whole a continuation of the dull and gloomy weather of the previous three months. Cold from 5th to 8th. Rough weather from 19th to 28th, ending in a severe N.W. gale followed by cold weather from the N.—*Ross, The Graig*. Frost nightly from 2nd to 16th excepting 13th; warmer from 16th to 27th, but day and night temp. slightly below the average. R about half the average, but rainy days quite equal to it.—*Tenbury, Rochford*. Unsettled, damp and dull, some frost at the end.—*Coventry, Priory Row*. Mostly calm and quiet with frost at night, but not severe.

VII. *Worksop, Hodsock Priory*. An open month with little frost or S, and deficient R.

VIII. *Chelford, Astle*. Cold and stormy, with frost on 17 days, but never severe.—*Bolton, The Park*. Temp. very changeable, rising above the average on five occasions and falling below it on six, mean temp. 0°·6 above the average. From 3rd to 8th an anticyclone prevailed, causing easterly breezes and low temp. R .40 in. below the average. S on five days; H on 25th, slight T and L on 25th and 27th. Bright sunshine on 12 days, the total, 19.7 hours, being 5.8

hours below the average.—*Southport, Hesketh Park.* Somewhat dry but otherwise normal. R 1·13 in. below the average, almost all falling in the last fortnight. Mean temp. 0°·5 above the average. Frost in shade on eight days and on grass on 22 days. Total sunshine six hours below the average. Gales on ten days.—*Chatburn, Middlewood.* R ·03 in. below the average of 12 years.—*Broughton-in-Furness.* The first six days very mild, then slight falls of S on three days followed by mild weather till the last week, when there was a violent gale for three days with H and slight S. The last three days were beautifully fine. Prevailing wind E. in the first half, W. in the third week, and N. or N.W. in the fourth week.—*Duddon Valley, Seathwaite Vic.* Very mild, with moderate R and but little S.

XI. *Shirenewton Hall.* A bleak month with very heavy gales.—*Llanfrechfa Grange.* Mild, with very little frost.—*Llanvihangel Court.* Practically calm to the 17th; then W. and W.N.W. wind to the end, excepting four days of S.E. or S.W. wind.—*Llandefaellog-fach.* Cold and wet with high wind; a severe gale on 27th, followed by S and frost.—*Douglas, Woodville.* R below, and mean temp. somewhat above, the average, but it was decidedly damp and cold with an unusually long spell of easterly winds till 23rd, succeeded by violent N.W. gales. S or H on six days, gales on six days.

XII. *Lilliesleaf, Riddell.* Unusually warm, with much wind and two great storms. Very little S. Ploughing well forward.

XVI. *Coupar Angus.* R ·26 in. below the average, but wet days were numerous. The first three weeks were mild; colder weather at the close with S. Mean temp. normal.

XVIII. *Glenaladale.* A fine winter month.—*North Uist, Loch Maddy.* R considerably below the average. Winds variable.

XIX. *Bettyhill.* Dry, bright and cold as a rule, except during the last week, when it was very boisterous and snowy. Bright mild days occasionally.—*Watten, H.R.S.* The first part dry, fine and open, but the closing ten days a series of S, R and wind storms.

XX. *Cork, Wellesley Terrace.* R 1·17 in. above, mean temp. 4°·3 below, the average.—*Derry Castle.* The opening week was fine and seasonable, but from 9th to the close very stormy and wet. R 26 per cent. above, but rainy days exactly, the average.—*Miltown Malbay.* Cold, tempestuous and rainy, with a heavy sea continually.

XXI. *Kilkenny, Sion Villa.* Fine, bright and cold until 9th, the remainder wet or very damp. Very stormy weather set in on 25th, with gales on 26th and 27th, and frost from 19th to 31st.—*Ballybrack,*

Streamville. No S and little ice. Excessive damp and high N.W. winds made the month trying. R $\cdot 71$ in. over the average of 20 years.—*Rathmines, Leinster Road.* In many respects the month resembled January, 1899 and 1900, the R and mean temp. being almost identical. The middle was mild, and the last few days seasonable with a little S.

XXII. *Markree Observatory.* Dry at first, but wet later and S towards the end. Very high wind on several days. H and T in the last week.

XXIII. *Belfast, Springfield.* A distinctly beneficial month. S fell on 24th and remained to the end.

FEBRUARY.

I. *Finchley, Etchingam Park.* R $\cdot 18$ in., or 11 per cent., below the average of 15 years. Nine-tenths of the total fell on four days.

II. *Haslemere, Hazelhurst.* The coldest month of the year, mean temp. $33^{\circ} \cdot 2$. Frost in shade on 19 and on grass on 24 nights. S nine to ten inches deep on 5th, and in drifts till the end of the month. Skating from 13th to 16th.—*Cranleigh Common.* Dull; frosty for the first three weeks, mild for the last week.—*Abinger Hall.* Cold and wintry with deep S on 4th, which remained till R came on the 26th. All ground work at a standstill.—*Redhill, Oxford Road.* R $\cdot 40$ in. below the average of 34 years. Mean temp. $3^{\circ} \cdot 4$ below the average of 21 years.—*Wallington.* The coldest February since 1895. The swift alternations of temp. made it most unhealthy, and the wet, damp weather was prejudicial to both farmers and market-gardeners. Mean temp. $2^{\circ} \cdot 8$ below the average. R $\cdot 03$ in. above the average. Duration of sunshine $40 \cdot 7$ hours, being $21 \cdot 4$ hours below the average and 15 per cent. of the possible amount.—*Birchington.* Wintry, with frost on 18 days and a good deal of S.—*Farningham, Mount Pleasant.* Continuous, though not very severe, cold till the 22nd, only three nights being without frost, and the max. rising above 40° on only four days. The latter part mild and wet. R much below the average.—*Sheppey, Leysdown.* Although S or R fell on 16 days the falls were slight, and on the whole the month was dry and fine. Frost on 22 days.—*Bournemouth, Kempsey.* Remarkably cold.—*West Dean.* Very cold, dull and cheerless, with temp. much below the average and S lying nearly all the month. At the close there was a week of normal temp. The coldest February since 1895, and the most sunless for ten years.

III. *St. Albans, County Museum.* Very cold.—*Culham Vic.* Dry

and cold till the end.—*Pyrtton Manor*. Generally cold and damp.—*Swerford*. S on 12 days, fog on six; six sunless days.—*Pitsford, Sedgebrook*. Constant S, R and slush. An uncomfortable month. R .75 in. below average.—*Wisbech, Elm*. Very damp with no great quantity of R. High bar. till the last four days and a marked absence of wind. Warm sun on 25th and 28th, otherwise cold without any intensity.

IV. *Colchester, Lexden*. Continuous moderate cold till 23rd, then mild till the close. Skating from 14th to 16th.—*Ipswich, Bishop's Hill*. Dry, with moderate frost nearly every night and many slight S storms. R .56 in. less than the average.—*Hillington Rectory*. S on 15 days, but very slight. Temp. for the week ending 16th 8° below the average.

V. *Bishop's Cannings*. R 1.03 in., and wet days one, below the average.—*Tavistock, Whitchurch*. Cold and dry, being the coldest month since February, 1895. The only night without frost on grass was 26th. Gales on three days. S on eight days.—*Okehampton*. Mild and dry.—*Wellington, The Avenue*. Generally fine, dry and cold, with little wind. R about half the normal.—*North Cadbury*. Cold, dry and remarkably calm. The air was extremely dry, and when the frost departed there was a clean thaw, the roads remaining quite clean.

VI. *Clifton, Pembroke Road*. Dry and cold with high bar., except for a few days at the beginning and end. R 1.40 in. below the average.—*Church Stretton*. S on 11 days. S or S drifts on Long Mynd all the month.—*Coventry, Priory Row*. For the most part dull, cloudy and sunless.

VII. *Market Overton*. Temp. generally low, rising above 40° only about eight times, but no severe frost.—*Horncastle, Bucknall*. Bar. very high and steady from 9th to 19th, but R or S fell almost daily. Mean temp. 4°·0 below the average.

VII. *Worksop, Hodsock Priory*. Rather cold with much northerly wind, and several slight falls of S which did not lie long, nor was there any lasting frost.

VIII. *Chelford, Astle*. Frost on 19 days; but from the 22nd to the end the weather was mild.—*Bolton, The Park*. About four inches of S fell on the 2nd and more or less each day to the 5th, when an anticyclone set in. On 23rd this system completely broke up with showers each day till 27th. Mean temp. 0°·3 below the average. Frost in shade on 17 nights and on grass on 22. R .28 in. below the average. S on eight days. Duration of sunshine 35.6 hours, or 25.5

less than the average.—*Southport, Hesketh Park.* A cold month. R .41 in., and mean temp. $2^{\circ} \cdot 2$, below the average; frost in shade on 13 days and on grass on 24; ice on the lakes on 18 days. Total sunshine seven hours below the average. S on three days, the total depth for the month being 2.0 inches.—*Chatburn, Middlewood.* R 1.73 in. below the average of 12 years.—*Broughton-in-Furness.* Scarcely any S, but more frosty nights and sunny days than usual.

IX. *Goldsborough Hall.* Very dull and cold with 24 frosts and very little sunshine. S on ten days. From 5th to 17th frosty and bright; from 17th to the end very dull and gloomy.—*Thixendale Vicarage.* Heavy S in the middle of the month.

X. *Sunderland, West Hendon House.* Only two days were entirely without precipitation. Two inches of snow lay on 1st, 2nd, 6th and 13th. There was a marked excess of N.W. wind, and the average cloud for the month was 8.1.

XI. *Chepstow, Shirenewton Hall.* Cold and dry, the R being 1.90 in. below the average, and none falling from 4th to 26th.—*Llanfrechfa Grange.* Fine on the whole with some fog, and harder frosts than in January.—*Llandefaelog-fach.* Cold on the whole with very cold N.E. and N.W. winds. Four falls of S.—*Douglas, Woodville.* Decidedly wintry with heavy falls of S. Frost, but much sunshine, from 1st to 18th; the remainder generally wet and mild. Immunity from gales and high winds.

XII. *Lilliesleaf, Riddell.* Most variable; frost at night and thaw in the day. Not much wind, mostly quite calm. Good for ploughing, but bad for hunting. R .42 in. below the average.

XVI. *Coupar Angus.* R fell sparingly till 24th, and the total is .76 in. short of the average. Frost on 24 nights.

XVIII. *Glenaladale.* A very fine winter month.—*Eigg, Kildonan.* No great storms; some wonderfully fine weather, just like summer for several days.—*Alvie Manse.* The precipitation was all in the form of S.

XIX. *Bettyhill.* Generally cold, wet and stormy, with a few fine, mild days.—*Watten, H.R.S.* The first half was a series of S storms, the latter half was wet.

XX. *Dunmanway, Coolkelure.* Very fine, less than .50 in. of R falling in the first 23 days. Occasional frost at night, but by day it was generally thawing. Wind mostly N. and E. Very favourable for agriculture.—*Cork, Wellesley Terrace.* R little more than one-third of the average. A little sleet in the early part. No extreme cold, though the mean temp. was 7° below the average. Frost on 18 days.

—*Derry Castle*. Dry and harsh with many nights of keen frost—the driest February since 1891. R 22 per cent. below, and rainy days 29 per cent. fewer than, the average.

XXI. *Kilkenny, Sion Villa*. Dull and cold with frequent frosts; gales on 26th and 27th.—*Ballybrack, Streamville*. R .82 in. below the average of 20 years.

XXII. *Markree Observatory*. Very dry on the whole, with 67·7 hours of bright sunshine.

XXIII. *Enniskillen*. Very cold, and the rain considerably below the average, but there were comparatively few fine days.—*Belfast, Springfield*. Very genial; the finest February since 1895, and R an inch less than the average. Frost was more severe than hitherto this winter, and a great assistance to the ground.

MARCH.

I. *Muswell Hill*. R .25 in., or 14 per cent., above the average of 29 years.—*Finchley, Etchingham Park*. R .22 in., or 12 per cent., above the average of 15 years.

II. *Redhill, Oxford Road*. R .88 in. above the average of 35 years. Mean temp. 2°·4 below the average.—*Wallington*. Only two Marches in 15 years have had a lower mean temp., whilst the absolute shade max. is the lowest on record. The highest mean relative humidity and amount of cloud of any March in the record. Only three Marches had a heavier R, and the duration of sunshine was the smallest except 1896. Everything backward. R .88 in. above the average. Mean temp. 2°·6 below the average. Duration of sunshine 63·2 hours, being 51·8 hours below the average and 17 per cent. of the possible amount.—*Maidstone, Ulcombe Place*. Mild at the beginning and end, but almost continuous strong winds from N. and N.E. from 7th to 26th.—*Birchington*. Very cold and wintry, with N. and N.E. winds. Very sharp frosts from 25th to 30th.—*Furningham, Mount Pleasant*. The first 8 days were wet with temp. above the average. Then followed three weeks of cold weather with wind varying from N.W. to N.E. The last two days were windy and wet. On the whole colder and wetter than usual.—*Lewes, Saxonbury*. Mild and showery with high winds in the first week. Cold N.E. winds for the last three weeks. S on 25th and 28th. Sharp frosts 25th to 29th. Gales on three occasions.—*Crowborough*. R, wind and high temp. to 9th; from

10th to 29th cold ; a blizzard on 20th, and S on 25th. The close of the month mild with strong winds.—*Emsworth, Redlands*. Rough and cold with no sun. Gales on four days.—*West Dean*. Very cold and inclement excepting the opening days, which were mild and rainy. On 21st a period of exceptional cold set in, S falling frequently for six days.

III. *Pyrton Manor*. Bitter N.E. winds and sharp frosts ; everything very backward.—*Swerford*. H on 11 days and S on nine. Fog on six days ; four sunless days. Distant T on 30th.—*Blisworth, Grafton House*. Very cold, with sharp frosts, bitter winds, heavy R and S showers.—*Pitsford, Sedgebrook*. Very rough, wet and unpleasant. R .40 in. above the average.

IV. *Sudbury, Friars Street*. Wet with S at times and cold winds.—*Ipswich, Bishop's Hill*. Cold, with frost almost every night. The last half a succession of small S storms and high winds. R .41 in. above the average.

V. *Bishop's Cannings*. Very cold, especially towards the end ; everything backward. Springs decidedly low for the time of year. R .53 in., and rainy days one, above the average.—*Tavistock, Whitchurch*. Cold, snowy, stormy and rather wet. Prevailing winds N.E. and N. Gales on nine days. S on 14, and H on 13 days. Slight TS on 2nd—*Okehampton, Oaklands*. Wet, and in the latter part unusually cold with a heavy fall of S and some frost.—*Barnstaple Athenæum*. A backward season. Mean temp. 2°·0 lower than the average of 20 years. Only 41 species of wild flowers were observed in bloom against an average of 51.

VI. *Clifton, Pembroke Road*. The first week was very wild and stormy, followed by three weeks mostly dry and cold, with E. winds. The last few days were stormy. R .63 in. above the average.—*Cirencester, Further Barton*. A typical March of the worst kind. The first week very rough and wet with S.W. gales ; exceptionally cold from 7th to 30th. Gales on eight days.—*Campden, Hidcote*. Very changeable, with warm days and cold nights.—*Ross, The Graig*. The first week wet. S on 19th and heavy R on 29th, otherwise fine, but from 14th to 28th cold with bleak E. winds. From 1st to 13th temp. generally above the average. Severe frost from 25th to 29th. The close of the month warmer and showery with W. winds.—*Tenbury, Rochford*. Very unsettled. Much E. and N.E. wind, strong during the last half. Some sharp frosts. River Teme very full on 31st.

VII. *Market Overton*. Remarkably long duration of low temp.—

Worksop, Hodsock Priory. Cold, especially in the last week, with high winds and more than average R.

VIII. *Chelford, Astle.* With the exception of a cold spell from 17th to 29th, with frost on ten days, the weather was mild, and spring flowers were well advanced.—*Bolton, The Park.* The most striking feature was the persistence of N. and E. winds from 13th to 22nd, the air during the whole period being unusually dry. The first week was unsettled with R each day, but absolute drought occurred from the 10th to the 23rd. Total R .48 in. above the average. Frost in shade on ten nights. Mean temp. $1^{\circ}1$ below the average. Duration of sunshine 75.3 hours, or nearly four hours below the average. S on nine days. T on 26th.—*Southport, Hesketh Park.* R .47 in. above the average. Mean temp. $1^{\circ}4$ below the average; but the earlier half of the month was warm. Frost in shade on nine days and on grass on 26 days; and ice on the lake on two. S on four days, total depth 2.9 inches. Gales on seven days, strong on the 2nd and 5th. Total sunshine nine hours below average.—*Seathwaite Vicarage.* Mild till after the middle, followed by cold, wintry weather to the end, with the heaviest fall of S for some years on 29th.

IX. *Goldsborough Hall.* Very rough and stormy. From 1st to 8th unsettled; from 9th to 14th very fine and warm; from 14th to 18th dull. The 18th was very stormy and cold, with showers of S and sleet and a strong N.E. wind, and, excepting the 22nd and 23rd, it continued stormy to the end.

XI. *Chepstow, Shirenewton Hall.* Cold and boisterous, with nearly continuous N.E. wind and frequent showers of S and sleet. Vegetation very backward. R .06 in. below the average.—*Llanfrechfa Grange.* Very cold, with high cutting N. winds till 29th, when it became much warmer. Very favourable for agriculture.—*Llanvihangel Court.* Cold from 12th to 30th., with N.E. winds to 26th, then N.W. to 29th.—*Llandoverly.* Overcast and stormy generally. Very wet and mild at the beginning, but very severe after the 25th.—*Llandefaelog-fach.* Cold, wet and stormy, with S on six days.—*Douglas, Woodville.* S.W. gales and R during the first week; milder and almost spring-like in the second. The latter part veritable winter with polar winds, S and frost, and intense cold with, however, much sunshine. High winds on 12 days, gales on eight, S on six days, very heavy on 29th.

XII. *Maxwelton House.* Except on 19th, fine, bright, dry and cold from 7th to 28th. Hard frost at night from 18th to 29th.

XIV. *Maybole, Knockdon Farm.* Very dry hard weather, often with frosty mornings. S and sleet on 29th and 30th.

XV. *Islay, Eallabus.* Very cold with a light R.

XVI. *Coupar Angus.* The weather to the 25th was normal, but the last week was memorable for a cold snap culminating on 29th, when the temp. fell to 15°·0, the lowest recorded here in March since 1889. The S storm on the night of 29th was noteworthy.

XVIII. *Glenaladale.* The first half was fine and genial, the second half very cold and wintry.

XIX. *Bettyhill.* In the middle there was fully a fortnight of beautifully mild weather, during which out-door work was carried on. A severe S storm followed from 24th to 29th.

XX. *Coolkelure.* Nearly all the R fell in the first and last weeks. The intervening period being cold with N. and E. winds and night frosts.—*Cork, Wellesley Terrace.* The low mean temp. is unprecedented in 18 years. This was owing, not so much to the extreme cold, as to its long continuance. There were a few light S showers. R ·61 in. above the average.—*Derry Castle.* The opening week was wet and stormy. Generally dry, harsh and bitterly cold from 8th to 25th. Constant S, H, sleet and heavy R from 26th to the close. R 22 per cent. above, but rainy days six per cent. fewer than, the average.—*Miltown Malbay.* The coldest March since 1867. Good for tillage, except in the first and last weeks.

XXI. *Kilkenny, Sion Villa.* The first fortnight was stormy, the next ten days were fine but bitterly cold, and the latter part was cold with frost and S.—*Ballybrack, Streamville.* R ·71 in. under the average, which following a dry February was most favourable for farming operations. The last 11 days were the most severe of the winter.—*Rathmines, Leinster Road.* The fourth dry March in succession. It commenced with unsettled weather and average temp., followed by a few fine spring-like days, but from 14th it became progressively colder, the last week being the most severe ever experienced so late in the season.

XXII. *Markree Observatory.* The first week was rough and very wet, but from 8th to 24th only ·04 in. of R fell and some very fine days occurred. After this it turned much colder, and frost and S prevailed, a heavy fall occurring on 29th.

XXIII. *Enniskillen, Model School.* Variable and generally severe weather. The last week very wintry.—*Belfast, Springfield.* Very disappointing to agriculturists, as S came heavily on 25th and continued till the end. E. winds were very prevalent, but March dust hardly apparent.

APRIL.

I. *West Kensington*. R 30 per cent above the average, all falling in the first 16 days.—*Muswell Hill*. R .43 in., or 25 per cent., above the average of 29 years. The first half was very wet, R being recorded every day from 1st to 16th, excepting the 4th; the whole of the month's total falling in that time.

II. *Haslemere, Hazelhurst*. Frost in shade on four, and on grass on 11, nights. The latter half of the month was sunny, with a sudden change from warmth to frost, at the end. The cuckoo and chiff-chaff were heard on the 18th, and the nightingale on 22nd.—*Redhill, Oxford Road*. R .26 in. above the average of 34 years. Mean temp. $0^{\circ}4$ above the average of 21 years.—*Wallington*. The first half was wet and cold, and the latter half warm and dry. R .55 in. above the average. Mean temp. $0^{\circ}9$ above the average. Duration of sunshine 196.4 hours, being 36.5 hours above the average, and 47 per cent. of the possible amount.—*Farningham, Mount Pleasant*. The first half was wet, but from 17th to the end there was practically no R. A week of summer weather from 18th to 25th.—*Sheppey, Leysdown*. The first fortnight was windy and rainy, but the fall generally slight. The last two weeks were very fine and bright with E. wind in the last week. Very warm from 20th to 24th.—*Lewes, Saxonbury*. R, mist and fog, with high winds to 16th. Dry and bright after.—*Crowborough*. The first half was extremely wet and cold, R being measured on every day, but the 4th, from 1st to 16th. Except for a slight shower on 30th there was no R after. A wave of heat lasted from 18th to 25th, the identical dates of a similar period in April, 1900. The close was colder, with keen E. and N.E. winds till 29th.—*Christchurch, Winkton Lodge*. Cool and fine with only three cloudy days. Vegetation made up for the retardation caused by the cold March.

III. *St. Albans, County Museum*. Wet, with about twice the average R.—*Abingdon, Culham*. The first half cold and stormy, the latter very dry.—*Oxford, St. Giles*. Cold and wet to 16th; very fine and warm from 19th to 25th, and fine and cold from 26th to 29th.—*Swerford*. Fog on one day; one sunless day. T on two days, H on four and S on two.—*Pitsford, Sedgebrook*. Squally and cold, with constant R till 16th, then bright and warm to the end. R .87 in. above the average.—*Wisbech, Elm*. Miserable weather during the first half. Marvellously fine, bright and warm from 18th to 24th, then cold and dull to the end.

IV. *Colchester, Lexden.* Mild and bright till 16th, causing a remarkably sudden burst of vegetation. The latter half bright, almost rainless and very warm till 25th, when N.E. winds and grass frosts prevailed.—*Ipswich, Bishop's Hill.* The R fell chiefly before the 17th, until which date it was very unsettled with variable temp. Afterwards warm and fine to the end. R .35 in. above the average.

V. *Bishop's Cannings.* R .66 in., and rainy days two, above the average.—*Malmesbury, Charlton.* H and T on five days.—*Rousdon.* R fell on 14 consecutive days.—*Okehampton, Oaklands.* The first half was wet and cold. A very backward season.—*Romansleigh Rectory.* Wet till 16th and dry for the rest, with a change to much pleasanter weather.—*Wellington, The Avenue.* Exceedingly stormy and wet till about the 15th, when bright and fine weather set in, and continued almost throughout the remainder. From 20th to 25th almost summer heat prevailed. R about 1.25 in. above the average.—*North Cadbury.* Extremely boisterous, rainy and most inclement, for the first 16 days. Gales or high winds on ten days. Thereafter a change to brilliant dry weather, with no more R except two smart showers on 27th, and air mostly from an easterly quarter, but never strong. The 23rd and 24th were really hot, but the minima were low throughout.—*Harptree Court.* On 14 days, from 1st to 16th, 4.03 in. of R fell, and from 17th to 30th .07 in. only.

VI. *Clifton, Pembroke Road.* The first fortnight was very wet and stormy, then a sudden change to fine weather. Very warm from 20th to 25th, but the last few days much colder. R 1.18 in. above the average. — *Cirencester, Further Barton.* A remarkable month, having six days of midsummer in the midst of winter. The first 16 days were wild, wet and cold ; from 18th to 24th was very hot, dry and almost cloudless, the rest of the month was dry with a keen air and high winds. Strong winds were prevalent throughout, gales blowing on five days.—*Campden, Hidcote.* The greatest R in April for five years.—*Ross, The Graig.* Slightly above the average temp. by day and about average by night. The first half was wet and uncomfortable. From 17th to 26th was very warm and dry with a great range of temp.. R about 25 per cent. above the average.—*Tenbury, Rochford.* Very unsettled and cold in the first half. Dry, but much E. and N.E. wind and haze, in the latter part.—*Coventry, Priory Row.* Wet and cold up to 16th ; then fine and dry to 26th.

VII. *Workshop, Hodsock Priory.* Fine, with some very hot days in the fourth week, the max. temp. 76°·7, being the highest recorded in April for at least 25 years.

VIII. *Chelford, Astle*. The first half was wet and stormy with some T, the latter part warm and fine.—*Bolton, The Park*. Changeable till the 18th, with showers, and temp. below the average. On 19th the temp. rose and continued high for six days with brilliant sunshine. Mean temp. $0^{\circ} \cdot 7$ below the average. R $\cdot 83$ in. above the average. Duration of sunshine 148·2 hours, or 38 hours above the average. H on six days.—*Chatburn, Middlewood*. R $\cdot 14$ in. above the average of 12 years.—*Broughton-in-Furness*. Alternating showery and sunny days, with comparatively low temp., till 16th, then bright sunny days tempered by dry cold E. winds till 28th, after which genial weather.

IX. *Goldsborough Hall*. Very unsettled and cold from 1st to 19th, with R on 12 days. Very stormy on 8th and 9th. From 19th to 26th very fine and warm, and from 26th to the end unsettled and much colder.—*Baldersby*. Warm summer weather from 9th to 12th and on 24th; the remainder wintry with H and sleet.

X. *Sunderland, West Hendon House*. Wind force above the average. Solar halos visible on 12 days.

XI. *Chepstow, Shirenewton Hall*. A month of extremes of heat and cold, with much T. R 2·07 in. above the average.—*Llandefaellog-fach*. The first 16 days, with one exception, were more or less wet and cold and utterly unspringlike. From 17th to the end, with the exception of one day, no R was measured, though there were occasional showers. From 19th to 24th was lovely and springlike, followed by a recurrence of cold, ungenial weather.—*Douglas, Woodville*. The first half wet, cold and quite wintry, culminating on 15th. Afterwards brilliantly fine, with high day temp., despite the very cold N. winds. High winds on eight days.

XII. *Lilliesleaf, Riddell*. Very cold, with stormy rough weather and S, H and sleet. R more than an inch above the average.

XVI. *Dollar*. Cold, easterly winds most of the month.—*Coupar Angus*. The month opened cold, but after the 17th the temp. rose, and the mean for the month was 2° above the average. R $\cdot 88$ in. above the average.

XVIII. *Glenaladale*. Cold and inclement till 18th, with much S on the hills; subsequently very fine.

XIX. *Bettyhill*. There were only a few showers of R during the whole month.—*Watten H.R.S.* The first half was cold, wet, stormy and windy, and the latter dry, mild and fine.

XX. *Coolkelure*. Wet and very cold. Wind chiefly between N.E. and S.E. Very low temp., and vegetation backward. — *Cork*,

Wellesley Terrace. R 1·25 in. above the average. Mean temp. $2^{\circ}\cdot 8$ below the average.—*Miltown Malbay.* The first three weeks were harsh, cold and wet, the last week was sunny, dry and warm with a tinge of frost in the mornings. H on eight days.

XXI. *Kilkenny, Sion Villa.* Much wet and stormy weather until the 17th. H and S showers frequently. The latter half fine.—*Ballybrack, Streamville.* R ·29 in. less than the average. Vegetation backward. —*Rathmines, Leinster Road.* Fine and bright generally, there being no sunless day.

XXII. *Murrisk Abbey.* Abnormal R. From 23rd splendid weather for agricultural operations.—*Markree Observatory.* Variable; much R during the first week, and the last eight days very dry with bright sunshine. Duration of sunshine 178·8 hours. H on seven days.

MAY.

I. *West Kensington.* Exceedingly dry. R 1·44 in. below the average.—*Finchley, Etchingham Park.* The dry period of the last half of April extended for five days into May; ·94 in. of R fell from 6th to 9th, then followed absolute drought for 19 days. R ·89 in., or 46 per cent., less than the average of 15 years.

II. *Haslemere, Hazelhurst.* A fine sunny month, with R on only seven days and absolute drought for 15 days ending on 24th. Frost in shade on one night and on grass on three.—*Cranleigh Common.* The driest month of the year.—*Abinger Hall.* Very dry and hot throughout. Grass crops hardly worth cutting, and R greatly needed.—*Wallington.* Remarkable for the large amount of sunshine, and for the uniformity of the shade max. Owing to the want of R there was little grass. Mean temp. $0^{\circ}\cdot 6$ below the average. R ·80 in. below the average. Duration of sunshine 243·7 hours, being 43·1 hours above the average, and 50 per cent. of the possible amount.—*Sheppey, Leysdown.* With the exception of R from 6th to 10th, it was remarkably fine and dry. From 11th there were 19 consecutive days without R. E. wind from 11th to 30th and cool at night.—*Crowborough.* Exceedingly dry. From April 17th to May 5th there was no R; on 6th and three following days ·82 in. fell, followed by a further dry period till 28th. From 12th to 26th cold E. and N.E. winds prevailed. *Christchurch, Winkton Lodge.* The small R, almost all fell between the 7th and 10th, and there was drought for 18 days. Sunny, but cold with much E. wind.

III. *Slough, Upton.* Only a quarter of the usual R.—*Culham Vic.* Dry, with much sun and E. and N.E. winds.—*Oxford, St. Giles.* Cold and dry, but R about equal to the average owing to the heavy falls on 7th, 8th and 9th. Rainy days below the average.—*Blisworth, Grafton House.* Cold winds and very dry. No R from 10th to 28th.—*Wisbech, Elm.* Dry, with average temp., without any really hot weather. On only two days did the temp. exceed 70°.

IV. *Colchester, Lenden.* Almost continuously cool with easterly wind till 26th; then milder, and very sultry on 30th. Eighteen days' absolute drought ended on 28th. *Sudbury, Friars Street.* Fairly fine; warm towards the end. T on 6th and 29th.—*Ipswich, Bishop's Hill.* Temp. very variable; cold in the middle. R 1·07 in. less than the average; very little falling after the 8th.—*Rendlesham Hall.* Fresh and strong N.E. to E.S.E. winds. Hot sun, and cold nights.

V. *Tavistock, Whitchurch.* Warm, dry and very fine and sunny, with large range of temp.; the max. rose above 70° on three days. Winds variable. H on two days.—*Wellington, The Avenue.* Very fine and dry generally, with much sunshine and often cold nights. Frequent N.E. winds. R only about half the normal.—*North Cadbury.* A dry period beginning on April 17th was broken by R on May 6th to 9th. Then absolute drought prevailed from 10th to 28th, with clear skies and parching air. From noon on 13th to noon on 20th hardly a cloud was to be seen. Many touches of ground frost, but not enough to do damage.

VI. *Clifton, Pembroke Road.* Very fine and dry, except from 5th to 10th and for two days at the end. Absolute drought from 11th to 28th, with N.E. winds and high barometer. During this period there were 13 practically cloudless days in succession. R less than half the average.—*Cirencester, Further Barton.* Dry, and mostly sunny and windy; wind from E. till 28th. The cold spell of the second week in May was unusually well marked.—*Gloucester, Birdlip Hill.* Absolute drought for 19 days.—*Ross, The Graig.* Remarkable for the number of bright days with great radiation. Scarcely any R, except from 5th to 9th and on 29th and 30th, and the ground much parched by hot sun and keen wind. Great daily range of temp. Mean temp. 2°·0 above average.—*Tenbury, Rochford.* Bright and fine with cold nights.—*Coventry, Priory Row.* Very fine and dry, but vegetation suffered from want of R, the winds being cool and very drying.

VII. *Worksop, Hodsock Priory.* Dry and bright with a good deal of

north-easterly wind. R very deficient, drought prevailing for 15 days in the middle of the month.

VIII. *Chelford, Astle*. Dry and unusually warm.—*Bolton, The Park*. Brilliant and warm. Prevailing winds E., causing an excessive amount of evaporation. From 11th to 24th there was absolute drought, afterwards refreshing showers on five days. No frost to check growth. Mean temp. $2^{\circ}1$ above the normal. Duration of sunshine 208·8 hours, or 53 hours above the average. R 1·19 in. less than the average.—*Southport, Hesketh Park*. Dry, warm and sunny, with unusual prevalence of light westerly winds. R 1·12 in. below the average; mean temp. $2^{\circ}8$, and total sunshine 55 hours, above their respective averages. Absolute drought from 11th to 25th inclusive. Frost on grass on ten nights, the mean diurnal range of temperature being excessive. Mean amount of ozone and mean relative humidity lower than in any previous May, and mean amount of cloud smaller than in any month, since the record commenced in 1871.—*Chatburn, Middlewood*. R 1·60 in. below the average of 12 years.—*Seathwaite Vicarage*. Dry and warm with two TSS. Night temp. well maintained.

IX. *Upper Midhope*. A dry month. Very dry from 10th to 25th, windy on 14 days and foggy on seven. Many grass frosts.—*Goldsborough Hall*. Very dry. With the exception of 3rd and 4th the first nine days were cold and unsettled with light showers. From 9th to 24th no R fell, the weather being very fine and bright. After the 25th there was a light shower every day and, with the exception of the 26th, it was warm. T on four days.—*Thixendale Vicarage*. Dull, cold and backward. Drought prevailed from 10th to 24th.—*Middlesbrough, Ormesby*. Fine, dry and cool, with much E. wind.

X. *Sunderland, West Hendon House*. Absolute drought from 10th to 23rd.—*Brampton, Denton House*. Absolute drought from 12th to 26th, while from April 17th to May 26th, a period of 40 days, only ·69 in. of R fell.

XI. *Chepstow, Shirenewton Hall*. Much dry N.E. wind which hindered the growth of crops; R 1·18 in. below the average.—*Llanfrechfa Grange*. Very dry; but not the usual cutting E. winds.—*Llandovery*. Very dry.—*Llandefaelog-fach*. Lovely spring weather except in the second week. Absolute drought from 11th to 29th.—*Douglas, Woodville*. Extremely fine with excess of bright sunshine. Absolute drought from 11th to 25th inclusive. Remarkable for complete immunity from the usual May gales which blight the young foliage.

XII. *Lilliesleaf, Riddell*. R about the average. There were 14 days of extremely dry weather. Slight frosts were in no way destructive, everything being quite dry.

XVI. *Dollar*. Dry and fine in the early part.—*Coupar Angus*. The R was normal in quantity, but practically all fell at the end of the month. Temp. exceptionally high, 4° above the average, and only once exceeded in 20 years.

XVIII. *Glenaladale*. A beautiful month with a great deal of sunshine; very warm and parching. The country suffered from drought towards the end.—*Harris, Tarbert*. Abnormally dry.

XIX. *Watten, H.R.S.* Dry, mild and fine, notable for the small number of rainy days.

XX. *Coolkelure*. Very dry, having 17 successive days without R; bright sunshine and N.E. to S.E. wind during that time.—*Cork, Wellesley Terrace*. R .04 in. less than the average. Absolute drought for 17 days ended on 27th. Mean temp. equal to the average.—*Miltown Malbay*. Fine and warm till 3rd when, after some T without R, a week of severely cold and inclement weather set in. From 11th to 27th dry, parching weather prevailed with cloudless skies and occasional slight frost. The last five days were rainy.

XXI. *Kilkenny, Sion Villa*. A lovely month, with two rather wet spells from 4th to 10th and from 26th to 31st. Absolute drought from 11th to 25th.—*Ballybrack, Streamville*. R 1.14 in. less than the average, absolute drought for 15 days ending on 25th.—*Rathmines, Leinster Road*. Much brilliant sunshine and singularly uniform temp. Absolute drought for 17 days ended on 5th, and for 15 days, on 25th. From April 18th to May 25th R fell on only four days.

XXII. *Markree Observatory*. Very fine, with a fair share of bright sunshine. The latter part very wet and stormy, with frequent showers of H and distant T.

XXIII. *Belfast, Springfield*. Most beneficial to farmers. From 11th to 25th was the largest spell of dry days since June, 1899.

JUNE.

I. *Muswell Hill*. R 1.16 in., or 52 per cent., less than the average of 29 years. During the first 28 days R fell on only six, the bulk of the total falling on the last two days.—*Finchley, Etchingam Park*. R .84 in., or 45 per cent., less than the average of 15 years. R fell on nine days.

II. *Cranleigh Common*. Variable and rainy from 11th to 21st and on the last two days; otherwise fine dry and warm.—*Abinger Hall*. Very hot and dry till the end, when a severe TS passed over.—*Wallington*. Until the last two days very dry and sunny, but cold. Mean temp. $1^{\circ}\cdot4$ below the average. R $\cdot10$ in. below the average. Duration of sunshine 234·8 hours, being 28·8 hours above the average, and 47 per cent. of the possible amount.—*Lewes, Saxonbury*. Bright sunny days and dry as a whole. R, on 29th and 30th, welcome after the long drought. The Winterbourne ceased running on 26th.—*Crowborough*. A cold spell, with chilly winds, in the middle of the month was followed by very warm weather. R only 1·19 in., or 1·21 in. below the average of 30 years. The unequal distribution of R, and the long periods of drought after the middle of April, retarded the growth of crops.—*West Dean*. Dry and very cold, with temp. more than 3° below the average, and with great frequency of N. winds. The cold winds which began in April continued with hardly a break. Till the evening of the 29th nothing but slight showers fell, then a sharp TS occurred with moderate R.

III. *St. Albans, County Museum*. Dry and rather cold, with only about half the average R.—*Slough, Upton*. The drought commencing April 16th, which was momentarily interrupted on May 9th, lasted till June 29th, when it was broken up by a TS.—*Highmore Vicarage*. Drought hindered growth of plants and impeded garden operations.—*Culham Vic*. Very dry and parching till the last day.—*Pitsford, Sedgbrook*. Fine and pleasant. R $\cdot32$ in. above the average.—*Wisbech, Elm*. Very dry, but cool. Much bright sunshine at the beginning and end.

IV. *Colchester, Lexden*. Rather cool till about the 20th, then warmer. Wind often E.—*Blakeney*. Very little R fell during the first 12 days, and owing to dry E. and N. winds the drought was great.

V. *Okehampton, Oaklands*. The early part was dry and warm; towards the end there were very welcome rains.—*Wellington, The Avenue*. Generally cool, and windy at times. R deficient until the great TS of 29th and 30th, when nearly two inches fell, making the month's total about an inch above the average. Occasionally there were brilliantly clear days, and the 27th, 28th and 29th were warm.—*North Cadbury*. Partial drought for 33 days up to 12th, with $\cdot31$ in. of R. Protracted drought lasted from May 10th to June 28th, at the critical time of year. June was parchingly dry, warm at the beginning

and end, but with no excessive heat, and cool in the middle. High average wind velocity.

VI. *Clifton, Pembroke Road*. Fine and warm on the whole, but with several short rainy periods. R half an inch under the average.—*Cirencester, Further Barton*. Chilly and dry on the whole. The drought was checked by R from 19th to 24th, but really ended on 29th.—*Campden, Hidcote*. For the first three weeks the temp. was low, but the last week was warmer. T on three days.—*Ross, The Graig*. The drought which had continued from April 15th broke up on June 19th. The R of 30th was very welcome. Temp. about the average. Few really warm days, but much very fine weather.—*Coventry, Priory Row*. Very dry and beautiful, with much sunshine and drying winds. R greatly wanted until 30th, when a downpour relieved the drought.

VIII. *Chelford, Astle*. The first half was cold, wet and stormy; the latter half fine and hot.—*Southport, Hesketh Park*. Dry, fine and unusually clear. Total R .57 in., and mean temp. $0^{\circ}3$, below their respective averages. Total sunshine 22 hours above the average. Gales on six days.—*Chatburn, Middlewood*. R 1.29 in. below the average of 12 years.—*Seathwaite Vicarage*. Moderate R, with temp. mostly below the average.

IX. *Goldsborough Hall*. From 1st to 9th very dry and warm; from 9th to 25th very unsettled, and thence to the end very fine and warm.

X. *Brampton, Denton House*. Warm and dry, with little more than half the average quantity of R.

XI. *Chepstow, Shirenewton Hall*. A month of variations. R 1.01 in. above the average.—*Douglas, Woodville*. Cold and ungenial, with temp. below the average throughout. R above the average, though falling on only nine days. High winds on six days, and a stiff gale on 17th.

XII. *Lilliesleaf, Riddell*. Plenty of R but not too much, and many warm, growing days, though sprinkled with cold winds. The last week was lovely weather with no R and cool breeze. R just about the average.

XVI. *Dollar*. Dry generally, with cold E. winds.

XIX. *Bettyhill*. A great part was cold, wet and stormy; only towards the end was the weather summer-like.—*Watten, H.R.S.* The first week dry, dull and cold, followed by two weeks of storm and wet with cold winds. The closing week dry and fine though dull. Great absence of sunshine.

XX. *Cork, Wellesley Terrace*. The coldest June for at least 19

years, the temp. being $4^{\circ}4$ below the average. The extreme min. temp., $37^{\circ}0$, was the lowest in 18 Junes. R $1\cdot41$ in. less than the average.—*Miltown Malbay*. The coldest June since the early sixties. A wave of heat set in during the last four days.

XXI. *Ballybrack, Streamville*. Cold, with R $\cdot17$ in. above the average of 20 years. — *Rathmines, Leinster Road*. Most unseasonable. The coldest June since the record commenced. Overcast and gloomy with chilly winds, except for a few days at the beginning and end.

JULY.

I. *West Kensington*. Very hot, mean temp. $4^{\circ}5$ above average, being the third consecutive hot July. R below average, the great thunderstorm of 25th barely touching this station.—*Muswell Hill*. R $2\cdot43$ in., or 95 per cent., above the average of 29 years. Absolute drought for 19 days ended on 21st, while in the following eight days $4\cdot90$ in. of R fell, no less than $4\cdot07$ in. being recorded on 25th, 26th and 27th.—*Finchley, Etchingham Park*. R $1\cdot07$ in., or 42 per cent., above the average of 15 years. Absolute drought for 20 days ended on 22nd, followed by $3\cdot42$ in. of R in a week, of which $1\cdot30$ in. fell in the TS on 25th.

II. *Haslemere, Hazelhurst*. Wind easterly till 22nd, then W. or S.W. with steady R from 23rd to 27th, relieving the parched ground. — *Cranleigh Common*. The finest and warmest month of the year. Shade temp. above 80° . on seven days.—*Abinger Hall*. Hot and dry from 2nd to 22nd. Then showery weather, which was beneficial to growing crops.—*Caterham Valley, Bradenhurst*. Sun exceedingly hot for the most part. TSS about, but not over the valley, and no H or heavy R.—*Wallington*. Very warm and sultry, and until the last nine days extremely dry. Absolute drought for 20 days ending on 22nd. Mean temp. $2^{\circ}0$ above the average. R $1\cdot22$ in. below the average. Duration of sunshine $250\cdot4$ hours, being $40\cdot3$ hours above the average, and 51 per cent. of the possible amount.—*Sheppey, Leysdown*. Very fine and warm till 23rd, afterwards showery.—*Lewes, Saxonbury*. Hot and dry to 26th. Heavy T clouds and high temperature from 15th to 22nd. Max. temp. 80° or above, on 14 days.—*Christchurch, Winkton Lodge*.—Hot and dry, drought for 20 days being followed by one wet week. T was heard between 25th and 30th.—*Emsworth, Redlands*. Great heat and 20 days of absolute drought.—*West Dean*. Warm for

the most part, but with cold spells. Very dry till 23rd, when bad weather set in. The heavy T showers did much good to meadows, but did not influence the springs at all. The short spell of heat which set in on 15th lasted only six days.

III. *St. Albans, County Museum.* Very warm, temp. about 4° above the average for the month; the max. rose to, or above, 80° on 10 days. — *Culham Vic.* Very dry and hot till the last week, then heavy R. — *Watlington, Pyrton Manor.* Very warm throughout. TSS on 24th and 29th. — *Oxford, St. Giles.* Very hot, but mean temp. not so high as in July, 1900. The max. was above 90° on two days. R nearly two inches above the average, but rainy days only about two-thirds of the average. — *Blisworth, Grafton House.* Very hot; only $\cdot 03$ in. of R from 2nd to 22nd. Harvest commenced in the latter part. — *Pitsford, Sedgbrook.* R $1\cdot95$ in. below the average. — *Wisbech, Elm.* Fine and still with much sunshine, the solar radiation temp. reaching 150° on 15th and $149^{\circ}\cdot5$ on 19th. A very hot week from 15th to 21st, the temp. exceeding 82° every day from 16th to 21st; the nights were not oppressively hot.

IV. *Sudbury, Friars Street.* Fine and warm until 24th, then rather unsettled. High temp. at times. — *Rendlesham Hall.* Very hot; winds generally between N.E. and S.E. — *Blakeney.* With the exception of R on 1st, 24th and 25th, the fall was very slight and crops suffered greatly.

V. *Bishop's Cannings.* R $\cdot 14$ in. above, but rainy days six below, the average. — *Tavistock, Whitchurch.* Warm, dry, fine and sunny, with great variation of temp. R the least in any month since August, 1899, and less than half the average. Absolute drought for 18 days ending 20th. Winds variable. TSS on three days, fog on seven. — *Penzance, St. Clare.* The driest July since 1885. — *Wellington, The Avenue.* Generally brilliantly fine with temp. considerably above the normal, and some days excessively warm; the 19th (max. 88°) was the warmest day for at least ten years. R about the average, but all fell in a few days and mostly with T. From 3rd to 22nd no measurable R fell. — *North Cadbury.* The month opened cool and showery, and there was a most welcome spell of R and coolness from 24th to 28th, but the rest was brilliant summer. Warm nights and nine distinctly hot days, the 19th for long duration of high temp. ranking with any yet observed.

VI. *Cirencester, Further Barton.* Hot and close, with very variable winds and much damp. Two periods of heat followed by thundery

weather ; in each case the temp. fell considerably for some time before the storms.—*Cheltenham, Southam Villa*. The calmest month for at least 20 years, the mean daily velocity of wind being only 51·3 miles. The 9 a.m. temp, 79°·2, on 18th has only twice, and the max., 89°·3, on 19th has only once, been exceeded in 24 years.—*Ross, The Graig*. The R which was a full average fell on five days. The heat was great, reaching or exceeding 80° on eight days. The mean min., 56°·3, is the highest ever registered. Before the drenching storms of 24th to 27th grass was much burnt.—*Coventry, Priory Row*. Hot, with drying N.E. winds.

VII. *Worksop, Hodsock Priory*. Very warm, with a dry period in the middle and welcome rains in the fourth week.—*Breadsall Priory*. Very hot weather in the first half. Drought from 2nd to 22nd.

VIII. *Chelford, Astle*. Hot during the whole month, and sometimes intensely so. Many TSS.—*Bolton, The Park*. The heat wave was without parallel in the records, the max. on 20th being 86°·5, with a mean max. of 82°·5 from 18th to 21st. Mean temp. 4°·8 above the average. Duration of sunshine 165·8 hours, or 15 hours more than the average.—*Southport, Hesketh Park*. The hottest July since the record commenced in 1871. Total R 1·89 in. below the average, and mean temp. 4°·1 above the average, being 0°·9 above that for the previous hottest July (1900). Total sunshine 38 hours above the average, and relative humidity very low.—*Chatburn, Middlewood*. R 1·11 in. below the average of 12 years.—*Broughton-in-Furness*. Very hot and dry, more than half the R falling in two hours on 21st. Scarcely any T and L except on that date.—*Seathwaite Vicarage*. Exceptionally warm with bright sunshine, and R less than half the average of 12 years.

IX. *Upper Midhope*. Very dry from 2nd to 21st, and very hot from 17th to 21st. Heavy R from 24th to 27th.

X. *Sunderland, West Hendon House*. Land and sea breezes were observed on 15 days. T or L on eight days.—*Brampton, Denton House*. Very warm, and the driest July since observations began in 1885. Absolute drought for 19 days ended on 13th. The want of water was much felt.

XI. *Chepstow, Shirenewton Hall*. The weather was normal with much L. R 7·3 in. below the average.—*Llanvihangel Court*. From 3rd to 22nd was very dry and hot. — *Llandefaelog-fach*. Great heat. No R from 3rd to 11th, nor from 13th to 21st.—*Douglas, Woodville*. Extremely dry, fine and very warm, indeed all too dry ; and probably

the warmest July on record. Bright sunshine in excess of the average. Strong winds on five days. T on five days.

XII. *Maxwelton House*. Beautifully bright and warm.

XVI. *Dollar*. Dry and warm.

XIX. *Watten, H.R.S.* Dry, sometimes hot, and very fine.

XX. *Coolkelure*. Very fine, warm and dry. No TSS. Wind chiefly N.E. and E.—*Cork, Wellesley Terrace*. R only one-sixth of the average, and the smallest in July since 1868. Partial drought closed on 21st, 29 days having only .24 in. of R. Mean temp up to the average. Humidity much above the normal, consequently the warmer days were oppressive.—*Miltown Malbay*. Calm and sultry, but not oppressively so, the heat being tempered by occasional light R. No T and L.

XXI. *Ballybrack, Streamville*. R .48 in. below the average of 20 years. From 10th to 21st extremely warm, and the following five days very cold.—*Rathmines, Leinster Road*. Warm, with R somewhat below the average. Great heat in the third week, but a remarkable fall of temp. on 22nd.

XXII. *Markree Observatory*. Dry on the whole, but much overcast gloomy weather, and at times much colder than the average.

XXIII. *Enniskillen*. Very fine, with high temp. and R well below the average.—*Antrim, Ardnaveigh*. Fine and dry, the shade temp. exceeding 70° on 12 days. T on 9th and 17th.

AUGUST.

I. *Muswell Hill*. R .92 in., or 35 per cent., below the average. R fell chiefly in the middle and latter part, the beginning being dry.

II. *Haslemere, Hazelhurst*. A beautiful summer month with sunshine daily. Several gales from S.W., and one from N.W. on 27th and 28th.—*Redhill, Oxford Road*. R .32 in. below the average of 34 years.—*Sheppey, Leysdown*. The first three weeks were very fine, but it became unsettled on 25th and continued so to the end, nearly all the R falling during the last week.—*Lewes, Saxonbury*. Hot and dry for 14 days. Heavy R on 15th and 27th, with W. gale.—*Crowborough*. The small R and periods of drought experienced since the middle of April retarded vegetation and caused scarcity of water. August was fairly warm, but there was a somewhat sudden fall of temp. on 27th, gradually rising again till the close.—*West Dean*. Dry, with R much below the average; except the heavy fall on 14th, there was scarcely

any R beyond showers which did not relieve the parching drought. The nights were cold, and the winds dry, chiefly from N.

III. *Slough, Upton*. R half an inch under the normal.—*Abingdon, Culham*. Warm and fairly dry.—*Swerford*. One sunless day ; fog on four days. Distant T on three days.—*Wisbech, Elm*. Pleasant on the whole, with three hot days from 8th to 10th, and hot again from 21st to 25th. Otherwise cool, with low night temp.

IV. *Colchester, Lexden*. Cool, but dry. E. wind from 20th to 24th. Many stack fires from drought, and part of the heath burnt.

V. *Bishops Cannings*. R 1·24 in., and rainy days four, below the average.—*Tavistock, Whitchurch*. Rather cold and variable, with about average R. Fog on five days.—*Okehampton, Oaklands*. Dry and warm.—*Wellington, The Avenue*. Occasionally very fine and warm, with brilliant sunshine, at other times stormy and cool, but the R only about half the average.—*North Cadbury*. Fairly fine, with a brilliant spell from 18th to 25th, but otherwise cloudy, with much deficiency of ripening heat. Average amount of wind rather high, with a gale on 26th and much wind on 28th. The nights were mild ; and the ground so dry that it rapidly absorbed the heavy R on 14th and 27th.

VI. *Cirencester, Further Barton*. Fine and hot till the last six days which were rough and unsettled, with lower temp.—*Campden, Hidcote*. The first part was warm, but after the 10th the weather was very changeable.—*Ross, The Graig*. Frequent light showers, but R below the average ; want of R was generally felt till near the close. Very little T. Mean temp. above the average, but few really hot days.—*Tenbury, Rochford*. Very variable throughout, the end being very cold, especially at night.

VII. *Worksop, Hodsock Priory*. Fine and warm, with deficient R. During a TS on 10th much damage was done by H.

VIII. *Bolton, The Park*. Changeable for the first 17 days, with R on 13. Then a rainless week of good harvest weather, the duration of sunshine for the week being upwards of 69 hours. Mean temp. 0°·7 above the average. Duration of sunshine 171·5 hours, or 53·8 above the average, and exceeding that of any previous August by 27 hours. R 1·41 in. below the average.—*Southport, Hesketh Park*. Sunny and somewhat dry. R 1·00 in. deficient. Mean temp. only 0°·9 above the average, but total sunshine 50 hours above the average. Remarkably fine from 18th to 25th inclusive. Gales on six days, and TSS on two.—*Chatburn, Middlewood*. R 2·67 in. below the average of 12 years.—*Seathwaite Vicarage*. Warm and rainy, but no very heavy falls.

IX. *Goldsborough Hall*. Very dry, with R on 14 days. The first three days very fine and warm, then unsettled with showers till 8th; very hot till 10th when the temp. reached $86^{\circ}\cdot5$, with T but no R. From 10th to 17th unsettled; very fine from 17th to 24th and unsettled after. T on four days.

X. *Brampton, Denton House*. R again below the average intensifying the drought. Springs dried up which were never known to be dry before. The outcry for water became very great both for domestic purposes and for cattle.

XI. *Shirenewton Hall*. A month of changes, but on the whole warmer than August, 1900. R $\cdot46$ in. below the average.—*Llanvihangel Court*. Dry, with temp. below the average.—*Llandefaelog-fach*. The early part showery. Bright sunshine and heat from 16th to 24th. Gale and heavy R on 26th.—*Douglas, Woodville*. With $4\cdot12$ in. of R on 15 days, high winds on 11 days and gales on two, and with several gloomy days the record does not appear bright; but there was also much beautiful weather, and most of the R fell on eight days.

XII. *Maxwelton House*. Very fine, with heavy R on four days only. Total $\cdot06$ in. below the average. Mean temp. exactly the average.—*Lilliesleaf, Riddell*. R $1\cdot21$ in. above the average, falling mostly in TSS, notably that of 10th. In the memory of the oldest the harvest was never so early.

XVI. *Coupar Angus*. Mean temp. $2^{\circ}\cdot2$ above the average. On 11 days 70° or above was registered, and on no day was the max. below 60° , but the four days following the 25th were cold and stormy.

XIX. *Bettyhill*. Whilst R fell on 15 days, it was heavy only on 10th and 25th, and the weather was fine on the whole.

XX. *Cork, Wellesley Terrace*. R $1\cdot13$ in. less than the average, but humidity much above the average. Mean temp. $2^{\circ}\cdot0$ below the mean. The greatest daily range was 28° on 22nd.—*Miltown Malbay*. Rainy, with only one week of sunny harvest weather. Yet from evaporation, and the ground being dry, the land was not soaked.

XXI. *Kilkenny, Sion Villa*. Lovely weather to 25th, when it changed to cold and wet.—*Ballybrack, Streamville*. R $\cdot08$ in. under the average of 20 years.—*Rathmines, Leinster Road*. Average R and temp. High winds prevalent. Brilliant weather during the third week, but the last week cold and unseasonable. Entire absence of T and L.

XXII. *Murrisk Abbey*. The days were generally dry, and harvest operations successful.—*Markree Observatory*. Gloomy on the whole,

with R perhaps slightly above the average, but temp. and duration of sunshine below. One fine week from 18th to 24th, with no R and 70·3 hours of sunshine. Duration of sunshine 140·1 hours.

XXIII. *Enniskillen*. One fine week from 18th to 24th; the rest damp and unpleasant.—*Belfast, Springfield*. Extremely favourable for the hay-crop, which was scanty. R ·42 in. below the average.

SEPTEMBER.*

I. *Muswell Hill*. R ·59 in., or 25 per cent., below the average, on six days only. More than half the total fell on the 16th and 17th.

II. *Haslemere, Hazellhurst*. A beautiful prolongation of summer.—*Abinger Hall*. Fine and mostly bright. Very heavy R on 16th and following days. The streams were low, especially the Tillingbourne.—*Wallington*. About average temp. but short R. Dews were frequent, especially during the latter half. Mean temp. 0°·2 above average. R ·27 in. below average. Duration of sunshine 153·3 hours, being 6·9 hours below the average, and 40 per cent. of the possible amount. *Crowborough*. R 1·42 in. below the average of 27 years. On the whole fine and fairly warm, with the exception of a few days with cold and strong E. winds. Absence of R during the first week, and only a light shower after 21st.—*Christchurch, Winkton Lodge*. A somewhat rainy month, but the falls although frequent took place mainly at night, and the days were bright.

III. *Oxford, St. Giles*. Dry. The R was mostly in heavy falls, and there were few rainy days.—*Pitsford, Sedgebrook*. R ·97 in. below the average.

IV. *Colchester, Lexden*. Generally cool and bright. Easterly wind in the early part. Heavy dews during the last week.—*Burgh Castle*. Unusual drought. No grass.

V. *Bishop's Cannings*. R ·45 in., and rainy days two, below the average.—*Tavistock, Whitchurch*. Cloudy, damp and rather cold. Gales on four days. Fog on six days.—*North Cadbury*. Cloudy and showery, with slight variations of temp. The first half was cool, the latter warm. The nights were mild throughout, and the air for the most part was damp and at times extremely humid.

VI. *Clifton, Pembroke Road*. Very fine, with E. winds, till 6th. Then rather unsettled, with more or less R on most days, till 23rd. The last week fine and warm. R 1·37 in. below the average.—

* See also *Met. Mag.*, October, 1901, p. 148.

Cirencester, Further Barton. A fine autumn month, and the last week unusually warm. A great deal of moisture in the air, and R above the average.—*Church Stretton.* Uniformly warm, with no extremes of heat or cold. In the last 14 years there have been only two Septembers besides this with such uniform temp.—*Tenbury, Rochford.* Fine on the whole, with some cold nights about the 15th.—*Coventry, Priory Row.* Very beautiful, full of warmth and sunshine without excessive heat. R sufficient to keep grass and vegetables abundant.

VIII. *Southport, Hesketh Park.* Exceptionally dry and somewhat warm. R 2·64 in. below, and mean temp. 1°·5 above, the average. Total sunshine three hours below the average. Mean amount of ozone the smallest observed for September.—*Chatburn, Middlewood.* R 2·87 in. below the average of 12 years, and the smallest since 1894, when only ·46 in. fell.—*Broughton-in-Furness.* Beautiful and warm on the whole. Much drier than usual though there was no shortness of water. R about 2·25 in. less than the average of ten years.—*Seathwaite Vicarage.*—Moderate R, but uniformly high temp.

IX. *Middlesbrough, Ormesby.* Warm and dry, with little R.

X. *Brampton, Denton House.* Again very dry; the total deficiency from January 1st to September 30th being 10·43 in. The R for the last four months being less than half the average quantity produces an "Engineers' Drought."

XI. *Chepstow, Shirenewton Hall.* Humid, with low pressure and entire absence of frost. R ·61 in. below the average.—*Lower Penarth.* The first week was very cold with E. winds. The remainder, except the 16th, was warm.—*Llundefaelog-fach.* On the whole wet, R falling in small amounts on 21 days.—*Douglas, Woodville.* Although warm it was unusually stormy; high winds on 13 days and gales on seven, with copious R.

XII. *Maxwelton House.* Fine and warm. Mean temp. 1°·3 above the average.—*Lilliesleaf, Riddell.* Fine, with cold E. wind at the beginning; hot with gales from S.W. and W. and a great deal of drizzling R, later. Many TSS. R 1·04 in. below the average.

XV. *Ballachulish, Ardsheal.* R 1·10 in. below the average. Gales on 8th, 19th and 27th.

XVI. *Coupar Angus.* The month opened cloudy and dry, but there was much bright and warm weather. Mean temp. 2°·6 above, and R below, the average.

XVIII. *Drumnadrochit.* High temp. and a small R.

XIX. *Bettyhill.* Exceptionally fine and dry.

XX. *Coolkelure*. Very wet and mild. Wind mostly W. or S.W.—*Cork, Wellesley Terrace*. R 5·22 in. above, or three times, the average, and the greatest in September for 50 years. Mean temp. 2°·0 below average.

XXI. *Templeudigan, Ballindoney*. Many heavy falls of R. Between 21st and 23rd 3·22 in. fell, causing great floods.—*Kilkenny, Sion Villa*. A wet month with frequent storms, and a gale from S.W. on 19th.—*Ballybrack, Streamville*. R 2·13 in. above the average of 20 years.—*Rathmines, Leinster Road*. Cloudy, wet and windy, in striking contrast to many recent Septembers. There were only four bright days, and these were cool. Temp. very uniform, but coolest in the first week and warmest in the last. Except 1896 the wettest September since the record commenced.

XXIII. *Enniskillen*. Mild, but damp and cloudy.—*Belfast, Springfield*. The wettest September since 1898, and the constant R was most harmful to farmers.—*Antrim, Ardnaveigh*. Mild and wet, with frequent high winds and gales. The max. temp. exceeded 60° on 20 days, and the min. exceeded 50° on 20 days.

OCTOBER.

I. *Muswell Hill*. R ·79 in., or 26 per cent., below the average. R fell on 15 days, and was fairly evenly distributed over the month.

II. *Haslemere, Hazelhurst*. R ·65 in. below the average. Frost in shade on two nights, on grass on eight; but vegetation was only slightly touched. Ripe strawberries and raspberries were found out of doors on 12th.—*Abinger Hall*. Mild and open throughout. The month's R brings the total to 19·98 in., leaving a deficiency of 10·20 in.—*Wallington*. Very wet in the early part and dry in the latter. The frost on 27th was the most severe in October since 1895. Many trees were blown down on 9th. Mean temp. 0°·8 above the average. R ·15 in. above the average. Duration of sunshine 108·9 hours, being 8·5 hours above the average, and 33 per cent. of the possible amount.—*Sheppey, Leysdown*. The first week was rainy with gales, the second fine and sunny, the third rainy with wind, and the fourth fine with night fogs. Very strong and steady E. wind during the last two days.—*Crowborough*. R fairly evenly distributed. Bright warm days were very frequent, and on 19 days there was bright sun almost all day. No frost.—*Christchurch, Winkton Lodge*. Stormy with many squalls. Foliage although changed in colour remained on the trees

to the end.—*West Dean*. The first week warm, the second cold, the third average, and the fourth very cold. R below the average. From 10th to 17th there was no bright sunshine, a cold damp fog prevailing. Springs were very low for the time of year.

III. *Slough, Upton*. Consistently damp and misty to the 25th. R below the normal, and sunshine less than the average.—*Culham Vic*. Fine on the whole, with a small quantity of R.—*Oxford, St. Giles*. Dry, with R and rainy days below, and mean temp. above, the average.—*Swerford*. Three sunless days; fog on nine days. The river Swere was very low for the time of year, and several small streams were dry.—*Pitsford, Sedgbrook*. On the whole very fine and pleasant. R 1·57 in. below the average.—*Wisbech, Elm*. Though there were a good many wet and damp days, the total R was small and there was plenty of sunshine, particularly during the latter part. A good deal of fog.

IV. *Colchester, Lexden*. Generally rather mild till 19th, afterwards cold and bright. The gale from 6th to 8th did some damage to trees.

V. *Bishop's Cannings*. R 2·08 in. below the average. Wells and brooks were very low at the end.—*Wellington, The Avenue*. Variable, but a considerable amount of fair quiet weather, and occasional thick fogs, though bright sunshine was fairly abundant. R on many days, but the total about an inch below the average.

VI. *Clifton, Pembroke Road*. Unsettled throughout with frequent showers, but a remarkable absence of heavy falls. R 2·21 in. below the average, but rainy days normal.—*Cirencester, Further Barton*. One of the driest Octobers for many years. Quiet, with a good deal of damp and fog.—*Campden, Hidcote*. R little more than half the average, and the weather warm.—*Ross, The Graig*. R only 40 per cent. of the average, but more than the average rainy days. No really wet days. Tender plants were uninjured at the close, which is very unusual. R from January to October inclusive 8·18 in. below the average of 20 years.—*Coventry, Priory Row*. Very fine, with much sunshine. The R was very deficient, and the ground became very dry.

VIII. *Chelford, Astle*. Wet, but warm and pleasant with only one night frost. The leaves remained on the trees unusually late.—*Bolton, The Park*.—Normal weather, R falling each day to the 12th. Total ·31 in. below the average. Duration of sunshine 54·6 hours on 24 days, or 5·8 hours below the average. Mean temp. 1°·1 above the average.—*Southport, Hesketh Park*. R 1·05 in. below, and mean

temp. $2^{\circ}1$ above, the average. Frost on grass on only seven days. Total sunshine one hour above the average. Gales on five days, and L on three.—*Chatburn, Middlewood*. R $\cdot 89$ in. below the average of 12 years.—*Broughton-in-Furness*. Rather wet, but not excessively so, with many brilliant days. A good deal of the R fell at night, and there were no thoroughly wet days and no frosts.

IX. *Goldsborough Hall*. Dry, for although R fell on 16 days the total was only $1\cdot89$ in. The first half was unsettled and showery, the 17th and 18th were stormy, and from 18th to the end more settled.—*East Layton*. Drought still continued, and wells and springs failed as well as rain-water tanks.

X. *Brampton, Denton House*. R only $\cdot 18$ in. above the average, therefore the scarcity of water continued. On the whole the month was mild.

XI. *Chepstow, Shirenewton Hall*. R $2\cdot33$ in. below the average.—*Llanfrechfa Grange*. Unusually little R. Fine on the whole with a good deal of sunshine.—*Douglas, Woodville*. Very wet, the R, $6\cdot40$ in., having been only thrice exceeded in October during 27 years. Generally extremely mild. A succession of TSS on 20th. H on 6th. Gales or high winds on five days. Unusually heavy floods occurred in the middle of the month, and the R must have been quite abnormal among the hills.

XII. *Lilliesleaf, Riddell*. An average month. Showery and warm throughout, and in the last week very windy. R $\cdot 27$ in. below the average.

XV. *Campbeltown, Red Knowe*. R $\cdot 92$ in. above the average of 20 years.

XVI. *Coupar Angus*. R generally light, except on 28th. Total $\cdot 11$ in. below the average. Mean temp. $0^{\circ}6$ above the average. Stormy weather about the middle.

XIX. *Bettyhill*. Very mild, with occasional rainy days.—*Watten, H.R.S.* The first half was wet and stormy, the third week dry and cold; while in the closing week heavy R fell on two days, the rest were fine. Frequent slight frosts in the latter part.

XX. *Coolkelure*. Though the number of rainy days was very large, the fall was not heavy. Many soft, damp and mild days without wind.—*Cork, Wellesley Terrace*. R $\cdot 40$ in. less than the average, although humidity was in excess. Temp. 2° below the average.—*Miltown Malbay*. Mild, wet and drizzly, only three days being without R.

XXI. *Kilkenny, Sion Villa*. Cold and wet throughout, with

occasional storms, frost and early fogs.—*Bullybrack, Streamville.* R .86 in. less than the average of 20 years.

XXII. *Markree Observatory.* Generally wet, with frequent H showers. Very little frost or bright sunshine. High wind at times.

XXIII. *Enniskillen.* Almost constant damp weather from beginning to end.—*Belfast, Springfield.* Wet and damp. The first month for 26 years in which 30 rainy days were recorded.

NOVEMBER.*

I. *West Kensington.* The driest November in ten years, and the coldest excepting 1896, which was exactly the same.—*Muswell Hill.* R 2.15 in., or 78 per cent., below the average. The fifth consecutive month below the mean. R on seven days only, none falling in the first ten days.

II. *Haslemere, Hazelhurst.* Very cold and dry; R 3.44 in. below the average. Frost in shade on 15, on grass on 19, nights. On account of the wells drying up and all water-supply being exhausted this house had to be shut up immediately after the end of the month. Twenty-three days with only .21 in. of R ended on 10th, and 21 days with .19 in. on December 4th. Fog on three days.—*Witley, Fernside.* Remarkably dry. No previous November since the record commenced in 1872 has had less than an inch of R.—*Abinger Hall.* Notable for fog from 4th to 7th, and unusually severe frost from 14th to 16th. Fine nearly the whole of the month. R much below the average.—*Caterham Valley, Bradenhurst.* Frost began early and sharply. Much fog, condensing freely. Sunshine deficient.—*Wallington.* The coldest November recorded in 18 years, the 17th being the coldest day except November 28th, 1890, when the min. was 10°·3 in. R also the smallest on record in November, and 2.35 in. below the average. Mean temp. 4°·9 below the average. Duration of sunshine 34.4 hours, being 16.9 hours below the average, and 13 per cent. of the possible amount.—*Chichester. Westgate Meadow.* The driest November in a record of 60 years.—*Lewes, Saxonbury.* Bright and calm as a whole, and very dry, with fog and slight frost. Dense fogs from 5th to 7th. Sharp frost on 17th. The driest month of the year.—*Crowborough.* Extreme dryness and extraordinary deficiency of R. Total 3.30 in. less than the average. Cold nights at first, white frosts from 4th to 8th, and hard frost at subsequent dates. Comparative freedom from fogs

* See also *Met. Mag.*, December, 1901, p. 179.

and mists, and many fine sunny days.—*Christchurch, Winkton Lodge*. Calm with equable temp. White frost on nine days. The trees were almost stripped of leaves by a gale on 17th.—*Petersfield, Fairley*. R exceptionally small, being 3·54 in. below the average of ten years.—*West Dean*. The smallest R since 1871. Three periods of intense frost, 2nd to 7th, 14th to 18th, and 23rd to 29th; the frost was the most intense ever registered in November.

III. *Slough, Upton*. Less than a quarter of the usual R, and in a very dry year. Springs and wells low, and villagers fetching water from a distance. Thirteen sunless days.—*Highmore Vicarage*. Bright, sunny, very dry and cold, with very little fog.—*Culham Vic*. One of the driest Novembers in 50 years, only 1851, 1867 and 1871 having had less R. Temp. varied considerably. A good deal of fog at the beginning.—*Swerford*. The coldest November remembered. Fog on eight days. Six sunless days. High winds on six days.—*Blisworth, Grafton House*. Very dry and cold, with severe frost on several nights.—*Pitsford, Sedgebrook*. Cold, with little R, the total being 2·42 in. below the average.

IV. *Colchester, Lexden*. Generally cold and dry. Several morning fogs. Severe W. gale on 12th, followed by four or five very cold days.—*Rendlesham Hall*. Cold N.E. to S.E. winds on 23 days, with hard frost and little R.

V. *Bishop's Cunnings*. Many wells dry, and the Kennet and Avon Canal never remembered with so little water. R 2·38 in., and rainy days nine, below the average.—*Kingskerswell, South Hill*. Remarkably dry. Field ponds, which are usually full to overflowing, were empty at the end.—*Tavistock, Whitchurch*. Very dry and rather cold, but fine. R only about a quarter of the average. Wind variable. Gales on two days and fog on one.—*Rousdon*. The driest month this year, although usually the wettest.—*Tiverton, St. Peter Street*. No other November had so little R since the register began in 1870, and it was the coldest since 1890.—*Romansleigh Rectory*. Great want of R. One person after 40 years' residence in the parish said she never knew so great a want of water in November. The village well had been dry for two or three months and the only source of supply was a well on the glebe.—*Polperro, The Orchard*. Extremely dry.—*St. Austell, Trevarna*. The driest November in 36 years. Springs low and wells dry until the end.—*Wellington, The Avenue*. Very variable; cold and fog, gales and calms, coming in quick succession, but R very deficient, being only about one-third of the normal. Temp. unusually

low, and frost on 14 days.—*North Cadbury*. The driest, calmest and least cloudy of the last five Novembers, and temp. whether mean, max. or min. far lower than in any of the four preceding Novembers. No fewer than 14 days could be fairly called calm and nine dead calm; seven days and nights were all but cloudless. Pond lower than it had been since 1896.—*Frome, Orchardleigh*. Foggy, cold and very dry.

VI. *Clifton, Pembroke Road*. The driest November in 45 years. R 2·64 in. below the average, but November, 1856, was drier with only ·22 in. of R. Water was very short in country districts, many wells and springs being dry that were never known to fail before.—*Cirencester, Further Barton*. Probably the coldest November on record. Three distinct frosty periods, 3rd to 7th, 14th to 18th, and 22nd to 26th. Exceptionally quiet and dry. River frozen over four times.—*Boss, The Graig*. An extraordinary month. Mean temp. 39°·1; 11 days with max. above 50°, and nine days with min. below 24°. Frost on 17 nights. Fog on 10 days. Total R from August to November inclusive 5·28 in., the smallest in that period since 1851. Total from January 1st to December 1st 18·97 in. being 8·09 in. below the average.—*Church Stretton*. Very changeable; calm mild weather being succeeded by violent gales. Soft sunshine alternating with severe frost.—*Codsall*. R 54 per cent. of the average of 28 years. Absolute drought for 17 days ended on 10th.—*Tenbury, Rochford*. Fine and very dry on the whole. Sharp frost from 13th to 17th and 22nd to 24th. Many wells dry, and one 36 ft. deep nearly exhausted.—*Coventry, Priory Row*. Generally very fine, with some fogs and sharp frosts.

VII. *Workshop, Hodsock Priory*. Cold, with thick fogs at the beginning, and stormy weather at times especially on 13th and 19th. Heavy R in the second week.

VIII. *Bolton, The Park*. Very variable pressure and temp. Drought continued till 11th, followed by 2·80 in. of R between 9 p.m. and noon on 12th. Mean temp. 2°·3 in. below the average. R 1·13 in. above the average. Duration of sunshine 31·4 hours on 12 days, being six hours above the average. Fogs on seven days, dense on two.—*Southport, Hesketh Park*. A nearly normal month. R 1·01 in. above the average on account of a wet spell from 11th to 13th, when 2·87 in. fell. Gales on seven days, fog on six days. Frost in screen on 13 days and on grass on 19, silver thaw on two and ice on lake on two days.—*Chatburn, Middlewood*. R 4·64 in. above the average of 12 years, and the largest fall recorded in any month.—*Broughton-in-*

Furness. Very changeable. Fine sunny days amongst wild storms, and dull and heavy weather with sudden frosts and thaws. Range of temp. very great on some days.—*Seathwaite Vicarage.* Heavy R, with a comparatively small number of wet days. In two spells, each of four days, the falls were 7·85 in. and 4·39 in.

IX. *Upper Midhope.* Very heavy R from 11th to 21st, 6·28 in. falling. High wind on nine days. Thick fog on four days.—*Elland.* A heavy flood in the Calder valley occurred directly after the close of the prolonged drought.—*East Layton.* Conspicuous for a fearful gale and excessive R on 12th, 2·80 in. falling in 24 hours, the heaviest fall recorded at this station.

X. *Newton Hall.* A remarkable month, with very varied temp., gales, heavy R, and severe frosts.—*Brumpton, Denton House.* No R fell until the 9th, when the deficiency reached 11·25 in. compared with the average for ten years. After that date sufficient R fell to renew the springs; the total for the month being 1·28 in. above the average.

XI. *Chepstow, Shirenewton Hall.* Great changes, unusually severe frosts and gales. Great want of R, the total being 3·11 in. below the average.—*Llanfrechfa Grange.* Unusually sharp frost in the first and third weeks, otherwise mild with much fog on some days. Very little R in October and November, the total fall being 2·99 in. In 1879 only 1·97 in. fell in the two months.—*Llandefaelog-fach.* Thick fog in the early part; hard frost in the third week; the end fairly warm, damp and dull.—*Douglas, Woodville.* Fine, dry and calm till 9th with some fog. A violent S.E. gale sprang up at about 4 a.m. on 12th, shifted to N.E. and blew with great fury all day, with torrential R, 3·33 in. falling in 20 hours. Gales on 11 days, and fog or mist on ten, disorganised the mail services to an unprecedented extent.

XII. *Lilliesleaf, Riddell.* R ·96 in. above the average. There were cold periods from 12th to 16th and 22nd to 25th.

XIX. *Bettyhill.* Rather wet, R falling on 16 days. On two or three occasions there were high winds.—*Watten, H.R.S.* The first part was fine, followed by a series of gales, with R and S and some frost.

XX. *Coolkelure.* Fine and seasonable. Excepting a gale on the night of the 11th and three frosts, there was nothing noteworthy.—*Cork, Wellesley Terrace.* R 2·54 in. less than the average. Slight fog general.—*Miltown Malbay.* Generally mild. Remarkable R on 11th, viz., 3·54 in., the greatest for 50 years.

XXI. *Kilkenny, Sion Villa.* Fair but cold. Early fogs on five days, frost on three nights. Gales from 11th to 13th and on 19th; that on 12th accompanied by a flood in the river Nore.—*Ballybrack, Streamville.* R \cdot 13 in. above the average of 20 years.—*Rathmines, Leinster Road.* Except for a remarkably severe storm, with 2·14 in. of R on 11th, the weather was unusually fine and dry. Practically all the R fell on four days.

XXII. *Markree Observatory.* Wet, but some bright sunny days. Duration of sunshine 54·9 hours. Sharp frost about the middle.

XXIII. *Belfast, Springfield.* An average month, rendered notable by the severe gale of 11th and 12th.

DECEMBER.*

I. *Muswell Hill.* R 1·06 in., or 44 per cent., above the average, on 17 days. S fell on 9th and 24th.

II. *Haslemere, Hazellhurst.* A wet month, with R or S on 19 days, quite relieving the great drought. Frost in shade on 18 and on grass on 22 nights. Skating on 22nd and 23rd, but wet snow on the latter day spoiled the ice. Gales from S.W. prevailed towards the end of the month.—*Redhill, Oxford Road.* Heavy gales occasionally; also great variations of temp.—*Wallington.* Warm and exceedingly wet, yet very sunny. R 1·90 in. above the average, and the largest in the record. Duration of sunshine 55·6 hours, the largest on record excepting 1886, being 16·7 hours above the average, and 23 per cent. of the possible amount. Mean temp. 0° ·4 above the average.—*Sheppey, Leysdown.* December opened with a fine week, followed by unsettled weather till 18th; then frosty nights and sunny days till 23rd, and rainy and unsettled to the end.—*Crowborough.* Frost and R with little S. From 9th there were 15 days of frost with a break on 13th and 14th only. R much above the average and only twice exceeded in 30 years.

III. *St. Albans, County Museum.* Wet, with R nearly double the average.—*Blisworth, Grafton House.* Very wintry. Roads covered with ice in the latter part causing much inconvenience and danger to traffic.—*Pitsford, Sedgebrook.* R 1·27 in. above the average.

IV. *Colchester, Lexden.* Stormy; gales on 7th and 13th. Moderately cold, with but few mild days.—*Sudbury, Friars Street.* Fine at the commencement, unsettled, with S at times, later.—*Rendlesham Hall.*

* See also *Met. Mag.*, January, 1902, p. 196.

Frost on 22 days, but little S. — *Hillington Rectory*. The rainiest December since observations commenced in 1866. — *Blakeney*. Very variable ; alternate gales and calms, wet and drought, and frosts and thaws.

V. *East Knoyle*. Springs lower than ever known before. — *Bishop's Cannings*. R 1·92 in., and rainy days six, above the average. — *Tavistock, Whitchurch*. Rather cold and very wet. R about double the average, and the heaviest in any month since observations began in January, 1898. S on nine days, H on eight, and fog on four. — *Okehampton, Oaklands*. Very wet ; the early part cold with some frost, the latter part mild. — *Polperro, The Orchard*. Extremely wet. — *Wellington, The Avenue*. Exceedingly variable, at times very cold, but closing unusually mild. R very large, being about 2·00 in. above the average.

VI. *Clifton, Pembroke Road*. R 2·17 in. above the average, and more than that of the three months September to November. — *Cirencester, Further Barton*. By far the wettest month of the year. Very cold with the exception of the first three and last three days and the 7th and 8th. Springs began to rise on 14th after prolonged autumn drought. — *Ross, The Graig*. The first and third weeks were fine, but there was much S and R during the remainder. Severe frosts before Christmas, but the first 11 days and the last four, very warm. Great changes of temp. throughout. The Wye was twice heavily flooded, with about 11 feet of water in each case. — *Tenbury, Rochford*. Rough and stormy, with S, frost and heavy winds.

VII. *Horncastle, Bucknall*. Mean temp. 5°·0 below the average. Although the wind was constantly S. or S.W. from 21st to 28th, low min. readings were recorded. — *Worksop, Hodsock Priory*. The wettest December since 1876. After the heavy fall of S on December 12th, the roads remained in a most slippery and dangerous state. — *Belper, Quarry Bank*. The wettest month save one in a 25 years' record.

VIII. *Chelford, Astle*. Very wet, R falling on 22 days. Frost on 16 days. The early part very unsettled with a good deal of T and L. Gales occurred from 12th to 14th, and on 23rd and 28th. — *Bolton, The Park*. Unsettled, stormy at times, and during the second and third weeks very cold. T and L on 8th. E. gale with S and sleet on 12th and 13th, and three inches of S on 15th. Mean temp. 1°·0 below the average. Sunshine on 15 days, the total duration being 17·6 hours, or 2·3 hours above the average. R ·73 in. above the average. — *Chatburn, Middlewood*. R 1·03 in. above the average of 12

years.—*Broughton-in-Furness*. Very changeable; wild gales, heavy R with S and H showers, but no S to lie. Very sudden changes of temp.; very mild at the close, but as a whole much colder than usual.

IX. *Upper Midhope*. A month of heavy R. Very wintry from 8th to 29th. High wind on 16 days, frost on 20 nights. Foggy on eight days. — *Bradford, Manningham Lodge*. The wettest month since February, 1894.—*Knaresborough, Farnham Lodge*. Ten varieties of garden flowers were in bloom at the end.—*Oughtershaw Hall*. The whole of the precipitation of this month fell in the form of S.—*Middlesbrough, Ormesby*. Warm at the beginning, then cold until the last few days. A large R with much S.

X. *Wearhead*. All precipitation from 9th to 31st fell as S, and the drifts made measurement difficult.—*Scol's Gap, Rothley Crag*. The first S fell on 9th, and lay practically until the 31st.—*Brampton, Denton House*. Stormy. R or S fell on 23 days, often accompanied by gales or strong winds.

XI. *Chepstow, Shirenewton Hall*. R 2·26 in. above the average. Cold, with violent gales and an excessive number of frosts.—*Llanfrechfa Grange*. Very stormy. Sharp frosts on 17th and from 20th to 23rd, otherwise mild.—*Dowlais, Gwernllwyn*. A very stormy month with much S.

XII. *Drumpark*. The fall of 5·57 in. was made up of S.—*Lilliesleaf, Riddell*. R nearly double the average, mainly in the form of S. Three times telegraphic communication with London ceased, and three times were we unable to reach the railway station, the roads being blocked. On 29th the thaw came, and on that night the flood was the highest remembered, being 8 ft. 6 in. above the lowest summer level and 1 ft. 6 in. above the highest remembered. The weather was stormy but not cold, the temp. keeping just round 32°.

XVI. *Dollar, Academy*. Cold and damp, with S, frost and R during the last three weeks.—*Coupar Angus*. Three snaps of severe frost, but all of short duration. Mean temp. practically the average of 21 years. Heavy S on 23rd. R ·42 in. above the average of 21 years.

XIX. *Watten, H.R.S.* Wet throughout, and a series of snowstorms, rain-storms and wind-storms.

XX. *Cork, Wellesley Terrace*. R 1·28 in. above the average. Considerable humidity, particularly in the first eight and last seven days. Mean temp. 4°·6 below the average.—*Miltown Malbay*. Generally disagreeable and wet without much frost or S, and no great storms.

XXI. *Templeudigan, Ballindoney*. Very cold with severe frosts. The Leinster mountains were covered with deep snow from 9th to 30th. —*Kilkenny, Sion Villa*. Dark, cold and damp, with very frequent storms and gales. Frost on eight days, S on two, H on two, and fog on five.—*Streamville, Ballybrack*. Exceptionally cold. R .39 in. less than the average of 20 years.—*Rathmines, Leinster Road*. An average month. The first week was very mild ; cold weather then set in with frequent frosts, lasting till 27th.

XXII. *Markree Observatory*. Wet on the whole, with a few fine days. Frequent H showers with L from 7th to 10th and about 25th. Duration of sunshine 48·7 hours, or 14·4 hours above the average. R 1·40 in. above the average of 25 years.

XXIII. *Belfast, Springfield*. Severe frost from 8th to 21st, the rest of the month dull and foggy.

OBSERVERS' NOTES ON THE YEAR 1901.

ENGLAND.

DIVISION I.—MIDDLESEX.

ACTON, NEWBURGH ROAD.—R 4·92 in. below the average of ten years.

KENSINGTON, EDITH ROAD. — Rather warm, being the ninth consecutive year with temperature above the average. R 5·30 in. below the average on only 128 days; ten fewer than in any year of the preceding 17. Absolute droughts occurred in April, May and July, each lasting 19 days. Partial drought prevailed for 56 days from April 17th.

LONDON, WESTBOURNE GROVE.—Another dry year. In the first half only 8·52 in. of R fell. Absolute drought from April 17th to May 5th, May 10th to 28th, July 3rd to 21st, and September 22nd to October 12th. Fog was prevalent in November.

CROUCH END, AUBREY ROAD.—Number of rainy days remarkably small. In five months ending September 30th R fell on only 37 days.

MUSWELL HILL.—R 4·23 in., or 15 per cent., less than the average of 29 years. July had an excess of 2·43 in., December of 1·06 in., April of ·43 in., and March of ·25 in.; all the other months showed a deficiency, amounting to 2·15 in. in November, 1·50 in. in January, and 1·16 in. in June.

NORTH FINCHLEY.—The greatest R in one week was 2·91 in. from July 22nd to 28th. Only six other weeks had more than an inch each.

DIVISION II.—SOUTH EASTERN COUNTIES.

HASLEMERE, LOWER STREET.—R 5·67 in. below the average of 29 years, only four years having had less. Chiefly remarkable for the dry November, when the R was ·86 in., or 3·29 in. below the average and the least in 28 years.

HASLEMERE, HAZELHURST.—Remarkably dry, the total R being 5·65 in. less than the law of averages led one to expect. Between April 17th and August 10th there were five very dry periods of from 12 to 20 consecutive days each, the total fall on the 85 days being only ·29 in. Again from October 19th to December 4th there were two dry periods of 23 and 21 days respectively, with a total fall on the 44 days of ·40 in. The latter period came at the time when heavy rain was required to fill the springs.

CHIDDINGFOLD, BEACONSCROFT—Every month except February, September and December, had less R than the average of 14 years, the total deficiency being 2·43 in. The water in the best wells stood at about the same height from September to the commencement of the R in December. In September there were very heavy dews with warm moist southerly airs. November was the driest on record and many wells were dry.

CRANLEIGH COMMON, HOMEFIELD COTTAGE.—The driest year of the last 12, except 1898. May and November were the driest months, July was the finest and warmest, and December the coldest and wettest. The longest period without R was from May 10th to 28th.

LYDEN CROFT [EDENBRIDGE].—R 3·47 in. below the average of ten years.

FARNHAM, SHORT HEATH LODGE.—R two inches less than the average; the deficiency would have been greater but for the fall of 3·36 in. on July 25th, which was very local. Absolute drought for 20 days in May and 19 days in July.

CHERTSEY, OTTERSHAW.—Another year of drought, the R being four or five inches below the average of 15 years. Surface streams and ditches were dry till after the first week in December, and underground springs were very low indeed at the end.

BAGSHOT, HALL GROVE.—Through the autumn to the end of the year wells were being pumped, and the water level had scarcely risen at the close. The hay crop was very light owing to absence of R.

WEYBRIDGE, ST. MARY'S LODGE.—Excepting 1884 the driest year since records commenced in 1876.

WALLINGTON.—R 2·38 in. below the average of 20 years. The only months above the average were March, April, October and December. It is curious to note that the lowest November and

highest December R for the whole period occur in this year. The total duration of sunshine has been only three times exceeded in 15 years, but the mean temp. was low.

CROYDON, WADDON NEW ROAD.—R 3·42 in., and rainy days 21, below the average of 36 years.

WARLINGHAM. — A marked continuance of dry and pleasant weather. R below the average; January, July and November being especially deficient. No TSS of any severity. A large amount of sunshine; mean temp. about the average.

TENTERDEN.—Another year of very deficient R. A short spell of frost and S occurred early in January, and a longer one in February. March was very sunless and the first week wet, while April was very wet until the 16th, when dry weather set in and continued until the end of the year, only relieved by summer TSS. Absolute drought for 19 days from May 11th occurred during partial drought for 34 days ending June 11th. November was very dry and cold. Duration of sunshine 1840 hours. The wells were very low at the end of the year.

HYPHE, HILLHURST FARM.—The smallest R in 17 years.

FOLKESTONE, RADNOR PARK.—R 9·58 in. below the average of 10 years, and much the smallest fall recorded. Only March and December exceeded the average.

TUNBRIDGE, PRIMROSE HILL.—A year of remarkable drought, with less than 17·00 in. of R in the first 11 months. December was by far the wettest month. Except on February 4th there was no S worth mentioning. The frosts in the middle of November were remarkably severe.

MAIDSTONE, MOUNT HOUSE.—Very cold in February and March. November R the smallest in 32 years, while there have been eight drier years.

OSPRINGE, LORENDEN.—So many wells have never before been known to be dry in an experience of 40 years. Only in the last week was a slight rise perceptible in wells in the chalk.

RECVLVER, BROOK.—More than two inches less R fell than in any year of the preceding 16. A disastrous year for grazing and root growing; wheat was the only cereal which did not suffer severely. A fine late autumn and winter were a great help to flock owners.

MARGATE, APSLEY HOUSE.—R about nine inches below the average, this being the fifth year with a deficient fall. Temp. just about the average.

FARNINGHAM, MOUNT PLEASANT.—Winter began in earnest on January 5th with five days of hard frost; slight frost occurred from 14th to 16th, and continuous though not very severe cold from 29th to February 22nd. A fortnight of mild wet weather followed, and then came bitter N.E. and N.W. winds till March 28th. Wet again till the middle of April. Extremely dry between April 17th and August 25th, only 4·03 in. of R falling on 31 days. With high temp. and much bright sunshine these showers had an inappreciable effect. September was dry, but in October there was abundance of R. Frost occurred on October 15th, but not till the 27th was it sharp enough to cut down dahlias. Thick fogs from November 3rd to 7th. December was cold and unusually wet.

CHICHESTER, WESTGATE MEADOW.—R 5·65 in. below the average of 50 years. The driest November in 60 years.

FUNTINGTON.—A dry year and very dry November. An artesian well, 60 feet deep, was a month later in beginning to rise after the usual fall and fell six inches lower than in 1900.

CHICHESTER, WATERGATE.—Water in the chalk well here was highest on May 14th, when it stood at 35½ ft., then sank steadily to 1½ ft. on December 27th, when it began to rise.

MIDHURST, BORDEN WOOD.—Absolute drought from May 10th to 28th and October 25th to November 10th. No partial droughts. ·25 in. or more R fell on 34 days, and ·50 in. or more on 18 days.

BRIGHTON W.W., GOLDSTONE BOTTOM.—The driest year in a record commencing 1871.

BRIGHTON, W.W., LEWES ROAD.—The driest year (except 1898) in a record commencing 1866.

FALMER.—R 9·27 in. below the average of 40 years; the sixth year in succession with R below the average, the total deficiency amounting to 29·70 in., or nearly one year's R. No wonder springs are low. The fall of the first 11 months was only 18·77 in., the smallest in 42 years.

HASTINGS, NEWGATE RES.—The smallest R in a record extending over 20 years.

HASTINGS, GUESTLING RECTORY.—R far below the average, and almost the same as in the very dry year 1898; yet there were three

days with a fall of more than an inch. Crops did not suffer so much as might be expected since there were good rains at widely separated intervals. A general absence of S, but a good deal fell on February 15th followed by a rapid thaw.

MARESFIELD, FOREST LODGE.—Since 1895 the R has been annually in defect of the average of 45 years. In 1901 the deficiency amounted to 6·95 in. and the only months with more than the average were March, April and December ; while November had the smallest fall ever registered. There was serious drought in autumn, wells and springs failing.

CROWBOROUGH, UCKFIELD LODGE.—The chief feature of the year was the continued drought of the first seven months, which comprised four dry periods. From 17th April to 5th May 19 days absolute drought, although ·01 in. of dew was registered ; from 10th to 28th May 19 days absolute drought ; from 31st May to 11th June, 12 days, with ·09 in. of R on one day ; from 3rd to 22nd July, 20 days, with ·15 in. on one day. The wet intervals between these periods were all short. The following table compares 1901 with the three preceding years and the average of 27 years.

	1901.	1900.	1899.	1898.	Average. 1871—1897.
WINTER—Jan., Feb., Mar.....	5·60	12·47	8·53	3·91	8·22
SPRING—April, May, June ...	5·58	5·93	7·05	6·92	6·52
SUMMER—July, Aug., Sept. ...	5·86	5·20	6·33	2·79	9·40
AUTUMN—Oct., Nov., Dec. ...	10·16	13·04	10·05	10·57	12·01
Total	27·20	36·64	31·96	24·19	36·15

If we omit 1898 the R of 1901 is 7·71 in. below the average of 30 years. The first frost of the year was on 5th January, followed by a somewhat prolonged and severe frost from 29th January to 21st February. In November there was frost on 11 days and in December on 13. During the year frost occurred on 64 days. In January and February S fell on 12 days ; the heaviest fall, yielding ·83 in., was on 4th February. In December light S showers fell on four days, a total of 16 days in the year when some snow fell. The year was on the whole free from severe storms.

HAYWARDS HEATH, BROOK HOUSE.—Absence of R from April 16th to May 6th, from May 9th to 25th, from July 6th to 23rd, and from October 29th to November 12th.

TICEHURST, WHILIGH.—Great drought in May and the beginning of June, no R falling in the last 21 days of May. July would also have been dry but for local TSS. September was dry, and November very dry, but December was very wet.

CRAWLEY.—A dry year. In the late autumn R was very short, and many wells dried which had never failed before. The fall in December was the heaviest in any month for 5 years.

NEWPORT, GRAMMAR SCHOOL.—R 4·06 in. below the average of 20 years.

RYDE, BELDORNIE TOWER.—Partial drought for 41 days with ·40 in. of R lasted from 25th October to 4th December.

OSBORNE, NEWBARN COTTAGE.—R 4·24 in. below the average of 44 years, the fall being below the average in 8 months. Absolute drought from April 16th to May 5th, and from May 9th to 28th, while only ·01 in. of R fell from July 2nd to 22nd. From April 16th to July 22nd only 2·75 in. fell. The fall for November was the smallest since 1879.

BOURNEMOUTH, KEMPSEY.—The features of the year were an exceptional frost on January 9th, a remarkably cold February, long droughts in May and July, and a severe TS on July 27th.

CHRISTCHURCH, WINKTON LODGE.—The smallest R in 10 years. No long droughts, but a cold spring and little R in May gave a poor hay crop. A bright and sunny year, but unusual fogs in November.

EMSWORTH, REDLANDS.—R 2·59 in. less than the average of 18 years. The wettest months were June and December. There were three absolute droughts, one for 20 days and two for 19 days.

SOUTHAMPTON, THORNHILL PARK.—The springs were very low in the autumn. November was the driest month ever remembered, R falling on only three days.

WICKHAM, THE CROFT.—Two periods of absolute drought from May 10th to 28th, and from October 25th to November 10th.

BOTLEY, BEECHCROFT, CURDRIDGE.—The third year in succession with a droughty summer, yet since R fell more copiously in August and September it was an excellent season for root crops.

BISHOPS WALTHAM, HILL PLACE.—R 4·10 in. below the average of 10 years. November was the driest month of that name in 26 years.

SWARRATON. —The surface level of the water in the well, measured from the cill of the window-frame, was 25 ft. 1 in. between July 19th

and 26th. With the exception of a small rise of half an inch from October 25th to November 5th, the water level fell continuously throughout the autumn. It was at its lowest, 25 ft. 11 in., between December 10th and 17th, after which it began to rise, and on the last day of the year the depth from the cill to the surface of the water was 25 ft. 4 in.

ANDOVER, THE KNOLL.—R 5·06 in. below the average of 15 years.

HARTLEY WINTNEY.—A remarkably dry year, making the seventh in succession. Taking a period of 14 years, the latter seven are drier than the former by 2·42 in. yearly.

SUNNINGHILL, LYNWOOD.—Another year of short R, being two or three inches below the average. The fall for November was remarkably small, and but for the heavy falls in the last 10 days of the year, the total would have been singularly deficient.

WINDSOR, ROYAL GARDENS.—With the exception of 1898, the driest year in 28. The average R has not been reached since 1894.

NEWBURY, WESTON.—R again below the average, though the large amount in December reduced the deficiency. Exceptionally few rainy days.

MAIDENHEAD, STAFFERTON LODGE.—The fall of 3·05 in. on July 12th is a record for a wet day, and that of ·44 in. in November for a dry month.

READING, LONDON ROAD.—R 4·05 in., and rainy days nine, below the average of 10 years.

DIVISION III.—SOUTH MIDLAND COUNTIES.

BARNET, HADLEY.—Winter and spring were very dry and rather cold. Summer was very droughty, and great heat in July was followed by TSS each day from 23rd to 29th. November was very dry, cold and foggy, and December cold and wet. Altogether a very dry year.

ST. ALBANS, HERTS COUNTY MUSEUM.—Rather cold and dry, being more than 0°·5 colder than the average of 14 years, and having 3·50 in., or 14 per cent., less R. The winter (1900-01) was warm and dry, the spring very cold and rather wet, the summer rather warm and dry, and the autumn cold and very dry. December, the wettest month, had more R than January, June, September and November together.

WELWYN, DATCHWORTH RECTORY.—January and November were very deficient in R, and in November many wells failed which had never failed in living memory before, and surface ponds were very low. Absolute drought from May 10th to 28th. No heavy S.

BUNTINGFORD, HAMELS PARK.—Spring was very late with cold winds. Summer was dry and hot with much bright sunshine, and autumn was mild and open.

HITCHIN, THE CHILTERNs.—The least R since 1887.

ETON, TANGIER ISLAND.—A very dry year. The Thames at Windsor has never before been so low.

SLOUGH, LANGLEY.—The driest year recorded since observations began in 1872. During the half-year from the middle of April to the middle of October, R fell on only 41 days.

SLOUGH, UPTON.—Despite the heavy R of December, it was the driest year in recent times, with less R than even 1893 and 1898.

HEDSOR.—R 2·00 in. below the average of ten years. Dry and mild as a whole in January, very cold and wintry in February. The spring generally cold and unseasonable, severe frosts occurring about March 25th; while the nights remained very cold throughout April and May and even into June. During this period, except for the first fortnight in April, dry N. to E. winds prevailed with very little R. A spell of hot dry weather early in July was broken by a terrific TS on the 12th, when 2·85 in. of R fell between 7 p.m. and midnight. Pleasant summer weather followed with sufficient R at intervals. The autumn was dry, with severe frosts in November and no high winds or gales until December, which was stormy with heavy R and S at times. Absolute drought from May 10th to 28th, and partial drought from May 10th to June 28th, 50 days with ·43 in. of R.

WINSLOW, ADDINGTON.—R much below the average, a smaller annual fall having occurred only twice during 30 years.

NEWPORT PAGNELL.—Very dry. Water was scarce all through summer and autumn, and springs were very low at the end.

OLNEY, FILGRAVE RECTORY. The R of April soaked into the soil and prevented such drought as has been experienced in other years. The R of July had little effect, and to the middle of December springs continuously decreased and the country was very short of water. The river Ouse has shrunk perceptibly in the last seven years.

DORCHESTER, BISHOPS COURT.—This district suffered severely from excessive drought from the middle of April until July 24th. Only on three days in May did any quantity of R fall.

ABINGDON, CULHAM.—R four inches below the average, and the number of rainy days exceptionally small. Only in April, July and December was the fall above the average. November was one of the driest on record, the only drier Novembers in 50 years having been those of 1851, 1867 and 1871. The springs were very low at the end.

CHIPPING NORTON, LYNEHAM.—The district was never known to be so short of water before; many springs were dry which have no record of ever failing before.

BLISWORTH, GRAFTON HOUSE.—R 3·89 in. below, and rainy days 14 above, the average of 16 years.

PITSFORD, SEDGEBROOK.—R 5·43 in. below the average of 10 years.

SCALDWELL.—R 1·79 in. below the average of the last 10 years, which itself is nearly four inches below the previous average. Spring was cold and summer hot, with light corn and hay crops, autumn very dry. Springs and reservoirs were lower than ever known before in the middle of December.

CORBY, WELDON GRANGE.—Three falls, exceeding an inch in 24 hours, brought the total R up to 2·57 in. below the average; otherwise the falls were light, and the number of rainy days was much below the average.

STAMFORD, COLLYWESTON HOUSE.—The floods in the Welland valley were higher on January 1st than they had been since 1881. Spring was earlier with fewer cold winds, and summer and autumn were more seasonable than for the last seven years. November was unusually dry, and December more frosty than usual.

STAMFORD, ST. MARTINS.—The drought so much complained of in many parts of England was not much felt here.

STOTFOLD, BALDOCK.—R 3·82 in. below the average of 20 years.

DIVISION IV.—EASTERN COUNTIES.

SHOEBURYNESS.—The smallest annual R since the record commenced in 1865.

CHELMSFORD.—R 3·48 in. below the average of 30 years.

GREAT LEIGHS.—A worse year for light land farms in this district than 1900. Hay and grain crops very short owing to deficient R at critical periods. Springs still very low at the end.

LAYER BRETON RECTORY.—The summer was exceptionally dry, the wells very low, and the water obtained from depths of 100 or 120 feet was not drinkable. The dry seasons have been disastrous to buildings: one ancient church having become dangerous is deserted, and this rectory after standing eighty years without a flaw is now cracked from roof to foundation.

FINGRINGHOE, BALLAST QUAY FARM.—A very dry season, July and December alone having an average R. Summer storms were much heavier at places round about than just here.

COLCHESTER, LEXDEN.—The driest year recorded. From August to November inclusive only 3·86 in. of R fell, the average being 8·14 in. Absolute drought from May 11th to 28th. Partial drought from January 9th to February 15th, 38 days, with ·36 in of R; and from July 27th to August 24th, 29 days, with ·29 in.

BRAINTREE, FENNES.—The lowest total R since 1887. Absolute drought from May 11th to 28th, and partial drought from May 11th to June 11th, 32 days, with ·30 in. of R.

HARWICH, RAMSEY.—Not one TS overhead during the year absolute drought from May 11th to 27th inclusive.

SAFFRON WALDEN.—R nearly two inches below the average of 26 years.

FELIXSTOWE, WEST VIEW.—The driest year since 1874, when 16·15 in. fell. Duration of sunshine 2047·5 hours.

ERWARTON HALL.—The driest year of the last quarter century with the exception of 1895.

IPSWICH, CLARE LODGE.—R 5·25 in. below the average of 12 years and the least in that period.

SUDBURY, NEWTON ROAD.—The smallest R in 14 years.

CLARE, HAWKEDON RECTORY.—Very dry, having three inches less R than 1893. January and February were sunless with just enough R to keep the surface of the land moist. March and April were rather wet, followed by drought, broken only by heavy R on June 30th. Very dry again till October, then some R. A fine harvest and fine autumn.

PARHAM, THE HIGH HOUSE.—The driest year since the record commenced in 1884.

BURY ST. EDMUNDS, WESTLEY.—R 6·98 in. below the average of 44 years, and the least excepting 1861, 1864, 1870 and 1874. The dry months of May, June, July and August were most disastrous for West Suffolk.

IXWORTH, BARNINGHAM.—The smallest R in 35 years, excepting 1871 when 15·70 in. fell.

RUMBURGH.—R was deficient in January, February, March and May. Want of water was felt all August, September and October, relieved only by little showers. Roots, however, grew well and wheat was of good quality.

YARMOUTH, MARKET PLACE.—R 6·84 in. below the average, and the smallest since 1893.

NORWICH, ESSEX STREET.—R six inches below the average of 26 years. Six years out of the past seven have been below the average, causing land springs to be very low.

SPROWSTON, OAK LODGE.—R about 4·75 in. below the average. The only wet months were April and December.

EAST DEREHAM.—R deficient by about four inches. A mild winter, cold late spring, very hot summer, and fine autumn with occasional touches of winter; a wet December.

AYLMER HALL.—R 4·66 in. below the average of 13 years.

NORTH WALSHAM, E. RUSTON GRANGE.—Very dry and warm, with the least R for many years.

DIVISION V.—SOUTH WESTERN COUNTIES.

ALDERBURY. — R 2·95 in. below the average of ten years. November, generally very wet, was the driest for at least 15 years.

WARMINSTER, RYE HILL.—R fairly distributed throughout the months, but very deficient before December. The summer drought commenced on April 17th, was broken on May 6th, and at the end of the month. June gave some wet days but no R to do any good before 30th. This soon dried up, and none of any consequence fell till July 24th. In August there was a heavy downpour on 14th, but with this exception showers only moistened the surface of the land, and the drought could not be said to be broken till September 16th. October and November were dry.

AMESBURY, SHREWTON.—The year generally was marked by an alternation of long dry, and short wet, spells. December was the

only wet month, having about 75 per cent. more than the average ; November had only one-fifth of the average, and January and October little more than half.

BRADFORD, THE CHANTRY.—A year of scanty R, but with the exception of hay the crops did not suffer much. The springs ran low, and some dried up and remained dry until December. There were many wasps, hornets, &c.

BISHOP'S CANNINGS.—R 4·27 in. less than the average. Springs and wells were still very low at the end of the year in spite of the heavy R in December.

RAMSBURY, THE ROOKERY.—It would have been a dry year but for the phenomenal fall in December, which amounted to nearly one-fifth of the whole.

WINTERBOURNE STEEPLETON.—R 3·07 in. below the average of eight years. One inch and upwards fell on four days, ·01 in. only was registered on 22 days. Absolute drought from May 10th to 28th.

IVYBRIDGE, LANGHAM HILL.—R rather below the average of ten years, but the first six months had more than the average, March and April being very wet. The summer months were rather dry, as was also October. November was wonderfully fine and dry. December was very wet. There was little frost during the year ; but a great deal of E. wind in the spring and summer. Excepting a fortnight in July there was no very hot weather.

PLYMPTON, HEMERDON.—Great deficiency of R, the total being 5·37 in. below the average of ten years. Only 31·03 in. fell to the end of November, a heavy fall of 8·56 in. was however registered in December.

ASHBURTON, HOLNE VICARAGE.—R 3·72 in. above, and rainy days seven below, the average of ten years.

TAVISTOCK, WHITCHURCH.—Dry and rather cold. The longest consecutive dry period was 18 days from July 3rd, and the longest wet period 15 days from April 7th, with 4·89 in. of R. January, February, May, July, October and November were dry ; March, April, September and December wet. The first three months, June, and the last five months were cold ; May and July warm. Max. temp. rose to, or above, 80° on five days. The latest grass frost occurred on June 13th, and the first after the summer on October 20th. TSS on nine days.

CHUDLEIGH, IDEFORD.—R ·65 in. below the average of 14 years. The falls for August and November were the smallest in that period.

POLAPIT TAMAR [LAUNCESTON].—R 2·80 in. below the average. The fall in November was the smallest, and that in December the heaviest, for 21 years. Absolute drought from July 3rd to 21st inclusive.

ROUSDON.—The total R was ·41 in. above the average of 18 years. Absolute drought occurred for 19 days in May, and 20 days in July, while in April R fell on 14 consecutive days. For the year there were nine days with over ·50 in. each, on four of which the fall exceeded 1·00 in. November, usually the wettest month of the year, was the driest, and December had most R.

EXETER, HEAVITREE.—The coldest and roughest March ever remembered. Lovely in October and November, with very little R and much sunshine. December very wet. Frost on 30 nights in November and December.

PETROCKSTOW, HEANTON SATCHVILLE.—R 6·93 in. below the average of 16 years, and the smallest fall in that period. From July until the heavy fall of December water in wells, brooks and rivers was very low, and many crops were a failure from drought.

PARRACOMBE.—Long spells of drought occurred in February, May, June, July and August, and springs were very low all the year.

LYNTON, ROCK HOUSE.—January and February were mild with little R. March was colder, with H showers and T at the beginning, and S on the hills at the end. April was much warmer with 4·22 in. of R. June was very cold, except for the last few days, when the heat was excessive. July and August were warm and dry, and September was fairly warm, with great absence of cloud. A few gales in October, but none of any severity. November and December were both cold. Absolute drought from February 4th to 24th.

PENZANCE, PENLEE.—R 3·40 in. below the average of ten years.

ST. IVES, PHILLACK RECTORY.—Except 1887 the smallest R for 37 years. November was the driest in that period.

EMPACOMBE [DEVONPORT].—R 2·59 in. below the average of 12 years. Greater scarcity of water than usual.

ST. WENN VICARAGE.—Very dry in spite of the very wet December. Absolute drought from May 11th to 28th inclusive. November unusually dry.

LAUNCESTON, ALTARNON.—A rather cold and dry year. Wet and cold most of March and April, which gave better crops than in most parts, but hay was light and straw short. After August 25th

a showery and mild period re-started pastures and all was favourable for farmers. A dry frosty November enabled roots and fruits to be stored in good condition and tillage to be got well in hand. The wet December replenished all wells and springs ; the fall for that month was the heaviest, except 1896, since 1876.

YEOVIL, WEST COKER.—A late and cold spring, followed by a fine summer and autumn. The R, which up to the end of November was only 24·07 in., was brought up to 30·88 in. by December, but is 1·80 in. below the average of ten years.

WELLINGTON, THE AVENUE.—The year opened with cold, followed by wet, weather. February was dry and cold, March wet and cold. The first half of April was wet, but a very dry period followed to about the end of June. July was very warm, August fairly warm and dry, September rather stormy and cool, October had frequent small falls of R, but November was remarkably dry and cold, followed by a wet December. Total R about 2·00 in. below the average.

NORTH CADBURY RECTORY.—Absolute drought from May 10th to 29th. Protracted drought from May 10th to July 22nd, yielding only 1·84 in. at a time when R is most needed, and with air parchingly dry for the most part. A dry year up to the end of November, but December was the wettest month since the record commenced in September, 1896, which month may have equalled it.

COTHELSTONE HOUSE.—R 7·70 in. below the average of 20 years.

NORTH PETHERTON, THE OLD RECTORY.—Another very dry year and water scarce everywhere, most of the wells in the neighbourhood having run dry ; some for the first time in the memory of the oldest inhabitant.

WINSFORD VICARAGE.—R below the average, except in December. Total 5·46 in. below the average of 11 years.

BRIDGWATER NURSERIES.—R 5·07 in. below the average of 13 years. Absolute drought from April 16th to May 5th, May 11th to 28th, and July 3rd to 22nd ; partial drought from May 10th to June 18th, ·36 in. of R falling in 40 days.

STON EASTON.—R 6·59 in. below the average of 33 years.

HARPTREE COURT.—R 8·44 in. less than the average of 19 years. From the beginning of May until the end of November was abnormally dry, and springs became very low. Absolute drought from February 5th to 24th and from May 10th to 28th. Up to December 5th the R was fully 12·00 in. less than the average.

UBLEY, NORDRACH-ON-MENDIP. — The third consecutive dry summer. All water failed for six weeks.

WESTON-SUPER-MARE, BEAUFORT ROAD. — Remarkable for the unusual amount of easterly wind, the direction being from points between S.E. and N.E. on 170 days.

WRINGTON, WEST HAY. — R 6·29 in. below the average of 14 years, and the smallest fall in that period.

BATH, HENRIETTA PARK. — R 4·40 in. below the average of 35 years.

CLEVEDON WATER WORKS. — A year of drought, droughts occurring from February 4th to 25th, May 9th to 29th, July 2nd to 23rd, and November 18th to December 6th.

ABBOTS LEIGH. — R five inches below the average. Nearly all springs dried up and had not started at the end of the year.

DIVISION VI.—WEST MIDLAND COUNTIES.

CLIFTON, PEMBROKE ROAD. — R 7·57 in. below the average of 45 years, and rainy days 23 below. Every month had deficient R except March, April and December. November was the driest for 45 years, and the aggregate of September, October and November, 4·03 in., is without a parallel during that period, the average being 10·25 in.

BRISTOL, THE GROVE, FISHPONDS. — An average year as regards R to the end of April ; but seven consecutive dry months followed, which resulted at the end of November in a deficiency greater than any on record, except in 1854, 1864 and 1870. December brought a series of heavy falls and materially reduced the deficiency. Absolute drought prevailed from June 11th to 28th. November was remarkable for being the driest on record, and also for the unprecedented severity of the frosts.

LYDNEY, CLANNA. — Spring very late and cold. In summer the temp. was occasionally very low with storms. Frost commenced early in autumn, and was more severe than in previous years, and winter was colder than usual before Christmas.

LYDNEY, PRIORS MESNE. — About the average R for the district. As sufficient R fell in March, April and May, the crops were good.

CIRENCESTER, DOLLARWARD HOUSE. — R 1·25 in. below the average of 12 years. After wet weather in the first half of April

the R was never sufficient to affect springs, &c., till December 14th, an unusually late date. In summer droughts were frequently interrupted by good surface R.

FAIRFORD, HATHEROP RECTORY.—R 4·38 in. below the average of 32 years.

GLOUCESTER, LOWER BARTON STREET.—R 2·38 in. below the average. Drought for 18 days from May 10th.

GLOUCESTER, CHURCHAM.—After a long, late and mild winter, and a cold late spring, came the loveliest summer ever remembered, with an extraordinary luxuriance of bud, blossom and fruit, grass alone being short. An unusual shrinkage of upper springs and surface ponds. Hardly any T.

TEWKESBURY, BECKFORD.—Absolute drought from May 10th to 28th and from July 3rd to 22nd inclusive. Engineer's drought, September, October and November, with 3·81 in. of R.

WEOBLEY, DILWYN.—From the middle of April to the middle of June less than an inch of R fell, accounting for the excessively light hay crop. Absolute drought from May 11th to 25th, and partial drought for 40 days from May 10th, with ·34 in. of R.

LUDLOW, ASHFORD HOUSE.—A great contrast to 1900, the R being nearly ten inches less. The last three months of 1900 produced 12·50 in. of R, but in the first seven months of 1901 only 13·50 in. fell. Only four months reached a total of two inches, whereas in 1900 no less than six months exceeded three inches. Absolute drought from May 11th to 25th and July 3rd to 21st, while from March 25th to April 16th there were 23 consecutive wet days. February, May and November had least R.

BRIDGNORTH, ALDENHAM PARK.—Water was scarcer in the last six months than at any other time during 25 years.

MUCH WENLOCK, WILLEY PARK.—R less than the average, and the district was very short of water during September, October and November.

PONTESBURY, SOMERVILLE.—R about 1·50 in. less than the average of 16 years.

LEIGH LODGE.—A great contrast to 1900 as regards R, the fall being 10·47 in. less than in that year.

LONG COMPTON, WESTON PARK.—The promise of 1901 was spoilt by cold R in April after severe frost in March, and by the cold, dry weather between April 15th and June 30th.

FARNBOROUGH.—R small, and great scarcity of water. Some sunshine on 227 days.

ALCESTER, RAGLEY GARDENS.—A fair year for all crops. Fruit plentiful, especially plums. The fourth driest year since 1883, and, but for the flood in December, 1900, crops must have suffered by the general dryness. The sudden changes of temp. were remarkable.

TENBURY, ROCHFORD.—Very dry ; February being particularly so, since only .12 in. of R fell between 5th and 26th. May had 16 consecutive dry days and July 18, while there were only eight rainy days in November.

KING'S HEATH, BRANDWOOD HOUSE.—R .27 in. above the average of 10 years.

MILVERTON, LATMOS.—R 5.88 in. below the average.

KENILWORTH, THE SPRING.—R 3.65 in. less than the average of 19 years.

COVENTRY, PRIORY ROW.—A late, cold spring ; very dry to the end of May. A beautiful summer and good dry harvest. No frost till November.

DIVISION VII.—NORTH MIDLAND COUNTIES.

HORNINGHOLD HOUSE.—The summer and autumn were far too dry for agriculture on the land about here. November was very dry, and December wet.

BELVOIR CASTLE.—R 5.22 in. below the average. Prevailing wind S.W. Duration of sunshine 1631.5 hours, or 130 hours above the average ; 59 sunless days.

GRANTHAM, LITTLE PONTON RECTORY.—Up to December the driest year since 1887. A very bad year for farmers, but lovely weather.

LEADENHAM RECTORY.—A dry year with deficient R, and very low springs in the late autumn. From the middle of November till December 23rd the weather was very cold, with a good deal of S, but thaws occurred from time to time. A good deal of fog in November.

TEMPLE BRUER.—Owing to drought a most serious year for Lincolnshire heath farmers. For weeks in autumn water for the stock had to be carted a distance of $3\frac{1}{2}$ miles.

HORNCastle, REVESBY. — The reservoir overflowed from

January 1st to May 1st, and again from December 12th to 31st. With the exception of three days in November, storage was drawn upon from May 4th to December 11th to keep up the supply of Boston. Although the R on December 12th was .44 in. greater than that of December 30th, 1900, the flow from the gathering ground was much less than on that occasion.

SPILESEY, BOSTON ROAD.—R .59 in. above the average of 10 years. February, March, April, June and December were above the average, and each of the other months below it.

LOUTH, GOSPELGATE.—R 1.19 in. below the average of 32 years.

BURTON-ON-STATHER VICARAGE.—Very dry up to October 31st, only 15.40 in. of R falling to that date. Many wells dry.

PLUMTREE, NORMANTON-ON-WOLDS.—R 1.55 in. below, and rainy days six above, the average of 11 years. Absolute drought from May 10th to 24th.

CROPWELL BISHOP, CROPWELL GROVE.—R 5.57 in. below the average of 29 years.

BINGHAM, WHATTON MANOR.—R .40 in. below, and rainy days one above, the average of 11 years.

NOTTINGHAM, BEESTON FIELDS.—R 1.83 in., and rainy days 14, below the average of 20 years. On November 30th the fall was 5.17 in. deficient, but the 5.76 in. in December nearly made it up and was the largest amount recorded in any month during 20 years.

NOTTINGHAM, STRELLEY.—The coldest year since 1892 and the sunniest since 1893. July and December were the only months with a large R.

MANSFIELD.—R below the average until the last two months. December had an exceptionally large total with several deep falls of S.

RETTFORD, BABWORTH HALL.—R about six inches below the average.

WORKSOP, HODSOCK PRIORY.—Some rather cold weather in February and March was followed by a very warm and bright spring and summer. Except for a showery week in July R was very deficient up to the end of October, but the closing weeks of the year were wet, reducing the deficiency to about 10 per cent. The day temperatures were high, but as the nights were rather cold the mean temperature of the year, 48°·1, is only very slightly above the average. The duration of sunshine, 1,436 hours, is more than in any of the previous 20 years except 1893. The harvest was an

early one, corn crops about an average though the straw was short ; the hay crop was a poor one and the roots were very bad ; fruit crops generally poor.

CHELLASTON.—R above the average only in March, July and December. The summer was in general very fine and warm, but July was remarkable for very heavy R on 24th and 25th. December was notable for violent gales, S storms and heavy R. The year opened and closed with great floods on both Derwent and Trent.

HAZELWOOD, CHEVIN.—Remarkable for long periods of drought or scanty R, and then great falls in a short time. R \cdot 20 in. above the average of 16 years.

DARLEY DALE, WHITWORTH INSTITUTE.—R the least for a number of years, the drought in the summer months being exceptionally severe. Very heavy floods however occurred in December, following cold weather.

DIVISION VIII.—NORTH WESTERN COUNTIES.

CHESTER, CHRISTLETON HALL. — The winter was cold with occasional S and raw cold winds, but without any long spells of frost. Spring was dry with fine bright days, but there was deficient moisture throughout. Summer was very dry and hot, the temp. on 13 days in July exceeded 80°, and September was the driest month of the year. Autumn was marked by frequent gales and dense fogs, the latter especially in the first week of November. December was wet, stormy, cold and unsettled.

CHELFORD, ASTLE HALL.—A dry year, the R being $5\frac{1}{2}$ per cent. below the average of 20 years. The winter was cold and the summer hot.

NESTON, HINDERTON.—R 1·57 in., or about five per cent., less than the average of 32 years.

WILMSLOW, PARKSYDE.—Wilmslow was only on the verge of the area affected by the drought which in the autumn so seriously affected the water supply of E. Lancashire and the W. Riding of Yorkshire. Yet the small September R was without parallel in the autumn months for 24 years.

AIGBURTH, KELTON.—R 4·09 in. below the average of 26 years.

BLUNDELLSANDS, PARK CORNER.—The driest year since the record began in 1876.

ORMSKIRK, AUGHTON SPRINGS.—A dry warm year, with an entire absence of TSS.

SOUTHPORT, HESKETH PARK.—Very dry and sunny, with R 7·43 in. less than the average, and less than in any year—except 1887—since the record commenced in 1871. Duration of sunshine 184 hours above the average. A singular deficiency of S.W. winds.

HASLINGDEN VICARAGE. — Remarkably dry, the R being the smallest for at least ten years. The only excessive fall was in November, when a continuous downpour on 11th and 12th yielded 3·71 in., three inches of which fell in 20 hours. It caused considerable floods and filled the reservoirs and lodges, putting an end to the scarcity of water which was becoming serious. Many of the cotton-mills had difficulty in obtaining sufficient water to run the steam engines, a difficulty seldom experienced in this hilly district.

ST. MICHAEL'S-ON-WYRE VICARAGE.—R 7·48 in. below the average. The driest year since 1887.

CHATBURN MIDDLEWOOD.—R 5·93 in. less than the average of 13 years.

HAMPSON-IN-ELLEL.—R probably the least recorded by any observer in this district for many years. In March and November only was the average exceeded, and in eight months the fall varied from ·50 in. to 1·50 in. below the average. Absolute drought from May 11th to 25th.

CATON, ESCOWBECK.—The least R since 1887, and, with that exception, the least since the record began in 1860. The total from April to September inclusive was the least ever recorded.

WRAY VICARAGE.—R 10·61 in., and rainy days 30, below the average of 11 years.

ARKHOLME, STORRS HALL.—The driest year, except 1887, for 35 years. R for six months, from March to September, only 11·49 in. Many springs failed about the end of July, and did not run again till the middle of November.

GRANGE-OVER-SANDS, BELMONT.—The year was characterised by dryness and geniality, except during November and December, which were wet and stormy.

CARTMEL, BROUGHTON HALL. — R the smallest for 32 years, excepting 1887.

BROUGHTON-IN-FURNESS. — Comparatively dry. No very great deluges of R on single days, nor any long-continued periods of heavy

R such as are usually noticeable in this locality, especially in autumn and early winter.

CARTMEL FELL VICARAGE.—Abnormally dry, the R being 11·49 in. below the average of nine years.

DIVISION IX.—YORKSHIRE.

WATH-UPON-DEARNE, CHAPEL STREET.—R two inches below the average. Very dry to the end of October, afterwards the R was much above the average. Warm, with 1,502 hours of sunshine: much more than the average. The last frost of spring was on March 28th, and the first of autumn on October 10th. Absolute drought from May 9th to 25th.

MELTHAM, HAREWOOD LODGE. — Extremely dry till November 10th, afterwards very wet, the resulting R being 15 per cent. below the average. The water supplies of the large towns of the district were so depleted in consequence of a dry summer, followed by an exceptionally dry September, that the scarcity of water was more severely felt than in any of the past thirty years. The last 50 days of the year produced more than one-third of the total R. TSS were of about average frequency, several occurring at unusual times, but none were severe. The sixth year in succession with temp. above the average, but only slightly so. July was the hottest month in 23 years, and July 18th, with max. temp. 86°·9, the hottest day in the same period.

HEMSWORTH HALL.—R ·71 in. below the average of ten years. Ponds, ditches and many springs were quite dry till the R of November 11th.

WAKEFIELD, WALTON.—R less than in any year (except 1898), and grass poorer and more burnt up than in any year since 1864.

HUDDERSFIELD, DALTON.—Very dry, and a water famine occurred in October. A heavy R broke up the drought on November 11th and 12th.

WAKEFIELD, STANLEY GRANGE.—Absolute drought from 11th to 25th of May. June very dry, the R being 1·61 in. below the average. July was the warmest for years, with heavy R during the last nine days. August very bright and warm, with R 1·61 in. below the average. September dry and warm. October R 1·22 in. below the average. The total for the ten months ending October being 6·45 in. less than the average. November R 1·33 in. above the

average, and December wet. Total for the year 3·68 in. below the average.

TODMORDEN, FIELDEN HOSPITAL.—Spring and summer were extraordinarily dry, and caused much inconvenience through scarcity of water. Heavy R and serious floods in November.

HALIFAX, HALL INGS, S. OWRAM.—Extremely dry till November 11th, but 12·83 in. of R fell in November and December. Absolute drought from May 10th to 24th.

HALIFAX, PUBLIC LIBRARY.—Considerable scarcity of water and fears of a water famine. The supply to the public was limited for a time to a few hours a day instead of being continuous.

BRADFORD, HORTON.—The principal feature was the long dry period from May to November 11th, a small R and warm sunny weather reducing the supply in reservoirs to an exceedingly low point. The drought was broken on November 11th, the R on that and the following day amounting to 3·62 in., and causing great floods in the hilly districts of W. Yorks.

LEEDS, ALLERTON HILL.—The city of Leeds water supply was turned off from 7 p.m. to 5 a.m. from November 7th to December 13th in consequence of continued drought.

LEEDS, OLIVER HILL, HORSFORTH.—Very dry. Absolute drought from May 10th to 24th. No really heavy fall of R until November, when 2·04 in. fell on 12th and 13th. December was very wet and cold, with an unusual amount of frost before Christmas.

ILKLEY, EATON ROAD.—Dry, with the exception of the last two months. The summer was exceedingly fine and sunny, and July was very warm. In most other months the temp. was below the average, November being especially cold with 14 frosty nights in screen.

SLAIDBURN, WHITEHOLME.—R 6·65 in. less than the average of 13 years.

SKIPTON, "CRAVEN HERALD" OFFICE.—R about 8·00 in. less than the average, though four inches more than in 1887.

HARROGATE, HARLOW HILL.—R 4·93 in. below the average of 18 years. Absolute drought in May.

SEDBERGH, BRIG FLATS.—R nine inches below the average.

THIXENDALE.—The early part was mild with a good deal of fog. Much dull cold weather in May and June, but R deficient from April to June, being nearly two inches below the average of those months

for ten years. Harvest was very early, and nearly finished by the end of August. Owing to deficient R the springs in November and December became so low as to cause anxiety as to the supply of water.

BALDERSBY.—At the end of October there was a deficiency of R of five inches, or 25 per cent. The heavy R in the middle of November and the S storms of December however brought the yearly total, about 3·00 in., nearer to the average.

THIRSK, SOWERBY. R 3·50 in. below the average of 22 years.

BEDALE, BURNESTON.—R about 2·50 in. less than the average, and almost exactly the same as in 1888 and 1893.

AYSGARTH VICARAGE. In the early part there were frequent very light showers ; towards the end there were heavy falls and few days with small R. A droughty summer, most of the showers drying up within an hour.

LEYBURN, BOLTON HALL. — R 1·18 in. below the average of 25 years.

INGLEBY MANOR.—R ·09 in. below the average of ten years, and rainy days much below the average. February, July, November and December had more than average R, particularly the two latter.

EAST LAYTON.—Paucity of R up to November 12th (when 2·80 in. fell) led to a water famine.

MIDDLESBROUGH, ORMESBY.—A fine warm year, with R above the average. Out of the 204 days of measurable precipitation, 14 were accounted for by heavy dew. S or sleet fell on 44 days.

DIVISION X.—NORTHERN COUNTIES.

DARLINGTON, CLEVELAND PARADE.—R only a little less than the average, but very unevenly distributed. Out of a total of 24·79 in. only 9·00 in. fell in the first six months and 8·15 in. in the last two. The driest month was September and the wettest November.

WEARHEAD.—November and December were very wet with much S in December, the remainder of the year was excessively dry ; particularly in the summer months when R was most needed.

SUNDERLAND, WEST HENDON HOUSE.—The R was closer to the 30 years' average (·49 in. above) than in any year since 1892. The year as a whole was fine, the R falling in large amounts at a time. There was only one absolute drought, in May, and no partial

drought. The fall exceeded 1·00 in. on three days. S.W. winds were deficient, and when they blew brought least rain; most fell, proportionally to duration of wind, from N., N.E. and N.W. Land and sea breezes were noticed more frequently than usual. Cloud and fog were above the average.

RYTON ON-TYNE.—A small R for the first six months. The extraordinary continuous R of 3·56 in. on November 11th to 13th was the most noteworthy feature of the year.

ROTHBURY, CRAGSIDE.—The year had 1,678 hours of bright sunshine.

PAWSTON [COLDSTREAM].—The harvest was got in with less delay than usual, and in good order though light.

MILLOM, LEYFIELD.—R ·61 in., and rainy days six, below the average of 11 years, and the smallest R in 12 years. Absolute drought from May 11th to 25th.

SEASCALE, WHINTHWAITE.—R 5·58 in. below the average of 12 years.

KESWICK, SHU-LE-CROW.—R 10·52 in., and rainy days 13, below the average of 25 years, being the fourth lowest fall since 1873. First S on Skiddaw on November 12th.

COCKERMOUTH, BROUGHTON GRANGE.—A very dry spring and summer, and very wet autumn. R five inches below the average of 30 years.

PENRITH, FIR BANK.—A splendid summer, during which the gardens never suffered from want of rain; although, in spite of the wetness of December, the annual fall was much below the average.

ARMATHWAITE HALL.—R considerably less than the average. Absolute drought from May 11th to 25th inclusive, and from June 25th to July 13th. The water supply was lower during the summer months than ever remembered.

BRAMPTON, DENTON HOUSE.—Characterised by a great deficiency of grass and a small rainfall. R 8·50 in., and number of rainy days 32, below the average of 15 years.

APPLEBY, CASTLE BANK.—The smallest R in 11 years.

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS.

CHEPSTOW, SHIRENEWTON HALL.—A cold year with small R, the total fall being 6·76 in. below the average. Frost in screen on 90 nights and on grass on 134.

LLANFRECHFA GRANGE.—R far below the average, and much inconvenience from shortness of water. Good harvest weather in June, July and August, but short crops.

TREDUNNOCK.—R six inches below the average, and springs very low for the last five months.

ABERGAVENNY, DYNE HOUSE.—R 4·79 in. below the average of 16 years. The total would have been very low but for the fall in the last nine days of December. May, June, July and August were dry. Good fruit crops, especially pears and plums.

C'OWBRIDGE, FONMON CASTLE.—The smallest R since 1890, and seven inches less than the average of 17 years. December was considerably the wettest month, and May had the smallest R, though February had fewer wet days. October and November were unusually dry.

OYSTERMOUTH, NEWTON.—The year and century began fine, dry and cold. In a spell of 20 days in February only ·06 in. of R fell. T and L in the first week of March, 18 dry days in the middle and S at the end. The first part of April wet, then dry to the close of May, broken by a TS on May 8th, a spell of 43 days having only ·20 in. of R. June and July were dry and hot, with occasional heavy showers and T at the end. September was wet and sunless, October stormy with a few fine days. Many fine dry days in November. Weather broke up on December 5th, and more than 8·00 in. of R fell before the close of that month.

SWANSEA, GLANMOR CRESCENT.—R 4·22 in. below the average of ten years.

NEATH, FAIRY LAND.—R 8·23 in. below the average of 16 years.

MARGAM, TWYN-YR-HYDD.—A year of unusual drought, notably in February and November, months which usually are very wet.

ST. DAVID'S.—The first and last quarters were generally wet and unsettled. May was the driest and December the wettest month. September and October were also wet, and the uncertainty of the weather and R much impeded the getting in of the corn crops.

STRATA FLORIDA, HAFOD.—Winter rainy ; cold weather in March followed by some warm days in April. A very dry May with some frosty nights, followed by dry weather in the early part of June, reduced the hay-crop.

CRICKHOWELL, GWERNVALE.—R much below the average, the deficiency being very marked in May and November. There were

two periods of 19 days without R. The year was unusually free from heavy destructive R, as on only four occasions did 1·00 in. or more fall. December was wet, and without its heavy fall of 6·38 in. the year's total would have been very far indeed below the average.

LLANDEGLEY, GWERN-I-ARGLWYDD.—A very dry summer, and short crops. In December occurred the heaviest fall of S on Radnor Forest for 50 years ; a great many sheep perished.

WELSHPOOL, POOL QUAY VIC.—R 1·24 in. above, and rainy days 11 below, the average. Subsoil very dry and all wells low ; at the same time there was no long period without R.

ROSSETT, TREVALYN HALL.—R 1·12 in. below the average. The first ten months showed a considerable deficiency of R, which was in a great measure made up by the heavy fall of November and December.

LLANGERNIEW, HAFODUNOS.—Severe drought in July, August and September, and all springs ran dry. Practically there was no R from June 24th to July 24th, and May had only 1·45 in. ; the scarcity continued till the heavy fall of 2·41 in. on November 12th. R for the year above the average, December alone yielding 8·42 in.

DENBIGH, GARN.—Although this district suffered much from want of R in May and the fall in September was exceptionally small, the total for the year is ·67 in. above the average of ten years.

DOUGLAS, WOODVILLE.—January was damp and cold, with some heavy S. February and March were the coldest for some years, and the long winter was prolonged to mid-April when a sudden change for the better was welcomed and proved to be permanent. May was beautiful, but June turned out cold and ungenial, though the remainder of summer was generally fine to the end of September. Heavy R set in with October and continued to the end of the year. Winter began with a heavy fall of S in the middle of November. December was more than usually stormy.

ST. MARTIN'S, LES BLANCHES.—By far the driest of the last eight years. Excepting March, April and December, the R of every month was very deficient. Absolute drought from May 10th to 28th and October 26th to November 10th, and partial drought from May 9th to June 18th, ·39 in. of R falling in 41 days. Ten daily falls exceeded ·50 in., and only one exceeded 1·00 in.

SCOTLAND.

DIVISION XII.—SOUTHERN COUNTIES.

WHITHORN, CUTROACH.—R for the first nine months considerably less than the average, but fairly distributed ; the last three months made up the fall to the average of six years, October being the wettest month since the record commenced.

KIRKPATRICK DURHAM, GLENLAIR.—A very dry and hot summer, said to be the driest for 30 years. Several springs failed.

DUMFRIES, IVY BANK.—R 2·96 in. below the average of 15 years.

HAWICK, BRANXHOLME.—A fine year on the Border as far as pleasant outdoor weather was concerned. The drought of July, August and September damaged the turnip crop in the lower lands, and young grass also suffered.

MELROSE ASYLUM.—R 1·59 in. above, and rainy days 13 below, the average of 19 years. In 20 years August has five times furnished the greatest fall, while January, July, September, October, November and December have each done so twice ; March, May and June once, and February and April not at all.

DIVISION XIII.—SOUTH-EASTERN COUNTIES.

DRUMMORE [MUSSELBURGH].—August was the wettest month and July the driest. S fell on 14 days.

STOW, BURNHOUSE.—R 4·69 in. less than the smallest fall in nine years.

EDINBURGH, GEORGE SQUARE. — An ordinary year's R. The summer drought, culminating in July, was made up for by plentiful R in August.

LINLITHGOW, NETHER PARKLEY.—A good deal of frost occurred in the early part. The drought of the late summer and early autumn was much felt. The town water-supply was quite exhausted and springs were very low.

DIVISION XIV.—SOUTH WESTERN COUNTIES.

HAMILTON, ARDENCLUTHA.—R rather more than 2·00 in. below the average of 12 years. Summer was unusually fine with light R, but autumn and winter hastened to make up for lost time and nearly

succeeded. On ten days S fell, and there was a week of hard frost in December.

GLASGOW OBSERVATORY.—R 5·20 in. below the average of 33 years, only seven years have had less R. April and June were the only months with R above the average.

DUNLOP, DUNLOP HOUSE.—R below the average and unusually uniformly distributed.

DIVISION XV.—WEST MIDLAND COUNTIES.

STIRLING, POLMAISE GARDENS.—Exceedingly fine and dry ; all crops appeared to do well.

BUCHLYVIE, THE MANSE.—Bright, sunny and dry. R 7·60 in., and rainy days 12, less than the average of 12 years. The deficiency was caused not so much by long spells of dry weather as by the general lightness of the R, for only in April, June and October were the monthly totals even slightly above the average.

BALLACHULISH, ARDSHEAL.—R 10·09 in. below the average of ten years.

DIVISION XVI.—EAST MIDLAND COUNTIES.

KINROSS, GELLYBANK.—The smallest R yet recorded here. A very dry February, followed by a long drought including the end of June, the whole of July and part of August, caused a great scarcity of water in springs and wells, and a very short crop of straw, but brought on an early harvest.

LOCHWINNOCK, GARTHLAND.—There were 40 days on which ·50 in. or more of R fell, and on seven the fall exceeded 1·00 in.

STRATHMIGLO.—The deficiency of R amounted to 6·94 in. on November 30th, but December with its S and R reduced the shortage for the year to 5·61 in.

LOCHEARNHEAD, ARDVORLICH.—S fell early, and continued from December 13th to 31st. There is a marked contrast between November and December, 1900, with nearly 25·00 in. of R, and the same months of 1901, with only 9·77 in.

COUPAR ANGUS STATION. — R 1·50 in. below the average of 20 years. March, April, May, August and December had more than the average, and the other months less. April, May, July, August and September were unusually warm.

ARBROATH, DISHLAND HILL.—The most noteworthy features were the small R and the great amount of sunshine. R 3·11 in. below the average of 12 years.

FORFAR, LILYFIELD.—R moderate on the whole, April, August and September bringing up the total to nearly an average.

RESCOBIE, PITSCANDLY.—From an agricultural point of view the R was not well distributed, besides being deficient in amount. No scarcity of water occurred here.

DIVISION XVII.—NORTH EASTERN COUNTIES.

FETTERCAIRN, THE BURN.—The smallest R since 1893, and a very marked contrast to 1900. Had it not been for the R at the end of December the total would have been very small indeed. In May, June and July only 4·41 in. fell.

CROMAR, TILLYPRONIE.—A warm summer and several heavy TSS. Very heavy S and sleet storms in December.

ELLON, MAINS OF WATERTON.—Persistent deficiency of R from April 18th to the middle of December.

ELLON, KERMUCK. — The spring was cold and backward, with S storms running into April. The summer was unusually fine and sunny, and the autumn broken and changeable.

CRAIGELLACHIE, WESTER ELCHIES SCHOOL.—Two spells of dry weather occurred, only ·43 in. of R falling from May 10th to June 10th, and only 1·30 in. from August 11th to September 30th. Springs dried up at the end of September, and continued dry till the end of November.

DIVISION XVIII.—NORTH WESTERN COUNTIES.

KINTAIL, THE GLEBE.—Less R during the harvest than for a great many years. Aged people say that the beginning of this winter reminds them of the weather conditions of 40 years ago, frost and S in December not having been common of late years.

N. UIST, LOCHMADDY.—R more than 10·00 in. below the average.

FORT AUGUSTUS, ST. BENEDICT'S.—This year stands third among the years of least R since 1884.

LOCH NESS, DRUMNADROCHIT.—R 2·73 in., and rainy days four, below the average of 16 years. The shortage took place from April

to November, May, July and September having only 33 rainy days. During the S storms of December the yield of melted S was 3·41 in., equal to about 40 inches of dry S.

DIVISION XIX.—NORTHERN COUNTIES.

FETLAR, THE MANSE.—Favourable on the whole for crop and stock. Very little R in spring, and very little mist or T. Some gales, though not so severe as further S. No S to speak of.

IRELAND.

DIVISION XX.—MUNSTER.

CORK, WELLESLEY TERRACE.—R ·06 in., and rainy days 19, below the average. Mean temp. 3°·2 below the average. Frost in air on 77 days, and on grass on 134 days.

MALLOW, SUMMER HILL.—R ·18 in. less than the average of 12 years. The fall for September was probably unprecedented, including four falls of considerably over an inch, and being 7·03 in. above the average.

DARRYNANE ABBEY.—The driest year for 22 years, the early months being remarkably dry. The snipe bogs were very much dried up, and wells were very low throughout.

CLONMEL, BRUCE VILLA.—R 5·25 in. less than the average.

DERRY CASTLE [KILLALOE].—R 8·8 per cent., and rainy days 8·75 per cent., below the average. May was the driest month, and, excepting 1896, the driest May for 25 years. September was the wettest month, and, excepting 1885 and 1896, the wettest September in 25 years.

NENAGH, CASTLE LOUGH.—On the whole a very pleasant year. In January, March, April and September the R was above the average, September being the only month much in excess. October and November had practically the average, and the remaining months were below, the total deficiency for the year being about 3·50 in.

NENAGH, HIGHLANDS.—The early months were generally mild, with not much hard frost and little S, but more R than usual. The fall was rather light in April, May and June, and the ground did not

get burnt up, but crops would have done better with more R. July was dry, and the early grass crops were well saved but light. R fell more plentifully in August, and September had the largest total of any month in the year ; but fortunately most of the harvest had been secured before it got much damaged.

LIMERICK, ROXBOROUGH.—R about 3·00 in. less than the average of 12 years. Dull and damp in autumn and mild in winter. The year was generally deficient in sunshine.

BROADFORD, HURDLESTOWN.—R ·19 in. below, and rainy days 4 above, the average of 16 years.

MILTOWN MALBAY.—Until July cold and dry with no vegetation. Almost continuous R for the remainder of the year. No great storms and no T from May 3rd to December 8th, a most unusual circumstance.

LAHINCH, MOY HOUSE.—Till October 1st the year was the driest since 1896, the fall of 16·04 in. in the first seven months being unusually small. There were 16 consecutive dry days from May 11th to 26th. September was unusually wet.

DIVISION XXI.—LEINSTER.

GRAIGUE, BRANDONDALE.—Remarkably fine, except August and September. September beat the record for 18 years, having more than double the average R.

KILKENNY, SION VILLA.—The first four months were generally wet, stormy and cold. May and June were fine, though changes in temp. were frequent in the latter. Perfectly charming weather in July and August, with a long continuance of intense heat, but on August 25th a great change set in, and very cold, wet weather prevailed to the end of October. November was fair, but cold, with frequent frosts, fogs and gales. December was cold, dark and damp ; storms and gales were frequent.

ABBAY LEIX, BLANDSFORT.—R ·97 in. above the average of 25 years.

BALLYBRACK, STREAMVILLE.—R ·85 in. less than the average of 20 years.

KILLINEY, CLONEEVIN.—R ·84 in. above the average of 16 years. S, sleet or H were noted on 16 days. Absolute drought for 15 days

occurred in May, and from November 14th to December 4th there were 21 days with a total fall of .16 in.

RATHMINES, TERENURE.—In the first seven months the fall of R was very light, and the year was the driest since 1893.

DIVISION XXII.—CONNAUGHT.

WOODPARK [SCARIFF].—A fine year. No S after January. Fine and hot in July. Slight frosts in December.

CONG, THE GLEBE.—R, and rainy days, much below the average. The most peculiar circumstance was the almost total absence of TSS for many months. They used to occur on an average once every 84 days, but there have been none since August 15th, 1900, and T was heard on only two days in 1901, in January and December.

COLLOONEY, MARKREE OBSERVATORY.—R more than 3.50 in. above the average of 25 years.

BALLYSADARE BAY, GLEN LODGE.—A late spring and a fine summer. Wet from September to the end of the year.

DIVISION XXIII.—ULSTER.

BALLYCONNELL HOUSE.—R 1.52 in., and rainy days 4, above the average of 9 years.

LURGAN, BELLE VUE.—R .18 in. below the average of 10 years.

BELFAST, SPRINGFIELD.—The finest year since 1893, mainly attributable to fine spells in May and July. A very satisfactory year for agriculturalists on the whole.

LONDONDERRY, THE ASYLUM.—Mild, with very little frost and S during the winter, but S in the last week of March. The spring was very mild and genial; summer was delightful, a fine sultry atmosphere making it ideal weather for vegetation. Autumn was calm and pleasant. Very stormy weather in August and December.

OMAGH, EDENFEL.—Notwithstanding a late and wet seed-time the favourable summer months gave an early and abundant harvest, fortunately saved before the autumn R, which from September to December aggregated 18.20 in., or about half the yearly average.

LOUGH SWILLY, CARRABLAGH.—R two inches less than in any other year since the record commenced in 1888.

HEAVY RAINS IN SHORT PERIODS.

It is difficult to determine what records should be excluded from this section of *British Rainfall*, inasmuch as it necessarily includes two distinct classes of phenomena. First, and essentially, intense rains of short duration usually produced by thunderstorms; but these are frequently prolonged with varying rate of fall for several hours till there is little to distinguish them—as falls of rain *per se*—from the second class of phenomena, namely, the heavier sections of prolonged rains of winter type usually produced by the passage of barometric depressions.

Under these circumstances we have perhaps erred on the side of inclusiveness, and quote several records which are of interest, but could not justly be termed short period rains.

The table contains 106 entries, distributed over 38 different days, extending from the end of May to the middle of December.

Practically all the entries from May to October were rains of the first class—*i.e.*, of the character associated with thunderstorms. They include 75 entries on 31 days, and on no fewer than 23 of these days either thunder, or thunder and lightning, were reported from some station or stations in the United Kingdom.

The remaining 31 entries are all in November and December, and although electrical phenomena were manifested on one of the days, the records are all the product of rains of winter type.

The records may be grouped as follows :—

Summer Rains.

Month.	No. of entries.	No. of days.	No. of days with T.	Duration of Rain.	
				Least.	Greatest.
May	1	1	1	18 min.	18 min.
June	5	4	2	5 „	24 hours
July	42	11	11	2 „	12 „
August	18	6	5	5 „	10 „
September...	6	6	2	5 „	30 min.
October	3	3	2	5 „	1 hour

Winter Rains.

November...	27	3	0	1 hr. 30 min.	52 hours
December...	4	4	1	5 „ 30 „	29hr. 30min.

This shows clearly how the records congregate at the thunder-storm season, for six-tenths of them fall in the two months July and August.

Until the end of June the instances are disconnected, but from June 29th to July 2nd we have five records and indications of electrical disturbance. A few more occur about the middle of July, and from the 24th to 29th we have a well-marked period of thunderstorms, with 34 records distributed over the six days, the greatest number on any day being 16 on the 25th. From August 10th to 12th we find another period of electrical disturbance marked, especially on the 10th, by the production of exceptionally violent hail storms, and this day yields 11 entries to the table; the only other dates round which the summer records group themselves are August 26th and 27th, September 23rd and 24th, and October 2nd, but the numbers are insignificant.

The next dates calling for mention are November 10th to 12th, which yield 25 instances of heavy rains of longer duration, dates which crop up repeatedly all through the volume as days of exceptional rainfall phenomena, and which in parts of the country gave the first relief from the drought of the summer and autumn: December 12th and 13th—the days of the great gale and snowstorms—yield the only remaining records that call for comment.

Turning now to the individual entries in the table, we find that there are no fewer than 19 marked with a **x**, which, as in former years, indicates that they are exceptional. The most remarkable are :—

Date.	Div.	Station.	Amount.	Duration.		Rate per hour.
			in.	hr.	min.	in.
July 29 ...	II.	Wadhurst, Low.Cousley Wood	3·25?	...	55	3·55
„ 12 ...	„	Maidenhead, Lowood	3·63	1	0?	3·63
„ 25 ...	„	Farnham, Short Heath Lodge	3·23	2	0	1·62
Aug. 10 ...	XIII.	North Berwick Reservoir.....	3·00?	2	0?	1·50
„ „ ...	XII	Lilliesleaf, Riddell	2·79	2	0?	1·40
July 25 ...	II.	Farnham, The Bourne Vic. ...	3·32	2	10	1·53
„ 12 ...	III.	Wooburn, The Chestnuts.....	4·10	6	0?	·68

It will be seen that these seven records are distributed over four different days, and represent four distinct rains.

The 19 exceptional values (marked **x** in the table) all occurred on six days—nine of them on July 25th; but no fewer than seven of these were provided by the recording gauge at Camden Square.

This is a very clear example of the way in which the records of heavy falls would be increased by the multiplication of recording gauges.

Making allowance for this, we have :—

For July 12th.....	3 exceptional entries.
„ „ 25th.....	3 „ „
„ Aug. 10th.....	3 „ „
„ July 29th.....	2 „ „
„ Oct. 3rd.....	1 „ „
„ Nov. 12th.....	1 „ „

showing clearly that these were the days of most intense rain in 1901.

It may be of interest to devote a few words to each of these days :—

July 12th was the day of the great rain at Maidenhead, and thunderstorms were general over the upper watershed of the Thames, but appear to have been limited to that area.

July 24th to 29th.—This was evidently the great thunderstorm period of 1901 ; but the storms appear to have been practically confined to England and Wales and the border counties of Scotland, being most marked in the southern half of England and Wales ; and on the 25th this period produced the “max. fall” at between 300 and 400 stations, showing, as would naturally be expected, much the same distribution as the “heavy falls in short periods.”

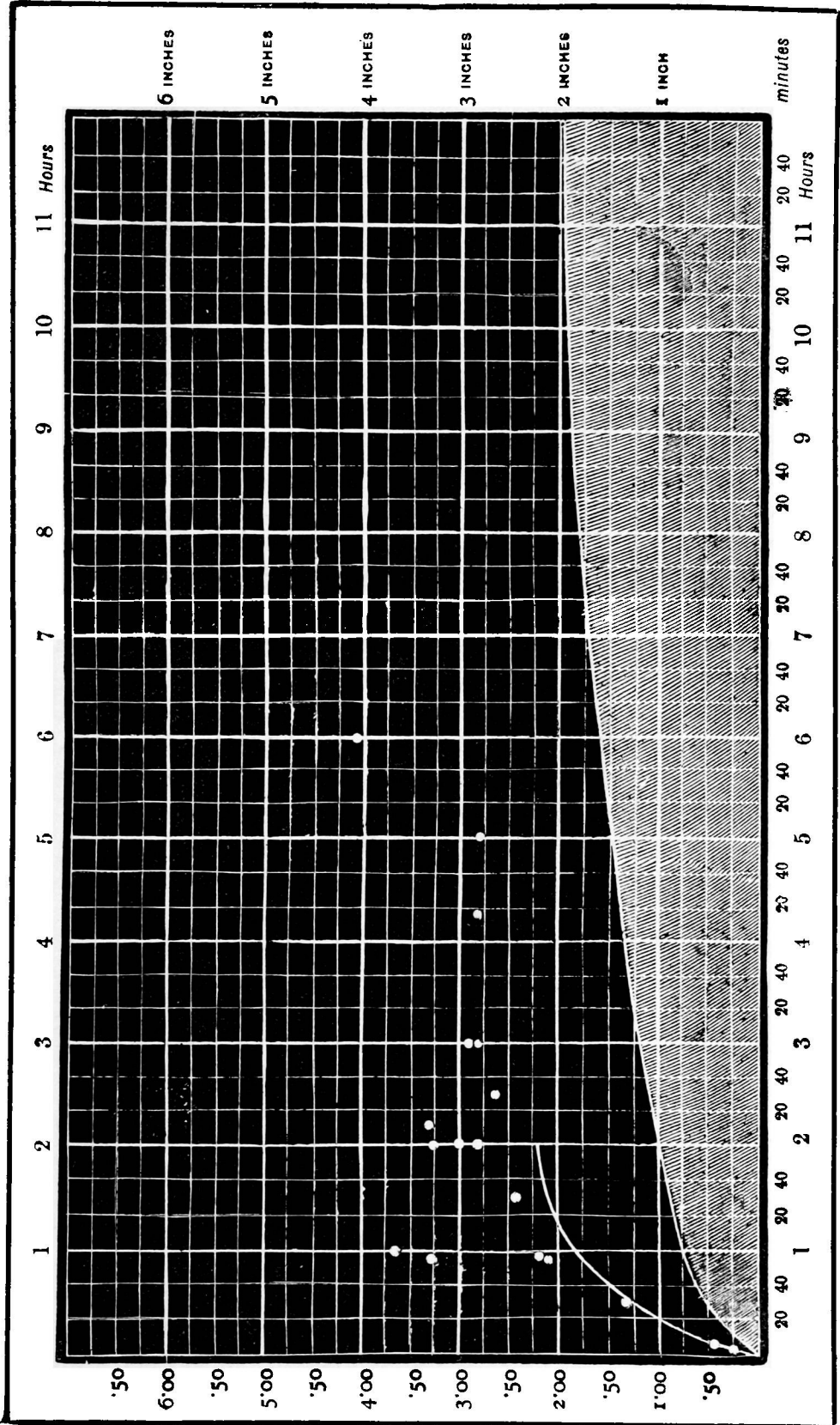
August 10th was a notable day of intense fall over an area stretching from Nottinghamshire to the North of Scotland, and in the south of that country produced destructive hail storms. It also yielded the “max. fall” at many stations in the same district.

October 3rd.—An isolated and local rainfall, for the main feature of the day appears to be an absence of anything calling for special remark.

November 10th to 12th, which yields 27 entries in the table, mostly of falls of considerable duration, yielded the greatest rainfall of the year in the North of England and in Ireland. This rain is dealt with more fully in the section of “max. falls,” to which, from its main characteristics, it more properly belongs. The same remark applies to December 12th and 13th, which produced the “max. fall” at a greater number of stations than any other period of the year, mostly at English stations. The entries in the table under consideration are almost all from Central England.

The following table shows a method adopted in some former years of arriving at a rough indication of the importance of the “heavy falls in short periods” in 1901 as compared with former years :—

HEAVY FALLS IN SHORT PERIODS.



To face p. [103].

The shaded portion represents falls too numerous to require insertion; the short white curve, extremes rarely exceeded.

Entries of less than Two Hours' duration.

Year.	Number.	Average rate per hour.
1892	30	2·07
1893	49	1·86
1894	52	1·68
1895	71	1·81
1896	53	1·51
1897	73	1·95
1898	40	1·73
1899	85	1·80
1900	53	2·04
Mean	56	1·83
1901	55	1·83

From it we see that both the number of records of *short period* falls and the rate of fall are curiously close to the average, showing that, as a whole, the heavy falls in short periods in 1901 were quite normal in character.

Heavy Falls in Short Periods in 1901.

Date.	Div.	Station.	Amount.	Duration.	Rate per hour.
			in.	hr. min.	in.
July 25 ...	I.	London, Camden Square, N. W.	·23	... 2	6·90 x
June 21 ...	XVIII.	Fort William Observatory ...	·20	... 5	2·40
Sept. 11 ...	VI.	Ross, The Graig.....	·20	... 5	2·40
Aug. 11 ...	,,	King's Heath, Cambridge Rd.	·18	... 5	2·16
July 27 ...	,,	,, ,,	·17	... 5	2·04
Oct. 1 ...	,,	,, ,,	·14	... 5	1·68
July 25 ...	I.	London, Camden Square, N. W.	·45	... 6	4·50 x
Sept. 24 ...	IX.	Wakefield, Stanley Grange ...	·38	... 8	2·85
,, 20 ...	VIII.	Rochdale, Fieldhead	·12	... 9	·80
July 1 ...	V.	E. Harptree, Harptree Court.	·29	... 11	1·58
Aug. 10 ...	VII.	Plumtree, Normanton-on-Wolds...	·25	... 11	1·36
Sept. 26 ...	XVII.	Fettercairn, The Burn	·72?	... 15	2·88?
July 25 ...	I.	London, Camden Square, N. W.	·71	... 15	2·84
Aug. 26 ...	X.	Sunderland, The Cedars	·50	... 15	2·00
July 29 ...	II.	Ticehurst, Whiligh	·45	... 15	1·80
Aug. 12 ...	III.	Chipping Norton, Kingham...	·30	... 15	1·20
Sept. 21 ...	,,	Slough, Upton	·28	... 15	1·12
May 29 ...	VI.	King's Heath, Cambridge Rd.	·52	... 18	1·73
July 25 ...	III.	Oxford, Mag. Coll. Laboratory	·85	... 20	2·55
,, ,,	I.	London, Camden Square, N. W.	·83	... 20	2·49
,, 26 ...	V.	Marlborough, Mildenhall.....	·70	... 20	2·10
,, 27 ...	II.	Bishops Waltham, Northbrook Ho.	·42	... 20	1·26
June 29 ...	V.	Rousdon [Lyme Regis].....	·40	... 20	1·20
July 25 ...	VI.	King's Heath, Cambridge Rd.	·30	... 20	·90
,, ,,	I.	London, Camden Square, N. W.	1·34	... 28	2·87 x

Heavy Falls in Short Periods in 1901—continued.

Date.	Div.	Station.	Amount.	Duration.	Rate per hour.
			in.	hr. min.	in.
June 30 ...	II.	Ryde, New Lodge	1·05	... 30	2·10
July 19 ...	X.	Angerton Hall.....	1·00	... 30	2·00
Oct. 2 ...	III.	Cambridge, Benet Place	1·00	... 30	2·00
Sept. 23 ...	X.	Whitehaven, Irish Street.....	·66	... 30?	1·32?
July 24 ...	V.	Rousdon [Lyme Regis].....	·60	... 30	1·20
„ 27 ...	II.	Bagshot, Hall Grove	·60	... 30	1·20
June 24 ...	IV.	Great Glemham	·58	... 30?	1·16?
July 26 ...	VI.	Harescombe Grange	·45	... 30	·90
Aug. 26 ...	II.	Hartley Wintney	·86	... 35	1·47
July 24 ...	XI.	Abergavenny, Dyne House ...	·87	... 45	1·16
„ 29 ...	III.	Watlington, Pyrton Manor ...	2·10	... 53	2·38 x
„ „ „	II.	Wadhurst, Low.CousleyWood	3·25?	... 55	3·55?x
„ 25 ...	I.	London,CamdenSquare,N.W.	2·20	... 55	2·40 x
„ 12 ...	II.	Maidenhead, Lowood	3·63	1 0?	3·63?x
Oct. 3 ...	VII.	Brigg.....	1·86	1 0	1·86 x
July 24 ...	XII.	Lilliesleaf, Riddell.....	1·60?	1 0?	1·60?
„ 26 ...	III.	Elm, Grove House.....	1·52?	1 0	1·52?
„ 28 ...	VI.	Dursley, Farnley	1·50	1 0?	1·50?
„ „ „	II.	Clayton Rectory.....	1·37	1 0?	1·37?
Aug. 10 ...	XIII.	Galashiels, Abbotsford Road..	1·14	1 0	1·14
July 13 ..	V.	Calne, Calstone Rectory	1·12	1 0	1·12
„ 2 ...	II.	Haslemere, Hazelhurst.....	1·00?	1 0	1·00?
Aug. 12 ...	III.	Blisworth, Grafton House ...	·80	1 0	·80
„ 10 ...	XVII.	Crathes, Pinewood.....	·75	1 5	·69
July 25 ...	I.	London,CamdenSquare,N.W.	2·43	1 30	1·62 x
Aug. 10 ...	XXIII.	Banbridge, Milltown.....	1·50?	1 30	1·00
July 29 ...	V.	Broadchalke	1·31	1 30	·87
Aug. 10 ...	X.	Brampton, Denton House ...	1·31	1 30	·87
Nov. 12 ...	IX.	Meltham, Harewood Lodge...	·81	1 30	·54
July 27 ...	II.	Bournemouth, Kempsey	1·81	1 50	·99
„ 25 ...	„	Farnham, Short Heath Lodge	3·23	2 0	1·62 x
Aug. 10 ...	XIII.	North Berwick Reservoir.....	3·00?	2 0?	1·50?x
„ „ „	XII.	Lilliesleaf, Riddell.....	2·79	2 0?	1·40?x
„ „ „	XIII.	Galashiels, Abbotsford Road .	1·77	2 0	·89
„ „ „	X.	Patterdale, Greenside Mine...	1·45	2 0	·73
July 25 ...	II.	Farnham, The Bourne Vic....	3·32	2 10	1·53 x
Aug. 27 ...	„	Hastings, St. Helen's Crescent	1·00	2 15	·44
July 25 ...	I.	London,CamdenSquare,N.W.	2·66	2 30	1·06 x
Aug. 10 ...	XVI.	Forfar, Lilyfield	1·34	2 30	·54
July 25 ...	III.	Oxford, St. Giles	1·20	2 40	·45
Aug. 10 ...	XIII.	Galashiels, Abbotsford Road .	2·91	3 0	·97 x
Nov. 12 ...	VIII.	Bolton, The Park	2·80	3 0	·93 x
July 25 ..	III.	Welwyn, Datchworth Rectory	1·68	3 30	·48
„ 24 ...	X.	Pawston [Coldstream]	1·50	3 30	·43
„ 25 ...	I.	London,CamdenSquare,N.W.	2·85	4 15	·67 x
„ 12 ...	III.	Hedsor	2·85	5 0	·57 x
Dec. 12 ...	VII.	Belper, Highfield	1·70	5 30	·31
July 12 ...	III.	Wooburn, The Chestnuts.....	4·10	6 0?	·68?x
„ 24 ...	VI.	Bishop's Castle, Castle Street	1·50	6 0	·25
Nov. 12 ...	VIII.	Rochdale, Fieldhead	2·04	6 40	·31

Heavy Falls in Short Periods in 1901—continued.

Date.	Div.	Station.	Amount.	Duration.	Rate per hour.
			in.	hr. min.	in.
July 25 ...	IX.	Hemsworth Hall	2·03	7 0	·29
Nov. 12 ...	„	Ilkley, Eaton Road	1·97	7 15	·27
„ „ ...	„	Goldsborough Hall.....	1·89	7 30	·25
Aug. 14 ...	V.	Winterbourne Herringstone..	2·90	10 0?	·29?
Nov. 12 ...	IX.	Holmbridge, Bilberry Res. ...	3·50	12 0	·29
„ 11&12	XXIII.	Antrim, Ardnaveigh	3·00	12 0	·25
July 12 ...	III.	Amersham, Rumseys.....	2·40	12 0	·20
Dec. 7 & 8	IX.	Meltham, Harewood Lodge...	1·90	12 0	·16
Nov. 12 ...	VIII.	Chatburn, Middlewood.....	3·11	14 0	·22
„ 10 & 11	XI.	Lligwy	2·33	14 0	·17
„ 11 & 12	VIII.	Rochdale, Fieldhead.....	2·86	15 40	·18
„ „	IX.	Meltham, Harewood Lodge...	3·06	16 0	·19
„ „	„	Rishworth, Ringstone Res. ...	4·08	18 0	·23
„ „	XXI.	Monasterevin, Moore Abbey..	2·79	19 0	·15
„ „	IX.	Knaresborough, Farnham.....	2·72	19 0	·14
„ „	„	Bolton Abbey Estate Office...	2·20	19 0	·12
„ „	„	Goldsborough Hall..	2·97	19 30	·15
Nov. 12 ...	XI.	Douglas, Woodville	3·33	20 0	·17
„ 11 & 12	VIII.	Haslingden Vicarage.....	3·00	20 0	·15
Dec. 12 & 13	VII.	Grimsby, Waltham	2·29	22 0	·10
Nov. 11 & 12	IX.	Huddersfield, Dalton.....	2·77	22 30	·12
„ „	VIII.	Ormskirk, Aughton Springs..	2·80	24 0	·12
June 29 & 30	II.	Emsworth, Redlands.....	2·77	24 0	·12
Nov. 11 & 12	XXI.	Tullamore	2·75	24 0	·11
„ „	IX.	Wakefield, Stanley Grange ...	2·38	24 0	·10
„ „	XXIII.	Lurgan, Belle Vue.....	2·54	26 0	·10
Dec. 12 & 13	VI.	Church Stretton.....	2·52	29 30	·09
Nov. 11 & 12	XXI.	Balbriggan, Ardgillan	4·32	30 0?	·14?
„ „	IX.	Ilkley, Eaton Road	3·56	35 0	·10
„ 10 & 11	XX.	Lahinch, Moy House.....	3·75	42 0	·09
„ 10-12	XXII.	Woodpark [Scariff]	4·47	52 0?	·09?

HEAVY FALLS ON RAINFALL DAYS IN 1901.

INTRODUCTORY.

IN discussing rainfall figures there is an ever-present temptation to try new methods in the hope of finding some way of presenting the facts more effectively than has been found possible before. No year passes without some kindly suggestions being received from observers, and all such suggestions are carefully considered. But as a rule it is found that any change—such, for example, as extracting every case of a daily fall exceeding one, two, or three inches—means a great increase in the number of pages of this record, and a great increase also in the time required to compile and edit the volume; and these are difficulties too great for us to face at present. It is found also—and this obstacle is much more formidable—that any change would make it more difficult to compare previous years with that under consideration. The chief object of discussing heavy falls is to provide the means of comparing one year with another, hence the undesirability of departing from the mode of treatment which experience has shown to be satisfactory.

We accordingly follow the established plan of dealing with only the wettest day of the year for each station, and we cannot adopt a more convenient symbol for the rainfall of the wettest day than the **M** which has done service in these volumes for 30 years. It is impracticable to print the whole number of maximum falls, for they would occupy about 80 pages; hence, it has been the rule to select the most important. No one will be inclined to dispute the importance of a fall of 2·50 in. in one day, and accordingly every **M** reaching or surpassing that value is put on record. In districts of small rainfall so high a figure is very rarely attained, so that there would be a tendency, if precautions were not taken, to bring the wetter parts of the country into undue prominence. To guard against this the proportion which the **M** bears to the total fall of the year is taken into account, and every **M** which equals or exceeds 7·5 per cent., or about one-fourteenth, of the annual fall is selected however small it may be. By this means justice is done to the important falls of the drier localities.

The following comparison of percentages and the corresponding number of inches of rain will enable the reader to see at once the minimum value of the *M* selected for publication :—

Total R in.	15	20	25	30	33·3	35	40	50	60	80	100
7·5 % R in.	1·12	1·50	1·87	2·24	2·50	2·62	3·00	3·75	4·50	6·00	7·50

This shows that for an annual *R* of less than 33·30 in. (which is very nearly the average fall for England) the limit of 7·5 per cent. is that which determines selection ; but for annual falls above 33·30 in. the limit of 2·50 in. comes into operation. In preparing the following lists the *M* for every one of the 2,747 stations from which the necessary returns were received in time for this discussion was extracted and its percentage worked ; so that it is possible in all important cases to give the total number of stations at which the *M* occurs on any particular day, and also to calculate the average value of the whole.

Although there was no such widespread and isolated heavy fall in 1901 as that which occurred on December 30th, 1900, to call attention to breaches of Rule IX., the two great winter rains on November 12th and December 12th showed that a larger number of observers than need do so continue to disregard this rule. An utterly needless demand is thus made on our time, which could be much more profitably occupied than in hunting out cases of entry to the wrong day.

The CHRONICLE gives particulars of all the *M* exceeding 2·50 in. or exceeding 7·5 per cent. as the case may be, arranged in chronological order and preceded by a brief commentary. The ABSTRACT classifies the heaviest falls in order of amount, and epitomizes the general results so as to enable one year to be compared readily with another.

PART I.—CHRONICLE.

JANUARY 26TH.

The *M* occurred at about 15 stations in Wales and the S.W. of England, but attained an exceptional value only near Rhayader.

XI.	Llantrisant (Talygarn)	2·98 in. or 5·9 per cent.
„	Rhayader (Nantgwillt) <i>n.g.</i>	2·80 „ 5·1 „
„	„ (Abergwngy)	4·60 „ 7·9 „

JANUARY 29TH.

A few stations in the N.E. of Scotland recorded their *M* ; but only one requires notice :—

XVII.	Crathes (Woodbank).....	2·55 in. or 8·2 per cent.
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FEBRUARY 4TH AND 5TH.

A snow-storm brought the M to about 25 stations in the S.E. of England, and one percentage is high enough to place on record :—

II. Farnham Castle 1·85 in. or 8·0 per cent.

From neighbouring returns it seems probable that the S had a tendency to drift into this gauge, and that the value is unduly high.

MARCH 4TH.

The M at eight stations in the Lake District and the west of Scotland :—

X.	Borrowdale (Grange).....	3·15 in. or 4·9 per cent.
„	Orton Vicarage	2·55 „ 6·4 „
XV.	Strontian (Laudale)	3·00 „ 4·2 „
„	Ballachulish House	2·51 „ 3·5 „

MARCH 20TH.

About 25 stations in Cornwall and Devon recorded their M, as the result of a heavy snowfall ; but only one requires notice.

V. Dawlish (Mamhead Rectory) 2·54 in. or 7·1 per cent.

MARCH 29TH, 30TH AND 31ST.

Lancashire, the Lake District, Wales and the S.W. of Scotland were visited by snowstorms, which produced the M at about forty stations. The uncertainty which attends the measurement of heavy falls of snow with ordinary rain gauges makes caution requisite in accepting either the precise figures or the exact date, still, we believe that the following, all of which are attributed to the 30th, are correct.

VIII.	Finsthwaite Vicarage.....	2·55 in. or 5·2 per cent.
XI.	Bethesda (St. Ann's Vicarage)	3·23 „ 6·2 „
XIV.	Glasgow (Maxwell Park) ..	3·00 „ 7·9 „

APRIL 2ND.

The M at about fifty stations mainly in Scotland and the north of England occurred on the 2nd and 3rd ; the following were all on the 2nd.

X.	Patterdale Hall	2·70 in. or 3·9 per cent.
„	„ (Greenside Mine).....	2·68 „ 3·6 „
XIV.	Shaws W.W. (Gryfe Reservoir)	2·60 „ 4·7 „
XVI.	Balquhidder (Stronvar).....	2·76 „ 4·0 „
„	Lochearnhead (Ardvorlich)	2·73 „ 4·6 „

MAY 6TH.

An isolated M, due to a very local TS, accompanied by H. The R washed large holes in a field, and floated some steps and a hand-rail.

IV. Bacton 1·45 in. or 8·1 per cent.

MAY 26TH.

A moderately heavy fall in northern Northumberland, yielding the **M** at four stations, two of which must be mentioned.

X.	Morpeth (Bothalhaugh).....	2.01 in. or 7.5 per cent.
„	„ (Longhirst)	2.20 „ 7.7 „

JUNE 29TH AND 30TH.

This was the first wide-spread heavy rain of the year, and was produced by a succession of TSS, which brought the **M** to about 200 stations scattered over the centre and south of England, except the Cornwall-Devon peninsula. The **M** were perhaps most numerous in the Severn valley. No really heavy fall was measured either as regards amount or percentage, but the rain was important in marking the end of a long dry period.

II.	Bognor (Lidsey Lodge)	1.75 in. or 7.6 per cent.
„	West Thorney.....	1.73 „ 8.2 „
III.	Blisworth (Milton House).....	1.85 „ 8.4 „
„	Great Brington	1.46 „ 7.5 „
„	Pitsford (Sedgebrook)	1.69 „ 7.9 „
„	Earl's Barton Vicarage	1.72 „ 7.9 „
„	Ravensthorpe (Coton Mill)	1.64 „ 7.9 „
„	Oundle	1.83 „ 9.3 „
„	Rockingham Castle	1.95 „ 7.5 „
„	Carlton	1.60 „ 7.7 „
„	Stretham Engine	1.30 „ 8.3 „
„	„ Ferry (Elford Farm)	1.18 „ 7.8 „
„	Stanground Sluice	1.50 „ 8.6 „
IV.	Manningtree (Bradfield Lodge)	1.87 „ 10.1 „
„	Dedham (Dalethorpe).....	1.54 „ 8.9 „
„	Langham Rectory	1.60 „ 8.4 „
VI.	Malvern Hills (Upper Wych)	1.80 „ 7.9 „
„	Stourport (Lincombe Lock)	2.15 „ 10.4 „
„	Rugby (Bilton Grange)	1.80 „ 8.4 „
„	Coventry (Kingswood)	2.16 „ 8.1 „

JULY 1ST.

TSS brought the **M** to about 20 stations in the south of England, but only one demands insertion.

III.	Watford Court	1.80 in. or 8.0 per cent.
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JULY 2ND.

The **M** was brought by TSS to about a dozen stations, chiefly in the west of England.

VI.	Brinsop Vicarage	1.84 in. or 8.0 per cent.
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JULY 6TH.

In Kent and Sussex TSS produced some local heavy rains, giving the **M** at five stations.

II.	Buxted Park	1·78 in. or 7·5 per cent.
„	Nutley Vicarage.....	2·18 „ 8·4 „
„	„ (The Hall)	1·96 „ 7·9 „

JULY 12TH.

A severe TS on the borders of Berkshire, Buckingham and Herts brought an exceedingly heavy fall to a few stations, and the M to about 25. Maidenhead appears to have been in the centre of intensity, and at one station more than one-sixth of the whole year's R fell in six hours. The heavy fall commenced about 7 p.m., and appears in most places to have ceased before midnight. A considerable amount of damage was done by lightning and by flooding.

II.	Maidenhead (Stafferton Lodge)	3·05 in. or 13·4 per cent.
„	„ (The Firs, Castle Hill)	4·24 „ 17·9 „
„	„ (Isis Cottage)	2·72 „ 12·0 „
„	„ (Lowood)	3·63 „ 15·3 „
„	„ (Cookham Vicarage)	3·36 „ 16·1 „
III.	Watford (London Orphan Asylum)	1·89 „ 9·1 „
„	„ (St. Alban's Road)	1·98 „ 9·4 „
„	Taplow Court	2·34 „ 10·9 „
„	Hedsor	2·85 „ 12·7 „
„	Marlow Mills	2·00 „ 9·2 „
„	Wooburn (The Chestnuts)	4·10 „ 17·8 „
„	Amersham (The Plantation)	2·50 „ 9·8 „
„	„ (Rumseys)	2·40 „ 9·2 „

JULY 21ST AND 22ND.

An absolute drought of from 19 to 20 days was brought to an end at a large number of stations in many parts of England by a succession of TSS of no great severity, and bringing the M to less than a dozen stations, most of them in the north. The only notable falls occurred on the 21st.

IX.	Whitby (Royal Crescent).....	2·47 in. or 9·5 per cent.
X.	Seaham Hall	2·78 „ 10·1 „

JULY 24TH TO 27TH.

During these four days the M occurred at more than 320 stations scattered over the country, but mainly concentrated in the southern counties and in the midlands. The fall in every case accompanied TSS, and many stations of long-standing reported a greater fall in 24 hours than had been observed before. Local floods were common, but the damage done by L does not appear to have been great. The meteorological conditions of the four days were remarkable. A large shallow depression approached Wales from the N.W. on the 24th, moved slowly eastward across England to Norfolk on the 25th, appeared to hover over the eastern counties on the 26th, and to move

gradually south-westward across the south of England on the 27th, filling up as it reached the channel on the 28th. The cyclonic winds of this nearly stationary system were of no great strength, but the conditions favoured the simultaneous development of TSS at many different points.*

The heavy falls of each day are dealt with separately ; but the very disturbed conditions make it impossible to be certain that a few of those credited to the 26th and 27th may not be entered to the wrong day.

JULY 24TH.

M at about 90 stations, mainly in Oxfordshire, the west midland counties and Wales.

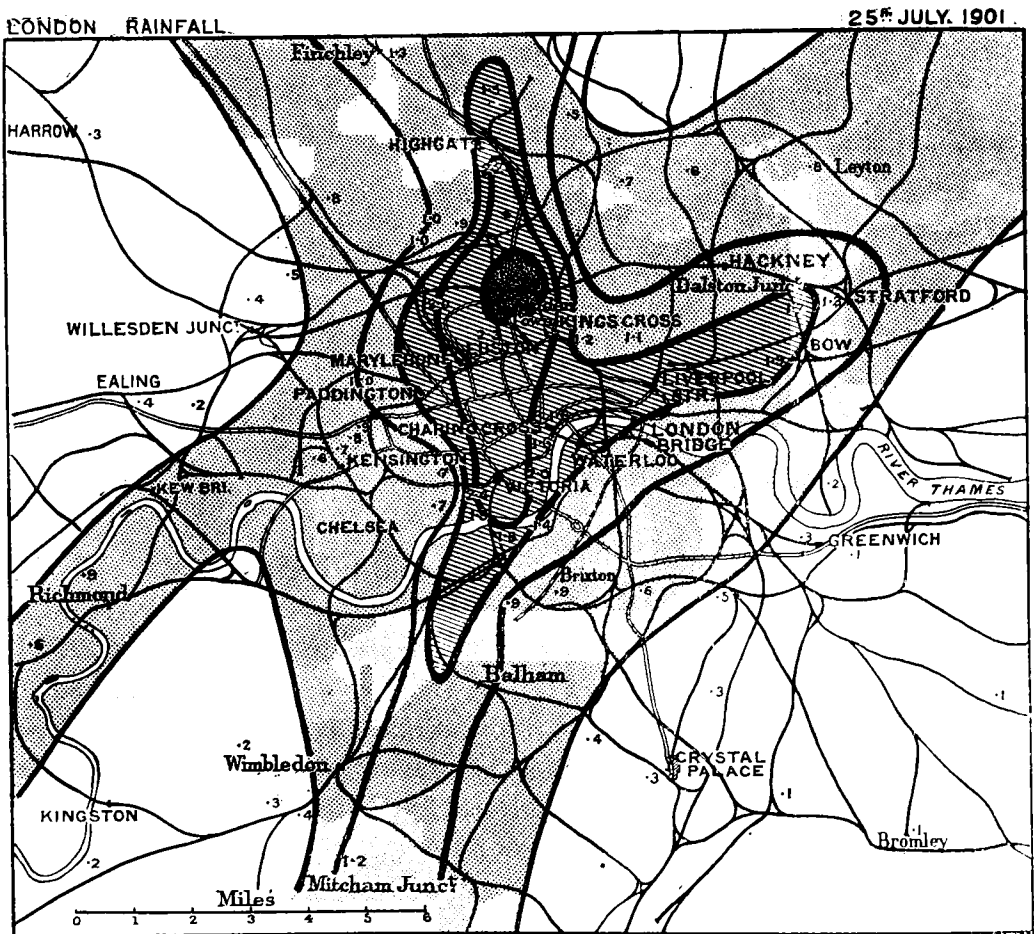
VI.	Newport (Edgmond)	2.14 in. or 8.3 per cent.
„	Tamworth (Bonehill House).*	1.76 „ 8.0 „
„	Hammerwich (Cannock Chase Reservoir)	2.72 „ 11.8 „
„	Weston Park [Shifnal]	2.00 „ 8.0 „
„	Hednesford (Scout House)	2.23 „ 10.5 „
„	Burton (Hoar Cross)	2.03 „ 7.7 „
VII.	Etwell (Blakeley Lodge)	1.62 „ 7.6 „
„	Mickleover Manor	1.81 „ 7.7 „
„	Grassmoor Colliery	1.34 „ 7.7 „
XII.	St. Boswells (Ellistoun)	2.30 „ 8.5 „
„	Kelso (Springwood Park).....	2.58 „ 11.1 „

JULY 25TH.

TSS occurred in various parts of England, bringing the M to about 125 stations. Probably the most severe was that which broke over London. It approached from the south-east, distant T being heard at 11.45 a.m., the first splash of R at Camden Square occurred soon after noon, became heavy at 0.14 p.m., and continued very severe with much H (some of the stones measuring more than half-an-inch in diameter) until 0.35 p.m. A lull occurred until 0.45 p.m., when H, L and T again burst out and the storm continued with great severity until 1.15 p.m., when it passed away towards the west, though rain continued to fall till 4 p.m. In West Kensington R did not begin until 1 p.m. and was never very heavy. The accompanying sketch-map shows that the heaviest R fell to a depth exceeding 2.00 in. over an area probably about six miles in length from N. to S., extending from near Highgate to Pimlico, and averaging about $1\frac{1}{4}$ mile in breadth. West of Hyde Park, or $1\frac{1}{2}$ mile from the centre of intensity, the fall did not exceed 1.00 inch, and the extreme

* See *Met. Mag.*, for September, 1901, p. 128.

western suburbs had less than half-an-inch. The same narrow limits were observed on the S.E. and N.E., but more than 1·50 in. descended over the City and East-end, and as far E. as Stratford, six miles from the centre of intensity, the fall exceeded 1·00 inch. The actual centre of intensity seems to have been very near Camden Square, and the rain rushing down the natural slope of the streets towards King's Cross flooded a section of the underground railway, and did much damage to dwelling houses.*



THE ISOHYETALS ARE DRAWN FOR EACH HALF-INCH OF RAIN, INCREASING TO THE CENTRE OF GREATEST INTENSITY WHERE THE FALL EXCEEDED 2·50 IN.

I.	Sunbury (Hanworth Road)	1·36 in. or 7·6 per cent.
„	Chelsea (Pumping Station)	1·94 „ 9·4 „
„	Westminster (Chester Square)	2·44 „ 11·8 „
„	„ (Spring Gardens)	No. 3 1·60 „ 8·2 „

* See *Met. Mag.* for August, 1901, p. 109; but for the last sentence on p. 110 substitute—“In two-and-a-half hours from the commencement of the storm 2·66 in. of rain fell.”

I.	London (Mile End)	1·94 in. or 8·6 per cent.
"	" (Regent's Park)	2·25 " 9·8 "
"	" (Barrow Hill, N.W.)	2·01 " 9·3 "
"	" (Old Ford, E.)	1·72 " 8·6 "
"	" (Camden Square)	2·85 " 12·9 "
"	" (Highgate, North Hill)	2·18 " 8·9 "
II.	Farnham (The Bourne Vicarage).....	3·35 " 13·4 "
"	" (Short Heath Lodge).....	3·36 " 13·4 "
"	Battersea (Southwark W.W.).....	1·78 " 10·1 "
"	Nine Elms (Heathwall).....	1·42 " 7·9 "
"	Hartley Mauditt Rectory.....	1·94 " 7·6 "
III.	Welwyn (Datchworth Rectory)	1·68 " 8·2 "
"	Bennington House	1·46 " 7·5 "
VI.	Newport (Aston Hall)	2·06 " 8·4 "
"	Brewood (Belvide Reservoir)	2·05 " 8·7 "
VII.	Darley Dale (Whitworth Institute)	2·90 " 8·2 "
VIII.	Aldford (Woodhouse)	2·05 " 7·7 "
"	Eccleston	2·13 " 7·7 "
"	Middlewich	1·93 " 8·1 "
"	Cheadle (Harthill)	2·89 " 10·4 "
"	Heaton Moor [Stockport].....	2·82 " 10·2 "
"	Manchester (Withington)	No. 1 2·02 " 7·7 "
"	" (")	2·42 " 9·3 "
"	" (Lady Barn, Fallowfield)	2·49 " 9·2 "
"	" (Plymouth Grove)	2·07 " 7·6 "
"	" (Oldham Road)	2·42 " 8·2 "
IX.	Stainborough (Wentworth Castle)	2·51 " 8·9 "
"	Barnsley (Church Street)	2·12 " 8·7 "
"	" (Beckett Square)	2·35 " 9·6 "
"	Hemsworth Hall.....	2·32 " 9·5 "

JULY 26TH.

TSS brought the M to about 75 stations, including:—

II.	Higham (Oakleigh).....	1·11 in. or 8·0 per cent.
"	Brighton (Old Steine)	2·70 " 11·9 "
"	" (W.W., Race Hill)	2·26 " 9·9 "
"	Iford	2·00 " 9·4 "
III.	Buntingford (Hamels Park)	1·68 " 7·9 "
"	Hitchin (High Down)	1·61 " 8·2 "
"	Banbury (Bloxham Grove)	2·14 " 8·9 "
"	Towcester (Easton Neston)	1·82 " 8·1 "
"	Ampthill (Silsoe).....	2·65 " 11·7 "
"	Woburn (Crawley Farm)	1·74 " 8·7 "
"	Potton (Wrestlingworth)	1·53 " 8·1 "
IV.	East Ham.....	1·48 " 8·3 "
"	Billericay (Norsey Manor)	1·68 " 8·5 "
"	Danbury Rectory	1·91 " 10·4 "
"	Writtle (Melbourne)	1·72 " 9·0 "
"	Chelmsford (Springfield Place)	2·04 " 10·2 "
"	Great Leighs	2·76 " 12·8 "
"	Colchester (Home Farm, Lexden)	1·42 " 8·3 "
"	Debden Rectory	1·63 " 7·7 "
VII.	Ollerton (Boughton W.W.)	1·66 " 7·7 "
VIII.	Heaton Mersey [Stockport]	2·97 " 11·8 "

JULY 27TH AND 28TH.

The M occurred at about 50 stations in different parts of the country during TSS, the following heavy falls all occurred on the 27th.

I.	London (Guildhall, E.C.)	1.51 in. or 10.2 per cent.	
„	Lea Bridge	1.86 „	9.9 „
II.	Erith (Crossness)	2.09 „	11.6 „
III.	Woburn (Fruit Farm, Ridgemount)	1.94 „	9.6 „
IX.	Masham Moor (Leighton)	2.25 „	8.4 „
„	„ (Low Houses)	2.76 „	8.7 „
„	Bedale (Park House)	2.49 „	10.4 „
„	„ (Newton House)	1.95 „	8.1 „
„	Stanwick Park [Darlington].....	2.20 „	7.9 „
„	Middlesbrough (Ormesby)	2.50 „	8.8 „
„	„ (Albert Park) ...	2.15 „	8.9 „
X.	Stockton-on-Tees (Ropner Park).....	2.85 „	12.2 „
„	Heighington (Walworth Castle)	2.52 „	8.7 „
„	West Hartlepool (Lynn Street)	2.52 „	13.4 „
„	Hartlepool (Hart Reservoir).....	1.89 „	7.8 „

JULY 29TH.

Half a dozen scattered stations recorded their M in local TSS.

II.	Wadhurst (Lower Cousley Wood)	3.25 in. or 13.1 per cent.
III.	Watlington (Pyrton Manor).....	2.10 „ 9.1 „

AUGUST 10TH.

TSS of great intensity brought the M to about 70 stations in Scotland and the north of England. Terrific falls of H were reported during the forenoon in Derbyshire, Yorkshire, and in the south-east of Scotland, especially near Galashiels, where much damage was done to crops, and on some estates thousands of panes of glass were destroyed. The violent storm was very brief, but local flooding was caused by the H blocking up the drains.

IX.	Hull (Pearson Park)	3.18 in. or 12.0 per cent.	
„	Cottingham (Water Works).....	1.80 „	7.9 „
X.	Eskdale.....	2.69 „	4.2 „
„	Carlisle (Stanwix)	2.14 „	7.8 „
XII.	Lilliesleaf (Riddell)	2.79 „	8.5 „
„	„ („)	2.94 „	9.6 „
„	Melrose (Asylum).....	2.72 „	8.7 „
„	Wooplaw [Galashiels]	3.25 „	11.4 „
XIII.	Galashiels (Abbotsford Road)	3.98 „	12.4 „
„	Whittinghame Gardens.....	3.57 „	12.0 „
„	Leith	1.79 „	8.0 „
XVI.	Buddonness (Low Light)	1.76 „	8.0 „
„	Arbroath (Water Works, Tower)	1.30 „	8.8 „

AUGUST 13TH.

A wet day in South Wales, but no TS is reported. The M occurred at more than 20 stations along the coast.

XI.	Llwynypia	2.50 in. or 4.1 per cent.
„	Briton Ferry	2.60 „ 6.1 „
„	Morrison (Glanravan)	2.77 „ 6.4 „
„	Felindre (Lliw Reservoir) ..	2.54 „ 5.3 „
„	Llandilo (Dynevor Castle)	2.83 „ 5.5 „

AUGUST 14TH.

A calm wet day in Hampshire, Wiltshire and Dorset, bringing the M to about 70 stations.

V.	Portland Observatory	1.85 in. or 7.7 per cent.
„	Weymouth (Wyke Regis)	2.13 „ 7.9 „
„	East Fleet (Fleet House)	2.06 „ 7.7 „
„	Winterbourne Herringstone.....	2.90 „ 8.7 „
„	Dorchester (Wollaston House).....	2.40 „ 7.8 „

AUGUST 26TH.

A TS and gale in Staffordshire, Cheshire and neighbouring counties brought the M to about 20 stations.

VI.	Newcastle (Madeley Vicarage).....	2.43 in. or 7.8 per cent.
IX.	Scarborough (Osgodby)	1.71 „ 7.5 „

SEPTEMBER 7TH.

The M at half a dozen stations in Ireland.

XX.	Bandon (Ardnacarrig)	2.80 in. or 5.7 per cent.
„	Kenmare (Derreen)	3.20 „ 4.8 „
XXII.	Clifden (Kylemore House)	2.65 „ 3.9 „

SEPTEMBER 16TH.

The only extensive rain of a very dry month brought the M to about 60 stations in the south-west of England ; but only one station had as much as two inches, and none had as much as six per cent., hence while the day was too wet to be passed over without comment there are no values to record.

OCTOBER 1ST.

Sharp TSS was experienced over a large part of England ; but only a dozen stations received their M, and one has to be noticed.

II.	Litlington (Plough and Harrow Inn) ...	1.73 in. or 7.7 per cent.
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OCTOBER 2ND.

A continuance of the TSS brought the M to half-a-dozen stations in the south and east of England.

II.	Whitchurch (Long Parish)	1.92 in. or 7.9 per cent.
III.	Cambridge (Botanic Gardens)	1.74 „ 7.6 „

NOVEMBER 11TH AND 12TH.

This was the greatest rain of the year, and its timely appearance put an end to the serious drought and scarcity of water which had

oppressed the north of England for several months.* It was a pure cyclonic rain, occurring almost exclusively to the north of the path of the centre of a very deep depression which appeared over the south-west of Ireland on the 11th, crossed North Wales on the 12th, and passed on into the North Sea at the mouth of the Humber early on the 13th. In dealing with such a storm, we are confronted with the difficulty that the downpour which lasted for many hours at each point as the system swept across the country is sometimes credited wholly to one rainfall day, sometimes wholly to another, while, in some cases, it is divided between two. The precise amount collected on any one day depended on the hour at which the rain gauge was read, and we have been obliged to reject several large falls because they referred to a different period of 24 hours from that ending at 9 a.m., and therefore were not comparable. Where the heaviest part of the fall occurred about 9 a.m., a gauge read correctly might so divide the amount as to yield no M on either day, while the total fall might be no less or even greater than that at stations not very far distant which gave a substantial M on the day before or the day after. We have accordingly adopted a special method for the discussion of this rain. In every case where a daily record was available, the values for the 11th and 12th are set out side by side, and the total for the two days added; but in order to make the list available for comparison in the usual way, the percentages are given for the maximum falls alone.

The number of M recorded on the 11th was about 180, and on the 12th about 340; but these figures do not give any idea of the area affected on the two days, because on the 11th the heavy rains prevailed over Ireland, where the stations are few and scattered, while on the 12th the region mainly affected is well served by numerous gauges. We have accordingly represented the distribution of rain on the two days on a map which appears as the frontispiece to this volume. It shows in a distinctive colour the area over which the M was reported on each day, and by a line of the same colour, surrounding the wettest region as the penumbra surrounds the dense shadow in an eclipse, the area within which a fall exceeding one inch occurred on each day.

It will be seen on reference to the map that the rainfall on the 11th exceeded 1.00 in. over the whole of Ireland, except the extreme

* See also *Met. Mag.*, December, 1901, p. 179.

N.W. and S.W., over the Isle of Man, western and northern Wales, Lancashire, Cheshire, Derbyshire, the north of Staffordshire, and the West Riding of Yorkshire ; in all an irregular area measuring 400 miles from W. to E., and at its greatest breadth more than 200 miles from N. to S. November 11th was the wettest day of the year at almost every station within a central area 300 miles in length, from the W. of Ireland to the middle of England, and averaging 150 miles in breadth in Ireland and 70 miles in England.

On the 12th the heavy rains had ceased in the west, but extended with increased intensity much farther to the east. The area with falls exceeding 1·00 in. included the northern half of the E. coast strip of Ireland, the Isle of Man, the extreme south of Galloway, the portion of Scotland east of the course of the river Clyde and south of Edinburgh, and the whole north of England from west to east as far south as a line drawn from Southport to Crewe, and thence across the middle of Derbyshire and Lincoln to the sea, the whole measuring nearly 300 miles from west to east, and varying in breadth from 140 miles in Ireland to more than 200 miles in the east of England. The 12th was the wettest day of the year at almost all stations in the extreme east of Co. Down, the Isle of Man, northern Lancashire, Westmoreland, Yorkshire, Durham, and the east of Northumberland, the whole forming an irregular figure measuring 250 miles and 200 miles along its greatest diameters. Including the portions of the Irish Sea, it appears that the actual areas concerned were as follows :—

			Area over 1·00 in.		Area of M
November 11th	... sq. miles	...	61,000	...	38,700
„ 12th	... „	...	33,300	...	18,200
Both days	..... „	...	24,000	...	4,300
One or other day	... „	...	70,300	...	52,600

It will be noticed that there are two districts shown by the superposition of the colours on the map, one in the east of Co. Down, the other in Lancashire and south-western Yorkshire, where M occurred on both days. These were the parts of the country where the rain was nearly half over at 9 a.m., and where half-an-hour earlier or later in visiting the gauge might mean transferring the M from one day to the other. Necessarily in cases the fall was nearly equally divided, many stations had their M on another occasion when the fall occurred wholly in one rainfall day ; but to allow for this we give the readings for all stations available in those areas where the fall exceeded 1·00 in. on each day.

		NOVEMBER		Total.
		11th.	12th.	
VIII.	Hadfield (Millbrook)	1·40	1·03 ...	2·43
„	Manchester (Cheetham Hill)	1·49	1·02 ...	2·51
„	Wigan (Water Works)	1·28 M	1·15 ...	2·43
„	Bolton (The Park)	1·80 M	1·00 ...	2·80
„	„ (Ash Lawn, Heaton)	1·35	1·36 M...	2·71
„	„ (Moss Bank).....	1·68 M	1·34 ...	3·02
„	„ (Smithills Hall)	1·55 M	1·12 ...	2·67
„	Milnrow (Piethorne, Kitchliffe)	1·30	2·22 M...	3·52
„	Rochdale (Park Observatory)	1·65	1·72 M...	3·37
„	„ (Fieldhead)	1·53	1·78 M...	3·31
„	„ (The Crescent).....	1·87 M	1·70 ...	3·57
„	Ormskirk (Rufford)	1·52 M	1·12 ...	2·64
„	Rochdale (Spring Mill, Whitworth).....	1·55	2·41 M...	3·96
„	„ (Cowm, „).....	1·72	2·41 M...	4·13
„	„ (Facit)	1·34	2·87 M...	4·21
„	Southport (Hesketh Park).....	1·76	1·11 ...	2·87
„	„ (Park Crescent).....	1·82 M	1·13 ...	2·95
„	Todmorden W.W. (Ramsden Reservoir)...	1·43	3·00 M...	4·43
„	Haslingden (Hazelwood)	1·77	2·24 M...	4·01
„	„ Vicarage	1·64	2·07 M...	3·71
„	Todmorden (Scaitcliffe)	1·64	2·57 M...	4·21
„	Preston (Corporation Offices).....	1·75	2·63 M...	4·38
„	„ (Haighton)	1·63	2·48 M...	4·11
„	Barton (Anderton Fold)	1·20	1·38 ...	2·58
„	Blackpool Hospital	1·94 M	1·31 ...	3·25
„	Stonyhurst College	2·14 M	1·65 ...	3·79
„	Beaton Fell (Barnsfold)	1·50	1·64 ...	3·14
„	Chatburn (Middlewood).....	1·43	1·68 ...	3·11
„	Heysham House	1·10	1·83 M...	2·93
„	Morecambe	1·10	1·10 ...	2·20
„	Ulverston (Urswick)	1·33	1·38 ...	2·71
„	Lindal (Berkune Mines)	1·21	1·26 ...	2·47
„	Cartmel (Holker)	1·16	1·49 ...	2·65
„	Broughton-in-Furness	1·06	1·81 ...	2·87
„	Duddon Valley (Seathwaite Vic.).....	2·47	3·28 M...	5·75
XXIII.	Loughgall (Manor House)	1·00	1·00 ...	2·00
„	Lurgan (Belle Vue)	1·36	1·18 ...	2·54
„	Tullymore Park	1·70	1·93 ...	3·63
„	Rathfryland (Ballynagappoge)	1·46	1·63 ...	3·09
„	Castlewellan (Lough Island)	2·00	1·70 ...	3·70
„	Seaforde	1·41	1·88 ...	3·29
„	Banbridge (Corbet Reservoir)	1·40	1·20 ...	2·60
„	„ (Milltown)	1·59	1·13 ...	2·72
„	Belfast (Linen Hall Library)	1·70	1·03 ...	2·73
„	Broughshane (Quolie)	1·70	1·52 ...	3·22

With regard to the total fall of rain on the two days, it may be noted that as much as 4·00 in. fell at only three isolated stations in Ireland, but that this value was exceeded at two stations in the mountains of north Wales, at one or two in the centre of the Lake District, and over somewhat larger areas in three other places. These were the strip of country between Preston and Halifax, where serious floods were produced, Upper Wensleydale, and Weardale.

The rain as a whole did not extend north of the Firth of Forth, nor did it affect Ayrshire or the west of Scotland, while over a very large part of southern England, as shown on the frontispiece, the total R for the whole month of November was under 1·00 in.

		11TH.		12TH.		11TH & 12TH.
		in.	%	in.	%	in.
VIII.	Hoylelake (The Chase, East)	1·60	7·6	·36	...	1·96
	„ Oldham (Brushes Clough) <i>o.g.</i>	...	...	2·80	7·1	...
	„ Rochdale (Facit)	1·34	...	2·87	6·5	4·21
	„ Todmorden W.W. (Ramsden Res.)...	1·43	...	3·00	6·9	4·43
	„ Rawtenstall Cemetery .....	...	...	2·88	6·6	...
	„ Todmorden (Scaitcliffe)	1·64	...	2·57	5·5	4·21
	„ Preston (Corporation Offices)	1·75	...	2·63	9·0	4·38
	„ „ (Haighton)	1·63	...	2·48	7·8	4·11
	„ Duddon Valley (Seathwaite Vic.) ...	2·47	...	3·28	4·5	5·75
IX.	Wath-upon-Deane (Chapel Street)..	1·73	7·5	·95	...	2·68
	„ Holmbridge (Bilberry Reservoir).....	...	...	3·50	7·1	...
	„ Standedge (Cudworth, Castle Shaw).	...	...	2·57	9·4	...
	„ Denshaw (New Years Bridge) .....	...	...	2·79	6·6	...
	„ „ (Ready Con Dean) <i>n.g.</i>	...	...	2·94	6·7	...
	„ Doncaster (Kirk Bramwith)	·69	...	1·67	7·7	2·36
	„ Wakefield (Walton)	·99	...	1·45	7·9	2·44
	„ Ossett (Lowood House)	·10	...	2·42	11·1	2·52
	„ Goole (Swinfleet).....	·00	...	2·73	11·3	2·73
	„ Batley (Staincliffe Reservoir)	·40	...	2·19	10·9	2·59
	„ „ (Woodwell Dépôt).....	·06	...	2·12	10·2	2·18
	„ Todmorden (Sourhall Hospital)	1·70	...	2·77	5·9	4·47
	„ Halifax (Hall Ings, South Oworm) ...	1·45	...	2·83	9·0	4·28
	„ Hebden Bridge (Falling Royd).....	...	...	2·59	6·6	...
	„ Bradford (Horton) .....	...	...	2·49	8·6	...
	„ Leeds (Knostrop) .....	...	...	1·73	7·6	...
	„ „ (Holbeck W.W. Dépôt).....	1·47	...	2·05	8·3	3·52
	„ „ (Woodhouse Moor) .....	...	...	1·81	7·6	...
	„ „ (Weetwood Lodge) .....	...	...	1·76	7·9	...
	„ „ (Oliver Hill, Horsforth).....	·97	...	2·04	8·2	3·01
	„ Adel (Lawns Wood) .....	...	...	1·92	8·4	...
	„ „ (Eccup East) .....	...	...	1·94	8·1	...
	„ Harewood House.....	·65	...	2·35	8·8	3·00
	„ Otley (Danefield).....	·85	...	2·18	8·7	3·03
	„ Harewood (Arthington).....	...	...	2·81	9·8	...
	„ Ilkley (Amblethorpe).....	...	...	2·34	7·7	...
	„ „ (Eaton Road)	1·03	...	2·53	8·7	3·56
	„ Pannal (Kirkby Overblow) .....	...	...	1·90	8·5	...
	„ York (Burton Croft)	·59	...	1·74	8·2	2·33
	„ „ (Cherry Hill) ..	·72	...	1·65	8·1	2·37
	„ Wetherby (Ribston Hall)	1·23	...	2·36	9·2	3·59
	„ Nun Monkton	·83	...	1·75	8·1	2·58
	„ Harrogate (Ten Acre Reservoir) .....	...	...	1·81	8·0	...
	„ „ (Beaver Dyke „ ) .....	...	...	2·00	8·1	...
	„ „ (Harlow Hill) ..	1·07	...	2·05	8·4	3·12
	„ „ (Irongate) .....	...	...	1·98	9·1	...
	„ „ (The Stray) .....	...	...	1·97	8·6	...
	„ „ (Park Parade) .....	...	...	2·00	8·4	...
	„ Ripley Castle	·93	...	1·80	8·2	2·73
	„ Grimwith Reservoir..... <i>o.g.</i>	...	...	2·54	6·6	...
	„ Dallow Moor (High Skeldon) .....	...	...	2·06	7·7	...

	11TH.		12TH.		11TH & 12TH.
	in.	°/o	in.	°/o	in.
IX. Ripon (The Red House).....	1·05	...	1·77	8·1	2·82
„ „ (W.W., Lumley Moor)	·96	...	2·45	8·4	3·41
„ Ramsgill .....	...	...	3·16	9·0	...
„ Nidderdale (New Houses).....	...	...	3·46	9·0	...
„ Ripon (High Bank, Mickley)	1·08	...	1·87	7·9	2·95
„ Masham Moor (W. Somerside) <i>n.g.</i> ..	...	...	2·56	8·1	...
„ „ „ (High Sour Mire) <i>n.g.</i> ..	...	...	2·91	9·4	...
„ „ „ (Leighton) .....	...	...	2·73	8·4	...
„ Oughtershaw Hall	1·46	...	2·90	5·0	4·36
„ Skipwith	·88	...	1·82	8·9	2·70
„ Beverley (East Riding Asylum)	·65	...	2·28	9·1	2·93
„ Market Weighton (Dalton Hall) . ....	...	...	2·00	8·0	...
„ Hornsea (Elim Lodge)	·64	...	2·03	9·0	2·67
„ Middleton-on-the-Wolds .....	...	...	2·13	9·4	...
„ Wetwang .....	...	...	1·94	8·1	...
„ Easingwold (Marton Vicarage).....	·92	...	1·80	8·5	2·72
„ Terrington Hall .....	...	...	1·98	8·5	...
„ Hovingham (Wigganthorpe).....	·64	...	2·26	9·3	2·90
„ Gilling (Grimstone Manor)	·73	...	2·75	11·2	3·48
„ Pickering (The Rectory)	·30	..	1·75	7·8	2·05
„ Aysgarth Vicarage	1·10	...	2·72	8·5	3·82
„ Leyburn (Bolton Hall)	·96	...	3·70	11·8	4·66
„ Scarborough .....	...	...	2·04	8·7	...
„ Boltby .....	...	...	2·05	9·9	...
„ Scalby (Silverdale)	·00	...	2·50	8·5	2·50
„ Northallerton (Osmotherley).....	·62	...	1·95	8·5	2·57
„ Richmond (The Grove) .....	...	...	2·70	8·4	...
„ Ingleby Greenhow Vicarage ..	·65	...	2·35	7·5	3·00
„ East Layton	·52	...	2·80	10·1	3·32
„ Forcett Park [Darlington].....	...	...	3·00	9·7	...
„ Great Ayton (Easby Hall).....	·57	...	2·47	7·5	3·04
„ Guisborough (Hutton Hall) .....	...	...	2·40	7·6	...
„ Hury Reservoir [Barnard Castle].....	1·15	...	2·35	8·0	3·50
„ Mickleton	·75	...	1·99	8·4	2·74
X. Darlington (Hurworth Grange)	·79	...	2·53	9·5	3·32
„ „ (Elcott Hurworth)	·87	...	2·47	9·5	3·34
„ „ (Cleveland Parade).....	·63	...	2·59	10·4	3·22
„ „ (Public Park)	·88	...	3·31	11·7	4·19
„ „ (Hummersknott).....	·75	...	2·75	10·9	3·50
„ Barnard Castle (County School)	·79	...	2·51	10·1	3·30
„ Stockton (Rimswell) .....	...	...	2·10	8·9	...
„ Hartlepool (Hurworth Burn)	·68	...	2·37	8·9	3·05
„ Wolsingham	·56	...	4·21	14·1	4·77
„ Eastgate (All Saints' Vicarage) .....	...	...	3·86	10·7	...
„ Wearhead	·93	...	3·40	8·2	4·33
„ Durham Observatory .....	...	...	2·87	12·5	...
„ Ushaw College.....	...	...	2·88	10·7	...
„ Weardale W.W. (Tunstall)	·45	...	3·45	11·1	3·90
„ „ „ (Waskerley)	·51	...	2·47	8·3	2·98
„ Consett W.W. (Smiddy Shaw)	·40	...	3·02	9·9	3·42
„ Dalton le Dale .....	...	...	2·02	8·1	...
„ Seaham Harbour	·53	...	2·47	9·9	3·00
„ Ryhope .....	...	...	2·54	10·1	...
„ Sunderland (W. Hendon House) <i>No.5</i> ..	·32	...	2·50	9·4	2·82
„ „ (Fever Hospital).....	·48	...	2·12	8·1	2·60
„ „ (Claxheugh Grove).....	·75	...	2·10	7·9	2·85

		11TH.		12TH.		11TH & 12TH.
		in.	%	in.	%	in.
X.	Sunderland (The Cedars) ..	...	...	2·57	9·4	...
„	Cleadon Pumping Station .....	...	...	2·04	8·1	...
„	Ryton-on-Tyne ..	·55	...	2·93	11·0	3·48
„	„ „ ..	·30	...	2·62	11·2	2·92
„	Corbridge (Newton Hall) .....	...	...	2·67	10·0	...
„	Newcastle (Clifton Road)	·47	...	1·90	8·1	2·37
„	„ (Lit. and Phil. Soc.)	·65	...	2·58	9·3	3·23
„	„ (Claremont Road).....	...	...	2·04	8·0	...
„	„ (Leazes Park)	·54	...	2·42	8·4	2·96
„	„ (Town Moor).....	·55	...	2·53	9·6	3·08
„	„ (Wellburn Jesmond) .....	...	...	2·13	7·7	...
„	North Shields (Post Office) .....	...	...	2·44	8·7	...
„	„ „ (Tynemouth)	·54	...	2·53	8·6	3·07
„	Scots Gap (Wallington).....	·50	...	2·80	9·0	3·30
„	Angerton Hall	·47	...	3·09	8·9	3·56
„	Scots Gap (Rothley Crag)	·40	...	2·80	8·9	3·20
„	Rothbury (Cragside) .....	...	...	3·81	11·0	...
„	Kirkby Lonsdale (Barbon Manor) ...	...	...	2·90	7·6	...
„	Ambleside (Gale House).....	1·36	...	2·91	4·5	4·27
„	„ (Lesketh Howe) .....	...	...	2·66	3·9	...
„	Grasmere (Pavement End)	·98	...	3·08	4·2	4·06
„	Rydal (Stepping Stones) .....	...	...	2·94	4·2	...
„	Kirkby Stephen (Redmaine House)...	·94	...	2·40	7·8	3·34
„	Appleby (Castle Bank)	·63	...	2·50	8·8	3·13
XI.	Llanbedr (Minafon).....	2·56	5·9	·60	...	3·16
„	Rhiwbrydir=Oakley Quarries	3·20	3·9	1·31	...	4·51
„	Bettws-y-coed (Aberllyn)	3·18	6·7	·96	...	4·14
„	Llangadwaladr (Bodorgan)	2·60	7·7	·61	...	3·21
„	Holyhead	2·68	7·9	...	...	...
„	Llanfachreth.....	3·34	7·5	·50	...	3·84
XX.	Ballingarry (Hazelfort)	2·50	8·2	·38	...	2·88
„	Ennis (Roslevan).....	2·98	8·4	...	...	...
„	Miltown Malbay ..	3·54	7·6	·16	...	3·70
„	Lahinch (Moy House).....	2·88	7·0	·35	...	3·23
„	Ennistymon House	2·76	5·7	·33	...	3·09
XXI.	Laragh (Glendalough).....	3·04	5·3	·95	...	3·99
„	Ballyfin	3·29	7·3	·36	...	3·65
„	Parsonstown (Birr Castle)	2·70	8·7	·53	...	3·23
„	Tullamore	2·75	8·5	...	...	...
„	Monasterevin (Moore Abbey)	2·58	8·1	·21	...	2·79
„	Straffan House.....	2·55	8·4	1·22	...	3·77
„	Glen-na-Smoel (Water Works).....	2·93	6·9	1·05	...	3·98
„	Kingstown (People's Park)	2·04	7·7	...	...	...
„	Rathmines (Terenure)	1·95	7·7	...	...	...
„	„ (Leinster Road)	2·14	8·4	...	...	...
„	Donnybrook (Seaview Terrace)	1·84	7·8	·70	...	2·54
„	Dublin (FitzWilliam Square)	2·04	7·8	·88	...	2·92
„	„ (Phoenix Park)	2·31	9·0	...	...	...
„	Lucan (The Garden)	2·50	9·3	1·10	...	3·60
„	Glasnevin (Botanic Gardens).....	2·45	8·7	1·28	...	3·73
„	Balbriggan (Ardgillan)	2·74	9·7	1·58	...	4·32
„	„ (Laragh)	2·64	9·0	1·44	...	4·08
„	Summerhill House	2·54	8·4	·98	...	3·52
XXII.	Woodpark [Scariff].....	2·86	7·2	1·07	...	3·93
„	Recess Hotel	2·85	4·5	...	...	...
„	Clifden (Kylemore Castle)	3·00	4·0	·36	...	3·36

NOVEMBER 13TH.

A wet day in Norfolk, Suffolk and Cambridgeshire, yielding the M at about half-a-dozen stations, of which one only had a percentage high enough to warrant insertion.

IV. Acle 1.54 in. or 8.2 per cent.

NOVEMBER 18TH.

The M occurred at about 15 stations, most of them in the west of Scotland.

XVIII.	Alvie Manse.....	2·09 in.	or 7·8 per cent.
„	Loch Nevis (Inverie)	3·07 „	4·1 „
„	Skye (Strathaird)	3·41 „	4·2 „

NOVEMBER 19TH.

The M at about 40 stations in the Lake District, Scotland, and the north of Ireland. The heaviest falls of the year at any stations were recorded in the Lake District, but the wetness of the locality makes the percentages low.

VIII.	Sawrey (Tower Bank)	2·71 in.	or 4·5 per cent.
„	Skelwith Fold [Ambleside]	3·80 „	5·4 „
X.	Borrowdale (Seathwaite)	4·27 „	3·9 „
„	Bowness (Fallbarrow)	2·57 „	4·7 „
„	Ambleside (Skelwith Bridge)	4·57 „	6·0 „
„	Elterwater Hall	5·27 „	6·8 „
„	Loughrigg (Silverthwaite).....	3·60 „	5·3 „
„	Duncheon Ghyll	5·66 „	5·7 „
„	Grasmere (High Close)	3·47 „	4·9 „
XV.	Loch Eck (Benmore)	2·80 „	3·6 „
„	Loch Eil (Corran)	2·80 „	4·2 „
„	Jura (Fladda)	5·75 „	7·6 „
XVIII.	Glenquoich	2·89 „	3·0 „
„	S. Uist (Ushenish)	4·52 „	6·7 „
XXIII.	Coleraine	2·58 „	6·6 „

DECEMBER 7TH.

A wet day in South Wales and in Yorkshire, giving the M at about 50 stations.

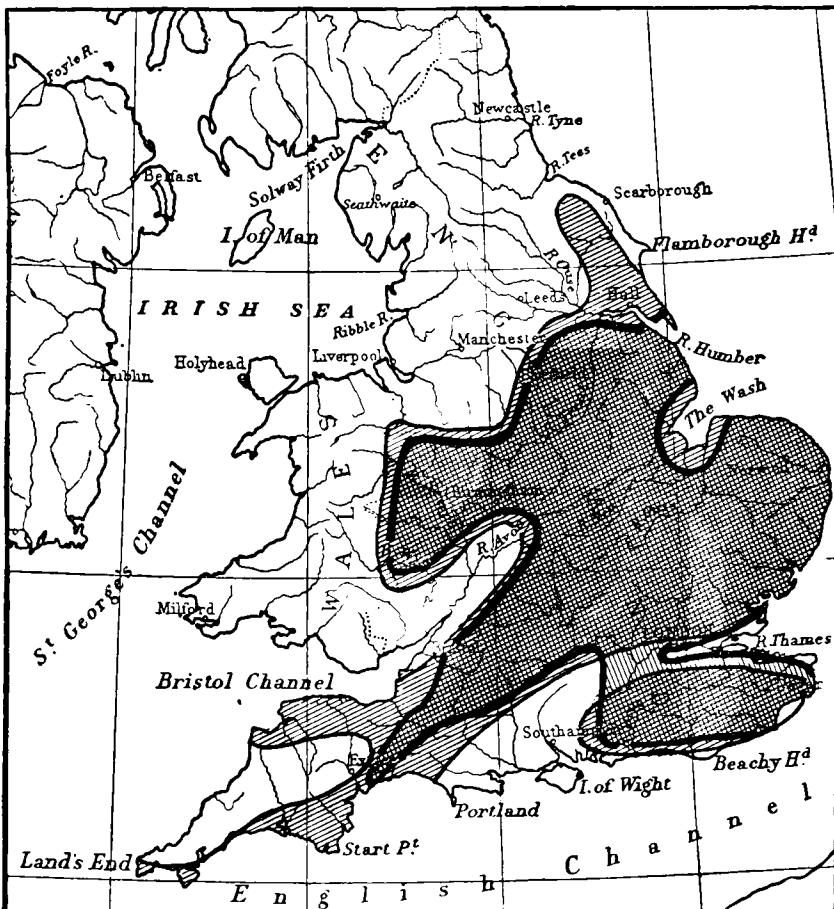
IX.	Dunford Bridge Reservoir	2·70 in.	or 6·6 per cent.
„	Holmbridge (Yateholme)	3·10 „	6·2 „
XI.	Pontypridd (The Reservoir).....	3·10 „	6·5 „
„	Glyncorrwg	2·60 „	4·0 „
„	Mountain Ash (Clydach Reservoir)	2·54 „	4·2 „
„	Treherbert (Bute Colliery)	2·75 „	4·6 „
„	„ (Tyn-y-waun)	2·73 „	3·9 „
„	Aberdare (Abernant)	2·55 „	5·7 „
„	Cardiff W. W. (Cantref Reservoir)	2·67 „	4·7 „
„	„ „ (Beacons Reservoir, No. 6)	3·64 „	5·4 „
„	Taff Fechan (Neuadd Reservoir, No. 1)... ..	3·28 „	6·1 „
„	„ „ „ („ „ „ No. 4)... ..	4·02 „	6·4 „

DECEMBER 12TH.

The worst weather, though not the heaviest precipitation of the year, resulted from a deep cyclone which came in from the west and travelled eastward, its centre passing up the English Channel. In consequence strong N.E. gales prevailed over the British Islands for three days, and a snowstorm of considerable violence raged over the greater part of England, culminating in the north midland counties. Much destruction was wrought amongst telegraph wires, the large towns of the north of England being isolated from London, and the traffic on the railways completely disorganized by the impossibility of working the signals. The S drifted heavily in hilly districts, blocking roads and causing the loss of many sheep. About 640 stations experienced their M (nearly all the stations south of the area

MAXIMUM FALLS.

12TH DECEMBER, 1901.



THE HEAVY LINE INCLUDES THE AREA OF M, THE LIGHTER LINE INCLUDES THE AREA WITHIN WHICH THE FALL EXCEEDED 1.00 IN.

deluged on November 11th and 12th which had escaped severe summer TSS), and the area over which this storm produced the wettest day of the year extended from Cornwall, Kent and Surrey to the eastern border of Wales and to the southern border of Cheshire and Yorkshire.* As shown in the sketch-map, the area within which the rainfall exceeded one inch was very little more extensive than that of the maximum falls; indeed, only 10 out of the 101 M printed below claim notice on account of the magnitude of the fall, but 91 deserve recognition on account of high percentage at a dry station. The two winter rains culminating on November 12th and December 12th respectively, between them brought the M to about 1,200 stations, or nearly one-half of all the stations available for the discussion of maximum falls. The fact that a great part of the precipitation of the December storm fell as S during a gale introduces some uncertainty as to the exact figures, as drifting must have occurred to a considerable extent, increasing the amount in some places and diminishing it in others.

DECEMBER 12TH.

II.	Dorking (West Street)	2.30 in. or 9.4 per cent.
„	Horsley Towers	2.04 „ 8.2 „
„	Epsom (Water Works)	1.63 „ 8.0 „
„	Sittingbourne (Sharsted Court)	1.72 „ 9.7 „
„	Ospringe (Lorenden)	1.59 „ 8.0 „
„	Rochester (Abbots Court, Hoo)	1.17 „ 7.7 „
„	Wantage	1.90 „ 7.8 „
III.	Althorp House	1.55 „ 8.5 „
„	Kingscliffe (Fineshade)	1.92 „ 8.1 „
„	Stamford (Collyweston)	1.79 „ 7.9 „
„	„ „ „ House)	1.92 „ 8.2 „
„	„ „ (St. Martin's)	2.00 „ 8.4 „
„	Whittlesea Mere	1.32 „ 7.9 „
„	Mepal Engine	1.21 „ 9.9 „
„	Chatteris (Aylesby House)	1.56 „ 8.5 „
„	„ „ (The Priory)	1.34 „ 7.5 „
„	„ „ (Horseway Lock)	1.00 „ 8.4 „
„	Stanground Sluice	1.50 „ 8.6 „
„	March	1.38 „ 7.6 „
„	Upwell (Marmont Priory Lock)	1.18 „ 8.2 „
„	„ „ (Euximoor House)	1.63 „ 8.2 „
„	Thorney	1.37 „ 7.8 „
„	Wisbech (Bank House)	1.65 „ 9.0 „
„	„ „ (Monica Road)	1.75 „ 9.7 „
„	„ „ (Gorefield Vicarage)	1.67 „ 10.2 „
IV.	Chelmsford (Roxwell)	1.70 „ 7.9 „
„	Braintree (Bocking Place)	1.53 „ 8.0 „
„	Dunmow (Saling Grove)	1.40 „ 7.7 „
„	Ipswich Museum	1.85 „ 9.4 „

* See *Met. Mag.*, January, 1902 (vol. 36), p. 196.

IV.	Ipswich (Clare Lodge)	1.34 in. or 7.5 per cent.
„	Woodbridge (Melton Asylum).....	1.26 „ 8.0 „
„	Parham (The High House)	1.56 „ 9.1 „
„	Aldbrough (Aldringham House)	1.46 „ 8.1 „
„	Great Glemham	1.81 „ 9.4 „
„	Darsham (Sibton)	1.84 „ 9.7 „
„	Ixworth (Walsham-le-Willows) ..	1.26 „ 7.5 „
„	Southwold	1.57 „ 8.0 „
„	Wangford (Sotterley Hall)	1.81 „ 8.8 „
„	Beccles (The Staith)	1.85 „ 8.7 „
„	Lowestoft (Belle Vue Park).....	1.43 „ 7.6 „
„	„ (The Clyffe, Corton) ...	1.54 „ 7.6 „
„	„ (Lound Pumping Station)	1.85 „ 9.7 „
„	Fritton [Yarmouth]	1.77 „ 9.4 „
„	Burgh Hall [Yarmouth]	1.79 „ 9.2 „
„	Burgh Castle Rectory	1.78 „ 9.3 „
„	Ellingham [Beccles]	1.78 „ 9.1 „
„	Geldeston [Beccles]	1.79 „ 8.9 „
„	Raveningham Hall [Beccles]	1.71 „ 8.5 „
„	Norwich (Dunston Hall)	1.56 „ 8.3 „
„	Emneth.....	1.58 „ 8.4 „
„	Yarmouth (Sailors' Home)	2.53 „ 11.9 „
„	„ (Market Place)	1.77 „ 8.7 „
„	Norwich (Postwick Hall).....	1.50 „ 7.9 „
„	„ (Carrow House)	1.83 „ 8.6 „
„	„ (Brundall)	1.60 „ 7.6 „
„	„ (Essex Street).....	1.73 „ 8.4 „
„	„ (Ipswich Road)	1.66 „ 7.9 „
„	„ (Newmarket Road)	1.71 „ 7.8 „
„	Sprowston (Oak Lodge).....	1.63 „ 8.2 „
„	Tilney St. Lawrence (Aylmer Hall)	1.40 „ 7.7 „
„	Ormesby St. Michael.....	1.57 „ 7.7 „
„	North Walsham (Dilham)	1.60 „ 7.5 „
„	Hillington School	1.84 „ 7.5 „
„	Holt (The Yuccas)	1.94 „ 7.9 „
VI.	Birmingham (Sheldon Rectory)	1.99 „ 7.7 „
VII.	Hallaton Hall	1.75 „ 7.9 „
„	Ketton Vicarage.....	2.16 „ 9.9 „
„	Tinwell, South View Farm [Stamford] ...	1.90 „ 8.5 „
„	Burley-on-the-Hill	2.07 „ 8.5 „
„	Tolethorpe Hall [Stamford].....	1.79 „ 8.5 „
„	Market Overton	2.05 „ 8.4 „
„	Market Deeping (Wilsthorpe)	1.70 „ 8.5 „
„	Grantham (Little Ponton Rectory).....	1.82 „ 7.5 „
„	„ (Saltersford)	2.23 „ 10.1 „
„	„ (Guildhall)	1.58 „ 7.7 „
„	„ (High Street)	2.00 „ 9.2 „
„	Horbling (The Hall)	2.22 „ 10.2 „
„	Boston (Black Sluice, Skirbeck)	1.80 „ 8.9 „
„	„ (Grand Sluice)	1.75 „ 8.6 „
„	Boston	1.80 „ 9.1 „
„	Sleaford (Rauceby Hall)	1.78 „ 7.6 „
„	Leake (Lade Bank Engines).....	1.71 „ 7.8 „
„	Stubton [Newark]	1.65 „ 8.0 „
„	Leadenham Rectory	2.16 „ 9.8 „
„	Sleaford (Bloxholm)	1.75 „ 8.4 „
„	Temple Bruer	1.75 „ 8.1 „
„	Carrington Grange	2.13 „ 9.6 „
„	Kirkstead (Woodhall Spa)	1.61 „ 7.6 „

VII.	Horncastle (Revesby)	2·75 in. or 11·7 per cent.
„	Spilsby (Hagnaby Priory).....	2·69 „ 10·8 „
„	„ (East Keal Manor)	3·55 „ 14·0 „
„	„	2·65 „ 9·7 „
„	„ (Boston Road)	2·65 „ 10·4 „
„	„ (Hagworthingham)	2·60 „ 9·9 „
„	„ (Dalby Grange).....	3·00 „ 11·0 „
„	Horncastle (Bucknall)	1·74 „ 8·2 „
„	Lincoln (Branston).....	1·82 „ 8·0 „
„	„ (Boultham)	2·14 „ 8·6 „
„	„ (St. Botolph's).....	2·14 „ 10·1 „
„	„ (Doddington)	1·98 „ 8·9 „
„	„ (Brayford Wharf)	1·88 „ 8·2 „
„	„ (Skellingthorpe Hall).....	1·66 „ 7·8 „
„	Horncastle (Hemingby).....	2·93 „ 11·1 „
„	Louth (Gospelgate)	2·15 „ 7·7 „
„	„ (Westgate)	2·15 „ 7·6 „
„	Market Rasen	2·59 „ 9·5 „
„	Yarborough (The Rectory)	1·60 „ 7·7 „
„	North Thoresby Rectory).....	2·12 „ 9·0 „
„	Grimsby (Waltham)	2·29 „ 10·1 „
„	Nottingham (Beeston Fields)	1·93 „ 8·0 „
„	Nottingham (Burton Joyce W. W.).....	1·67 „ 7·5 „
„	Farnsfield.....	1·81 „ 7·6 „
„	North Collingham ..	1·62 „ 7·7 „
„	Melbourne (The Hollow)	1·88 „ 8·3 „
„	Derby (Duffield Road)	1·92 „ 8·0 „
IX.	Doncaster (Firsby)	2·22 „ 9·3 „
„	Mexborough.....	1·61 „ 7·5 „
„	Patrington (Spurn Head)	1·80 „ 9·7 „

DECEMBER 18TH.

S storms in the north brought the M to half a dozen stations, but the only one coming within our limits is—

X.	Morpeth	2·30 in. or 7·6 per cent.
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DECEMBER 28TH.

A heavy winter R in the west of England bringing the M to about 80 stations, but not furnishing one fall heavy enough to claim special notice. The greatest M recorded in amount was 2·18 in., and the greatest in percentage 7·2.

PART II.—ABSTRACT.

In discussing the heavy falls on rainfall days, Mr. Symons was wont to point out, year after year, with a persistency that at last seems to be producing some effect, that there is no part of the British Isles in which a fall of more than 4·00 in. on one day may not occur. This year provides a fresh demonstration of the fact; we wish that it would induce all new observers to see that their gauges can hold at least six inches of rain without overflowing.

Table I. shows the sixteen highest M recorded in the year. Two in the exceptionally wet Lake District exceed 5·00 in., and no less than seven give values between 4·00 in. and 5·00 in. These are inter-

esting, because while four of them are wet stations with an annual fall exceeding 60 inches, three are dry stations with an annual fall under 30 inches, and at one of these the annual fall is only 23 inches. A necessary result of this is that very high percentages are recorded, and consequently no fewer than five entries are common to Tables I. and III. Five of the entries in Table I. refer to the heavy winter rain of November 19th in the Lake District, four to the widespread winter rain of November 12th, and three to the thunderstorm of July 12th, which was memorable for its intensity around Maidenhead.

Table II. compares Table I. with the similar figures for previous years, and gives us a means of comparing the intensity of the heaviest falls with those of every year since 1865. It appears that although the mean of the sixteen M has been higher on five occasions, and the mean total fall at these stations has been lower on five occasions, so high a mean M has never before occurred with so low a mean fall; 1901 thus forms a record for heavy rain in a dry year. It is to be noted, however, that 1889 gave a lower total fall for the 16 stations, and so its lower average M gave the same percentage as 1901. The absolute M is not in any way remarkable.

Table III. does justice to the stations of low annual fall by presenting the 16 highest percentages of the annual fall which occurred on any one day in the year, and Table IV. (which, for typographical reasons, precedes Table III.) compares the results with previous years. Here the records of TSS at dry stations preponderate, as usual, six of the entries referring to the Maidenhead storm, seven to other TSS, and only two to winter rains. The mean of the M percentages is 14.1 of the fall, a figure surpassed only by 14.4 in 1890, and, with that exception, never approached more nearly than 12.7 in. in 1889. The absolute M percentage at Maidenhead is not a record, having been just surpassed in the Angerton storm of 1898.

Table V. deals with all the M of all the years since 1865, and affords a basis of comparison for the varying wetness of different periods. We may pause to consider the vast amount of work which this Table compresses into a page of figures. It gives values calculated from 57,031 maximum falls; but in order to select the one reading at each station for each year, every observer required to examine his guage 365 or 366 times, a grand total of 20,828,324 readings of rainfall.

The mean percentage which the M formed of the annual fall in 1901 is shown by this table to be the greatest ever recorded; but, as pointed out when speaking of Table II., this was due not to

unprecedentedly heavy falls, nor to unprecedentedly low annual totals, but to the fact that the falls were heavier than usual in a year that was drier than usual. This is clearly shown by arranging in order of magnitude the average *M* of the nine years when that value was highest, and side by side with it, placing the average total rainfall of the nine driest years in the order of their dryness. It will be noticed that 1901 is the only year common to the two series :—

Comparison of the 9 years of Heaviest Mean Max. Fall with the 9 years of Lowest Mean Total Rainfall (from TABLE V.)

Heavy M.			Low Mean R.		
in.	Per cent.	Year.	in.	Per cent.	Year.
1·83	5·0	1875	25	4·5	1887
1·72	4·8	1880	27	4·9	1870
1·70	5·1	1865	27	4·8	1893
1·64	4·6	1886	28	4·8	1884
1·62	5·4	1892	28	5·0	1898
1·61	4·6	1900	28	5·7	1901
1·59	3·4	1872	29	5·0	1890
1·58	5·7	1901	29	4·8	1889
1·56	3·8	1877	29	4·6	1873

Table VI. shows that the number of *M* exceeding 2·00 in. in amount was the greatest recorded, with the exception of 1900, as regards actual number, though not as a percentage of the total number ; but the number of *M* exceeding 3·00 was surpassed on three occasions. It is to be noticed however that the percentage, which is a strictly comparable quantity, exceeded the average by almost exactly one-half in the case both of 2·00 in. and of 3·00 in. falls.

The verdict on the year must be—very dry, but with an exceptional number of heavy rains both in summer and winter.

TABLE I.—*Maximum Falls in 1901.*

Date.	Div.	Station.	Depth.	Per Cent.	Total.
Nov. 19 ...	X.	Dungeon Ghyll	5·66 in.	5·7	98·87 in.
" " ...	"	Elterwater Hall	5·27 "	6·8	77·20 "
Jan. 26 ...	XI.	Rhayader, Abergwngy	4·60 "	7·9	58·30 "
Nov. 19 ...	X.	Ambleside, Skelwith Bridge	4·57 "	6·0	76·79 "
" " ...	"	Borrowdale, Seathwaite ...	4·27 "	3·9	110·69 "
July 12 ...	II.	Maidenhead, The Firs, Castle Hill	4·24 "	17·9	23·70 "
Nov. 12 ...	X.	Wolsingham	4·21 "	14·1	29·94 "
July 12 ...	III.	Woburn, The Chestnuts ...	4·10 "	17·8	23·00 "
Dec. 7 ...	XI.	Taff Fechan, Neuadd Res., No. 4	4·02 "	6·4	62·64 "
Aug. 10 ...	XIII.	Galashiels, Abbotsford Road	3·98 "	12·4	32·19 "
Nov. 12 ...	X.	Eastgate, All Saints' Vic. ...	3·86 "	10·7	35·96 "
" " ...	"	Rothbury, Cragside	3·81 "	11·0	34·55 "
" 19 ...	VIII.	Skelwith Fold [Ambleside]..	3·80 "	5·4	70·60 "
" 12 ...	IX.	Leyburn, Bolton Hall	3·70 "	11·8	31·42 "
Dec. 7 ...	XI.	Cardiff W.W., Beacons Res.	3·64 "	5·4	66·93 "
July 12 ...	II.	Maidenhead, Lowood ...	3·63 "	15·3	23·70 "

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	<i>m</i> 4·4	86·2	6·38	3·6	.....	„
1867 ...	3·17	9·0	<i>m</i> 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	<i>m</i> 2·9	.....	„
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	<i>m</i> 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	Glen-na-Smoel	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	.....	„
1886 ...	3·77	7·7	58·7	4·20	9·9	Little Bredy	V.
1887 ...	<i>m</i> 2·83	6·1	56·8	4·93	13·0	Galway Q. Coll.....	XXII.
1888 ...	4·20	5·9	77·0	5·20	5·4	Wythburn Vic.....	X.
1889 ...	3·89	<i>M</i> 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	<i>M</i> 108·4	6·14	4·2	Seathwaite... ..	X.
1892 ...	4·47	7·9	70·1	5·80	4·5	.....	„
1893 ...	3·84	5·8	89·6	4·96	3·5	.....	„
1894 ...	3·95	5·7	83·0	7·74	5·1	Ben Nevis Obs.....	XVIII.
1895 ...	3·80	7·2	62·2	4·83	16·1	Mellington Hall ...	XI.
1896 ...	3·31	5·9	67·5	4·59	3·7	Seathwaite	X.
1897 ...	<i>M</i> 5·24	5·3	95·1	<i>M</i> 8·03	5·6	.....	„
1898 ...	4·61	5·3	100·8	6·70	<i>M</i> 18·1	Angerton Hall.....	„
1899 ...	3·92	5·0	86·6	5·21	5·6	Borrowdale	„
1900 ...	4·29	8·0	64·1	5·40	11·9	Ilkley, Cherry Bank	IX.
Mean ...	3·78	6·3	71·8	5·43	7·3	.....	...
1901 ...	4·21	<i>M</i> 9·9	53·5	5·66	5·7	Dungeon Ghyll ...	X.
Diff. ...	+ 43	+ 3·6	— 18·3	+ 23	— 1·6	.....	...

TABLE III.—*Maximum Percentages in 1901.*

Date.	Div.	Station.	Per Cent.	Fall.	Total.
July 12 ...	II.	Maidenhead, The Firs, Castle Hill	17·9	4·24 in.	23·70 in.
„ „ ...	III.	Wooburn, The Chestnuts ...	17·8	4·10 „	23·00 „
„ „ ...	II.	Maidenhead, Cookham Vic.	16·1	3·36 „	20·86 „
„ „ ...	„	„ Lowood	15·3	3·63 „	23·70 „
Nov. 12 ...	X.	Wolsingham	14·1	4·21 „	29·94 „
Dec. 12 ...	VII.	East Keal Manor	14·0	3·55 „	25·44 „
July 25 ...	II.	Farnham, Short Heath Lodge	13·4	3·36 „	25·12 „
„ „ ...	„	„ The Bourne Vic...	13·4	3·35 „	25·01 „
„ 12 ...	„	Maidenhead, Stafferton Lodge	13·4	3·05 „	22·79 „
„ 27 ...	X.	West Hartlepool, Lynn St...	13·4	2·52 „	18·77 „
„ 29 ...	II.	Wadhurst, Lower Cousley Wood	13·1	3·25 „	24·83 „
„ 25 ...	I.	London, Camden Sq., N.W.	12·9	2·85 „	22·17 „
„ 26 ...	IV.	Great Leighs	12·8	2·76 „	21·57 „
„ 12 ...	III.	Hedsor	12·7	2·85 „	22·48 „
Nov. 12 ...	X.	Durham Observatory	12·5	2·87 „	22·93 „
Aug. 10 ...	XIII.	Galashiels, Abbotsford Road	12·4	3·98 „	32·19 „

TABLE VI.—*Max. Falls in each year exceeding 2·00 in., and exceeding 3·00 in.*

Year.	Total number of records.	Falls of 2·00 in. or more.		Falls of 3·00 in. or more	
		Number.	Per cent. of total No.	Number.	Per cent. of total No.
1882	1463	140	9·6	8	0·6
3	1505	170	11·3	23	1·5
4	1691	138	8·2	9	0·5
5	1801	179	10·0	24	1·3
6	1718	158	9·2	44	2·6
7	1921	52	<i>m</i> 2·7	4	<i>m</i> 0·2
8	1974	374	18·9	34	1·7
9	1812	170	9·4	24	1·3
1890	2081	345	16·6	54	2·6
1	2218	270	12·2	39	1·8
2	2231	470	21·1	81	<i>M</i> 3·6
3	2267	183	8·1	29	1·3
4	2321	313	13·5	36	1·6
5	2423	249	10·3	31	1·3
6	2465	249	10·1	16	0·6
7	2598	275	10·6	62	2·4
8	2691	373	13·9	72	2·7
9	2791	283	10·0	43	1·5
1900	2702	641	<i>M</i> 23·7	89	3·3
Mean	2141	265	12·1	38	1·7
1901	2747	497	18·1	68	2·5
Diff.	+606	+232	+ 6·0	+30	+0·8

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	<i>m</i> 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	<i>M</i> 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	<i>M</i> 3·76	37·5	13·2	3·95	Letheringsett ...	IV.
1876 ...	<i>m</i> 7·4	2·49	33·7	<i>m</i> 8·5	3·70	Cragside	X.
1877 ...	8·2	2·73	33·1	9·3	3·09	Wellington.....	VI.
1878 ...	10·2	3·05	30·0	11·8	3·90	Haverstock Hill	I.
1879 ...	10·9	3·31	30·5	12·3	3·80	Cambridge M. V.	III.
1880 ...	9·5	3·06	32·3	11·7	3·34	Marmont Pr. L.	„
1881 ...	8·1	2·42	30·3	10·6	3·20	Aboyne Castle..	XVII.
1882 ...	7·7	2·54	33·4	9·1	2·80	Bothalhaugh ...	X.
1883 ...	9·7	3·00	31·1	12·3	4·31	Skegness.....	VII.
1884 ...	11·7	2·33	<i>m</i> 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	<i>m</i> 2·11	21·9	13·0	4·93	Galway, Q. Coll.	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 ...	<i>M</i> 14·4	3·60	25·1	17·2	3·68	Slough, Langley	III.
1891 ...	9·7	2·67	27·6	14·4	4·00	Sunnyside Aslm	XVI.
1892 ...	12·3	3·37	27·4	15·0	4·27	Tyntesfield	V.
1893 ...	12·0	2·81	23·4	16·2	4·48	Cranmer Hall...	IV.
1894 ...	9·0	2·54	28·3	11·1	3·56	Sidecup.....	II.
1895 ...	10·0	2·87	28·8	16·1	4·83	Mellington Hall	XI.
1896 ...	9·5	2·50	26·3	11·1	2·78	Barkby	VII.
1897 ...	10·8	2·48	23·2	14·1	2·40	Chatteris, H. L.	III.
1898 ...	11·5	2·92	25·0	<i>M</i> 18·1	<i>M</i> 6·70	Angerton Hall..	X.
1899 ...	11·3	2·53	22·6	14·6	3·10	Wallingford ...	II.
1900 ...	11·3	3·37	29·8	13·1	4·50	Gilstead Filters	IX.
Mean ..	10·0	2·79	28·4	12·8	3·78	.....	...
1901 ...	14·1	3·37	24·0	17·9	4·24	Maidenh'd, The Firs	II.
Diff. ...	+ 4·1	+ ·58	— 4·4	+ 5·1	+ ·46	.....	...

TABLE V.—*Comparison of the Mean of all the Maximum Falls of 1901 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	<i>m</i> 3·4	1·59	<i>M</i> 47	<i>M</i> 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	<i>M</i> 1·83	37	109	<i>M</i> 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	<i>m</i> 1·14	<i>m</i> 25	<i>m</i> 74	<i>m</i> 3·4 „
1888.....	1974	4·4	1·41	32	94	4·1 „
1889.....	1812	4·8	1·41	29	85	4·1 „
1890.....	2081	5·0	1·46	29	85	4·3 „
1891.....	2218	4·1	1·47	35	103	4·3 „
1892.....	2231	5·4	1·62	30	88	4·8 „
1893.....	2267	4·8	1·30	27	79	3·8 „
1894.....	2321	4·2	1·46	35	103	4·3 „
1895.....	2423	4·5	1·37	30	88	4·0 „
1896.....	2465	4·4	1·33	30	88	3·9 „
1897.....	2598	4·1	1·36	33	97	4·0 „
1898.....	2691	5·0	1·42	28	82	4·2 „
1899.....	2791	4·7	1·42	30	88	4·2 „
1900.....	2702	4·6	1·61	35	103	4·7 „
Mean ...	1541	4·5	1·46	33	97	4·3 „
1901.....	2747	<i>M</i> 5·7	1·58	28	82	4·6 „
Diff.....	+1206	+ 1·2	+ ·12	— 5	—15	+ ·3 „

DROUGHTS IN 1901.

IN tabulating the records of this feature of the rainfall of 1901, the changes that have necessarily occurred in the stations employed have been greater than usual, namely, five; but care has been taken that they should not appreciably affect the comparison of the results with those for former years.

As in past years we quote the definitions of the droughts dealt with, for convenience of reference :—

ABSOLUTE DROUGHTS.—Periods of *more than* 14 consecutive days without measurable rain.

PARTIAL DROUGHTS.—Periods of *more than* 28 consecutive days the aggregate rainfall of which does not exceed 0·01 in. per diem.

Of the 50 stations selected, 28 are in England and Wales, 12 in Scotland, and 10 in Ireland.

At the 28 English stations 38 absolute and 7 partial droughts occurred.

„	12 Scottish	„	8	„	„	1	„	„	„
„	10 Irish	„	10	„	„	1	„	„	„

showing a much greater preponderance of droughts in England than in the other countries.

Dealing first with the absolute droughts we see from the summary that the total number recorded is very large, 56, or on the average more than one at each station. This number has only once been exceeded in fourteen years, and is fully borne out by the observers' remarks, where the references to drought are unusually numerous. From the general table for the 50 selected stations we see that absolute drought occurred in all parts of Ireland, Wales and—the extreme N. excepted—of England, but were rare in Scotland. Although numerous and widely distributed, the droughts were by no means prolonged, for both the average duration (17 days) and the maximum duration (20 days) are below the average, and nearly down to minimum values.

Turning now to the partial droughts, we find that they were by no means remarkable, for although the average duration and the maximum duration are both normal values, the total number of records is remarkably small, and the S. or S.E. of England is indicated as the only part of the United Kingdom where the occurrence of partial drought was at all general.

The next point of interest is the time of year at which the droughts, such as they were, occurred.

By far the most important numerically, commenced about May 10th or 11th, and generally lasted until nearly the end of the month. This drought yielded 37 records out of the total of 56 ; 23 in England and Wales, 4 in Scotland and 10 in Ireland. In short, it was general everywhere except at those stations where no drought occurred, namely, in the N. of England and the E. of Scotland.

The drought of greatest intensity commenced on, or a little after, July 3rd, and was recorded at 11 of the stations in England and Wales. It occurred somewhat irregularly at stations as far north as Yorkshire, and exhibited the greatest duration, for out of six instances of 20 days without rain, four occurred at this period—two of them in Devon, one in Stafford and one in Warwick.

The only other absolute drought calling for mention began about June 24th ; it was recorded at four stations in Scotland, two in the south, one in the extreme west and one in the north.

The nine instances of partial drought are mostly too insignificant to call for notice, but they were, in all important cases, a prolongation of the period commencing May 10th into the second week of June, and this was most marked in the S. of England. The maximum period of 56 days with 55 in. of rain at Dorking was an extension of the May drought backwards into April and forwards into June ; but even this is far from a long period for a partial drought.

	ABSOLUTE DROUGHTS.				PARTIAL DROUGHTS.			
	No. of Droughts.	Duration.		Stations without one.	No. of Droughts.	Duration.		Stations without one.
		Average.	Greatest.			Average.	Greatest.	
		days.	days.			days.	days.	
1888	17	17	20	35	4	42	50	46
1889	42	21	30	13	38	34	45	15
1890	13	18	20	39	3	30	31	47
1891	26	18	34	28	38	36	49	14
1892	36	16	20	25	17	35	64	33
1893	39	20	44	23	53	51	114	10
1894	52	18	31	10	44	37	62	13
1895	52	19	29	16	47	39	64	19
1896	27	18	26	25	49	40	75	16
1897	20	18	20	31	7	40	61	44
1898	31	17	28	27	31	38	77	26
1899	60	21	31	10	41	35	48	20
1900	14	17	21	38	9	32	35	41
Mean	33	18	27	25	29	38	60	26
1901	56	17	20	10	9	37	56	42
Diff.	+23	—1	—7	—15	—20	—1	—4	+16

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Amount.
ENGLAND & WALES.			Days			Days	in.
London (Camden Square), N.W.. <i>Middlesex.</i>	May 10 July 3	May 28 July 21	19 19	May 10	June 20	42	·34
Dorking (Abinger Hall) ... <i>Surrey.</i>	May 10 July 3	May 24 July 21	15 19	April 17	June 11	56	·55
Hythe..... <i>Kent.</i>	May 11	May 29	19	May 9	June 11	34	·31
Welwyn (Datchworth Rectory).. <i>Herts.</i>	May 10	May 28	19	May 10	June 11	33	·28
Stamford (Easton) <i>Northampton.</i>	May 10 July 6	May 24 July 21	15 16	None			
Geldeston [Beccles] <i>Norfolk.</i>	May 11	May 27	17	May 11 July 6	June 15 Aug. 13	36 39	·36 ·39
Calne (High Street)..... <i>Wilts.</i>	April 17 May 11	May 5 May 28	19 18	None			
Torquay (Cary Green)..... <i>Devon.</i>	July 3	July 22	20	None			
Bideford (Northam Vicarage) ... <i>Devon.</i>	July 3	July 22	20	None			
St. Austell (Trevarna) <i>Cornwall.</i>	May 11 July 3	May 28 July 21	18 19	None			
Ilminster (Ilton Vicarage) <i>Somerset.</i>	Feb. 8 April 16 May 10 July 4	Feb. 23 May 5 May 28 July 22	16 20 19 19	None			
Ross (The Graig) <i>Hereford.</i>	May 11	May 25	15	None			
Weston Park [Shifnal] <i>Stafford.</i>	May 10 July 3	May 25 July 22	16 20	None			
Kenilworth (The Spring) ... <i>Warwick.</i>	May 10 July 3	May 25 July 22	16 20	None			
Worksop (Hodsock Priory) <i>Notts.</i>	May 10	May 24	15	None			
Belper (Quarry Bank)..... <i>Derby.</i>	May 10 July 3	May 24 July 20	15 18	None			

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Amount.
			Days			Days	in.
St. Michael's-on-Wyre Vic. <i>Lancashire.</i>	May 11	May 25	15	None			
Knaresborough (Farnham) <i>York, W.R.</i>	May 10	May 24	15	None			
Lowthorpe (The Elms) <i>York, E.R.</i>	May 10 July 6	May 24 July 20	15 15	None			
Darlington (Hurworth Grange) ... <i>Durham.</i>	None			None			
Morpeth (Bothalhaugh Garden)... <i>Northumberland.</i>	None			None			
Pawston [Coldstream]..... <i>Northumberland.</i>	None			None			
Whitehaven (Irish Street) <i>Cumberland</i>	May 11	May 25	15	None			
Chepstow (Shirenewton Hall) .. <i>Monmouth</i>	May 11	May 28	18	None			
Haverfordwest (High Street) ... <i>Pembroke.</i>	May 11	May 28	18	None			
Churchstoke (Mellington Hall)... <i>Montgomery.</i>	May 11	May 25	15	None			
Denbigh (Garn).....	May 11	May 28	18	None			
Lligwy <i>Anglesea.</i>	Feb. 7 May 10	Feb. 23 May 25	17 16	June 23	July 23	31	·28
SCOTLAND.							
Garliestown (Galloway House) ... <i>Wigton.</i>	June 24	July 13	20	None			
Dumfries (Ivy Bank) <i>Dumfries.</i>	May 11 June 25	May 25 July 13	15 19	Jan. 28	Feb. 25	29	·28
Melrose Asylum <i>Roxburgh.</i>	None			None			
Edinburgh (Botanic Gardens) ... <i>Edinburgh.</i>	None			None			
Dalry (Blair) <i>Ayr.</i>	May 11	May 26	16	None			

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Amount.
			Days			Days	in.
Buchlyvie (The Manse) <i>Stirling.</i>	None			None			
Strontian (Laudale)..... <i>Argyll.</i>	None			None			
Islay (Eallabus) <i>Argyll.</i>	May 12 June 25	May 26 July 9	15 15	None			
Kirriemuir (Lintrathen) ... <i>Forfar.</i>	None			None			
Aberdeen (Cranford) <i>Aberdeen.</i>	None			None			
Alness (Ardross Castle) <i>Ross.</i>	None			None			
Golspie (Dunrobin Castle) <i>Sutherland.</i>	May 11 June 23	May 26 July 8	16 16	None			
IRELAND.							
Dunmanway (Coolkelure) <i>Cork.</i>	May 11	May 27	17	None			
Killarney (District Asylum) <i>Kerry.</i>	May 11	May 27	17	None			
Clonmel (Bruce Villa) <i>Tipperary.</i>	May 11	May 27	17	None			
Enniscorthy (Ballyhyland)..... <i>Wexford.</i>	May 11	May 27	17	June 23	July 22	30	23
Bray (Fassaroe) <i>Wicklow.</i>	May 11	May 25	15	None			
Athlone (Twyford) <i>Westmeath.</i>	May 11	May 25	15	None			
Ballinasloe..... <i>Galway.</i>	May 11	May 25	15	None			
Collooney (Markree Observatory) <i>Sligo.</i>	May 11	May 25	15	None			
Belfast (Springfield) <i>Antrim.</i>	May 11	May 25	15	None			
Stewartstown (The Square) <i>Tyrone.</i>	May 11	May 25	15	None			

MONTHLY RAINFALL OF 1901.

THE distribution of the annual rainfall throughout the months of the year is a matter of great interest and importance. It is dealt with in considerable detail from month to month in the tables published in the *Meteorological Magazine*, where the results of 156 stations are published, with the relation to the average fall of the month at nearly 50. But it is only when the annual returns are received that it is possible to treat the subject at all adequately. So far as actual falls are concerned we publish a table showing the monthly totals for 232 stations, uniformly distributed over the British Isles so as to represent the true facts as nearly as possible.

Monthly rainfall is subject to great variations in amount, and in arriving at an average it is more necessary even than in the case of annual rainfall to make use of a long series of observations. But it is impossible to get a large number of uniformly distributed stations, at all of which a record has been kept up for the same long period, and some method must be adopted by which the nearest approach to a true representation of the facts can be secured. It is undesirable that the two publications of the British Rainfall Organization should adopt different standards of reference, and accordingly we follow here the method which has been found serviceable in the *Meteorological Magazine* for 1901, as fully explained in the number for February of that year (Vol. 36, p. 16). It is sufficient here to say that the monthly fall at each station is calculated on the basis of the 30 years 1870-99, but is adjusted so as to add up to the average yearly total of the ten years 1890-99, and although the decade 1890-99 was decidedly drier than the average of 30 years, the difference when distributed over twelve months is scarcely perceptible. The reason for adopting this course is that there is not a sufficient number of stations with a 30 years' average to allow of a representative distribution being obtained.

While the table of monthly falls at 232 stations gives excellent information as to the actual fall of rain over the British Isles, and the Observers' Notes on the months furnish many additional particulars, they require to be supplemented by an account of the relative fall

in different parts of the country compared with the average. For this purpose the twelve little maps between pp. [146] and [147]. have been prepared. On looking at the corresponding section of any recent volume of *British Rainfall*, it will be noticed that a very serious qualification has always been insisted upon when describing the signs used on the maps. The + sign denoted stations where the fall was 1·00 in. or more above, the — sign stations where it was 1·00 in. or more below, the average for the month, no matter whether that average was less than 2·00 in., or more than 10·00 in. This meant that the maps did not explain themselves immediately to the eye, and that their indications had to be corrected by a commentary. The little maps have always been recognised as mere diagrams intended to give a general impression of the relative dryness and wetness of the months, and, reluctant as we are to change even the form of representation, when there is any possibility that the change might be for the worse, we feel confident that the very slight alteration in this case is so clearly for the better that it will win the approval of all our readers. What we have done is to use the old signs to express differences from the average in percentages, instead of in inches.

The difference is so slight with the percentages we have chosen that it produces no material effect over the south-eastern half of Great Britain, and only in a few cases in the remaining half; the advantage is great, for the meaning of the sign is now the same in all parts of the maps. Since monthly rainfall *may be* as low as 0·00 in. at many stations, and as high as 30 or 40 inches at some, it is obvious that wider limits are admissible in determining what constitutes a dry or wet month, than in the case of annual rainfall. After much consideration we have resolved to indicate by + any station where the rainfall exceeds the average by 50 per cent., or more, and by — any station at which the rainfall falls short of the average by 50 per cent., or more. Within 50 per cent. of the average we indicate the station by a dot. In the very usual case of an average fall of 2·00 in. in a month, any fall over 3·00 in. is shown as +, any fall under 1·00 in. as —, exactly as it was in the former system, while any fall between 1·00 in. and 2·00 in. is shown by a dot.

In writing the short summaries that follow we have utilized all sources of information, and give expression to opinions formed when the monthly returns first reached us, and revised in the light of the annual returns and the Observers' Notes.

JANUARY.

A month with rainfall considerably under the average in all parts of the country. The map does not show a single +. The east of England was very dry, less than an inch of rain falling over the whole district from the Humber to the Thames, where the rainfall averaged only 42 per cent. of the normal amount. The whole of Great Britain had less than the average, except the extreme S.W. of England and Wales, and the extreme N. of Scotland, where the average was very slightly exceeded at a few stations.

In Ireland the rainfall was very nearly the average, only one of the stations considered had more than 18 per cent. above, and only one more than 5 per cent. below it. It is noteworthy, however, that in all parts of the British Isles the number of days with rain was considerable, a fact which throws the absence of heavy falls into greater prominence.

FEBRUARY.

A dry month in all parts of the country. The map does not show a single +, and the average was slightly exceeded in only three districts, all in the east or south-east; indicating the prevalence of easterly winds. The month was very cold, as well as very dry, a considerable proportion of the precipitation being in the form of snow. The centres of comparatively heavy fall were in the neighbourhood of the South Downs, in Sussex and Hampshire, where the fall was mainly on the 4th and 5th, the East Riding of Yorkshire, and the north-east of Scotland. Of these the East Riding was apparently the wettest, two stations indicating excesses of 18 and 35 per cent. respectively. A ladder of — signs will be observed running up the western side of Great Britain, from Dorset to the west of Invernessshire, and though some steps are missing, the intervening stations all had deficiencies, which nearly justify an unbroken run of — signs along the west of England and Scotland.

In Ireland every station had less than the average, and the normal distribution of rain was completely inverted, for the western half of the island was much drier than the eastern, as the grouping of — signs on the map clearly shows; yet at many of the stations some rain was recorded on every day of the month.

Taking into account not the percentage but the actual amount of rain, we are struck by the occurrence of three isolated areas with less than 1.00 in.; the most remarkable being in the south-west of

Ireland, extending from Kenmare river to Galway Bay ; the next in the west of England, including parts of the valleys of the Somerset Avon, the lower Severn and Wye, and the upper Thames ; the third in southern East Anglia.

MARCH.

A succession of early TSS and some snowstorms made this a wet month on the whole, and half-a-dozen + signs appear on the map, which, however, shows a somewhat irregular distribution of rain. The whole of England and Wales, as far north as Yorkshire, would have had more than the average but that three stations in the south appear to have escaped the worst of the TSS and snowstorms. One of these, however, had only 1 per cent. short of the average, and the others were not very far behind. The wettest district was decidedly that on the borders of England and Wales, where Woolstaston gave the very high value of 230 per cent., or nearly $2\frac{1}{3}$ times the average fall.

Scotland and the extreme north of England, on the other hand, on the whole had less than the average, although only one --- sign appears. The western half of the country was drier than the eastern, where two stations show exactly the average, and one a considerable excess.

Ireland had no marked extremes, although the greater part of the country showed values above the average, and at Omagh very little more rain would have necessitated the use of a + sign.

APRIL.

This proved to be a wetter month than March ; the map shows only one — sign (at Dublin), but + signs are plentifully distributed, and except for three stations in the N.E. of England, and three in the N. of Scotland (two of which show a deficiency of 1 per cent. only) the dots all refer to values above the average. The wetness of the month is remarkable, because over the whole of the British Isles the second fortnight was almost rainless, but the first week was excessively wet everywhere, though the daily falls were rarely heavy enough to yield a maximum fall. Over Wales and southern England, as far north as Warwickshire, Northampton and Suffolk, the excess of rainfall averaged fully 50 per cent. ; the same is true of the south of the West Riding, the Lake district, and southern and western Scotland. These two wet regions were separated by a

dry belt occupying Lancashire, Cheshire, Derbyshire, Nottingham, and Lincoln, in which the rainfall scarcely exceeded the average, and in some places fell short of it, and a more important dry area extended along the east coast from Hull to the Firth of Forth. The dot at Newcastle in the centre of this dry area represents a deficiency of 45 per cent., so it is not far removed from a —.

Except for Dublin, where a — appears opposite the dry belt of central England, the whole of Ireland had a rainfall much exceeding the average, an extra .03 in. of rain would have converted the dot in the centre of the island into a +.

MAY.

A very dry month, including absolute droughts of from 15 to 19 days duration, in all parts of the British Isles. The few scattered stations which received a fall slightly exceeding the average owed their excess to local rains on the 26th and 30th. The connected series of — signs running from the centre of Wales through Derbyshire and Yorkshire to the Lake District, clearly denotes the area where the drought was most severe. The three dots lying within the bend of the curve represent low values, the highest being 57 per cent. of the average; it is thus apparent that the north of England suffered from a serious shortage of rain. At Gogerddan, Aberystwith, the fall was remarkably deficient, only 16 per cent. of the average being registered.

The east of Scotland had rather more than the average fall, Aberdeen recording an excess of 20 per cent., but on the west the drought was remarkable, the wet stations of Fort William and Glen-carron having only 34 and 31 per cent. respectively or less than one-third of the normal fall. A curious inversion of the distribution of rain is noticed on looking at the actual figures, some stations in the west having received only half as much rain as fell on the east coast.

All Ireland had less than the average, the dots on the map representing a deficiency of about 30 per cent.

JUNE.

Taking the whole of the British Isles into consideration the rainfall of June was probably just about the average. Both Scotland and Ireland, as the dots on the map show, were on the whole fully supplied with rain, and the distribution requires no special comment.

In England, however, there are several points of interest. If it had not been for the heavy rains of the 29th and 30th, which were responsible for many maximum falls in the south and west, June would have reproduced the very dry character of May. The last two days, however, are responsible for the quadrilateral of + signs about the British Channel and South Wales, and for the dots with which they are interspersed, denoting falls of from 23 to 30 per cent. above the average. This rain also was the cause of the absence of — signs from the map, especially in the south-east of England where from one-third to one-half of the fall for the month occurred on the last day. But even taking this storm into account, June was a month of deficient rainfall over the whole of England, except for the stations round the Bristol Channel and in the Severn valley. At Hull a local TS brought the fall just above the average, but over the rest of Yorkshire, Lancashire, and the northern counties there was a deficiency of fully one-third of the normal supply. A similar deficiency prevailed over the country from the Thames to the Humber.

JULY.

This was a remarkably dry month, with very heavy thunderstorm rains, which yielded the M over many scattered areas. Consequently there are many records of absolute droughts of from 15 to 20 days' duration, and of maximum falls at the same stations, and the map shows all the signs of excess and deficiency together. This condition is typical of a hot summer month. Ireland, escaping the TSS, suffered from extreme drought, the mean of the stations shown on the map being only 45 per cent., or less than half the average. The actual rainfall over the "Emerald Isle" is even more remarkable, for a broad belt of the interior running from south to north, had less than 1·00 in. of rain, and only a little patch round Dublin, and another near Galway Bay, had as much as 2·00 in.

In Scotland as a whole the drought was not quite so severe, although the chain of — signs from Ayrshire to Aberdeenshire denotes what was both absolutely and relatively the driest tract in the British Isles during July, the fall over the greater part of it, being well under 1·00 in., and not exceeding 30 per cent. of the average.

Over England and Wales the + and — signs are mixed together in some confusion, and the condition of things may be best under-

stood by considering that if the thunderstorms were left out of account practically all the signs would be —. Hence we can understand that the three + signs which appear denote stations which happened to lie near the centre of a small but severe storm. This is very clearly shown in the case of London, which lies in the centre of a quadrilateral of four dots, denoting falls below the average, and would have been below the average itself but for two hours of torrential rain which the other stations missed. It will be observed that for the third month in succession Yorkshire and the Lake District had a great scarcity of rain; Seathwaite, normally the wettest station in England, having only one quarter of its usual fall.

AUGUST.

On the whole a month of average rainfall, August yields a map showing only two + and three — signs, while the dots indicate nearly as many stations above as below the average. There is, consequently, little calling for remark, except that Yorkshire and Lancashire show no excess of rainfall to make up for the long continued drought, while England as a whole was relatively drier than either Scotland or Ireland. The + at Hull was the result of the severe TS and H of the 10th, which brought the total for the month, otherwise normal, up to more than twice the average.

SEPTEMBER.

The map for September shows that Great Britain was extremely dry and Ireland very wet. Looking first at the latter, it will be noticed that all the signs are +, except three in the north, only one of which indicates a fall below the average. The extreme wetness of the south of Ireland extended to the south-westerly tip of Wales, where a solitary + appears, and also to the extreme S. of Cornwall, Devon and Dorset, though this is only indicated on the map by the fall at Cerne Abbas exceeding the average. No other dot on the map of England indicates a fall above the average, and it may be said that generally September was an unusually dry and fine harvest month in the south, with as much rain as was required. In the north of England, however, the condition was very different, for, as the solid phalanx of — signs suggests, the drought there assumed serious proportions, interfering with work in mines and factories, and threatening to produce a water famine in the large towns.*

* See *Met. Mag.* for October, 1901, p. 148.

Scotland, too, was exceptionally dry, especially in the high land south of the Moray Firth.

The actual amount of rainfall on the land makes the contrast between Great Britain and Ireland even more pronounced. While the average fall for Ireland was about five inches, the greater part of England and the eastern half of Scotland had less than two inches, and a very large stretch of country, including the East and North Ridings, the southern half of the West Riding and of Lancashire, all Cheshire, Derbyshire, Nottingham, and most of Lincoln, had less than one inch of rain. This marked the culmination but not the end of the dry period in the north of England.

OCTOBER.

A month of low rainfall with the deficiency very uniformly distributed. The map shows one — at Stroud, where there was an exceptionally dry area of small dimensions, and one + in Mull. All the rest of the British Islands had a rainfall within 50 per cent. of the average, and for the most part below it. Only three of the stations shown in England, and these almost as widely separated from each other as the limits of the map permit, exceeded the average, and it is worthy of note that the severe drought of September in the north of England was followed by a deficiency in October of from 20 to 40 per cent.

The west of Scotland and the centre of Ireland had slightly more than the average, the rest of both countries slightly less. The map for October shows a more uniform distribution of rainfall with reference to the average than that of any other month in 1901.

NOVEMBER.

Over a large area in the south and east of England the rainfall for the month was less than one inch, a remarkably low value for a winter month. There were in contrast three large areas over which more than five inches and at some stations more than six inches of rain fell. These occupied (1) North Wales, (2) the northern half of Lancashire, the West Riding of Yorkshire and the northern counties of England, and (3) the extreme north of Ireland and the west of Scotland. The map for November shows that Ireland had a nearly normal distribution of rain, and that Scotland had on the whole a little less than the average, but it does full justice to the really remarkable contrast in England. The mass of — signs in the south points

out the area of almost unexampled drought, the lowest tier representing values well under 25 per cent., or one-quarter, of the average. The line of dots from Aberystwith to Boston denotes values for the most part not more than 10 per cent. below the average, the line immediately above it from Llandudno towards the Humber denotes values about 30 per cent. above the average, and then the group of + signs shows falls averaging more than 200 per cent., or double the average amount. This very wet area corresponds to that which had suffered from a nearly continuous and increasing dearth of rain since the beginning of the year, and although the heavy falls (especially of the 11th and 12th) relieved the fear of a water famine, they did not make up the long accumulated deficiency.* The two dots north of the group of + signs denote falls exceeding the average by from 10 to 20 per cent., and practically the whole of Scotland north of the Clyde and Forth had less than average rain, the driest part of the country being in the eastern Highlands.

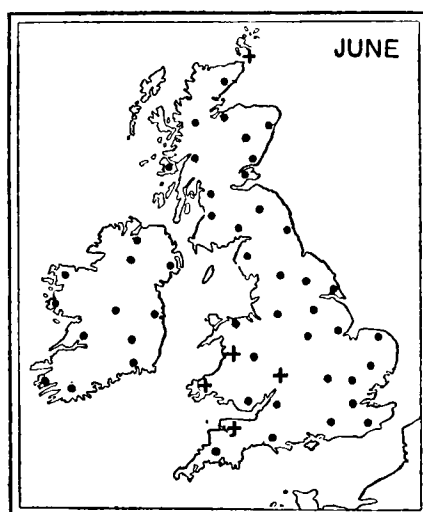
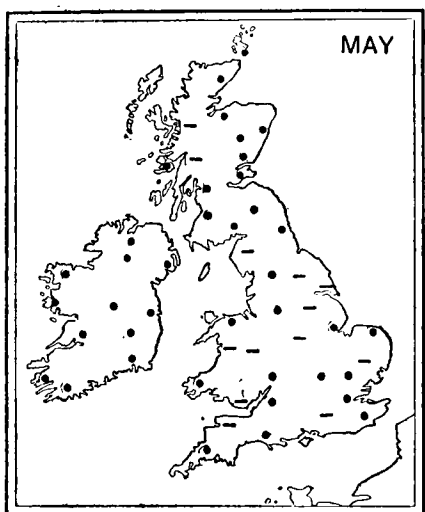
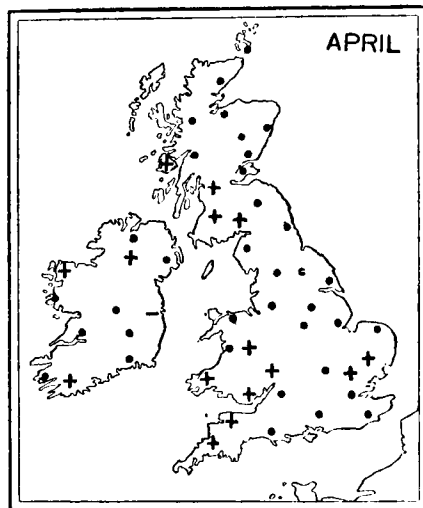
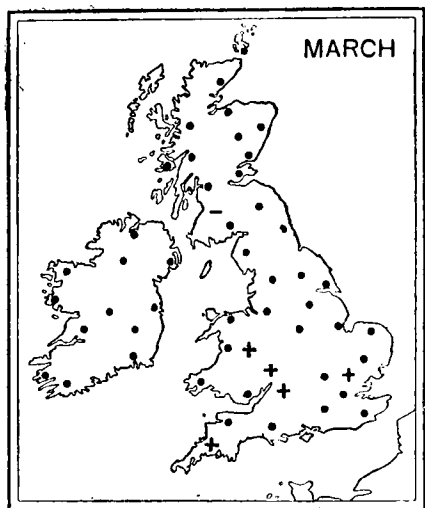
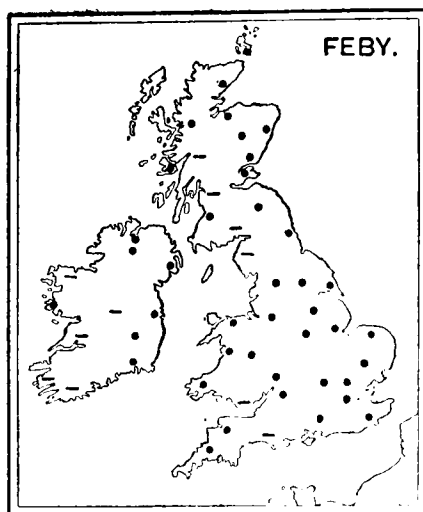
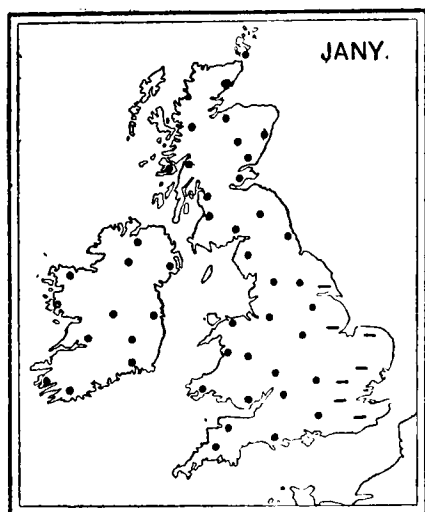
DECEMBER.

The last month of the year is the only one which may be classed as wet, without qualification for the British Isles as a whole, and for Scotland in particular. For Ireland, it can only be called rather wet, in fact it was very near the average, but without any risk of exaggeration, England may be termed very wet. The map shows that almost all England is marked with the + sign. Three coast stations in Wales had far over the average, and almost deserve a + also, as do two of those shown by dots in the north. The remaining dot indicates that Seathwaite had little more than its average fall. Over the east central section of England, from the Wash nearly to the Tees, and as far west as the centre of the Pennine chain, the rainfall was more than twice the average, largely in consequence of severe snowstorms.† The high rainfall over England, as a whole, was in great part due to the storm of the 12th, which is dealt with in the section referring to the maximum falls. In Scotland, although there is no + sign on the map, the fall reached, or exceeded, the average at all the stations represented, except Loch Leven, which had a remarkably small fall, supported to some extent by other stations, for which there is no average available; but the average excess over Scotland cannot have been much less than 20 per cent.

* See *Met. Mag.* for December, 1901, p. 179.

† See *Met. Mag.*, January, 1902, Vol. 36, p. 196.

MAPS OF MONTHLY RAINFALL, 1901.

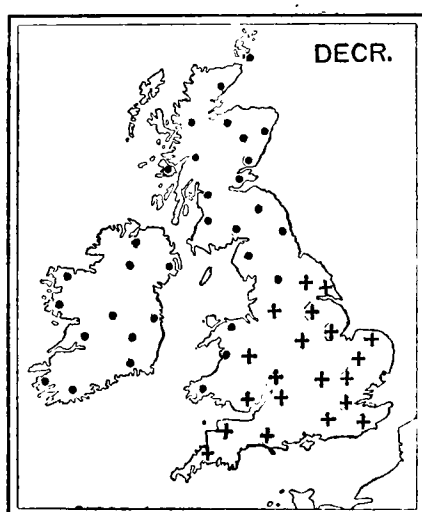
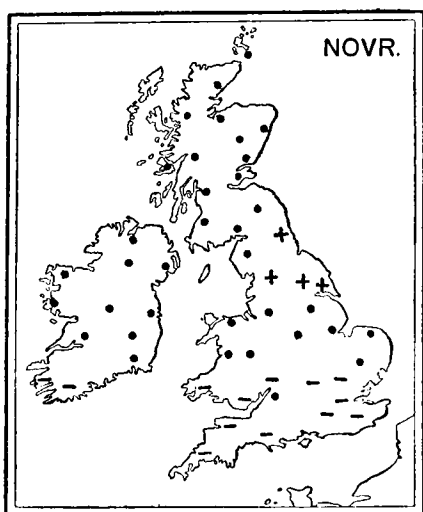
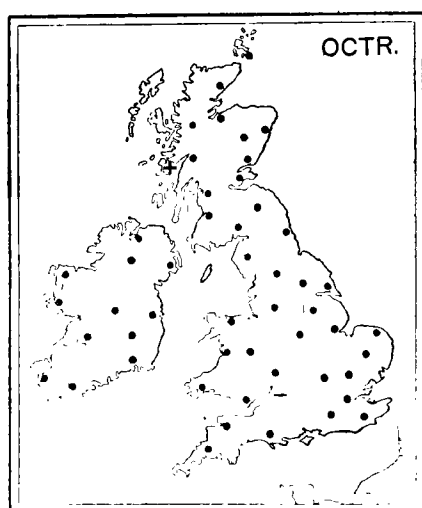
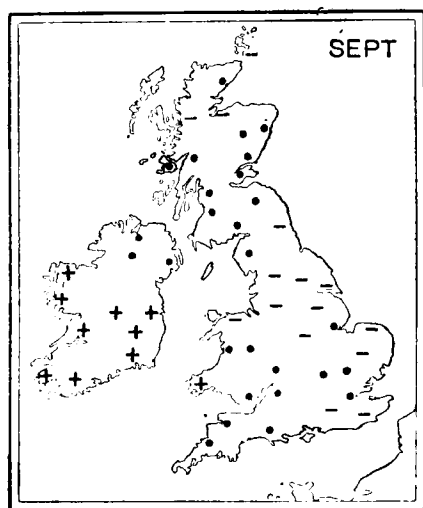
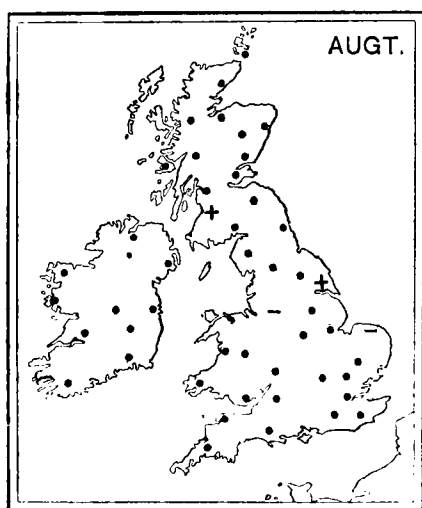
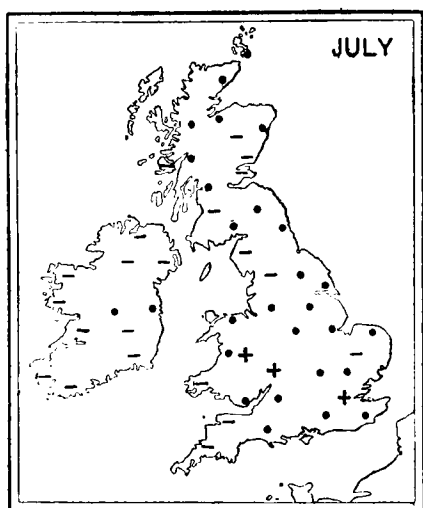


+ More than 50% above average.
 — „ „ 50% below „

• Within 50% of average.

Between pp. [146] & [147].

MAPS OF MONTHLY RAINFALL, 1901.



+ More than 50% above average.
 — „ „ 50% below „

• Within 50% of average.

Between pp. [146] & [147].

MONTHLY RAINFALL AT 232 STATIONS IN THE BRITISH ISLES DURING 1901.

ENGLAND.

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
I.	Middlesex	London (Camden Square) ...	.55	1.21	2.14	2.15	.84	1.25	5.04	1.79	1.62	1.92	.59	3.07	22.17
II.	Surrey	Guildford (Epsom Road).....	1.40	2.57	2.18	2.33	.44	2.10	1.40	1.56	1.29	2.37	.65	4.43	22.72
"	Kent	Tenterden <i>Snowdon</i>	.97	1.84	1.87	2.06	1.01	1.60	2.22	2.09	.86	2.11	.59	5.14	22.36
"	"	Hythe .....	.75	2.16	2.18	1.74	.77	1.41	1.58	2.63	1.17	1.79	.74	4.71	21.63
"	"	Sevenoaks (Riverhead Vic.)	.64	1.23	2.42	2.43	.73	1.78	1.02	1.96	1.40	2.85	.77	4.63	21.86
"	"	Ospringe (Lorenden) .....	.68	1.58	2.36	2.03	.67	.86	1.60	1.03	1.09	2.26	.89	4.72	19.77
"	Sussex	Arundel (Patching)	1.10	2.12	1.92	2.29	.85	2.36	2.94	1.54	1.96	3.51	.42	4.52	25.53
"	"	Maresfield (Forest Lodge) ..	1.04	2.18	2.13	2.69	1.21	1.11	1.90	1.55	1.42	2.69	.71	5.62	24.25
"	Hants	I. of Wight (Sandown).....	1.26	1.80	2.95	2.85	.35	2.93	2.90	1.30	3.15	3.47	.68	4.31	27.98
"	"	Bps. Waltham (Swanmore Ho.)	.80	1.96	2.17	2.49	.70	2.42	3.11	2.18	2.04	3.08	.47	4.67	26.09
"	"	Basingstoke (Sherborne S.J.)	1.55	1.94	2.12	2.31	.72	1.57	2.16	1.89	1.51	2.35	.51	4.80	23.43
"	Berks	Newbury (Welford Park) <i>Jo.g.</i>	1.68	1.85	1.94	2.63	1.26	1.83	3.82	2.17	2.36	1.39	.85	5.29	27.07
III.	Herts	Hertford (Bayfordbury).....	.67	1.58	2.06	1.68	1.44	.82	2.27	1.86	1.00	1.65	.73	3.68	19.44
"	"	Royston, Therfield Rectory..	.75	1.11	2.66	2.42	1.12	1.52	2.68	1.56	1.25	1.51	1.05	2.93	20.56
"	"	Slough (Upton)	1.02	1.47	1.55	1.82	.51	.98	.81	1.86	1.23	1.81	.41	3.40	16.87
"	"	Buckingham (Adstock) .....	.92	1.30	1.91	1.99	1.76	1.06	2.29	1.81	1.55	1.55	.70	2.76	19.60
"	Oxford	Henley (Northfield House)..	1.43	1.66	1.71	3.04	.75	1.50	2.16	2.32	1.63	2.27	.65	4.18	23.30
"	"	Oxford (Magdalen Coll.) ...	1.00	1.22	1.41	1.95	1.27	1.39	4.34	1.94	2.01	1.19	.41	3.28	21.41
"	Northampton	Wellingborough (Swanspool)	.97	.96	2.38	2.46	1.64	1.54	1.23	2.10	1.53	1.97	.79	3.06	20.63
"	Bedford	Shillington .....	.75	.96	2.56	2.27	1.00	1.01	2.45	1.48	1.47	2.05	1.06	3.19	20.25
"	Cambridge	Ely (Stretham) .....	.42	.58	1.52	1.87	.72	1.62	1.35	1.49	.83	2.13	1.15	1.89	15.57
"	"	Wisbech (Bank House).....	.73	1.17	1.90	1.92	1.15	.63	1.48	1.84	.87	1.51	1.39	3.77	18.36
IV.	Essex	Loughton (High Beech) ...	.53	1.02	1.89	1.80	1.92	.55	1.74	1.52	1.79	2.10	.41	3.13	18.40
"	"	Chelmsford (High Street)...	.87	.99	2.22	1.67	1.02	1.10	2.25	1.56	1.24	2.30	.70	3.58	19.50
"	"	Braintree (Bocking Place)...	.42	.89	2.29	1.96	.90	1.52	1.49	1.51	1.26	2.30	.80	3.69	19.03
"	Suffolk	Ipswich (Woolverstone Pk.)	.52	.82	1.60	1.50	.63	1.52	1.39	1.19	.94	1.80	1.07	3.49	16.47
"	"	Haverhill (Great Thurlow).	.48	.76	1.76	2.40	1.01	2.39	1.45	1.61	1.79	2.28	1.13	2.87	19.93
"	"	Aldborough (Aldringham Ho.)	.44	.77	1.90	1.88	.65	1.33	1.36	1.06	.84	2.47	1.60	3.66	17.96
"	Norfolk	Geldeston [Beccles] .....	.41	1.51	1.89	2.13	.95	1.99	1.04	.98	1.05	1.99	1.87	4.26	20.07
"	"	Swaffham .....	.67	1.19	1.70	2.26	1.00	1.10	.92	1.51	1.21	2.65	1.93	3.94	20.08
"	"	Holt (Field Dalling) .....	.57	1.74	2.51	1.43	.88	2.36	1.49	.98	1.11	2.02	2.42	3.46	20.97

ENGLAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
V.	Wilts	Salisbury (Alderbury)	1.56	1.83	1.87	2.42	1.18	.87	2.49	2.11	2.52	2.53	.54	5.07	24.99
"	"	Trowbridge (W.W. Biss)...	2.24	2.39	3.47	2.84	1.36	1.00	2.42	1.85	2.20	1.77	.79	6.37	28.70
"	"	Marlborough (Mildenhall).	1.62	1.73	2.36	2.72	1.51	1.88	3.62	2.21	2.69	2.01	1.06	5.98	29.39
"	Dorset	Beamminster Vic.	3.64	1.48	3.53	3.81	2.08	1.42	2.02	2.68	4.40	2.98	1.02	7.89	26.96
"	"	Wimborne (Chalbury).....	2.10	2.39	2.08	2.52	1.03	1.71	2.12	2.36	3.26	3.41	.48	4.89	28.35
"	"	Buckhorn Weston	2.56	1.30	2.58	2.08	1.16	1.27	3.23	2.59	2.45	1.85	.58	4.76	26.41
"	Devon	Buckfastleigh (Bossell Pk.)	5.67	2.20	6.84	6.81	2.08	1.73	1.99	2.43	5.00	2.96	1.16	12.03	50.90
"	"	Walkhampton (Lowery) ...	4.46	1.84	3.62	4.56	2.32	2.84	1.85	5.03	4.18	4.13	1.03	10.64	46.50
"	"	Exeter (Manston Terrace)	3.54	1.22	3.23	3.11	1.42	2.53	2.68	.99	2.55	1.69	.92	5.62	29.50
"	"	Cullompton	3.85	1.31	3.21	3.57	.69	2.64	1.37	1.57	2.70	2.58	1.01	6.50	31.06
"	"	South Molton (East Street)	5.77	1.51	2.32	3.50	.73	3.22	.97	3.02	3.08	3.76	1.81	7.56	37.25
"	Cornwall	Penzance (Penlee)	3.46	2.64	2.89	4.10	1.17	2.60	.70	1.57	4.89	2.52	.91	7.96	36.41
"	"	St. Agnes	3.96	2.01	3.05	4.50	.98	2.62	.89	1.05	4.21	2.58	.97	6.52	33.34
"	"	Bude	2.50	1.40	2.56	3.06	.65	2.54	1.37	2.43	2.04	3.19	1.39	6.24	29.37
"	Somerset	Ilminster (Ilton Vicarage).	3.17	1.26	2.55	2.61	1.41	1.37	2.85	1.29	3.22	2.46	1.29	7.14	30.62
"	"	Glastonbury (Street)	2.43	.92	1.59	2.32	.72	.66	2.37	1.87	2.23	2.18	.68	5.19	23.16
"	"	Holford (Woodlands House)	2.18	1.30	1.66	3.19	1.22	2.67	2.38	2.51	1.65	2.21	.49	6.15	27.61
VI.	Gloucester	Clifton (Pembroke Road)...	2.07	1.01	2.94	3.30	1.10	1.91	2.71	2.80	1.96	1.57	.50	5.42	27.29
"	"	Stroud (Upfield)	1.35	1.51	2.51	2.62	1.14	2.46	2.27	1.87	1.61	1.09	1.38	5.19	25.00
"	"	Fairford (Hatherop Rec)...	.93	1.03	2.08	2.82	1.52	2.14	3.23	2.14	1.66	1.69	.90	4.32	24.46
"	"	Moreton-in-Marsh (Longboro')	1.39	1.72	2.46	3.07	1.31	2.21	2.80	2.38	2.01	2.23	1.12	4.70	27.40
"	Hereford	Ross (The Graig)	1.52	.99	2.19	2.67	1.21	2.15	2.96	1.45	1.73	1.23	.87	4.48	23.45
"	"	Leominster (Farm)	1.78	.93	2.77	2.13	.64	2.34	2.35	1.46	1.67	1.33	.74	4.86	23.00
"	Salop	Ch. Stretton (Woolstaston)	2.14	1.16	4.08	2.97	1.02	2.79	3.83	1.81	1.25	2.34	1.68	4.56	29.63
"	"	Much Wenlock (Wiley Pk.)	2.16	1.66	2.42	1.92	1.09	3.19	2.84	1.64	1.18	2.13	1.46	4.18	25.87
"	"	Qwestry (The Mount Res.) ...	2.63	.92	3.62	3.11	1.37	2.02	4.04	2.39	1.50	3.93	3.86	5.27	34.66
"	Stafford	Penkridge (Rodbaston) ...	1.94	1.66	2.00	1.86	1.01	2.80	2.80	3.33	1.15	2.24	1.32	4.26	26.37
"	"	Burton (Shobnall)	1.50	1.16	1.73	1.55	.91	2.40	2.83	1.77	.69	1.76	1.35	4.58	22.23
"	"	Market Drayton (Old Springs)	1.87	1.63	2.48	2.43	1.46	2.39	3.59	3.17	1.38	3.00	2.34	3.59	29.33
"	Worcester	Malvern (Madresfield Rec.) ...	1.55	1.04	1.81	2.37	.95	2.61	2.02	2.24	1.37	1.28	.73	3.61	21.58
"	"	Stourbridge (Pedmore) ...	1.42	1.43	2.18	1.93	1.16	2.77	1.43	2.38	.96	1.45	1.09	4.79	22.99
"	Warwick	Leamington (The Parade)...	.55	1.20	1.20	2.41	.91	2.17	1.67	2.35	1.49	1.28	.56	3.33	19.12
"	"	Bedworth Cemetery	1.44	1.74	2.02	2.11	.88	2.46	4.12	1.65	1.07	1.52	.89	3.63	23.53
VII.	Leicester	Loughboro' (Nan Pantan Res)	1.26	1.22	2.28	1.55	.72	2.32	3.09	1.75	1.00	1.48	1.35	4.69	22.71
"	"	Belvoir Castle n.g.	1.07	1.55	1.95	1.70	1.24	1.62	2.69	1.39	.94	1.37	1.53	4.49	21.54

ENGLAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
VII.	Rutland	Market Overton	1.12	1.38	1.70	1.78	1.15	2.19	4.54	1.27	.87	1.75	1.26	5.27	24.28
"	Lincoln	Sleaford (Rauceby Hall)	1.41	1.66	1.95	1.55	1.59	1.48	2.78	1.85	.92	1.72	1.78	4.55	23.34
"	"	Market Rasen	.97	2.18	2.41	1.64	.80	1.37	2.81	3.89	.92	1.89	2.36	6.03	27.27
"	"	Burton-on-Stather	.85	1.64	1.47	1.27	1.08	1.81	1.48	2.73	1.30	1.77	2.88	4.89	23.17
"	Notts	Worksop (Welbeck)	1.39	1.20	2.38	1.35	.91	1.61	3.95	1.42	1.00	1.06	3.20	4.94	24.41
"	Derby	Darley Hall	2.50	1.68	3.71	1.83	1.33	1.41	4.23	1.49	.88	2.37	4.07	7.51	33.01
VIII.	Cheshire	Congleton (Buglawton Vic.)	1.99	1.40	1.99	2.87	1.73	1.69	3.28	2.50	.92	2.99	2.21	5.01	28.58
"	Lancashire	Manchester (Withington)	1.68	1.36	1.97	2.14	.83	1.64	3.44	1.41	.71	2.94	3.38	4.36	25.86
"	"	Ormskirk (Rufford)	2.04	1.81	2.36	1.85	.84	1.81	1.71	3.14	1.19	2.42	4.19	3.81	27.17
"	"	Burnley (Swinden, Lower)	3.02	2.26	3.52	3.13	1.60	1.58	1.93	2.64	1.50	3.82	6.74	6.10	37.84
"	"	St. Michael's-on-Wyre	1.79	1.78	3.67	1.90	.98	1.76	1.44	3.14	1.31	3.75	4.81	3.86	30.19
"	"	Cartmel (Pit Farm)	2.49	1.14	3.35	2.62	1.62	2.26	1.69	4.57	1.62	4.18	5.14	4.49	35.17
IX.	York, W. R.	Rotherham (Moorgate Grange)	1.33	1.11	1.82	1.32	1.50	1.30	3.27	.81	.84	1.86	2.99	5.88	24.03
"	"	Meltham (Harewood Lodge)	2.90	1.74	4.86	2.49	1.54	1.40	3.77	1.53	.71	3.08	6.65	7.58	38.25
"	"	South Milford Rectory	.93	1.55	2.02	1.68	1.33	1.74	1.49	1.23	.84	2.05	3.11	4.36	22.33
"	"	Malham Tarn <i>old g.</i>	4.62	2.07	4.33	3.64	2.11	2.45	1.91	6.52	2.67	4.44	9.14	7.76	51.66
"	"	Ripon (Mickley)	1.87	1.56	2.71	1.94	1.17	1.08	1.67	1.44	1.40	1.44	3.78	3.58	23.64
"	York, E. R.	Pattingham	.66	1.90	2.06	1.53	.51	1.54	.91	2.34	1.31	2.06	3.12	4.22	22.16
"	"	Pocklington (Warter)	1.54	2.28	2.22	1.83	.79	2.19	2.06	3.02	1.18	1.51	5.08	5.26	28.96
"	"	Lowthorpe (The Elms)	1.69	2.89	2.04	1.83	.78	1.61	.83	3.26	.53	1.67	3.84	4.05	25.02
"	York, N. R.	Thirsk (Sowerby)	1.04	2.12	2.55	1.61	.78	1.58	.94	1.51	1.20	1.78	2.81	3.77	21.69
"	"	Whitby (Royal Crescent)	2.15	2.56	2.71	1.26	1.45	.37	4.26	1.52	.76	2.24	3.98	3.73	26.04
"	"	Guisboro' (Hutton Hall)	1.35	3.05	1.80	1.31	2.12	1.63	5.22	3.12	.75	2.24	4.97	3.92	31.48
X.	Durham	Darlington (Hurworth Grange)	1.63	1.18	2.27	1.58	1.29	1.71	3.88	1.26	1.37	1.96	5.08	3.45	26.66
"	"	Hartlepool (Hurworth Burn)	1.41	2.20	2.33	1.13	1.64	1.57	3.21	2.16	1.10	2.06	4.76	3.13	26.70
"	"	Wolsingham	2.16	1.32	3.07	1.85	1.57	1.64	1.53	2.82	1.80	1.66	6.69	3.83	29.94
"	Northumberland	Corbridge (Howden Dene)	1.86	1.22	1.82	1.08	1.75	1.54	2.22	2.07	.90	3.10	4.63	3.25	25.44
"	"	Morpeth (Bothal Haugh Lawn)	1.48	1.44	1.68	.76	3.25	1.38	2.60	3.46	.94	1.81	4.54	3.60	26.94
"	"	Alwinton (Biddleston)	3.18	2.37	3.53	1.46	2.83	1.77	3.00	3.32	1.29	1.59	4.81	4.17	33.32
"	"	Howick Hall	1.75	2.31	2.05	1.28	2.53	1.30	1.60	2.39	1.43	1.99	4.61	4.91	28.15
"	Cumberland	Borrowdale (Seathwaite)	8.87	5.61	7.79	7.91	3.02	6.90	2.30	12.05	9.65	16.37	16.05	15.57	112.09
"	"	Brampton (Denton House)	1.88	1.17	1.71	1.64	1.16	1.68	1.17	3.30	1.01	3.25	4.24	3.88	26.09
"	Westmoreland	Kendal (Ivy Garth)	3.75	1.27	4.26	3.26	2.14	2.52	.94	3.17	3.00	4.87	4.78	5.92	39.88
"	"	Appleby (Ormside)	2.27	1.06	2.40	1.67	.90	2.00	1.00	2.46	1.27	2.45	3.27	4.02	24.77
"	"	Lowther Castle	2.26	1.00	2.97	2.74	1.54	1.69	1.87	3.07	1.65	3.31	4.92	4.31	31.33

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)	2·02	·84	2·64	4·31	1·63	3·56	2·44	3·57	2·58	1·79	1·12	6·48	32·98
"	"	Abergavenny(Larchfield) ..	3·28	1·68	3·97	4·27	1·14	1·89	2·22	2·11	3·05	2·17	1·45	5·36	32·59
"	Glamorgan.....	Cardiff Castle	2·26	·93	2·24	4·39	·96	3·11	2·87	4·22	4·78	2·69	1·10	6·32	35·87
"	"	Neath (Fairy Land).....	3·62	1·81	2·30	3·88	1·13	3·50	1·67	5·81	3·00	3·55	1·04	7·16	38·47
"	Carmarthen	Llanelli(Old Market Place)	3·68	1·28	3·26	4·15	1·11	3·34	1·76	4·92	4·83	4·13	1·23	7·06	40·75
"	"	Llandovery	4·17	1·24	4·51	3·96	·86	2·71	2·44	3·80	2·91	3·67	2·19	7·23	39·69
"	"	St. David's	3·18	1·71	2·46	2·96	·71	2·68	1·54	3·69	4·08	4·06	1·54	5·26	33·87
"	Pembroke	Aberystwith(NorthParade)	2·49	1·61	3·06	2·29	·33	2·93	2·53	4·43	2·00	3·65	3·26	4·08	32·66
"	Cardigan	Brecknock (Cantref Rec.)	3·81	2·51	6·92	4·95	1·33	2·24	2·19	3·13	2·97	3·10	2·43	7·76	43·34
"	Brecknock.....	Llysdinam [Newbridge] ...	3·48	1·12	4·57	3·78	1·30	2·00	2·56	3·09	2·64	2·94	2·71	6·69	36·88
"	"	Rhayader (Nantgwillt) o.g.	6·37	2·62	6·98	5·59	1·15	3·20	2·46	3·62	3·15	3·81	4·37	9·21	52·53
"	"	Churchstoke(MellingtonHall)	2·31	·95	4·10	2·51	1·30	2·37	4·45	1·55	1·37	2·65	1·94	4·63	30·63
"	Montgomery	St. Asaph (Nantllys)	2·39	1·17	2·14	1·50	·93	2·13	3·08	3·28	·80	1·81	4·07	4·74	28·04
"	Flint	Rosset (Trevalyn Hall) ...	2·18	1·28	2·16	1·83	1·66	2·12	3·18	1·91	·92	2·77	3·05	4·20	27·26
"	Denbigh.....	Llanbedr (Minafon)	3·09	1·87	3·51	3·22	1·00	2·53	2·60	5·99	2·55	5·44	5·43	6·20	43·43
"	Merioneth	Llanderfel (Palé)	6·04	1·99	6·65	4·39	1·56	2·20	3·15	3·66	1·29	3·62	5·34	8·78	48·67
"	"	Oakley Quarries	5·56	2·80	7·45	5·36	2·16	8·12	2·04	12·43	3·45	10·75	11·58	10·72	82·42
"	"	Llanystumdwy (Talarvor) ..	2·55	1·65	2·72	2·77	·81	2·72	2·91	4·95	2·53	4·33	4·92	5·45	38·31
"	Carnarvon.....	Llanerchymedd (Llwydiarth)	1·43	1·89	3·93	2·26	1·14	2·66	1·03	4·66	2·06	6·74	5·04	4·41	37·25
"	Anglesey	Douglas (Woodville)	2·71	2·51	2·66	2·94	1·55	3·35	1·21	4·12	3·27	6·40	5·44	5·76	41·92
"	Isle of Man	St. Helier (St. Louis Obs.) ..	1·68	1·42	2·73	3·57	1·11	·67	1·16	1·57	1·50	3·27	·91	4·31	23·90
"	Jersey.....	St. Peter Port (Beaulieu) ..	1·47	1·78	3·62	4·73	1·25	·55	1·06	1·69	2·21	3·26	1·84	4·51	27·97
"	Guernsey														

SCOTLAND.

XII.	Wigton	Garliestown (Galloway House)	3·46	1·67	2·36	3·62	1·22	2·79	1·14	3·84	2·86	7·36	4·79	5·65	40·76
"	"	Corsewall ..	1·64	·80	1·55	2·97	1·26	1·25	·85	3·82	2·59	5·42	3·00	4·35	29·50
"	"	Dalbeattie (Little Richorn) ..	2·97	1·68	2·25	3·47	1·78	3·28	4·12	5·55	4·05	4·99	3·64	5·58	43·36
"	"	Daly (Glendarroch)	4·44	1·56	2·27	5·08	1·76	3·56	1·04	5·09	5·23	7·21	6·36	7·20	50·80
"	"	Langholm	3·49	1·82	2·95	4·05	1·99	3·40	2·19	5·75	3·49	5·76	5·44	4·71	45·04
"	"	Moffat (Eriestane)	3·78	1·55	3·11	4·40	2·35	4·16	1·79	5·88	4·77	5·81	4·62	6·33	48·55
"	"	Hawick (Branxholme)	1·30	·75	1·98	1·79	2·63	2·30	2·37	3·08	1·66	2·76	3·29	4·53	28·44
"	"	Jedburgh (Ancrum Bridge)	1·98	1·58	1·90	1·73	2·10	1·52	3·35	3·05	·95	2·24	3·88	3·97	28·25
XIII.	"	The Hangingshaw	1·86	1·14	2·18	2·87	2·56	2·31	1·17	3·93	2·29	2·73	4·19	4·20	21·43
"	"	Eddlestone (Portmore) ...	2·37	1·55	2·23	1·78	2·18	2·00	1·33	5·05	1·12	2·90	3·97	4·80	31·28

SCOTLAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XIII.	Berwick	Marchmont House	2.00	2.16	1.80	1.69	2.95	1.37	1.31	3.64	1.36	1.57	3.61	3.72	27.18
	" Haddington	Whittinghame Gardens ..	1.67	1.71	1.99	1.41	2.09	1.31	1.46	6.43	2.13	1.97	4.05	3.65	29.87
	" Edinburgh	Edinburgh (Botanic Grdns.)	2.10	1.35	1.57	1.32	1.93	2.02	1.49	3.55	.90	1.63	2.73	3.04	23.63
	" Linlithgow	Carribber Res.	1.81	.88	2.28	1.86	2.06	2.32	1.20	3.98	1.48	2.36	3.10	3.28	26.61
XIV.	" Lanark	Biggar (Cambus Wallace)..	1.90	1.40	1.68	1.91	1.48	2.00	1.05	4.00	1.48	2.88	2.88	4.80	27.46
	"	Hamilton (Water Works)..	1.95	1.30	2.65	3.20	1.85	2.60	1.60	3.65	2.85	4.25	2.95	3.85	32.70
	" Ayr	Colmonell	3.29	3.19	1.60	4.39	2.29	2.62	.92	6.31	4.61	5.64	4.82	6.89	46.57
	"	Maybole (Culzean Gardens)	2.60	1.40	1.90	3.25	1.30	3.30	1.00	5.00	3.15	5.00	4.90	4.05	36.85
XV.	"	Kilmarnock (North Craig).	2.05	1.80	2.20	3.60	1.80	2.80	1.60	6.00	3.80	4.60	5.80	3.00	39.05
	" Dumbarton	Helensburgh (Water Works)	2.72	1.66	1.80	2.44	1.82	3.59	2.30	4.22	2.52	4.70	3.50	4.60	35.87
	" Stirling	Buchlyvie (The Manse) ...	3.38	1.34	2.60	3.29	2.60	4.05	3.21	3.71	3.91	5.04	3.74	5.86	42.73
	" Bute	Rothsay (Barone Cott.) ...	3.70	2.03	2.25	4.09	1.99	4.04	1.35	5.98	4.20	5.59	4.48	4.38	44.08
	" Argyll	Lochgilphed (Poltalloch).	4.18	2.62	3.13	4.16	1.41	4.47	1.04	4.10	4.63	7.04	5.83	4.77	47.38
	"	Inveraray (Newtown)	4.62	2.58	4.07	5.35	2.03	5.84	2.22	5.75	6.30	8.86	5.36	7.01	59.99
	"	Morvern (Drimnin)	4.62	3.78	3.18	4.76	1.38	4.56	2.07	6.62	5.30	8.02	5.92	7.75	57.96
	"	Ballachulish (Ardsheal) ...	6.00	2.59	3.26	5.56	1.60	5.67	3.68	6.18	6.65	8.32	5.95	7.83	63.29
	"	Strontian (Laudale)	5.18	3.52	6.32	6.28	2.19	5.78	3.83	6.82	7.65	7.90	6.27	9.18	70.92
	"	Kintyre (Devaar)	4.27	2.79	3.33	4.39	1.35	4.10	.90	6.13	3.65	6.40	6.17	6.18	49.66
	"	Islay (Ardbeg)	4.86	2.84	2.58	3.78	1.45	4.56	1.25	5.65	3.77	5.19	5.53	5.38	46.84
	"	Dollar	2.96	.86	2.38	2.18	1.57	2.41	1.45	5.30	2.11	4.03	3.09	4.76	33.10
XVI.	Clackmannan ..	Loch Leven Sluice	1.92	1.55	2.30	2.75	2.45	2.34	.69	4.25	2.80	2.45	2.59	2.34	28.43
	" Kinross ..	Kilconquhar (Balcarres) ...	2.26	1.56	2.12	2.09	2.73	2.44	.69	4.46	1.72	2.48	3.11	4.02	29.68
	" Fife	Stronvar	5.62	1.72	5.26	6.18	3.68	6.33	4.51	5.14	8.43	7.11	4.75	10.27	69.00
	" Perth	Coupar Angus	2.09	1.14	2.09	2.62	2.13	1.64	1.47	3.73	1.76	2.62	1.56	3.09	25.94
	"	Blair Athol	2.81	1.07	2.16	2.03	1.96	2.69	2.04	3.35	3.97	3.79	1.51	3.43	30.81
	"	Broughty Ferry (Airlie Pk.)	1.79	1.25	1.43	2.03	1.83	2.43	1.20	3.56	1.40	2.06	1.74	2.54	23.26
	" Forfar	Kirriemuir (Bainakeilly)...	2.50	2.00	1.40	3.20	2.00	1.60	2.00	4.20	2.50	2.60	.90	2.70	27.70
	"	Fettercairn (The Burn) ...	3.18	2.06	2.34	3.22	1.82	1.62	.97	3.39	2.46	2.56	1.59	4.20	29.41
XVII.	" Kincardine	Coldstone Manse	3.34	3.03	3.20	1.34	2.69	2.03	2.16	2.91	.82	2.00	2.24	3.41	29.17
	" Aberdeen ..	Haddo House	1.74	3.51	3.33	1.79	2.01	2.07	1.78	4.60	1.32	3.19	2.54	4.21	32.09
	" Banff	Banff (Earl Hill)	2.13	2.62	2.13	1.58	1.47	2.41	1.94	3.57	1.05	3.00	4.06	3.80	29.76
	" Moray	Grantown	2.84	3.40	2.30	2.13	1.24	4.02	2.19	3.70	.85	3.07	3.40	5.31	34.45
	"	Gordon Castle	2.10	3.15	2.10	1.59	1.06	3.67	4.59	2.75	1.15	2.76	4.18	4.35	33.45
	" Nairn	Cawdor (Budgate)	1.87	2.02	2.23	1.52	1.32	2.18	3.20	2.66	1.36	2.74	3.37	3.55	28.02

SCOTLAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XVII.	Nairn	Nairn (Achareidh)	1.32	1.97	1.65	1.22	1.21	2.18	2.55	2.06	1.23	2.38	2.63	2.85	23.25
XVIII.	Ross	Applecross	4.80	4.31	4.20	5.05	.96	2.04	3.80	4.20	3.40	7.42	3.85	8.50	52.53
"	"	Strathconan (Dalbreac)	2.35	4.32	4.63	1.70	1.23	3.15	2.42	4.32	1.55	3.50	4.26	6.18	39.61
"	"	Loch Torridon (Bendamph)	8.96	6.85	6.75	6.76	2.28	5.49	4.40	7.57	5.81	7.95	6.58	12.95	82.35
"	"	Ardross Castle	3.95	4.24	4.22	1.76	2.85	3.12	2.25	3.42	1.30	3.61	2.89	5.20	38.81
"	Inverness	Glen Quoich	10.26	4.12	6.99	6.14	1.64	7.60	4.03	8.60	6.80	15.05	9.96	13.81	95.00
"	"	Mucomir	5.26	1.65	2.97	4.46	1.50	4.45	2.71	4.26	3.70	7.33	3.79	8.12	50.20
"	"	Alvie Manse	2.07	1.20	1.09	1.69	1.40	3.63	1.37	3.05	.78	2.84	4.20	3.42	26.74
"	"	Loch Ness (Whitebridge)..	2.79	2.73	3.49	2.39	1.03	3.71	3.49	3.30	1.58	2.95	2.43	5.25	35.14
XIX.	Sutherland	Invershin	3.73	3.12	3.58	1.77	.97	3.55	2.84	2.81	1.97	4.03	3.07	2.23	33.67
"	"	Dunrobin Castle	2.99	2.50	2.24	2.04	2.17	2.26	2.93	2.89	1.58	3.52	3.05	3.69	31.86
"	Caithness	Wick	2.86	3.21	2.09	3.00	1.57	2.61	1.64	3.85	.71	3.83	3.04	3.70	32.11
"	"	Watten Station	2.00	3.00	1.87	2.64	1.26	2.37	1.83	3.61	.86	2.76	2.88	4.22	29.30
"	Shetland	Sumburghhead (Dunroseness)	3.21	1.68	2.19	3.25	.53	2.50	1.19	4.38	3.68	5.00	2.29	5.48	35.38

IRELAND.

XX.	Cork	Dunmanway (Coolkelure)	8.63	2.57	6.82	8.65	2.58	3.52	1.88	4.45	11.85	4.81	3.51	8.99	68.26
"	"	Cork (Palace)	5.52	1.46	3.22	4.17	1.97	1.48	.58	2.24	8.22	2.47	1.64	5.71	38.68
"	"	Mallow (Summer Hill)	5.52	1.68	2.61	3.36	2.24	1.83	1.14	2.67	9.42	2.92	1.47	4.53	39.39
"	Kerry	Waterville (Iveragh Lodge)	4.77	1.72	3.68	4.74	1.92	3.41	1.57	2.55	6.74	3.76	2.04	6.46	43.36
"	"	Kenmare (Derreen)	9.54	2.20	3.92	9.60	4.03	3.89	1.24	2.21	11.05	4.17	3.13	11.31	66.29
"	Waterford	Waterford (Brook Lodge)..	4.15	1.93	2.78	2.66	1.71	2.95	1.22	4.22	5.28	4.93	2.24	4.64	38.71
"	Tipperary	Clonmel (Bruce Villa)	4.52	1.78	1.99	2.45	1.76	2.13	.62	3.96	5.22	3.10	1.72	3.81	33.06
"	"	Nenagh (Castle Lough)	4.04	1.16	3.34	3.08	1.12	2.67	1.00	2.83	5.56	3.28	4.08	3.95	36.11
"	"	Ballingarry (Hazel fort)	2.26	1.58	1.98	2.21	1.83	2.94	1.17	3.05	4.36	2.40	3.79	3.03	30.60
"	Limerick	Limerick (Roxborough)	3.53	.96	3.20	2.44	1.57	2.32	.83	3.25	5.66	3.55	2.72	3.47	33.50
"	Clare	Killadysert (Paradise Hill)	5.09	.72	4.88	3.27	1.87	2.89	1.23	4.50	5.45	4.77	4.76	5.00	44.43
"	"	Miltown Malbay	3.49	.49	3.35	3.32	1.84	3.65	2.19	6.03	6.26	5.36	6.04	4.69	46.71
XXI.	Wexford	Ballyhyland	3.82	1.82	2.91	3.40	1.95	2.98	.66	4.33	5.56	4.34	2.56	4.81	39.14
"	"	Gorey (Courtown)	3.91	1.84	1.79	2.64	1.08	2.71	1.38	3.35	4.51	3.45	2.34	3.54	32.54
"	Kilkenny	Graigue (Brandondale)	3.82	2.40	2.34	3.05	1.72	2.38	.49	3.67	5.57	3.42	2.36	3.47	34.69
"	"	Lavistown (Millmount)	3.24	1.38	1.73	2.15	1.52	2.45	.87	2.97	4.27	2.90	2.13	2.46	28.07
"	Wicklow	Bray (Fassaroe)	5.23	2.36	2.57	2.49	1.31	2.68	2.78	3.42	6.29	3.12	3.54	4.21	40.00
"	Carlow	Carlow (Browne's Hill)	3.56	1.79	1.98	2.37	1.51	2.31	1.09	3.34	5.05	2.90	2.72	3.31	31.93

IRELAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XXI.	Queen's County...	Abbey Leix (Blandsfort)...	4.52	1.84	2.48	2.62	1.69	2.29	.79	3.71	5.67	3.57	3.16	3.78	36.12
	Kildare	Straffan House.....	3.13	1.30	2.40	1.32	1.59	1.43	1.14	3.41	3.01	3.54	4.51	3.53	30.31
	Dublin	Glasnevin(BotanicGardens)	3.13	1.36	1.95	.74	1.17	1.69	1.90	2.96	3.65	2.82	4.59	2.12	28.08
	Meath	Athboy	3.88	1.23	3.13	1.98	2.09	2.15	.87	3.04	4.33	3.81	3.67	3.37	33.55
	"	Moynalty (Westland)	4.30	1.30	3.40	2.14	3.97	2.69	1.33	4.24	3.78	3.45	3.23	3.82	37.65
	Westmeath	Athlone (Twyford)	3.35	1.09	3.51	2.67	2.04	3.49	1.32	2.62	5.43	3.39	3.24	3.42	35.57
	"	Mullingar (Belvedere)	3.70	1.81	3.48	2.24	1.89	2.74	.94	2.71	5.48	3.44	3.41	3.70	35.54
	Louth	Ardee (Lissrenny).....	3.70	1.16	3.01	1.88	2.74	2.06	1.17	3.16	2.73	3.21	3.22	2.87	30.91
	"	Greenore	4.53	.96	2.02	2.15	1.40	2.48	1.26	3.98	2.85	2.81	3.01	2.76	30.21
	Galway	Ballinasloe	3.30	.98	3.25	3.41	1.90	3.61	1.66	2.72	4.80	3.82	4.46	3.57	37.48
XXII.	"	Kylemore House	5.37	4.00	4.90	5.69	2.93	4.40	2.49	8.57	11.74	5.56	4.21	7.52	67.38
	"	Tuam (Gardenfield)	3.20	1.37	3.49	3.26	1.67	3.94	1.45	3.65	6.87	3.83	3.45	4.63	40.81
	Mayo	Ballinrobe (Cranmore).....	4.46	1.43	4.10	3.68	2.85	2.55	1.14	3.55	9.07	3.26	3.51	5.45	45.05
	"	Achill (Corann House) ...	4.24	2.28	3.85	4.88	1.72	4.23	2.34	4.70	6.87	5.19	3.81	5.77	49.88
	"	Crossmolina (Enniscoe) ...	5.31	1.84	4.17	5.40	2.67	3.64	1.41	3.21	8.85	5.40	4.78	5.86	52.54
	Sligo	Ballymote (New Park) ...	3.85	2.60	4.80	3.50	2.30	2.65	1.65	4.52	5.35	4.55	4.00	5.40	45.17
	"	Ballysadare (Glen Lodge)..	4.27	1.94	3.76	4.51	1.44	3.53	1.87	4.04	5.20	5.01	3.16	5.77	44.50
	Cavan	Stradone House	3.86	1.63	3.93	2.96	2.08	3.52	.83	4.41	3.70	3.70	5.11	4.11	39.84
	"	Ballyconnell House	4.23	1.39	3.84	4.02	2.67	3.67	.93	4.94	4.13	4.11	5.34	4.79	44.06
	Monaghan	Monaghan (Rowantree Ho.)	3.38	1.29	2.16	2.90	2.57	2.21	.74	4.24	3.37	3.56	3.72	3.13	33.27
XXIII.	Armagh	Armagh	3.15	1.25	2.31	2.93	1.78	2.29	.80	4.32	2.97	3.46	3.88	2.97	32.11
	Down	Seaforde	3.85	1.46	2.81	2.51	1.65	2.77	1.59	3.16	4.11	2.53	4.64	3.48	34.56
	"	Donaghadee	2.03	1.78	2.07	2.02	1.94	2.54	1.11	2.34	3.29	3.42	3.17	3.89	29.60
	Antrim	Belfast (Springfield).....	3.05	2.04	3.26	2.87	1.72	3.81	1.37	3.83	3.67	4.73	4.11	4.69	39.15
	"	Ballymena	3.05	2.14	3.31	3.84	2.05	3.80	1.09	4.56	3.77	5.07	5.02	4.80	42.50
	"	Bushmills (Dundarave) ...	2.49	1.66	2.46	2.58	2.13	3.72	1.60	5.07	3.31	4.07	5.13	3.90	38.12
	Londonderry	Garvagh (Moneydig)	3.11	1.48	3.19	2.77	2.54	2.95	1.95	3.96	4.06	4.18	3.98	4.20	38.37
	Tyrone	Stewartstown (The Square)	3.15	1.14	2.91	3.07	1.93	2.63	1.12	3.41	3.64	5.00	3.67	3.08	34.75
	"	Omagh (Edenfel)	3.54	2.07	3.85	3.71	1.86	3.34	1.65	4.78	4.71	4.73	3.83	4.93	43.00
	Donegal	Killybegs	4.31	2.76	5.46	4.74	2.41	3.98	1.35	6.11	5.06	6.01	8.79	8.57	59.55
	"	Raphoe (Convoy House) ...	4.97	2.57	5.23	3.89	2.27	4.57	2.69	5.06	4.74	5.03	5.80	6.74	53.56
	"	Buncrana (Rockfort)	3.92	1.72	3.13	3.30	1.43	4.51	1.69	5.03	3.08	3.50	3.42	5.17	39.90
	"	Horn Head	3.54	2.83	2.93	2.37	1.65	2.87	1.89	4.50	3.22	4.73	6.12	5.90	42.55

ON THE RELATION OF THE TOTAL FALL OF RAIN IN 1901 TO THE AVERAGE.

IN dealing with the first year of the twentieth century we are confronted with the necessity of making some change in the standard of comparison, and the problem to be solved is that of making the change so that it shall not interrupt the continuity of comparison in previous years.

We have dealt at some length in the earlier part of the volume with the question of the averages of different periods, and it is sufficient to refer here to the previous changes which have been made in discussing the relation of the total fall of each year to the average in *British Rainfall*. In the year 1866 the average selected for comparison was that of the six preceding years 1860–65. This was used year after year because it was found to approximate closely to the average of a long series of years, and in 1870, at the close of the ten years 1860–69, Mr. Symons thought it undesirable to make any change. At the close of the decade 1870–79, the average of that period was adopted. Stress was laid on the fact that this average was about 5 per cent. too high, taking the period 1850–79 as representing the true mean. In 1890 the values for 1880–89 were adopted, it being shown that the mean for that period was only about 1 per cent. too low. This value has been used since that date, and now a new decade having been completed, we have been obliged to reconsider the question in all its bearings.

Thanks to the labours of hundreds of observers, a mass of data has been brought together which makes it possible to speak with more confidence on rainfall matters now than it was before. The number of complete records still in progress, extending back for 30 years, is 387, and the stations are sufficiently near in many cases to give a satisfactory basis for computing the true mean values of more recently established gauges lying between them, for use should the older ones lapse. Accordingly we have resolved to compare the rainfall of the current year with the average for the 30 years 1870–99, which in most cases is practically identical with that for the ten years 1880–89, and the transition is consequently imperceptible. The average fall of the decade 1890–99 is added in the table, so that anyone wishing to make use of the last ten years as a standard may readily do so.

The difference in 1901 from the 30 years' average at each of the 175 stations dealt with, is shown on the map facing p. 158, by the usual signs. A dot means that the fall at that point was within 10 per cent. of the average, a + that it was more than 10 per cent. greater, a — that it was more than 10 per cent. less, and a — encircled by a ring that it was more than 25 per cent. less.

The number of stations is rather greater than in 1900, and their distribution is better, though still imperfect in some important places. The representation of England and Wales is satisfactory, the 95 uniformly placed stations averaging 1 to every 615 square miles. In Scotland, the central Highlands, and the north-west, generally show a complete absence of long records continued down to date. At one time such records existed in several remote and thinly peopled districts, but they have been discontinued, and the gap they leave on the map cannot be hidden. The 46 stations, though averaging 1 to every 650 square miles, are of course more thickly planted in the east and south than that value suggests. In Ireland, although the total number of stations is much less than is desirable, they are fairly well distributed, and the 35 selected average 1 to every 905 square miles, leaving a serious gap only in the south-west.

ABSTRACT.

COUNTRIES.	No. of Records.	Average. 10 years 1890-99.	Average. 30 years 1870-99.	1901.	Diff. from Average 1870-99.	
					Amount.	Per cent.
England and Wales...	95	in. 32·28	in. 34·28	in. 29·83	in. 4·45	— 13
Scotland.....	46	44·67	44·75	41·04	3·71	— 8
Ireland	35	41·17	41·90	40·33	1·57	— 4
Mean of all Stations...	176	37·29	38·53	34·85	3·68	— 10

The 95 stations of England and Wales show an average deficiency of rather more than 13 per cent. for 1901 ; but this is mainly due to the extreme dryness of the east, and for England separately we find a deficiency of 15 per cent., and for Wales of only 6 per cent. The 46 stations in Scotland show a deficiency of 8 per cent., and the 35 in Ireland of only 4 per cent.

It thus appears that 1901 was a dry year in every division of the British Isles, the mean of all stations working out at an average deficiency of exactly 10 per cent. In the last 21 years only three have

been drier, and as the number of stations used for the annual comparison was too small to give a fair representation of the country before 1881, we cannot go further back. The following table, compiled from the "Abstracts," presents the facts. It gives (I.) the year; (II.) the difference in percentage from the adopted average; (III.) the period to which that average referred; (IV.) the difference from the 30 years' average 1870-99; and (V.) the difference in percentage of total fall on the average of all the stations yielding records discussed for maximum falls. The last column is of value only in confirming the general wetness or dryness of a year. The closeness of the stations in England is so much greater than in the other main divisions that the average of all stations does not truly represent the country as a whole. This is the reason why so much care is taken in selecting uniformly distributed stations, and why these are reduced in column IV. to a true average, applicable to the whole period. Column IV. in fact presents the best comparison of the relative wetness or dryness of different years over the country, as a whole, that we are able to arrive at. It shows that 1901 was drier than any year since 1893, and that only the remarkably dry year 1887, and the year 1884, which barely exceeded 1901, have been drier since a comparison became possible.

Table comparing the total Rainfall of the last 21 years.

I.	II.	III.	IV.	V.
Year.	Diff. from adopted average	Years of average adopted.	Diff. from true average.	Diff. of mean at all stations from average 34 in. =100.
1881	0	1870-79	+ 5	+ 3
1882	+ 17	"	+ 22	+ 15
1883	+ 3	"	+ 8	+ 3
1884	- 16	"	- 11	- 18
1885	- 8	"	- 3	- 9
1886	+ 2	"	+ 7	+ 3
1887	- 33	"	- 28	- 26
1888	- 11	"	- 6	- 6
1889	- 13	"	- 8	- 15
1890	- 3	1880-89	- 4	- 15
1891	+ 6	"	+ 5	+ 3
1892	- 5	"	- 6	- 12
1893	- 14	"	- 15	- 21
1894	+ 6	"	+ 5	+ 3
1895	- 7	"	- 8	- 12
1896	- 6	"	- 7	- 12
1897	+ 3	"	+ 2	- 3
1898	- 4	"	- 5	- 18
1899	- 1	"	- 2	- 12
1900	+ 12	"	+ 11	+ 3
1901	- 10	1870-99	- 10	- 18

Turning to the map, we are struck at once by the remarkable number and uniformity of the — signs, and the nearly complete absence of + signs. It may be convenient to consider the main divisions in the order of their proximity to the average.

In Ireland, with a deficiency of only 4 per cent., all of the stations but four had a fall so near to the average that they are represented by dots. At Omagh an excess of 14 per cent. justifies the only +, and the dots in the north and east indicate values slightly in excess of the average. Towards the south and west the dots show a deficiency, gradually increasing to a maximum at the three stations marked with a —, viz.: at Clifden, of 16 per cent., at Waterford, of 14 per cent., and at Roche's Point, of 20 per cent.

In Scotland the distribution of rain was equally regular, perhaps even more so, for the two + signs represent excesses of only 11 per cent. each, and so narrowly escape being shown as dots. The dots in the north-east denote very small excesses, and so do the two in the extreme south-west. With these exceptions, and subject to the uncertainty as to the great Highland gap, we may say that there was a well marked deficiency over the southern uplands, the midland valley, and the west coast. The absence of any ringed minus shows that none of the selected stations suffered excessive drought, although the table shows that several came very near it. The following are the greatest deficiencies :—

Marchmont House	<i>Berwick</i>	— 22 per cent.
Loch Leven Sluice	<i>Kinross</i>	— 21 „
Bridge of Turk	<i>Perth</i>	— 20 „
Sunnyside	<i>Montrose</i>	— 22 „
Strathconan.....	<i>Ross</i>	— 22 „

As we have already pointed out, the drought had its greatest development over England; no + appears on the map, and in the table it will be noticed that only three of the 79 stations in England, and three of the 16 in Wales, experienced a rainfall exceeding the average even by a little. The groups of dots mark out three areas in which the deficiency was less than 10 per cent. of the average fall. These are the extreme north-east, including Northumberland, Durham, and the coast of the North Riding of Yorkshire, the extreme west, including Central and North Wales, and Cheshire, and finally a narrow belt in the south, apparently passing south of Exmoor, north of Dartmoor, south of Salisbury Plain, and along the South Downs towards Beachy Head.

The driest part of the country is shown by the solid group of five

ringed minuses in East Anglia, whence it is continued to the west and south-west, though with less intensity. A solitary ringed minus at Kirkby Stephen calls attention to the very considerable dearth of rain which affected the northern counties. The following extreme values are of interest :—

Bayfordbury	<i>Hertford</i>	— 22	per cent.
Slough (Langley)	<i>Bucks</i>	— 29	„
Winslow (Addington)	„	— 27	„
Wellingborough	<i>Northampton</i> ...	— 22	„
Ely (Stretham)	<i>Cambridge</i>	— 30	„
Wisbech.....	„	— 26	„
Rendlesham Hall	<i>Suffolk</i>	— 27	„
Ixworth (Walsham-le-Willows)	„	— 35	„
Swaffham (Dunham)	<i>Norfolk</i>	— 28	„
Chitterne House	<i>Wilts</i>	— 22	„
St. Ives (Phillack)	<i>Cornwall</i>	— 24	„
Glastonbury (Street)	<i>Somerset</i>	— 24	„
Clifton.....	<i>Gloucester</i>	— 23	„
Ross (The Graig)	<i>Hereford</i>	— 21	„
Kington (Lynhales)	„	— 22	„
Great Malvern	<i>Worcester</i>	— 27	„
Knaresborough (Farnham).....	<i>York</i>	— 23	„
Old Malton	„	— 20	„
Kirkby Stephen	<i>Westmorland</i> ...	— 27	„

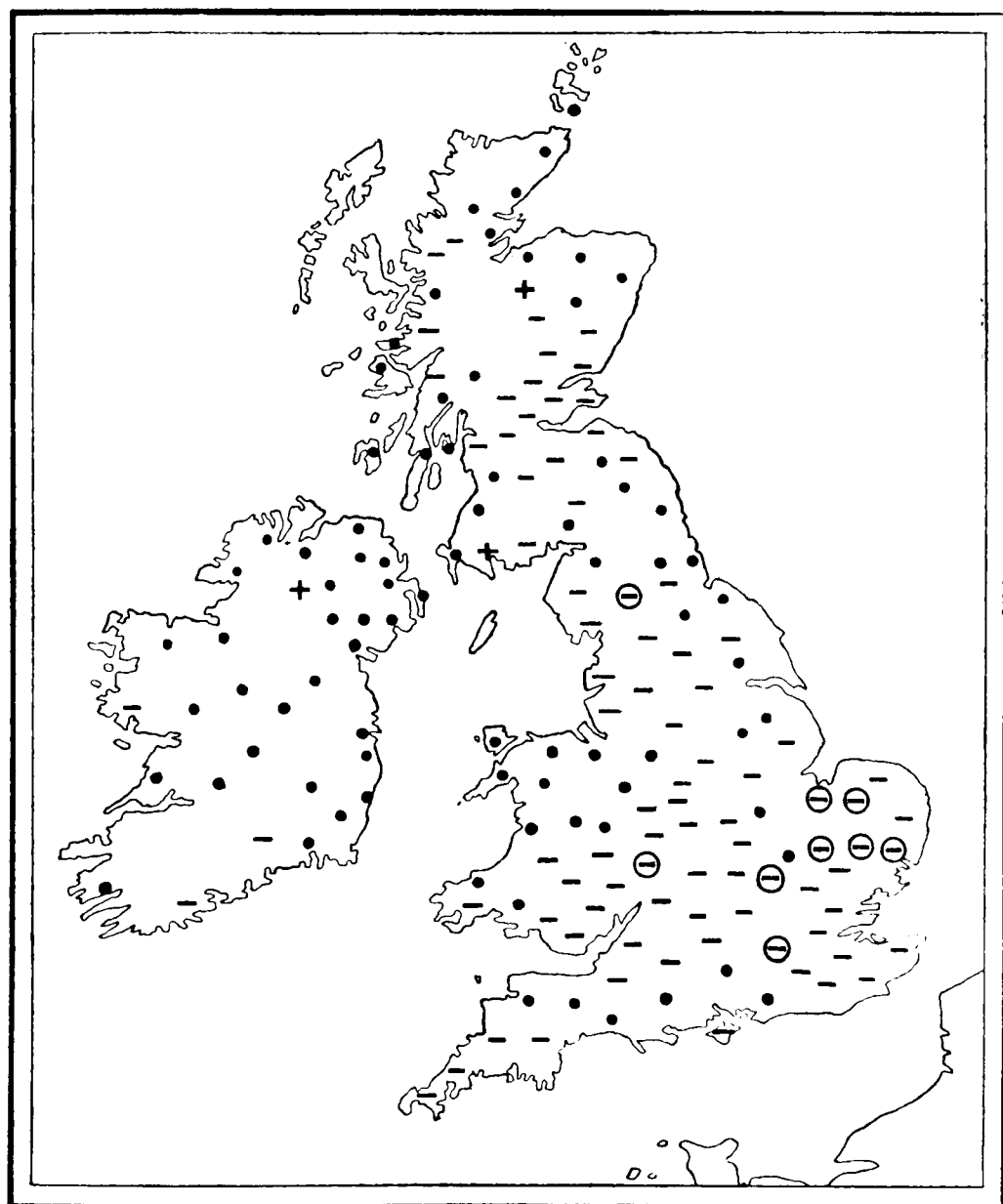
The mean rainfall at these nineteen stations was just three-quarters of the average, while at the driest, Walsham-le-Willows, it was less than two-thirds.

To illustrate the distribution of the drought throughout the year we have tabulated the fall of rain at a few typical stations, but limited to England, as in that country the deficiency was greatest.

Deficiency of Rain from January 1st to the end of

	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Tenterden	1·21	1·80	2·18	2·53	4·06	4·94	6·92	4·01
<i>Kent.</i>								
Hartley Wintney	1·18	1·48	2·02	1·81	3·06	2·79	4·73	3·09
<i>Hants.</i>								
Addington	+ ·15	·50	1·57	1·78	2·54	3·58	5·34	4·34
<i>Bucks.</i>								
Westley	1·79	2·56	4·41	5·40	6·74	6·97	8·18	7·13
<i>Suffolk.</i>								
Polapit Tamar ...	+2·12	+1·99	+ ·17	1·03	1·62	2·65	5·65	2·05
<i>Devon.</i>								
Woolstaston	+ ·96	+1·61	+3·11	+2·08	+ ·92	·24	1·34	+ ·67
<i>Shropshire.</i>								
Hesley Hall	1·93	2·34	1·98	2·64	3·66	4·54	3·88	1·14
<i>Notts.</i>								
Manchester	1·38	2·32	2·14	3·99	6·38	7·03	5·86	4·05
<i>Lancashire.</i>								

DIFFERENCE OF TOTAL RAINFALL IN 1901 FROM THE AVERAGE.



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.

Although the table has been prepared to exhibit the deficiency of rain there are a few cases in which the values are in excess of the average, and these are indicated by a plus sign.

The first point which this table emphasizes, is the unimportant character of the deficiency in the west, for at the two most westerly stations, Polapit Tamar and Woolstaston, there was an excess at the end of each month up to July, and at Woolstaston the excess continued till the end of September.

Nearly all other stations show a deficiency, increasing almost steadily month by month to the end of October or November, especially Westley, near Bury St. Edmunds, in the extreme E., where the figures show that the scarcity of water became intensified month after month, all through the summer and autumn, till at the end of November the total was less than two-thirds of the average. Similarly at Manchester, with the exception of a slight falling off at the end of July, the minus value increases steadily and rapidly, but is checked by the heavy rains of November.

Thus it appears that the deficiency of rain in 1901, speaking generally, was spread over the whole year, but more especially from May to October or November. At Tenterden, at Addington, at Westley, and at Polapit Tamar, every month from May to November, inclusive, had less than the average.

At Hartley Wintney, August and October had slight excesses, but every other month from May to November was deficient.

At Woolstaston, June and July had about two inches more rain than the average, but every other month, from May to November, had a deficiency exceeding an inch.

At Hesley Hall, all months from May to October had less than the average, except July, which had an excess of one-third of an inch.

At Manchester, July had a very trivial excess, and the November rains were considerable, but every other month from May to October had much less than the average.

COMPARISON OF THE RAINFALL OF THE YEAR 1901,
WITH THE AVERAGE OF THE YEARS 1890-99 & 1870-99.

ENGLAND & WALES.

DIV.	COUNTY.	STATION.	Average, 1890-9.	Average, 1870-99.	Depth in 1901.	Difference from average, 1870-99.	
						Amount.	Per cent.
			in.	in.	in.	in.	
I.	Middlesex	London (Camden Square)	22·78	25·16	22·17	2·99	— 12
II.	Surrey	Dorking (Abinger Hall)	30·03	(31·70)	26·22	5·48	— 17
„	Kent	Tenterden <i>o.g.</i>	26·76	28·36	22·76	5·60	— 20
„	„	Selling (Harefield)	28·83	29·55	24·94	4·61	— 16
„	„	Sevenoaks (River Hill)	26·23	27·49	21·82	5·67	— 21
„	Sussex. West...	Chichester (Chilgrove)	33·60	33·82	30·72	3·10	— 9
„	„ East	Maresfield (Forest Lodge)	29·58	31·45	24·25	7·20	— 23
„	Hampshire	Isle of Wight (Osborne)	27·87	28·12	24·41	3·71	— 13
„	„	Alresford (Ovington)	30·41	(32·00)	29·99	2·01	— 6
„	Berkshire	Newbury (Welford Park) <i>o.g.</i>	28·75	30·29	27·07	3·22	— 11
III.	Hertfordshire ..	Hertford (Bayfordbury)	22·84	24·97	19·44	5·53	— 22
„	Buckingham ...	Slough (Langley)	23·25	24·00	17·00	7·00	— 29
„	„	Winslow (Addington Manor) ..	23·84	26·75	19·50	7·25	— 27
„	Oxfordshire ...	Oxford (Magdalen Coll.)	21·40	24·54	21·41	3·13	— 13
„	„	Banbury (Bloxham Grove) ...	23·40	(27·20)	24·06	3·14	— 12
„	Northampton.	Wellingboro' (Croyland Abbey)	21·55	25·31	19·70	5·61	— 22
„	Bedfordshire ...	Bedford (Milton Ernest)	23·38	(23·90)	21·73	2·17	— 9
„	Cambridgeshire	Elv (Stretham)	20·96	22·16	15·57	6·59	— 30
„	„	Wisbech (Bank House)	22·28	24·89	18·36	6·53	— 26
IV.	Essex	Chelmsford (High Street)	21·22	22·96	19·50	3·46	— 15
„	„	Saffron Walden (Newport) ...	24·27	(24·80)	20·99	3·81	— 15
„	Suffolk	Rendlesham Hall	22·60	(23·70)	17·30	6·40	— 27
„	„	Ixworth (Walsham-le-Willows)	25·17	25·87	16·77	9·10	— 35
„	Norfolk	Geldeston [Beccles]..... <i>5 in. g.</i>	22·97	23·93	20·07	3·86	— 16
„	„	Swaffham (Dunham)	25·92	28·41	20·57	7·84	— 28
„	„	Cawston	25·22	27·28	22·44	4·84	— 18
V.	Wilts	Salisbury Plain (Chitterne Ho.)	26·88	28·56	22·33	6·23	— 22
„	„	New Swindon	26·26	(28·20)	22·78	5·42	— 19
„	Dorset	Beaminster Vicarage	34·87	(38·20)	36·96	1·24	— 3
„	„	Wimborne Minster (Chalbury)	29·82	31·06	28·35	2·71	— 9
„	Devon	Ashburton (Druid House)	49·99	52·92	44·93	7·99	— 15
„	„	Polapit Tamar	36·79	38·85	34·70	4·15	— 11
„	„	Bampton (Huntsham)	45·28	(46·80)	42·40	4·40	— 9
„	„	Barnstaple (Arlington Court) ..	51·68	53·30	47·91	5·39	— 10
„	Cornwall	St. Ives (Phillack Rectory) ...	35·27	36·68	27·77	8·91	— 24
„	„	St. Austell (Trevarna)	42·75	47·16	39·19	7·97	— 17
„	Somerset	Glastonbury (Street)	26·90	30·40	23·16	7·24	— 24
VI.	Gloucestershire	Clifton (Pembroke Road)	32·59	35·45	27·29	8·16	— 23
„	„	Stroud (Upfield)	26·83	29·85	25·00	4·85	— 16
„	Hereford	Ross (The Graig)	25·61	29·51	23·45	6·06	— 21
„	„	Kington (Lynhales)	29·50	33·56	26·01	7·55	— 22
„	Shropshire	Bishop's Castle (Castle Street).	28·46	(32·90)	30·71	2·19	— 7

ENGLAND & WALES.—Continued.

DIV.	COUNTY.	STATION.	Average, 1890-9.	Average, 1870-99.	Depth in 1901.	Difference from average, 1870-99.	
						Per Amount.	cent.
VI.	Shropshire.....	Shifnal (Haughton Hall)	in. 25.41	in. 28.21	in. 24.22	in. 3.99	— 14
„	„	Market Drayton (Buntingsdale)	26.53	(28.70)	29.22	.52	+ 2
„	Stafford	Dennis [Stourbridge]	24.36	(27.40)	23.88	3.52	— 13
„	„	Burton (Rangemore)	24.96	28.01	24.59	3.42	— 12
„	„	Cheadle (The Heath House) ...	30.05	(33.50)	27.69	5.81	— 17
„	Worcester	Northwick Park	25.24	29.22	24.98	4.24	— 15
„	„	Grt. Malvern (Church Street) ..	24.79	(29.00)	21.20	7.80	— 27
„	Warwick	Coventry (Priory Row) ...	24.96	27.96	22.69	5.27	— 19
VII.	Leicester	Thornton Reservoir	24.17	26.48	22.80	3.68	— 14
„	Rutland	Market Overton	24.05	(26.90)	24.28	2.62	— 10
„	Lincoln	Stubton [Newark]	21.47	24.87	20.57	4.30	— 17
„	„	Horncastle (Bucknall)	21.25	(23.90)	21.24	2.66	— 11
„	„	Brigg	24.40	(26.31)	27.97	1.66	+ 6
„	Nottingham	Worksop (Hodsock Priory) ...	22.67	(24.70)	22.31	2.39	— 10
„	Derby	Matlock Bath	28.93	25.07	31.09	3.98	— 11
VIII.	Cheshire.....	Chester Nurseries	26.74	29.17	27.07	2.10	— 7
„	„	Chelford (Astle Hall).....	28.49	(30.60)	27.68	2.92	— 10
„	„	Torrside Reservoir.....	43.93	44.98	39.39	5.59	— 12
„	Lancashire.....	Ormskirk (Rufford)	32.63	33.71	27.17	6.54	— 19
„	„	Kirkham (Weeton)	36.86	(38.60)	32.79	5.81	— 15
„	„	Stonyhurst College	48.16	47.57	38.97	8.60	— 18
„	„	Cartmel (Holker)	43.69	43.69	35.24	8.45	— 19
IX.	York W. Ridng. ..	Wakefield Prison	24.86	(26.80)	22.00	4.80	— 18
„	„ „	Knarborough (Farnham) ...	25.07	26.70	20.43	6.27	— 23
„	„ „	Malham Tarn.....	58.44	58.17	51.66	6.51	— 11
„	„ E. Ridng. ..	Pocklington (Warter)	29.03	30.75	28.96	1.79	— 6
„	„ N. Ridng. ..	Old Malton	24.79	26.71	21.35	5.36	— 20
„	„ „	Northallerton (The Lodge) ...	(25.10)	25.80	24.94	.86	— 3
„	„ „	Guisborough (Hutton Hall) ...	29.80	(33.40)	31.48	1.92	— 6
X.	Durham.....	Wolsingham	33.26	34.75	29.94	4.81	— 14
„	„	Sunderland (W. Hendon House) ..	25.11	26.19	26.67	.48	+ 2
„	Northumberland ..	Hallington (Fawcett)	28.73	29.12	27.65	1.47	— 5
„	„	Rothbury (Cragside)	33.27	34.41	34.55	.14	+ 0
„	„	Pawston [Coldstream] ..	30.00	(31.30)	30.56	.74	— 2
„	Cumberland	Borrowdale (Seathwaite) <i>4in.g.</i>	135.75	132.74	112.09	20.65	— 16
„	„	Carlisle Cemetery	33.04	31.64	29.20	2.44	— 8
„	Westmoreland ..	Kirkby Stephen	46.05	42.12	30.61	11.51	— 27
XI.	Monmouth.....	Abergavenny (Larchfield).....	34.91	37.82	32.59	5.23	— 14
„	Glamorgan.....	Cardiff (Ely)	39.51	42.81	37.26	5.55	— 13
„	„	Neath	47.28	(50.50)	43.96	6.54	— 13
„	Carmarthen	Llandilo (Dynevour Castle) ...	50.57	(52.80)	51.41	1.39	— 3
„	Pembroke	Pembroke (Stackpole Court) ..	37.70	(41.20)	35.36	5.84	— 14
„	„	Castle Malgwyn [Llechryd] ..	40.85	43.85	45.50	1.65	+ 4
„	Cardigan	Aberystwith (Gogerddan) ...	44.67	45.41	43.57	1.84	— 4
„	Brecknock	Cantref Rectory	<i>o.g.</i> 46.39	(51.10)	43.34	7.76	— 15
„	Radnor	Rhayader (Nantgwillt) ..	<i>o.g.</i> 56.82	61.45	52.53	8.92	— 15
„	Montgomery ...	Churchstoke (Mellington Hall) ..	28.57	(31.80)	30.63	1.17	— 4

ENGLAND & WALES.—*Continued.*

DIV.	COUNTY.	STATION.	Average, 1890-9.	Average, 1870-99.	Depth in 1901.	Difference from average, 1870-99.	Per Amount, cent.
			in.	in.	in.	in.	
XI.	Flint	St. Asaph (Nantllys)	26·30	28·71	28·04	·67	— 2
„	Merioneth	Llanderfel (Palé)	45·65	(48·20)	48·67	·47	+ 1
„	Carnarvon	Llanystumdwy (Talarvor) ...	35·56	35·83	38·31	2·48	+ 7
„	Anglesea	Llanerchymedd Llwydiarth Esgob.....	38·60	38·21	37·25	·96	— 3
„	Isle of Man ...	Douglas (Woodville)	41·83	(43·30)	41·92	1·38	— 3
„	Scilly	St. Mary's	31·23	(32·80)	32·55	·25	— 1
SCOTLAND.							
XII.	Wigton	Stoneykirk (Ardwell House)...	34·77	(35·05)	38·12	3·07	+ 9
„	Kirkeudbright.	Dalbeattie (Colvend Manse) ...	38·30	(38·50)	33·43	5·07	— 13
„	„	Gatehouse (Cally)	47·90	48·74	54·29	5·55	+ 11
„	„	Cargen [Dumfries]	43·90	43·43	42·44	·99	— 2
„	Dumfries	Langholm (Ewes School)	52·19	(54·10)	44·85	9·25	— 17
„	„	Moffat (Ericstane)	52·60	54·97	48·35	6·62	— 12
„	Roxburgh	St. Boswells (Elliston)	27·56	29·38	27·11	2·27	— 8
XIII.	Berwick	Marchmont House	31·86	34·91	27·18	7·73	— 22
„	Haddington ..	Prestonkirk (Smeaton)	24·33	25·72	23·34	2·38	— 9
„	Edinburgh.....	Pentland Hills (Glencorse) ...	38·93	39·55	34·03	5·52	— 14
XIV.	Lanark	Biggar (Cambus Wallace).....	31·06	30·72	27·46	3·26	— 11
„	„	Airdrie (Hillend Res.)	38·68	37·30	32·05	5·25	— 14
„	Ayr	Girvan (Pinmore)	46·98	48·87	50·40	1·53	+ 3
„	„	Kilmarnock (North Craig) ...	42·45	39·46	39·05	·41	— 1
„	Renfrew.....	Gorbals W.W. (Waulk Glen)..	49·00	46·91	39·80	7·11	— 15
XV.	Stirling	Stirling (Polmaise Gardens)...	34·59	35·80	28·89	6·91	— 19
„	Bute	Rothsay (Barone Cottage) ...	46·35	(47·70)	44·08	3·62	— 8
„	Argyll	Inveraray Castle	78·67	(69·10)	67·36	1·74	— 3
„	„	Appin (Airds)	55·56	55·90	46·07	9·83	— 18
„	„	Strontian (Laudale)	68·69	(72·20)	70·92	1·28	— 2
„	„	Kintyre (Skipness Castle).....	50·14	49·18	45·42	3·76	— 8
„	„	Islay (Ardbeg)	43·00	(44·60)	46·84	2·24	+ 5
„	„	Mull (Quinish)	56·30	(57·50)	57·71	·21	+ 0
XVI.	Kinross	Loch Leven Sluice.....	35·83	36·20	28·43	7·77	— 21
„	Fife	Kilconquhar (Balcarres)	32·93	(34·90)	29·68	5·22	— 15
„	Perth	Bridge of Turk	60·56	66·66	53·25	13·41	— 20
„	„	Balquhiddy (Stronvar).....	72·98	(74·70)	69·00	5·70	— 8
„	„	Crieff (Ochertyre).....	39·44	(41·50)	36·45	5·05	— 12
„	Forfar	Broughty Ferry (Airlie Park)..	27·35	(28·85)	23·26	5·59	— 19
„	„	Kirriemuir (Lintrathen)	33·03	(35·60)	30·50	5·10	— 14
„	„	Montrose (Sunnyside Asylum)	26·98	29·16	22·89	6·27	— 22
XVII.	Aberdeen ..	Braemar	34·51	36·07	31·51	4·56	— 13
„	„	Cromar (Logie Coldstn. Manse)	29·60	30·14	29·17	·97	— 3
„	„	Ellon (Mains of Waterton) ...	30·09	30·91	27·86	3·05	— 10
„	Banff	Keith	33·84	32·72	34·20	1·48	+ 5
„	Elgin	Grantown	31·69	31·00	34·45	3·45	+ 11
„	Nairn	Nairn (School House)	25·42	(24·60)	24·31	·29	— 1

SCOTLAND—Continued.

DIV.	COUNTY.	STATION.	Average, 1890-9.	Average, 1870-99.	Depth in 1901.	Difference from average 1870-99.	
						Amount.	Per cent.
XVIII.	Ross, West	Strathconan (Dalbreac)	53·62	(50·90)	39·61	11·29	— 22
"	"	Braemore House	64·48	58·56	56·33	2·23	— 4
"	" East	Alness (Ardross Castle)	38·14	37·84	38·81	·97	+ 3
"	Inverness, West	Loch Shiel (Glenaladale)	108·85	105·29	87·13	18·16	— 17
"	"	Glenquoich	112·44	108·26	95·00	13·26	— 12
XIX.	Sutherland	Invershin	32·66	32·76	33·67	·91	+ 3
"	"	Golspie (Dunrobin Castle)	32·26	(31·60)	31·86	·26	+ 1
"	Caithness	Watten, H.R.S.	28·03	(27·40)	29·30	1·90	+ 7
"	Orkney	S. Ronaldshay (Roeberry)	36·09	33·15	32·00	1·15	— 3

IRELAND.

XX.	Cork	Roche's Point	43·32	(47·20)	37·73	9·47	— 20
"	Kerry	Kenmare (Derreen)	66·16	(69·50)	66·29	3·21	— 5
"	"	Valencia (Glanleam)	55·30	(55·90)	51·54	4·36	— 8
"	Waterford	Waterford (Brook Lodge)	38·56	(39·30)	38·71	·59	— 2
"	"	Glenam [Clonmel]	40·89	42·17	36·24	5·93	— 14
"	Tipperary	Derry Castle [Killaloe]	47·55	(47·70)	42·80	4·90	— 10
"	Clare	Miltown Malbay	45·31	(44·50)	46·71	2·21	+ 5
XXI.	Wexford	Enniscorthy (Ballyhyland)	41·45	42·87	39·14	3·73	— 9
"	"	Gorey (Courtown House)	33·62	35·72	32·54	3·18	— 9
"	Wicklow	Bray (Fassaroe)	39·68	40·55	40·00	·55	— 1
"	Carlow	Carlow (Browne's Hill)	33·65	34·44	31·93	2·51	— 7
"	King's Co.	Parsonstown (Birr Castle)	32·96	33·06	31·20	1·86	— 6
"	Dublin	Dublin (Fitz William Square)	27·30	27·75	26·08	1·67	— 6
"	Meath	Moynalty (Westland)	36·67	(37·40)	37·65	·25	+ 1
"	West Meath	Athlone (Twyford)	35·83	38·42	35·57	2·85	— 7
"	"	Mullingar (Belvedere)	36·50	(36·50)	35·54	·96	— 3
XXII.	Galway	Ahascragh (Clonbrock)	39·32	(40·40)	38·06	2·34	— 6
"	"	Clifden (Kylemore House)	79·82	(80·20)	67·38	12·82	— 16
"	"	Tuam (Gardenfield)	42·18	(41·90)	40·81	1·09	— 3
"	Mayo	Crossmolina (Enniscoe)	52·60	(50·50)	52·54	2·04	+ 4
"	Sligo	Collooney (Markree Obsy.)	41·27	41·83	44·87	3·04	+ 7
XXIII.	Armagh	Armagh Observatory	30·97	31·36	32·11	·75	+ 2
"	Down	Warrenpoint (Summer Hill)	36·44	(38·70)	35·96	2·74	— 7
"	"	Seaforde	36·27	38·61	34·56	4·05	— 10
"	"	Banbridge (Milltown)	30·23	31·47	31·34	·13	— 0
"	"	Donaghadee	30·39	(32·00)	29·60	2·40	— 8
"	Antrim	Belfast (Antrim Road)	35·28	34·57	36·13	1·56	+ 5
"	"	Ballymena (Harryville)	39·52	(39·60)	42·50	2·90	+ 7
"	"	Bushmills (Dundarave)	36·70	(38·20)	38·12	·08	— 0
"	Londonderry	Garvagh (Moneydig)	37·95	39·16	38·37	·79	— 2
"	"	Londonderry (Creggan Res.)	41·36	(41·20)	42·38	1·18	+ 3
"	Tyrone	Stewartstown (The Square)	36·14	(35·10)	34·75	·35	— 1
"	"	Omagh (Edenfel)	39·66	37·85	43·0	5·15	+ 14
"	Donegal	Killybegs	59·87	(59·40)	59·55	·15	+ 0
"	"	Buncrana (Rockfort)	40·24	(41·50)	39·90	1·60	— 4

EXTREMES OF RAINFALL IN 1901.

Largest Rainfall, at Glaslyn, Snowdon (No. 13).....	186·70 in.
Least Rainfall, at The Lodge, Foulness, Essex	12·76 ,,

ENGLAND.

GREATEST.		LEAST.	
Div.	in.	Div.	in.
X. The Sty, C	164·21	IV. Foulness (The Lodge).....	12·76
„ Styehed Tarn	124·05	II. Higham (Oakleigh).....	13·86
„ Mickleden	116·78	„ White Ness (Kingsgate).....	13·95
„ Sprinkling Tarn	113·85	„ Margate (Grosvenor Place)..	14·19
„ Borrowdale (Seathwaite)		IV. Clacton-on-Sea.....	14·19
4in. g.	112·09	II. Ramsgate (Thyra Villas) ...	14·39
„ Little Langdale (Fell Foot)	107·75		

MONMOUTH, WALES AND THE ISLANDS.

GREATEST.		LEAST.	
Div.	in.	Div.	in.
XI. Snowdon (Glaslyn, No. 13)	186·70	XI. Anglesea (Llandwyn Island)	21·57
„ „ (Llydaw)	169·50	„ Guernsey (Claire Mare)	21·90
„ Dolwyddelan (Upp.Nhadog)	145·65	„ „ (Villa Carey)	23·30
„ „ (Lower „)	133·10	„ „ (L'Ancrese)	24·18
„ Eigiau, Upper	118·25	„ Caldicot Level (Porton).....	24·21
„ Dolwyddelan (Cwm Edno).	114·20	„ Monmouth (The Hendre) ...	24·86

SCOTLAND.

GREATEST.		LEAST.	
Div.	in.	Div.	in.
XVIII. Ben Nevis Observatory ...	156·43	XIII. Edinburgh(CityObservatory)	19·60
„ Glenquoich	95·00	XVI. Arbroath (Water Works) ...	19·76
„ Loch Shiel (Glenaladale) ...	87·13	„ „ (Dishland Hill) ...	19·79
XV. Mull (Lochbuie).....	85·21	XIII. Bo'ness (Neidpath Cottage).	21·18
„ Ben Lomond	83·90	XVI. Tayport (Low Light)	21·21
XVIII. Loch Torridon (Bendamph)	82·35	XIII. Edinburgh (George Square).	21·46

IRELAND.

GREATEST.		LEAST.	
Div.	in.	Div.	in.
XX. Gap of Dunloe (Garrymeen)	71·25	XXI. Donnybrook (Seaview Terr.)	23·45
„ Dunmanway (Coolkelure) ..	68·26	„ Rathmines (Terenure)	25·21
XXII. Westport (Mallaranny)	67·98	„ „ (Leinster Road)	25·39
„ Clifden (Kylemore House)...	67·38	„ Bagnalstown (Fenagh House)	25·58
XX. Kenmare (Derreen).....	66·29	„ Dublin (Phoenix Park)	25·76
XXII. Recess Hotel	62·66	„ Drumconrath (Corstown Ho.)	25·92

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 ground.

GENERAL TABLES
OF
TOTAL RAINFALL IN 1901,
AT ABOUT
3500 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.*, “Haslemere (Weycombe)” means Weycombe near Haslemere, 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 as to the fall of snow in February, or possible overflow.

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 :— $\overline{\text{A}}$, that a series of levels has been taken from the gauge to an Ordnance bench mark ; I , 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 SeaLevel	1901	
MIDDLESEX.						
Hampton (Southwark W. W.)...	J. W. Restler, Esq., C.E.	5	2 0	...	15·79	...
Sunbury (Hanworth Road)	W. B. Bryan, Esq., C.E.	8	1 0	50 ∇	17·83	147
d Staines (Belle Vue)	J. Gundry, Esq.....	5	1 0	51 ∇	19·76	135
„ (Cambria House)	C. Ashby, Esq.	5	1 0	50 ∇	19·19	102
Twickenham (Hampton Road)..	T. Gale, Esq.	5	1 3	37 ∇	16·84	124
„ (Sewage Works)...	F. W. Pearce, Esq. ...	5	1 7	37 ∇	16·54	108
Chelsea (Pumping Station)	M. Fitzmaurice, Esq. CE	8	1 0	19 ∇	20·70	...
d „ (St. Luke's Gardens) ...	TWE.Higgins, Esq. CE	5	1 0	25 ∇	19·69	123
d Isle of Dogs	M. Fitzmaurice, Esq. CE	8	1 0	15 ∇	19·53	121
d Acton (Newburgh Road)	Miss Baker	5	1 6	86 ∇	18·16	130
Ealing (Public Buildings).....	C. Jones, Esq., C.E. ...	5	9 0	114	16·80	108
„ (Gordon Road)	J. Box, Esq.	5	10 0	85 ∇	16·81	125
„ (Castle Bar Road).....	T. Simpson, Esq.	5	1 0	152	18·26	108
d „ (St. Stephen's Road) ...	H. W. Peal, Esq.	8	2 2	159 ∇	17·04	109
Westminster (Chester Sq., S. W.)	C. Lethbridge, Esq. ...	5	10 0	...	20·61	129
„ (Spring Gardens)(1)	M. Fitzmaurice, Esq. CE	8	66 4	95 ∇	18·99	...
„ („ „)(2)	„ „ „	12	65 11	95 ∇	19·02	...
„ („ „)(3)	„ „ „	8	6 0	35 ∇	19·62	...
d Kensington (Edith Road).....	G. von U. Searle, Esq.	5	0 10	16 ∇	17·68	128
d „ (V. & A. Museum) ..	Genl. Festing, F.R.S...	8	0 6	27 ∇	19·93	132
d „ (Holland House) ...	Mr. C. Dixon	5	4 6	68 ∇	17·91	112
d „ (Addison Gardens)...	G. H. M. Whish, Esq..	5	1 1	23 ∇	18·09	127
d „ (Campden Hill)	M. W. Hervey, Esq., C.E.	8	4 10	130 ∇	17·94	115
d London (Westbourne Grove, W.)	A. P. Baker, Esq.	5	0 9	64 ∇	20·23	118
d „ (Strand, W.C.)	J. J. Steward, Esq. ...	5	45 0	80	22·53	123
„ (Guildhall, E.C.)	D. J. Ross, Esq., C.E..	8	2 6	49 ∇	14·74	...
„ („ „)	„ „ „	8	51 0	98 ∇	14·76	...

DIVISION I.—MIDDLESEX.—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1901	Days on which '01 or more fell.
		Diameter	Height Above Ground		Height Above Sea Level	
			ft.	in.	feet.	inches.
MIDDLESEX—(con.)						
D London (Mile End, E.)	J. Metson, Esq.	5	14	0	...	22·53 103
D „ (City Road)	J. Bigwood, Esq., M.P.	5	1	2	...	20·18 117
„ (Old Street, E.C.)	The Royal Meteor. Soc.	5	1	0	70 †	19·27 129
Uxbridge (Cowley)	H. Judson, Esq.	5	6	2	90	16·84 ...
Perivale (Sewage Farm)	C. Jones, Esq., C.E.	5	12	0	56	17·68 110
London (Regent's Pk. R. Bot. Soc.)	J. B. Sowerby, Esq.	8	1	0	126 †	22·87 128
„ (Hamilton Terrace, N.W.)	Miss Cobb	5	0	11	125 †	20·10 136
D „ (Barrow Hill, N.W.)	M. W. Hervey, Esq., C.E.	5	3	4	190 †	19·92 138
D „ (Old Ford, E.)	M. Fitzmaurice, Esq. CE	8	1	0	35 †	19·91 110
D „ (New River Head, E.C.)	J. Francis, Esq., C.E.	5	3	8	100	18·04 118
D† „ (Camden Square, N.W.)	HS Wallis, Esq & Dr. Mill	8	0	8	111 †	22·17 128
† „ („ „)	M. „ „ „	5	1	0	111 †	22·00 ...
D Willesden Reservoir	M. W. Hervey, Esq. C. E.	5	2	6	199 †	19·45 145
D Willesden Green (Strode Road)	Miss Lamport	5	1	0	150	21·43 139
D Hampstead (Kidderpore Reserv.)	M. W. Hervey, Esq., C.E.	8	1	6	323 †	24·45 136
D† „ (Squire's Mount)	The Misses Field	5	1	0	388 †	20·56 118
„ (The Pryors)	„ „ „	5	1	0	327 †	21·50 ...
Lea Bridge	W. B. Bryan, Esq., C.E.	8	1	0	23 †	18·70 122
D Finsbury Park (New River Works)	E. L. Morris, Esq., C.E.	5	1	0	101 †	19·43 111
D Stoke Newington („ „ „)	J. Francis, Esq., C.E.	5	4	0	105 †	19·40 126
Stamford Hill	W. B. Bryan, Esq., C.E.	8	0	9	84	22·54 115
Highgate (North Hill)	E. J. Lovegrove, Esq., CE	5	3	10	302	24·44 115
D† Child's Hill (Helenslea)	A. J. Woodhouse, Esq.	5	1	6	245 †	22·48 145
Harrow	J. P. Bennetts, Esq., C.E.	5	1	0	215	18·58 131
Crouch End (Aubrey Road)	A. Morris Butler, Esq.	5	1	0	140	21·76 134
Hornsey (High Street)	E. J. Lovegrove, Esq., CE	8	4	3	97	21·81 119
D „ („ „)	J. Francis, Esq., C.E.	5	4	0	109	19·79 131
D Muswell Hill	Miss Abethell	5	0	10	310 †	23·21 126
„ „ (Irish Corner Sew. Farm)	E. J. Lovegrove, Esq., CE	8	4	8	216 †	23·15 138
Wealdstone House	Miss L. M. Cobb	5	0	11	236 †	17·61 ...
† Finchley (Etchingham Park)	Mrs. J. W. Scott	5	1	2	295 †	22·22 143
D† „ („ „)	„ „ „	8	1	3	295 †	22·27 143
D Uxbridge (Harefield Park)	Mr. W. Batchelor	5	0	10	290	18·85 116
D Pinner (Moss Cottage)	Mrs. Birkett	5	1	0	209	18·06 120
„ Green (Northwold)	Miss Stanley Smith	8	0	10	200 ?	17·77 107
D Harrow Weald (Hill House)	A. Crossman, Esq.	5	3	6	284	20·57 165
North Finchley	G. B. Shoults, Esq.	5	0	6	295 †	22·95 ...
D Friern Barnet (Sewage Works)	Baldwin Latham Esq CE	5	1	0	156 †	19·97 112
D Enfield (Old Park)	A. L. Ford, Esq.	5	1	9	156 †	19·25 119
D „ (Southbury Road)	J. Francis, Esq., C.E.	5	4	0	109 †	18·83 129
D „ (Carisbrooke)	J. McEwan, Esq.	5	1	0	204 †	20·26 136
D „ (Chace Court)	A. G. Kitching, Esq.	5	1	6	...	20·34 132

DIVISION II.—SOUTH EASTERN COUNTIES.

SURREY.

D Haslemere (Lower Street)	J. W. Penfold, Esq.	8	4	0	481 †	29·26 130
D „ (Hazelhurst)	T. P. Newman, Esq.	5	1	0	550 †	30·28 145

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	1901	
			ft. in.	feet.	inches.	
SURREY—(con.)						
Haslemere (Grayswood Hill) ...	B. E. C. Chambers, Esq.	5	1 0	580 N	28·00	...
Dunsfold (Durfold)	Miss Billiter	5	1 0	225 T	24·38	...
D Chiddingfold	A. F. Parbury, Esq....	5	1 0	174 T	26·36	129
" <i>Snowdon M</i>	" " "	5	0 11	165	25·51	...
D " (Beaconscroft).....	Admiral Maclear	5	1 0	230 N	24·87	151
Dunsfold Rectory	Rev. W. H. Winn.....	5	1 0	170	22·72	...
Haslemere (Weycombe)	G.B.Buckton, Esq.FRS.	5	1 0	562 N	23·83	...
Okewood Vicarage	Rev. R. H. B. Simpson	5	0 8	285 T	24·83	...
D Hambledon (Matteryes)	J. Borrowman, Esq. ...	5	5 8	300	22·80	155
D Witley (Fernside)	Mrs. J. H. Foster	5	1 0	350 T	24·00	134
Hascombe Rectory.....	the Rev Canon Musgrave	8	1 0	450 T	21·92	...
" (Hall Place).....	E. L. Rowcliffe, Esq...	8	1 5	273 N	24·40	104
D Cranleigh Common (Homefield Cott.)	A. F. Jones, Esq.	5	1 2	175 T	23·96	135
" "	W. Welch, Esq.	5	1 0	182 N	25·21	...
" (County School)	Royal Meteor. Soc.....	5	1 0	232 N	23·94	133
D " (Winterfold)	Mr. R. Turvey	8	3 6	603 T	24·78	125
Ewhurst (Malquoits).....	W. Webb. Esq.....	5	1 6	400	24·19	147
D " (Coneyhurst).....	Miss Ewart.....	8	1 0	561 T	24·81	140
D " (Heathside)	J. Sparkes, Esq.	5	1 6	600 N	25·33	119
" (Woolpits)	Mr. H. W. Perrin	5	1 0	600	24·71	...
Abinger (Feldemore)	E. Waterhouse, Esq. .	5	4 0	505 T	25·33	125
Bramley (Grafham Grange).....	J. C. McAndrew, Esq..	8	1 2	180	22·76	...
Godalming (Peper Harow)	The Meteor. Council ...	5	1 0	200	23·00	125
D " (Hurtmore Lane) ...	O. H. Latter, Esq.....	5	1 0	310 N	23·37	150
D Lyden Croft [Edenbridge]	Surg.-Gen. C. Planck ..	8	1 0	212 N	23·41	122
D Wonersh (Shamley Green) ...	Mr. A. Nash.....	5	1 0	400	23·63	123
D Bramley (Cloverlea)	J. Bartlett, Esq.	5	1 0	147	25·07	151
Godalming (Tilthams)	Col. A. C. Bigg-Wither	5	1 0	130 N	21·24	...
D Abinger Rectory	Miss Brodie Hall	5	1 0	381	26·95	127
D " Hall	Right Hon.Lord Farrer	8	2 0	320 T	26·22	141
D Farnham (The Bourne Vicarage)	Rev. T. W. Sidebotham	5	1 0	308 N	25·01	159
D " (Dippen Hall)	M. Birkbeck, Esq.....	5	1 0	345 T	24·86	164
" Castle	Mr. H. Dowding	8	1 0	300	22·99	...
D " (Short Heath Lodge). Col. G. Chrystie.....		5	1 0	365 T	25·12	138
" (Great Down, Seale)... Mrs. Kitchin		8	1 0	490	18·19	...
Dorking (Fir Tor)	F. Taylor, Esq.	5	1 0	260	26·55	...
D " (Rose Hill)	H. Belfield, Esq.	5	1 3	220	26·35	139
" (West Street)	Mrs. W. A. Marsh.....	10	26 0	224 T	24·43	128
D " (Denbies).....	Mr. J. Beesley	5	0 9	610 T	27·29	117
Brockham (North Lodge)	H. R. Kempe, Esq. ...	8	0 9	160 T	23·48	...
D Guildford (Newlands Corner) ...	Mr. H. Tann	5	...	550 ?	23·00	137
D " (Kair, Epsom Road).. Miss Johnston		5	0 11	...	22·72	141
D " (Baskerville ,, ,,).. J. H. Billing, Esq. ...		5	1 1	205	22·37	126
D " (Craigie, Merrow) ... Miss Lomer.....		5	0 9	250 T	21·01	113
D Reigate (Hartswood).....	R. W. Clutton, Esq....	5	1 0	174	23·53	135
D " (Woodhatch Lodge) ...	C. B. Haywood, Esq...	5	1 0	270 T	24·21	132
D " (Ringley Mead)	R. L. Hesketh, Esq. ...	5	1 0	345 T	25·93	157

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1901	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
SURREY—(con.)						
D Earlswood (Sewage Farm)	F. T. Clayton, Esq., C.E.	8	1 0	196	24·44	117
D† Red Hill (Oxford Road)	W. H. Tyndall, Esq.	8	1 0	300	25·48	146
Reigate (Aldersyde)	H. Rosling, Esq.	5	1 2	..	25·64	143
„ (Wray Lodge)	A. Rosling, Esq.	8	1 0	320	24·36	130
„ (Northcote)	F. C. Pawle, Esq.	5	0 8	360	25·97	131
D „ (Castle Grounds)	F. T. Clayton, Esq., C.E.	5	1 6	350	26·57	128
D „ (Nutwood)	H. E. Gurney, Esq.	5	0 9	440	24·72	148
D Nutfield Priory	Mrs. Fielden	8	1 2	468	25·49	151
D „ „	Mr. J. Moffat	8	1 2	431	26·11	152
D „ (Holmesdale)	C. T. Maw, Esq.	8	2 0	500	24·50	149
High Clandon	F. B. Eastwood, Esq.	5	0 6	500	22·00	...
D Betchworth (The Holmes) ..	F. R. Rushton, Esq.	5	0 8	322	24·70	156
D Reigate (Hatherlow Obs.)	S. T. Klein, Esq.	5	0 9	405	23·82	138
Dorking (High Ashurst)	Mr. G. Bond	5	10 0	550	20·82	...
D Merstham (Rockshaw)	F. C. Bayard, Esq.	5	1 0	475	26·06	132
D „ (Harp's Oak Cottage) ..	„ „ „	5	1 0	454	28·31	146
D Upper Gatton	F. Druce, Esq.	5	1 0	601	26·65	145
Horsley West	Sir H. E. Roscoe, F.R.S.	7	0 6	240	25·14	...
„ Towers	Capt. Hon. L. F. King-Noel	8	1 2	285	25·01	...
„ (Woodcote Lodge)	Sir H. E. Roscoe, F.R.S.	7	0 6	650	25·90	...
D Pirbright Camp	Sergt. Elwick	5	1 0	201	19·26	131
Leatherhead (Downside)	A. Tate, Esq.	5	1 0	250	23·43	...
D Chaldon Rectory	F. C. Bayard, Esq.	5	1 0	542	28·31	124
D Chipstead (Shabden Park)	„ „ „	5	1 0	550	27·04	141
Frimley Green	F. W. Talbot, Esq.	5	8 0	220	17·03	...
„ „ (Ridgemount)	C. Haviland, Esq.	5	0 9	350	20·88	128
D Caterham Asylum	Dr. Campbell	5	1 0	610	28·56	133
Caterham Valley (Bradenhurst) ..	Henry Haes, Esq.	...	...	600	27·15	...
D Kenley (Hazelea)	Mrs. Carr Dyer	5	1 0	282	26·40	140
D Warlingham (Egremont)	H. Rogers, Esq.	5	1 0	614	25·70	128
D Ashted (D'Abernon Chase) ..	Sir W. Vincent, Bart.	5	1 0	280	19·81	127
D Woking	Rev. F. Wilson	5	0 10	80	20·02	119
D Pyrford (Pyrford Croft)	H. W. Page Phillips, Esq.	5	1 6	...	21·68	149
D Cobham (Hatchford)	W. M. Chinnery, Esq.	8	1 0	150	21·87	122
D Horsell (Lindisaye)	H. Horncastle, Esq.	5	4 2	120	18·83	126
„ „ „	M „ „ „	5	0 9	120	18·85	...
D Oxshott	W. H. Dines, Esq.	5	1 0	206	19·04	135
Banstead (Burgh Heath Res.) ..	W. Vaux Graham Esq. CE	5	1 0	570	23·72	..
D „ (The Larches)	Rev. C. J. Taylor	8	1 0	488	25·51	167
D Camberley (Park Road)	Mr. J. Bryan	5	1 0	240	19·22	120
Chelsham (Fairchildes)	A. S. Daniell, Esq.	8	1 0	600	24·10	...
„ „ „	Mr. G. Mansfield	5	0 10	600	23·16	...
Epsom (Water Works)	W. Vaux Graham Esq. CE	5	1 11	149	20·29	...
D Sanderstead (Red House)	F. C. Bayard, Esq.	5	1 0	320	23·62	144
D Chobham (The Elms)	Mrs. Brown	5	2 3	98	20·88	103
D Chertsey (Ottershaw)	R. H. Otter, Esq.	5	1 0	200	20·04	152
D Bagshot (Hall Grove)	Mr. W. Burgess	8	1 0	229	21·96	149
Chertsey (Long Cross)	F. A. Baker, Esq.	5	3 0	200	17·13	...

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	1901	
			ft. in.	feet.	inches.	
SURREY—(con.)						
D Windlesham (Erlwood).....	E. S. Currey, Esq.....	5	1 0	216	20·62	138
Weybridge (Heath Field).....	Miss A. T. Gardiner ..	5	1 0	100	18·15	127
D „ (West Oaks)	A. Whittet, Esq.	5	1 0	36	17·44	141
D „ (St. Mary's Lodge)..	W. Talbot Agar, Esq..	5	5 0	...	18·71	133
D „	Maj.-Gen. Battersby...	5	0 10	...	17·51	112
D Esher (Sewage Works).....	F. C. Bayard, Esq. ...	5	1 0	42	18·64	148
D Addington (Hares Bank).....	„ „ „	8	1 0	331	25·04	146
D „ (Park Farm)	„ „ „	5	1 0	268	25·02	120
D „ Hills	„ „ „	8	0 9	473	24·76	171
D Wallington.....	„ „ „	5	4 1	140	22·69	146
D Sutton (Sewage Works)	C. C. Smith, Esq., C.E.	8	1 0	94	21·27	144
D „ (Water Works).....	W Vaux-Graham Esq CE	5	1 0	157	22·12	137
D Carshalton (Sewage Works).....	Baldwin Latham Esq CE	5	1 0	118	20·41	140
D Beddington (Riverside).....	The Royal Meteor. Soc.	5	1 0	120	21·85	137
Croydon (Heathfield Road)	J. Glaisher, Esq., F.R.S.	8	0 5	185	21·21	107
D „ (Duppas House).....	Baldwin Latham Esq CE	8	1 0	158	21·94	149
D „ (Waddon New Road).....	G. Corden, Esq.....	5	1 0	146	22·26	139
D „ (The Whitgift)	F. C. Bayard, Esq. ...	5	1 0	191	23·67	149
D „ (Woburn Road)	„ „ „	5	1 1	178	22·85	147
D „ (Brimstone Sew. Works)	„ „ „	5	1 0	130	20·54	116
D „ (Park Hill Rise)	H. F. Parsons, Esq., M.D.	5	1 3	240	20·78	156
D „ (Windmill Road)	A. Malden, Esq.....	5	1 6	174	21·51	131
D „ (Ashburton Road)	J. E. Clark, Esq.	5	1 0	188	23·17	138
D Worcester Park (Parkside)	T. Hill, Esq.	5	1 0	80	20·73	139
D „ „ (Manor Lodge).....	F. C. Bayard, Esq. ...	5	1 9	120	18·89	130
D New Malden (Sewage Works)...	„ „ „	5	1 0	45	16·33	117
D Morden	Miss R. Hames .....	...	3 2	108	23·19	134
D Virginia Water (Lyne Grove)...	T. J. Hare, Esq.	5	0 11	150	18·96	145
D Thames Ditton (Weston Green).	Mr. T. H. Potter	8	1 0	35	18·45	150
D „ „ (Giggs Hill).....	W. A. Hardwick, Esq.	5	0 9	35	18·79	119
D Surbiton (Seething Wells) ..	H. E. H. Wrinch Esq. CE	10	0 6	34	17·58	124
D „ (Vronvelin).....	F. J. Barclay, Esq.....	5	1 0	50	18·97	136
D East Molesey	Miss R. Follett	5	...	23	18·84	122
D West Molesey.....	H. E. H. Wrinch Esq. CE	5	1 0	32	18·06	136
D St. Ann's Heath (Sanatorium)...	Rev. J. Peck	8	1 1	120	18·37	128
D Kingston Sewage Works	F. C. Bayard, Esq. ...	5	1 0	25	19·89	127
D „ (Union Street)	Mr. Davis	8	3 0	...	17·91	108
D Wimbledon (Raynes Park)	C. H. Cooper, Esq., C.E.	5	1 0	48	19·73	160
D „ (Sewage Works).....	„ „ „	5	1 3	58	17·67	138
D „ (The Downs)	F. C. Bayard, Esq.....	5	1 1	162	18·27	123
D „ Common (Richmond Ho.)	E. Rawlings, Esq.....	5	1 3	175	19·78	140
D „ Park (Woodhouse).....	Sir A. E. Bateman ...	5	1 0	150	19·92	115
D South Norwood (Apsley Road)...	F. C. Bayard, Esq. ...	5	1 0	125	19·90	118
D West Norwood (Thornlaw Road)	W. Marriott, Esq.....	5	1 0	221	20·47	152
D Streatham (Woodfield Avenue)...	F. Jordan, Esq.	5	1 0	120	20·34	158
D Dulwich Wood Park	H. V. Caldicott, Esq....	5	1 2	276	19·59	124
D Wandsworth Com. (Patten Rd.)	F. C. Bayard, Esq. ...	5	1 0	100	19·81	139

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	1901	
SURREY—(con.)						
d Putney Heath.....	H.E.H. Wrinch Esq.CE	5	1 6	180 ∇	17.89	137
d Richmond (The Terrace)	F. C. Bayard, Esq. ...	8	1 6	109	17.54	121
d „ (Kew Observatory) ..	Dr. C. Chree, F.R.S. ...	11	1 9	19 ∇	18.74	131
d Clapham Park (New Park Road)	D. W. Horner, Esq.	5	1 3	128 ∇	19.65	123
Brixton (Acre Lane)	The Meteor. Council ...	8	1 0	77 ∇	21.48	126
Nunhead (Southwark W. W.)...	J.W.Restler Esq ,C.E.	5	4 0	176	15.92	...
d Denmark Hill	Col. E. P. Maltby	5	1 0	120	20.15	133
d Battersea (Southwark W. W.)...	J.W.Restler, Esq.,C.E.	5	3 6	21	17.54	106
d Nine Elms (Heathwall)	M.Fitzmaurice, Esq.CE	8	37 0	51 ∇	17.97	113
KENT.						
Dungeness	The Meteor. Council ...	8	1 3	75 ∇	16.61	129
d Hawkhurst (Sandhurst Rectory)	Rev. G. Ridout	5	1 3	208 ∇	25.82	139
Dymchurch Rectory	Rev. C. E. Plater	8	1 6	5	18.84	...
Tenterden (Summerhill)	Mrs. Wilkin	8	1 0	149 ∇	23.18	...
„ „ „ <i>new g.</i>	„ „ „	5	1 0	150 ∇	23.77	149
Benenden (Pullington)	Major H. Neve	5	1 0	330	23.98	133
„ „ (East End)	J. Ellis Mace, Esq.	8	1 2	193 ∇	22.50	...
d Tenterden	„ „ „	8	1 5	190 ∇	22.76	169
d „ „ <i>Snowdon</i>	„ „ „	8	1 5	190 ∇	22.36	153
„ „ (West Cross)	J. Mann Mace, Esq. ...	5	1 0	...	22.09	121
„ „ (Little Westwell) ...	the late W. Hilder, Esq.	5	1 0	140 ∇	22.47	...
„ „ (Ashbourne Mills) ...	A. Pinyon, Esq.....	5	1 6	45	21.35	...
d Woodchurch	Rev. A. Welch	5	5 0	107 ∇	26.85	111
d† Hythe	Messrs. Mackeson & Co.	8	0 6	12 ∇	21.63	147
d „ „ (Hillcrest Road)	J. B. Jordan, Esq.....	5	1 0	190 ∇	19.64	128
d „ „ (Sandling Park)	Lawrence Hardy Esq MP	8	1 0	268	22.91	109
† „ „ (Hillhurst Farm)	G. F. Deedes, Esq. ...	5	2 0	280 ∇	22.73	154
d Sandgate	A. R. Bowles, Esq.,C.E.	5	1 0	56 ∇	17.94	132
Cranbrook (Swattenden)	Miss Appach	8	1 2	350 ∇	22.48	123
† „ „ (Hartley)	G. Pile, Esq.	5	4 0	405 ∇	22.98	150
Biddenden (Sandpit Wood)	J. Ellis Mace, Esq.....	5	1 0	222 ∇	24.47	...
Goudhurst (Scotney Castle)	E. W. Hussey, Esq....	5	4 4	203 ∇	21.12	...
† Folkestone (Sanatorium)	M. Yunge Bateman, Esq.	5	1 0	101 ∇	19.73	...
d† „ „ (Radnor Park)	J. W. Stainer, Esq. ...	5	4 8	129 ∇	18.35	125
d† „ „ (Cherry Gardens) ...	H. Turner, Esq.....	5	1 6	230 ∇	20.84	141
† „ „ (Capel Lodge).....	E. Norton, Esq., M.D..	5	0 8	480 ∇	17.47	144
d „ „ (Lower Standen, Capel)	H. Turner, Esq... ..	5	2 11	250	18.47	135
† Hythe (Paddlesworth)	Mrs. Dixon	8	1 0	608 ∇	29.05	...
d Goudhurst Vicarage	Rev. J. S. Clarke	5	1 1	412 ∇	20.27	149
d „ „ (Maypole).....	G. Parker Hinds, Esq..	8	1 8	419	23.44	116
d† Dover (Water Works)	H. E. Stilgoe, Esq., C.E.	5	1 6	199 ∇	19.45	134
d Kearsney (Chilton Farm)	„ „	5	1 6	127 ∇	21.69	132
† „ „ Abbey	Mr. E. Cartwright..	5	1 0	94 ∇	23.41	145
Acrise (Great Shuttlesfield).....	Mr. G. C. Woollett ...	5	1 0	540	25.55	...
„ „ Place	Miss Mackinnon.....	5	1 0	484 ∇	30.72	...
d† „ „ (School House)	Mr. G. C. Woollett ...	8	1 0	504 ∇	31.19	137

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1901	Days on which ·01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level		
			ft. in.	feet.	inches.	
KENT—(con.)						
D Ashurst (Stone Ness)	S. Poyntz Wright, Esq.	5	1 0	310 T	25·10	142
D Cranbrook (Camden Lodge)	Mr. A. Habbitts.....	5	1 0	276 T	22·94	125
D Ashford (Bethersden)	W. H. Mold, Esq.....	5	4 0	111 T	23·72	142
D „ (Beavor Green)	T. Nickalls, Esq.	5	1 0	155 T	23·73	134
Horsmonden (Broad Ford House)	L. E. Maude, Esq.....	5	2 2	96 T	28·20	150
Tunbridge Wells (Bredbury) ...	F. G. Smart, Esq.....	5	1 0	416 T	25·88	149
„ „ (Didmarton)...	E. Weldon, Esq.	8	5 6	400 ?	23·07	...
D† „ „ (Speldhurst Rec.)	Rev. D. D. MacKinnon	5	1 0	320 T	20·85	127
D† „ „ (Etherton Hill)	E. W. Winton, Esq....	5	1 5	288 T	22·59	101
D „ „ (Pembury) ...	W. H. Maxwell, Esq. C.E.	8	1 8	181 T	20·06	119
Staplehurst (Pagehurst Farm)...	J. Norris, Esq.	5	1 4	310 T	26·04	116
D Chiddingstone Rectory ...	Rev. J. T. Pearse	5	1 0	170 T	20·53	125
Tunbridge (Penshurst Place) ...	Rt. Hon. Lord De Lisle	5	1 0	...	21·07	...
D „ „ („ „ Park) ...	Mr. J. M. Sturgess ...	5	0 4	265 T	22·35	136
„ „ (Primrose Hill)	G. J. Kimmins, Esq....	5	0 10	175 T	21·37	126
D „ „ (Beech Hurst).....	W. C. Punnett, Esq....	5	1 6	102 T	21·62	127
„ „ („ „)Snowdon	„ „ „ „	5	1 6	102 T	21·41	127
„ „ („ „).....M	„ „ „ „	8	4 0	105 T	21·48	...
D Ashford (Westwell)	Rev. H. H. D'Ombra	5	1 0	272	24·79	124
D Edenbridge (Falconhurst)	Rt. Hon. J. G. Talbot, MP	5	1 0	300	23·97	120
Deal and Walmer W. W.	A. Mantle, Esq.	12	1 0	110 T	19·70	...
D „ „ „ „	„ „ „ „	5	1 0	110 T	20·00	143
Wye (Bilting)	Mr. A. H. Briggs	5	1 3	158	27·71	130
D Hadlow	F. W. E. Shrivell, Esq.	5	1 0	100	20·26	136
D Deal (Sewage Works)	Baldwin Latham Esq. C.E.	5	1 0	11 T	19·43	130
D Maidstone (Linton Park)	Mr. C. Pratt	5	1 0	...	22·85	125
D „ „ (Ulcombe Place)	A. O. Walker, Esq. ...	5	1 0	350 T	20·55	128
D „ „ (Lower Tovil)	Lawrence Green, Esq..	5	1 0	30 L	19·34	129
„ „ (Long Rede, Barming)	Rev. T. W. Carr	8	3 6	280 T	19·61	104
„ „ (The Vicarage)	Rev. Canon Joy	8	1 6	...	20·48	...
D „ „ (Mount House)	C. A. Case, Esq.....	5	1 0	160 T	23·03	137
D Eastry (Great Walton)	W. V. Lister, Esq. ...	5	2 2	25 T	17·48	138
Sandwich (Word)	W. Elvin Napier, Esq..	...	...	...	17·89	...
D East Malling (Broadwater)	C. B. Mercer, Esq. ...	5	1 6	169	20·65	144
D West Malling (St. Leonards) ...	G. Phillips, Esq.	5	1 0	...	21·40	130
D Debtling	R. Cooke, Esq.	5	1 2	330 T	22·49	166
Maidstone (Allington)	Mr. G. Bunyard.....	5	1 4	100	19·89	...
Aylesford (Preston Hall)	Mr. W. Jarman.....	5	1 6	80	17·41	...
Sheldwich	Rev. B. S. Malden.....	5	1 0	250 T	24·61	133
D† Selling (Harefield).....	S. Neame, Esq.	5	2 6	217 B	24·94	152
Westerham (The Fishponds) ...	F. C. Bayard, Esq.....	5	1 0	380	21·04	...
D „ „ (Hill Estate)	„ „ „ „	5	1 0	539	25·22	117
D Canterbury (Irrigation Works)..	C. Terry, Esq., C.E....	5	0 5	15 T	16·55	127
D† Seven Oaks (River Hill)	Major J. M. Rogers ...	8	4 0	535	21·82	118
† „ „ (The Rectory)	Rev. T. S. Curteis.....	5	1 0	497	22·33	...
D „ „ (St. John's Hill) ...	F. C. Bayard, Esq....	5	1 10	380	22·34	151
D† „ „ (Riverhead Vic.) ...	Rv Canon Burn Murdoch	5	0 6	300 T	21·86	102
D „ „ (Chevening Gardens)	Mr. C. Sutton	5	1 0	360	25·57	126

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of	Days on which -01 or more fell.
		Diameter			Rain.	
			Height Above Ground.	Height Above Sea Level	1901	
			ft. in.	feet.	inches.	
KENT—(con.)						
D Seven Oaks (Kemsing)	T. Stonham, Esq.	5	6 0	300	22·73	139
D Halstead Rectory	Rev. F. Page-Roberts..	5	1 0	540	25·57	155
Sittingbourne (Sharsted Court).	A. J. Rayfield, Esq. ...	5	1 6	276 T	17·67	...
Ospringe (Lorenden)	W. C. Stunt, Esq. ...	5	1 2	180 B	19·77	110
Knockholt (Kent Waterworks)..	F. C. Bayard Esq.....	5	1 0	785	24·22	...
" " " "	" " " "	5	24 6	812	18·28	...
D Farnborough (Feniton).....	Miss Percy	5	1 0	376 T	22·45	146
Ash (Pettings House)..... <i>new g.</i>	C. J. G. Hulkes, Esq...	5	1 0	540 T	22·95	125
D Ramsgate (Thyra Villas)	E. J. Bentley, Esq. ...	5	0 6	...	14·39	117
Herne Bay (Eddington) ...	Miss Hawksworth	5	1 0	4 P	16·03	...
D West Wickham (Wickham Court)	F. C. Bayard, Esq. ...	5	1 2	300	24·99	124
D Orpington (Kent Waterworks)...	" " " "	5	1 0	220	22·09	118
D Farningham Hill ...	" " " "	5	3 0	300	21·54	140
D " (Mount Pleasant) ...	Allanson Bailey, Esq...	5	1 0	...	21·65	160
Chatham (Luton W.W.)	W. Coles Finch, Esq....	5	3 0	88 A	17·58	135
"	The Meteor. Council ...	8	1 3	137	15·44	106
D Rochester (Knights Place)	J. Pye, Esq.	5	2 3	320	19·45	142
Broadstairs (Providence House)..	Cecil Hamersley, Esq..	5	2 0	50	15·67	129
D St. Peter's <i>new g.</i>	Rev. H. C. V. Snowden	5	0 9	140 A	15·77	134
White Ness (Kingsgate)	Mr. R. Silk.....	5	1 0	98 L	13·95	105
D Margate (Apsley House)	J. Stokes, Esq.	5	1 0	84 L	15·07	132
D " (Grosvenor Place)	Rev. A. L. Brine	5	1 1	30 P	14·19	160
D Sheppey (Newhouse, Leysdown)	C. A. Till, Esq.	5	1 2	50	16·70	131
Strood Water Works	W. Banks, Esq., C.E..	5	3 0	112	16·51	127
D Frindsbury (Manor Farm)	F. Baker, Esq.	5	1 0	100	16·94	111
D Bromley Common (Elmfield) ...	Rev. J. P. Faunthorpe..	5	0 9	235 A	22·03	139
Bickley (The High Field)	J. Batten, Esq.	5	1 2	295	22·74	...
D Bromley (The Palace)	F. C. Bayard, Esq. ...	5	1 0	187	22·34	142
D " (Widmore Road)	Miss Scott	5	1 0	230	20·95	130
Chislehurst (Foxbury)	H. F. Tiarks, Esq.....	8	4 6	250	19·92	134
" (Hawkwood)	F. C. Bayard, Esq.....	5	1 0	300	21·12	106
D Southfleet (Kent Waterworks)...	" " " "	5	1 0	82	17·59	132
D Wilmington (" ")...	" " " "	5	1 0	25	17·82	137
D Sidcup (Hatherley Road)	Dr L. Burrell	5	1 2	170 T	21·96	151
D " (Park Road)	S. A. Sharman, Esq....	5	5 6	230	17·63	130
D Rochester (Abbot's Court, Hoo)..	Warwick Stunt, Esq....	5	2 0	10	15·20	103
D Beckenham (Wickham Road) ...	E. Scovell, Esq.	5	1 2	156 T	21·42	137
D Forest Hill (Newfield House) ...	F. C. Bayard, Esq. ...	5	1 0	220	19·67	124
D " (Barr Beacon).....	J. W. Restler, Esq., C.E.	5	1 0	344 A	19·06	151
D Dartford (West Hill House).....	F. C. Bayard, Esq. ...	5	1 3	100	18·49	111
D Higham (Oakleigh)	C. Lake, Esq.	8	1 2	25	13·86	...
D Rochester (Cooling)	Mr. J. Filmer	5	1 0	10	16·42	106
D " (Hoo St. Mary).....	H. Pye, Junr., Esq. ...	5	5 6	146 T	14·84	128
" (Beluncle, Hoo)	W. Miskin, Esq.	6	0 10	50	15·52	...
D " (Cliffe Lodge)	E. W. Wood, Esq.	5	1 0	30	17·54	108
Eltham (Cliefden)	Miss Yeatman	5	0 10	198 T	20·60	...
" (Court Road)	A. Roberts, Esq. ....	...	...	...	20·69	...
D " (High Street)	F. C. Bayard, Esq. ..	5	1 0	245	20·31	128

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which 101 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1901	
KENT—(con.)						
Greenwich (Royal Observatory) ..	W.H.Christie, Esq. C.B.	8	0 5	155 T	20.29	123
d† Deptford (Kent Waterworks) ...	F. C. Bayard, Esq. ...	5	1 0	20	18.31	131
d† „ (Pumping Station).....	M. Fitzmaurice, Esq. CE	10	1 6	15	21.96	117
d Erith (Crossness) No. 3	„ „ „	14	0 6	16 T	18.07	115
WEST SUSSEX.						
Bognor	The Royal Meteor. Soc. ....	...	...	14	21.01	146
„ (Lidsey Lodge).....	H. Neale, Esq.	8	1 2	...	23.15	120
Littlehampton (Surrey House)...	A. J. White, Esq.	5	1 8	20 T	21.60	...
Worthing (Ellesmere)	C. Kelly, Esq., M.D....	5	1 0	26 T	21.45	...
„ (Corporation Obs.) ..	„ „ „	8	1 0	34	21.20	...
d West Thorney	H. Padwick, Esq.	5	1 0	23 T	21.00	121
d Arundel (Yapton)	W. A. Hounsom, Esq..	5	1 0	24 T	24.13	120
„ („ Drove Farm).	„ „ „	5	1 0	14 T	24.07	121
Angmering	Rev. J. B. Örne.....	5	1 3	44	21.17	...
d Chichester (Sewage Works)	Baldwin Latham Esq CE	5	1 0	10 T	24.63	133
„ (Westgate Meadow)...	G. A. Tyacke, Esq. ..	8	0 6	40	22.92	145
d Arundel (Clapham Rectory) ..	Rev. A. H. S. Barwell	5	1 0	150 T	24.52	138
„ (Patching)	J. Drewitt, Esq.	5	1 0	180	25.79	136
d „ („)	Mrs. Joad	5	0 10	130 T	25.53	151
d West Bourne [Emsworth]	Rev. L. B. Birkett....	5	0 8	50 T	25.96	153
d Funtington.....	J. A. Greenwood, Esq.	5	1 0	95 T	25.71	133
d West Stoke Rectory	Rev. W. F. Shaw	5	1 0	176 T	26.41	117
d† Steyning	Col. Ingram	5	1 0	80 T	27.60	112
„ (Crescent Road)	Mr. H. J. Hide	5	1 0	80 T	25.50	118
d Chichester (Forest Side Vic.) ..	Mrs. J. C. Parson	5	1 0	341	27.48	127
d „ (Watergate).....	W. M. Christy, Esq....	5	1 0	236 T	27.92	148
„ (West Dean Park) ..	Mr. W. H. Smith	10	1 6	190	30.78	106
† „ (Chilgrove)	J. W. Woods, Esq.	5	0 6	284 T	30.72	...
d Compton [Petersfield]	Rev. H. M. Langdale...	5	1 0	255 T	30.50	139
Petworth Park	Mr. E. W. Pull.....	5	1 0	182	28.96	126
Cowfold (The Laurels)	Mr. S. Ford	5	1 6	373	21.81	...
d Tillington (River House).....	R. Stanley Clarke, Esq.	8	1 2	230 T	24.00	157
d Midhurst (St. Ann's)	Maj.-Gen. Paxton	8	1 8	120 T	27.90	117
d „ (Borden Wood).....	E. Lamb, Esq.	8	1 0	260 T	28.59	131
„ (Lynch Farm)	G. Eames, Esq.	5	0 6	160 T	32.37	...
d „ (Hollycombe)	J. C. Hawkshaw, Esq..	8	6 6	550	29.14	101
d Horsham (Denne Park).....	Mr. H. Harris	5	4 0	240 T	28.10	122
d Slinfold (Rapkyns)	W. Duncan Knight, Esq.	...	...	...	25.86	112
d Fernhurst (Blackdown House)...	F. Philipson Stow, Esq.	5	1 10	488 T	25.63	103
d Horsham (Selehurst).....	W. E. Hubbard, Esq..	5	1 0	305	27.25	128
„ (Manor House)	H. Padwick, Esq.	8	0 10	140 T	31.71	118
d „ (Wimblehurst)	Miss F. E. Allcard ...	5	1 0	200 T	27.02	152
Lynchmere (Shottermill)	Rev. C. Holland.....	5	4 0	400	28.70	...
Crawley	A. Thomson, Esq.	5	1 0	275	27.58	...
EAST SUSSEX.						
† Beachy Head	Miss Brodie Hall.....	5	1 0	515 T	15.13	...
East Dean (Hill Side)	E. N. Smith, Esq.	5	1 0	250 T	20.11	107

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	1901	
			ft. in.	feet.	inches.	
EAST SUSSEX—(con.)						
Eastbourne (Wilmington Square)	R. Sheward, Esq.	8	0 6	39	20·19	138
„ (Burlington Place) ...	Miss K. A. Orr	5	0 10	20	18·54	...
† „ (Osborne House) ...	Miss Hood	5	1 0	12 †	20·52	133
„ (Glenthorne)	Miss Woodd	8	1 6	86 †	20·16	139
„ (Arundel Road)	J. C. Wright, Esq.	5	0 4	70	21·32	...
† „ (Cemetery)	Miss Brodie Hall	5	4 0	160 †	18·88	...
„ (Staveley Cross) ...	J. Weston, Esq.	5	1 6	110 †	19·00	...
„†Jevington (Church Farm)	E.C.Stileman, Esq., C.E.	8	0 9	261 †	22·22	112
„†Litlington (Plough & Harrow Inn)	„ „ „	8	1 0	19 †	22·32	126
„†Willington (Hill Cottage)	„ „ „	8	1 0	599 †	21·36	114
„†Brighton (Old Steine)	A. Newsholme, Esq., MD	5	1 0	32 †	22·61	132
„ (W.W.Goldstone Botm)	J. Johnston, Esq., C.E.	8	0 7	140 †	19·17	119
„ („ Lewes Road) ...	„ „ „	8	3 6	88 †	21·40	121
„ („ Upper Portslade)	„ „ „	8	1 3	167 †	20·33	119
„ („ Patcham)	„ „ „	5	1 6	207 †	22·51	141
„ („ Race Hill) ...	„ „ „	8	1 0	466 †	22·73	121
Bexhill (The Grange)	Miss A. Scrivens	8	4 6	143 †	19·99	...
„ (Millfield)	„ „ „	8	1 0	126	18·69	140
St. Leonards (West Marina) ...	H. Colborne, Esq.	8	1 0	21 †	19·59	146
„ „ (Gensing Gardens) ..	„ „ „	8	1 0	179 †	19·36	161
„ „ (Branksome House)	Rev J D Macbride-Crofts	5	...	260	20·55	...
„ Polegate (Alciston)	R. Matthews, Esq.	5	1 4	172	24·44	127
„ Iford	Miss Robinson	5	1 2	56 †	21·18	...
„ Hailsham	Rev. F. Clyde Harvey..	5	1 0	105	22·61	110
„†Falmer	R. R. Verrall, Esq. ...	5	3 0	312 †	24·31	143
„ Lewes (Fairhall, Southover)	Miss Mathew	5	1 0	45	24·16	129
„† „ (Bedford Lodge)	Mrs. Kemp.	5	1 0	85 †	20·39	140
„† „ (Saxonbury)	A. Hillman, Esq.	5	1 0	75 †	22·53	139
Hastings (St. Helens Crescent) ..	The Meteor. Council ...	8	1 0	100	22·04	132
„ „ (Newgate Res.)	P. H. Palmer, Esq., CE	5	0 10	240	19·28	108
„† „ (High Beech Hollington)	Miss Lewis	5	1 0	320 †	20·26	127
„ „ (Guestling Rectory) ...	Rev. E. N. Bloomfield.	5	1 5	125 †	22·61	125
„ Hassocks (Pyecombe)	Mr. F. S. Mitchell	5	0 7	370	28·02	128
„ Clayton Rectory	Rev. T. H. R. Shand...	5	1 1	201 †	28·18	139
„ Hurstpierpoint (Danny Park) ...	Mr. J. Bunney	8	1 3	180	27·81	...
„ „ (The College) ...	A. Ffoulkes, Esq.	5	1 0	100 †	24·52	138
„ Winchelsea (The Friars)	Major R. C. Stileman..	5	1 2	115 †	17·78	112
„ Battle (Whatlington)	Miss H. Gripper	5	1 3	90 †	20·91	113
„ Playden (East Guldeford Lane).	G. Pile, Esq.	5	1 0	...	22·87	...
„ Burgess Hill (Silverdale Road) .	F. H. Phillips, Esq. ...	8	0 10	162 †	26·13	139
„ „ (Ote Hall)	Mrs. Woods	5	1 6	...	26 94	...
„ Heathfield (Summerlands)	Dr. A. Brown	5	1 0	500 †	24·47	139
„ „ (Tottingworth Park).	Mr. J. Masson	5	0 10	500 †	23·58	121
„ Uckfield (Sheffield Park) ...	Mr. W. T. Moore	5	1 0	...	24·04	130
„ Haywards Heath (Abbots Leigh)	Mr. R. Inglis	5	1 0	190	24·95	138
„ „ „	E.B.C.Walker, Esq. MD	5	1 1	281	23·86	...
„ Bodiam Station (Ewhurst Rec.)..	Rev. W. Marshall .....	...	...	150 ?	22·42	147
„ Buxted Park	Mr. H. C. Prinsep	8	1 0	94	23·82	128

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	1901	
			ft. in.	feet.	inches.	
EAST SUSSEX—(con.)						
Buxted (Strawberry Hall)	C. Rintoul, Esq.....	5	1 0	180	22·36	113
d† Maresfield (Forest Lodge).....	Capt. W. Noble	8	1 2	247 A	24·25	142
Cuckfield (Workhouse)	The Meteor. Council ...	...	1 0	389	21·69	125
d Lindfield (Wood Knoll)	L. Weedon, Esq.	5	1 0	188 A	26·28	156
Etchingham (Shoyswell Manor).....	Miss Seligman	4	1 9	250 T	21·24	...
d Nutley Vicarage	Rev. H. J. Peckham ...	5	1 0	386 T	25·81	158
d „ (The Hall)	Miss Cook	5	0 10	417	24·70	151
d „ (Chelwood Beacon)	H. Clarke Jervoise, Esq.	5	1 3	530 T	28·25	130
d Handcross (The Warren)	Leicester M Reed, Esq.	5	0 10	430 T	28·49	108
d† Crowborough	J. J. S. Driberg, Esq...	8	0 11	796 A	27·20	170
d Haywards Heath (Brook House).....	H. R. G. Clarke, Esq..	5	1 0	240	25·87	121
d Balcombe Place	Mr. Warren	8	1 3	289 T	26·17	142
Ticehurst	Mr. Jordan	5	4 9	423 A	22·69	114
d „ (Whiligh).....	Col. Courthope, C.B....	5	1 0	440	25·32	161
d Wadhurst (Lower Cusley Wood).....	F. Wilkin, Esq.....	5	1 0	416 A	24·83	128
Forest Row (Charlwood Farm) ..	A. Hoare, Esq.	5	1 0	250 T	25·47	...
Frant (Eridge Castle)	Mr. A. Wilson	5	2 0	400	30·73	100
d Crawley Down (The Grange) ..	T. H. W. Buckley, Esq.	5	0 9	430	24·19	127
Forest Row.....	The Meteor. Council ...	5	1 6	620	24·47	107
d Worth (South Hill)	P. E. Ravenshaw, Esq.	8	1 6	558 T	28·99	151
d East Grinstead Station	Mr. G. Mitchell	8	2 2	410 L	25·51	127
„ „ (Halsford Park).....	W. V. K. Stenning, Esq.	5	1 3	365 A	29·01	124
HAMPSHIRE.						
ISLE OF WIGHT.						
d Ventnor	J. S. Ineson, Esq.	10	2 0	70	24·11	144
„ (Consumption Hospital).....	The Royal Meteor. Soc.	5	1 0	75	25·35	140
d* Bonchurch (The Lilies).....	Mr. W. C. Moseley ...	5	1 0	300 T	25·28	151
d Sandown (Belgrave House)	W. E. Green, Esq.....	5	1 0	105	27·98	127
Brading Vicarage	Rev. E. Summers	5	1 6	50 ?	27·34	...
d Totland Bay (Wilmington)	J. Dover, Esq.	8	1 0	145 A	27·38	139
d Carisbrooke (Rainsgrove).....	Baldwin Latham Esq CE	5	1 0	180	25·43	136
d „ (Rowborough)	„ „ „ „	5	1 0	193	26·48	136
Ryde (New Lodge)	Capt. W. A. Dobie.....	5	1 1	147	26·77	...
„ „	Mr. T. C. Flower	12	9 0	35	30·26	108
d „ (Town Hall)	C. Mathew, Esq.	10	...	144 A	24·71	115
d Wootton (Fernhill)	C. G. Brodie, Esq.....	8	0 6	118 T	26·32	134
d† Osborne (Newbarn Cottage)	R. Scott, Esq.....	8	0 8	172 A	24·41	152
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d Bournemouth (Clarendon Court).....	G. Galpin, Esq.....	5	1 0	120 T	26·23	109
„ (South Cliff)	E. P. Philpots, Esq., M.D.	26·82	161
d „ (Wellington House).....	Messrs. Primavesi Bros	5	1 0	100 T	23·02	163
d† „ (Kempsey, Bath Rd.).....	E. L. M. Colville, Esq. ..	8	1 0	121 T	28·96	173
Milford-on-Sea	R. Bruce, Esq.	5	2 6	40	23·01	...
„ (Keyhaven)	A. C. G. Heygate, Esq.	5	1 0	10	25·40	...
d Christchurch (Winkton Lodge).....	Miss Lassell	5	0 9	34 A	21·63	137
d „ (Heron Court).....	Earl of Malmesbury ...	8	0 6	25	28·05	143
d Portsmouth (Fort Cumberland).....	P. Murch, Esq., C.E....	8	0 9	16 A	19·52	105

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1901	Days on which "01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
HAMPSHIRE—(con.)						
Portsmouth (Milton)	Dr. Fraser	5	1 0	18 π	24.30	130
d North Hayling	F. Padwick, Esq.	5	1 0	10	21.44	110
Ringwood (Burley Manor)	Rev. W. Esdaile	5	...	200 ?	27.92	117
Porchester (Noel Cottage)	Miss Montgomery Frost	5	1 0	...	23.69	...
Havant (Farlington)	H. R. Smith, Esq., C.E.	5	1 0	77 π	21.56	117
"	" " "	5	1 0	25 π	22.98	116
"	M " " "	5	1 0	25 π	23.06	...
d Emsworth (Redlands)	F. Jacobb Hood, Esq.	5	1 0	90 π	25.21	124
Southampton (Cadland)	H. L. Meyer, Esq.	8	4 6	52 π	27.94	...
d " (Netley)	Major R. H. Firth	8	0 5	37 π	31.53	122
d " (" Lake Ho.)	Col. Pennington	8	1 0	54 π	26.80	160
Cosham (Purbrook Grange)	F. A. Deverell, Esq.	8	0 9	100 ?	25.40	116
Lyndhurst (Fritham House)	F. E. Chapman, Esq.	5	1 0	410	26.20	144
Southamptn. (Ordnance Surv. Off.)	Col. R. C. Hellard, R.E	5	1 0	79 π	28.25	138
" (Thornhill Park)	Col. F. Willan	5	1 10	220 π	24.27	121
d " (Totton)	Mr. W. F. Harold	5	4 0	85	27.62	144
" (Anglesea Rd., Shirley)	A. Spooner, Esq.	5	1 1	83	25.58	...
" (Tatchbury Manor)	C. F. Wilson, Esq.	5	1 0	...	26.60	125
d Wickham (The Croft)	Rev Stanhope Rashleigh	5	0 11	80 ?	25.28	135
d† Botley (Botley Hill)	Lady Jenkyns	5	1 6	36 π	26.48	138
d† " (Beechcroft, Curdridge) ..	Miss Pasley	8	2 0	100	26.96	141
d " (Fairfield, ") ..	Rev. J. B. Wheeler ...	5	0 9	100	27.21	126
d Horndean (Blendworth Lodge) ..	Mrs. Long	8	0 10	217	30.29	134
" (St. Catherines)	Miss Barnes	8	0 8	417 π	28.48	134
d Fordingbridge (Oaklands)	Mrs. Westlake	8	1 0	135 π	27.07	116
d Hambledon (Rosecroft)	Mr. L. Dawes	5	2 6	200 π	30.30	145
Bishops Waltham (Swanmore House)	W. H. Myers, Esq., M.P.	8	1 0	390 π	26.09	119
d " " (Hill Place)	Major W. A. Daubeney.	8	0 9	260 π	26.95	147
" " (Northbrook Ho.)	H. W. Trinder, Esq.	5	1 0	136 π	25.53	120
d " " (Wintershill Hall)	J. S. Moss, Esq.	5	1 0	253 π	28.64	118
Droxford (Fir Hill)	Capt. Mackenzie Grieve	5	3 6	212 π	26.22	125
East Meon (Westbury House) ..	Col. Le Roy Lewis	5	2 6	296 π	28.69	119
d Ampfield Vicarage	Rev. Vere Awdry	5	3 0	230 π	27.04	136
† Otterbourne Hill Reservoir ...	M W. Matthews, Esq., CE	5	18 0	273 π	19.23	...
d† " (W. W., Shawford) ..	" " "	5	1 0	113 π	27.49	142
† " (" ") M	" " "	5	1 0	113 π	27.66	...
d Petersfield (Fairley)	A W Leachman, Esq. MD	5	0 7	202 π	31.75	139
d Twyford (Pumping Station)	Baldwin Latham Esq. CE	8	1 9	139 π	27.72	124
d West Dean	Rev. E. Wells	5	1 0	137 π	26.06	141
d East Liss (Newlands)	E. B. Falwasser, Esq. .	5	1 0	390 π	27.84	137
d Alresford (Ovington)	Rev. H. F. La M. Stowell	5	1 0	221 π	29.99	133
d West Liss (Hawkey)	Rev. G. A. Rideout ...	5	1 0	480	29.53	142
Greatham (King's Holt)	Mrs. Chase Parr	5	1 7	279 π	26.58	...
" (Manor House)	F. Coryton, Esq.	7	0 7	250	26.09	...
Horsebridge (Bossington)	W. H. Deverell, Esq. D.L.	8	0 9	92 π	27.00	155
d† Winchester (Harestock)	Col. W. S. Knight	5	1 0	302 π	28.76	138
d Liphook (Fowley)	E. A. Lee, Esq.	5	0 10	296 π	28.36	176
" (White Hill Chase) ..	Col. R. H. Maude	5	1 0	300 π	26.35	148
d Grayshott [Hindhead]	Mrs. Lyndon	5	1 0	660 π	26.36	160

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge			Depth of Rain.	Days on which ·01 or more fall
		Diameter	Height Above Ground	Height Above Sea Level	1901	
			ft. in.	feet.	inches.	
HAMPSHIRE—(con.)						
Hartley Mauditt Rectory	Rev. A. C. Hervey ...	5	1 1	540 T	25·65	...
Headley (Eveley)	Mr. T. Carter	5	1 3	295 T	28·11	124
D Swarraton Rectory	Rev. W. L. W. Eyre...	5	1 0	310 T	27·83	149
D† Alton (Ashdell)	F. Crowley, Esq.	8	3 6	433 T	27·85	127
„ (Eagles Nest)	„ „ „	5	52 4	505	17·45	...
„ (Shalden Manor)	J. G. Wood, Esq.	8	3 0	594	28·88	...
D Whitechurch (Long Parish)	C. Durnford, Esq. ....	...	...	...	24·16	137
Andover (The Knoll)	G. H. Westbury, Esq..	5	0 10	196 T	26·26	141
D Tidworth House [Ludgershall]..	Mr. G. A. Inglefield ...	5	1 8	357 T	27·47	158
Crondall (Warren Corner) <i>old g.</i>	F. Wilkin, Esq.	5	1 0	575 T	21·94	...
D „ „ „ <i>new g.</i>	„ „ „	5	1 0	575 T	22·13	133
Basingstoke (Hoddington Ho.)...	Rt. Hon. Lord Basing..	8	1 0	378 T	27·61	137
Oakley	Rev. F. G. Hume	5	1 6	400	24·78	130
D Basingstoke (Chapel Hill)	G. Stephens, Esq.	5	1 0	328 T	23·52	136
D† „ (Sherborne St. John)	Rev. D. W. Chute	5	1 2	267 T	23·43	144
D Winchfield (Elvetham Park) ...	Mr. G. B. Mitchison ...	8	1 0	217 T	24·25	169
Farnborough (The Grange)	Major Holt	5	1 0	232 T	23·54	157
D „ (The School)	Rev. G. C. Carter	5	1 6	257 T	21·08	135
D Hartley Wintney	Mr. W. G. Machin ...	5	1 2	222 T	21·91	157
„ Grange	F. Walkinshaw, Esq..	8	1 0	221 T	23·36	137
D Kingsclere	Dr. R. Maples	5	3 0	327 T	24·26	154
† Strathfield Turgiss	Mrs. Griffith	5	2 6	200 T	22·67	...
D Strathfieldsaye Gardens	Mr. A. G. Nichols	5	1 8	164	22·78	149
D Heckfield (Highfield Park)	F. B. Marson, Esq. ...	5	1 3	262	21·87	150
„ (Park Corner)	J. Martineau, Esq.	5	1 2	257	20·75	126
BERKS.						
D Sandhurst Lodge	Sir W. J. Farrer	8	2 9	263	23·72	120
D Wellington College	S. A. Saunder, Esq. ...	5	1 0	283 T	22·09	125
Mortimer (Wokefield Park)	A. Palmer, Esq.	5	4 0	180 T	20·70	132
Newbury (Sandleford Priory) ...	Mr. R. H. Butcher ...	8	2 0	381 T	24·16	130
„ (Greenham Lodge)	Mr. C. Dalby	8	1 9	300 T	24·03	...
D Aldermaston Wharf	J. T. Strange, Esq. ...	5	1 0	181 T	19·92	123
D Sunninghill (Lynwood)	G. Rodie Thompson, Esq.	5	1 0	266 T	22·09	126
D Ascot (Winkfield Manor)	C. A. Ferard, Esq.	5	1 0	240 T	22·73	146
Shinfield (Clares Green)	W. Haynes, Esq.	5	4 6	160 T	22·03	128
D Hungerford (Kintbury)	Sur.-Gen. Woolfryes, CB	5	1 1	297 T	24·56	185
D Wokingham (Staverton)	H. C. Mylne, Esq.	5	1 0	220 T	22·78	155
D Beenham House	H. Waring, Esq.	8	2 2	320	20·29	140
D Bracknell (Warfield)	Rev. B. C. Littlewood .	5	0 6	199 T	22·54	173
D Windsor (Royal Gardens)	Mr. T. Edwards	5	1 0	...	18·29	156
Reading (Englefield)	Mr. J. Coombes	5	1 1	...	22·51	135
D „ (Calcot Place)	General Swettenham...	5	1 4	176 T	21·32	157
D „ (Ellerslie)	Rev. A. Cheales	5	1 0	195 T	20·09	122
„ (London Road)	Mr. C. H. Jones	5	3 6	150 T	19·98	148
D „ (Forbury Gardens)	J. Bowen, Esq., C.E. ...	5	1 5	145 T	20·45	154
„ (Earley)	M. J. Sutton, Esq. ...	8	1 6	150 T	18·88	...
D Newbury (Welford Park) <i>old g.</i>	Mr. C. Ross	5	1 0	335 T	27·07	151

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	1901	
BERKS—(con.)						
D Newbury (Welford Park) <i>new g.</i>	Mr. C. Ross.....	5	1 0	341 T	27·71	151
D „ (Weston)	R. Osmond, Esq.	5	1 4	335 T	23·83	146
Frilsham House	Mr. W. E. Austen.....	5	1 8	370	20·69	119
Yattendon Court	Mr. R. Maker.....	5	1 0	450 T	21·97	106
D Lambourn (East Garston)	Mr. J. H. Spackman...	5	2 6	395 T	25·26	149
D Maidenhead (Stafferton Lodge)..	G. H. Palmer, Esq. ...	5	0 10	105 T	22·79	160
D „ (The Firs, Castle Hill)	J. W. Duncan, Esq. ...	5	1 0	...	23·70	133
„ (Isis Cottage)	O. King, Esq.....	5	1 0	...	22·63	143
D „ (Lowood)	Gen. Davies	8	1 0	167 T	23·70	134
D „ (Cookham Vic.) ...	Rev. R. W. Rogers ...	5	1 3	90 T	20·86	106
D Temple House [Marlow]	Mr. G. Groves.....	5	1 0	106	20·85	164
D Wantage (Letcombe Regis)	S. W. Silver, Esq.	5	0 9	...	23·60	133
„	W. Hanson, Esq., C.E.	5	1 0	304	24·31	108
Wallingford Castle	E. J. Hedges, Esq. ...	5	1 0	175 T	20·56	...
Little Wittenham	J. Latham, Esq.	5	2 0	187	21·30	115
D Long Wittenham (Manor Ho.)...	Admiral Clutterbuck...	12	1 0	170 T	23·96	129
„ „ (Lovegrove's Cott.)	Rev. F. C. Clutterbuck	5	1 0	165	22·88	128
Faringdon	Mr. C. Luker	5	1 0	333 T	23·40	...
Abingdon (Caldecott House) ...	Maj.-Genl. T. M. Bailie	5	1 4	...	20·34	...
D „ Union	Mr. J. Fray	5	1 0	196	20·39	137
„ (Sewage Works)	G. Winship, Esq., C.E.	5	0 6	169	19·61	...
„ (Draycott Moor)	C. W. Edmonds, Esq...	5	1 0	296	19·82	111

DIVISION III.—SOUTH MIDLAND COUNTIES.

HERTS.

D† Rickmansworth (Moor Park).....	Rt. Hon. Lord Ebury ..	5	2 0	340	21·63	148
D Elstree (Aldenham House)	Mr. E. Beckett	10	4 9	305	18·28	120
D Watford (Frogmore).....	A. P. Blathwayt, Esq.	5	1 0	182 T	19·57	132
„ (Colne Valley W.W.) ..	J. Hopkinson, Esq. ...	5	1 0	220	18·28	134
D „ (London Orphan Asylum)	Rev. Dr. Cockrem	5	1 0	230 T	20·67	137
„ (St. Alban's Road).....	H. Ruddle, Esq.....	5	1 0	...	21·04	...
Barnet (Gas Works)	J. Hopkinson, Esq. ...	8	0 9	212	20·42	123
D „ (Hadley).....	H. E. Freir, Esq.	5	0 11	340	21·85	113
D Northaw (Northacre).....	Rev. F. W. Poland ...	5	1 0	...	20·07	131
D Broxbourne (Stafford House) ...	G. J. Newbery, Esq....	5	1 0	118 T	18·94	135
D Hemel Hempstead (Apsley Mills)	Messrs. J. Dickinson & Co.	24	0 9	260	23·59	134
St. Albans (Bone Hill)	J. Hopkinson, Esq. ...	5	1 0	336 T	22·60	149
D „ (County Museum) ...	„ „ „	5	1 0	389 T	22·57	147
† „ (Gorhambury).....	Mr. Newberry.....	5	1 0	425 T	21·98	157
Hoddesden (Fielde's Weir)	W. B. Bryan, Esq., C.E.	...	...	95	17·53	...
D† Gt. Berkhamstead (Rose Cottage)	W. E. Milner, Esq. ...	5	1 0	334 T	24·07	143
† „ „ („ „) M	„ „ „	5	1 0	334 T	23·91	...
D† „ „ (Rosebank) ...	E. Mawley, Esq.	8	1 0	401 T	23·66	142
† „ „ („ „) M	„ „ „	8	1 0	401 T	23·48	...
D „ „ (Fairhill)	W. B. Hopkins, Esq...	5	1 0	548 T	22·63	138
D „ „ (Gt. Gaddesden)	Rev. W. Tyrwhitt Drake	8	1 0	426 T	24·25	145

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	1901	
			ft. in.	feet.	inches.	
HERTS—(con.)						
Gilston Park	Mr. W. Cooper	8	0 6	175 T	21·27	112
Hertford	W. B. Bryan, Esq., C.E.	8	6 0	125	17·53	120
„ (Bayfordbury)	W. C. Baker, Esq.	8	1 2	250	19·44	142
Tring (Wigginton)	Rev. H. J. E. Burrell..	5	1 0	710 A	24·93	132
„ (Pendley Manor)	Mrs. Williams	5	2 0	500 P	25·99	158
D „ (Elm House)	E. J. Le Quesne, Esq..	5	1 2	460	22·81	142
D „ (Offside Cottage, Cowroast)	R. Leah, Esq.	5	1 6	400	25·10	154
„ (Cowroast)	G. Thomas, Esq.	5	3 8	394 A	25·19	124
Harpenden (Rothamstead)	J. A. Voelcker, Esq. ...	5	0 9	420 T	21·93	143
„ „ „ „ „ „	„ „ „ „ „ „	8	0 9	420 T	21·09	129
D „ „ „ „ „ „	„ „ „ „ „ „	72X87	0 9	420 T	23·15	151
D Ware (Red House).....	J. Francis, Esq., C.E..	5	4 0	115 T	18·47	124
D „ (Fanham's Hall)	Miss V. M. Croft	8	1 0	235 T	20·50	132
D Welwyn (Bridge House)	B. W. Thomas, Esq., MD	5	6 6	...	22·14	151
D „ (Danesbury)	R. F. Sawford, Esq. ...	5	2 0	400	22·20	124
D „ (Datchworth Rectory) ..	Rev. A. Amos	5	1 0	386 T	20·49	119
D Much Hadham	T. W. Mott, Esq.	5	1 0	222 B	20·64	119
D Kensworth [Dunstable]	Miss Jones	5	1 6	630 B	23·36	133
D Bennington House.....	Rev. Dr. J. D. Parker..	5	1 0	408 A	19·53	165
D „ „ „ „ „ „	Miss C. Nihill	5	1 0	408	20·05	152
Buntingford (Hamels Park).....	Mr. E. Wallis	5	1 0	400 T	21·24	...
Hitchin (Preston)	R. de V. Pryor, Esq. ...	8	2 5	480 A	19·87	132
D† „ (Wratten).....	W. Lucas, Esq.	5	2 1	238 A	20·68	144
„ (The Maples)	W. Hill, Esq.	8	1 1	220 T	19·65	125
D „ (The Chilterns)	F. Ransom, Esq.	5	0 9	300 A	19·00	140
„ (High Down)	J. Pollard, Esq.	5	1 1	422 A	19·71	140
D Weston Park	M. R. Pryor, Esq.	5	0 8	470 T	20·24	142
D Buntingford (Throcking Rectory)	Rev. C. W. Harvey ...	5	1 0	484 T	19·73	134
D Baldock (High Street)	Dr. Langston Day.....	5	1 4	214 A	18·89	124
D Royston (Therfield Rectory).....	Rev. J. G. Hale	5	4 3	510 A	20·56	154
„ (Union Workhouse) ..	H. Warren, Esq., C.E.	5	1 0	217	20·92	130
„ (Melbourne Street).....	J. E. J. Phillips, Esq..	8	0 11	201 T	20·42	131
BUCKINGHAMSHIRE.						
D Eton (Tangier Island)	C. Sainty, Esq.	5	1 0	67 A	17·39	128
D Slough (Langley)	R. H. Major, Esq.	8	0 10	85 T	17·00	124
† „ (Upton)	R. Bentley, Esq.	8	3 0	80 A	15·50	...
D† „ „ „ „ „ „	„ „ „ „ „ „	5	2 0	78 A	16·87	138
Burnham (Fair View)	G. J. Williams, Esq. ...	5	3 0	162	19·37	107
Taplow Court	W. H. Grenfell, Esq. MP	8	1 0	217 T	21·47	...
Greenlands [Henley-on-Thames]	Hon. W. F. Smith, M.P.	8	1 3	116	20·78	155
D Hedsor	Rt. Hon. Lord Boston.	8	1 0	170 T	22·48	128
Marlow Mills	T. H. Wright, Esq. ...	8	2 0	105	21·80	130
D Wooburn (The Chestnuts)	F. W. C. Read, Esq. ...	5	3 0	...	23·00	129
High Wycombe	H. S. Wheeler, Esq. ...	8	0 9	253 A	19·35	...
D Chalfont St. Giles (The Stone)...	Col. R. W. Phipps.....	5	1 4	270 T	22·89	152
D Amersham (The Plantation).....	G. Weller, Esq.	8	1 0	464 A	25·56	157
„ (Rumseys)	G. M. H. Weller, Esq.	8	0 10	309 T	26·12	129

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	1901	
			ft. in.	feet.			inches.
BUCKINGHAMSHIRE—(con.)						
Great Missenden	Mr. W. Douglas	5	1 0	400	26·46	...
^D Wendover (Halton Gardens) ...	Mr. Sanders	5	1 10	400	23·91	112
Bulbourne [Tring]	G. Thomas, Esq.	5	2 3	401 $\frac{1}{2}$	24·05	162
Waddesdon Manor	Mr. J. Jaques.....	6	1 6	346 $\frac{1}{2}$	24·83	144
Mentmore	J. Smith, Esq.	5	1 6	...	21·03	...
^D Winslow (Botolph House)	R. Gray, Esq.....	5	1 0	414	19·21	139
^D † „ (Addington Manor) ...	Rt. Hon. Lord Addington	8	1 0	309 $\frac{1}{2}$	19·50	145
„ („ „) M	„ „ „ „ „	5	1 0	309 $\frac{1}{2}$	19·16	...
^D † Buckingham (Adstock).....	J. E. S. Weston, Esq...	5	0 9	352 $\frac{1}{2}$	19·60	137
„ (The Vicarage).....	Rev. P. P. Goldingham	5	1 2	279 $\frac{1}{2}$	21·89	...
^D Wolverton (St. George's Vic.)...	Rev. W. L. Harnett ...	5	1 0	270 $\frac{1}{2}$	19·71	150
^D „ (The School House)....	Mr. H. J. Hipsley ...	5	1 0	264	19·30	138
^D Newport Pagnell	F. Littleboy, Esq.....	5	2 0	196 $\frac{1}{2}$	19·79	122
Olney (Filgrave Rectory).....	Rev. J. Tarver	8	0 8	285	18·73	122
OXFORD.						
^D Caversham Yard	W. Fenton, Esq. ....	...	...	...	17·89	116
^D „ (Cane End House) ...	D. Vanderstegen Esq..	5	0 4	400 ?	22·25	128
^D Goring (Elmcroft).....	Major E. Gambier Parry	5	0 10	...	21·68	136
Henley-on-Thames (Greys)	late Rev. Canon Pinder	5	2 6	320 $\frac{1}{2}$	23·45	...
^D „ „ „ (Northfield Ho.)	J. W. Guy, Esq.	5	1 0	120	23·30	178
^D „ „ „ (Highmore Vic.)	Rev. F. R. Harnett ...	5	1 0	500 $\frac{1}{2}$	23·73	139
„ „ „ (Henley Park)....	M. J. Sutton, Esq. ...	5	0 8	410 $\frac{1}{2}$	19·02	...
^D „ „ „ (Assenton).....	Mr. J. Ratty	5	1 0	281	22·86	123
^D Dorchester ...	Col. Blunt	5	0 6	169 $\frac{1}{2}$	20·85	146
^D „ (Bishops Court)	T. Latham, Esq.	5	2 0	169	21·62	168
^D Abingdon (Culham)	Rev. F. C. Clutterbuck	5	1 0	200 $\frac{1}{2}$	22·11	136
^D „ („ College).....	J. S. Davis, Esq.	8	0 11	222 $\frac{1}{2}$	20·78	139
^D Watlington (Pyrton Manor).....	E. Hamersley, Esq....	5	1 0	321 $\frac{1}{2}$	23·19	143
^D Nuneham Park Gardens	Mr. C. E. Munday.....	8	3 0	280 $\frac{1}{2}$	25·50	136
Wheatfield Rectory	F. A. M. Spencer, Esq.	5	1 3	250	23·50	...
^D Toot Baldon (Potland)	D. Clinkard, Esq.	5	1 0	288	22·73	134
^D Waterstock.....	W. H. Ashhurst, Esq..	8	3 0	206 $\frac{1}{2}$	20·61	142
^D Holton Park	Hon. T. F. Fremantle..	5	1 0	290 $\frac{1}{2}$	20·04	123
^D † Oxford (Mag. Coll. Laboratory).	E. Chapman, Esq., M.P.	5	1 0	186 $\frac{1}{2}$	21·41	135
„ { „ „ „ „ } ..	„ „ „ „ „	5	33 11	223 $\frac{1}{2}$	18·80	...
^D „ { Radcliffe Observatory} ..	Dr. A. A. Rambaut, FRS	8	1 8	210 $\frac{1}{2}$	22·27	133
„ { „ „ „ „ } ..	„ „ „ „ „	11	2 4	210 $\frac{1}{2}$	23·18	125
„ { „ „ „ „ } ..	„ „ „ „ „	10	22 0	230 $\frac{1}{2}$	22·93	131
„ { „ „ „ „ } ..	„ „ „ „ „	10	112 0	320 $\frac{1}{2}$	16·29	118
^D „ (Norham Road).....	Rev. C. B. Mount	10	1 2	206 $\frac{1}{2}$	21·41	135
^D „ (Headington Hill)	Miss Davenport	5	0 10	354	22·88	124
^D „ (Elsfield)	H. Parsons, Esq.	5	1 0	330 $\frac{1}{2}$	22·75	143
Stanton St. John	Miss Thomson.....	8	1 0	340	23·93	150
„ „ „ (Woodperry) ..	J. Thomson, Esq.	6	1 0	399 $\frac{1}{2}$	23·52	150
Woodstock (Hampton Poyle Rec.)	Rev. S. T. Gwilliam ...	5	1 0	201 $\frac{1}{2}$	22·73	...
^D Chipping Norton (Lyneham).....	R. de M. Pratt, Esq....	5	1 7	351 $\frac{1}{2}$	24·12	129
„ „ (Kingham).....	E. Lockwood, Esq. ...	5	4 0	442	24·27	113

DIVISION III.—SOUTH MIDLAND COUNTIES—(continued.)

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1901	Days on which -01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
OXFORD—(con.)						
Chipping Norton (Kingham).....	T. Phipps, Esq.	5	4 0	442	24.93	...
" "	A. Pettipher, Esq.	5	1 6	700 †	24.61	...
D Bicester (Middleton Park)	Rt. Hon. Earl of Jersey	5	2 6	325 †	24.24	150
Steeple Aston (The Grange).....	E. W. Bradshaw, Esq.	8	1 0	400 †	20.64	144
D Swerford	Mr. W. Hall ..	5	1 0	500 †	24.10	168
D Banbury (Adderbury)	G. H. Norris, Esq.	5	1 1	338 †	23.29	169
D " (Bloxham Grove)	W. H. Warriner, Esq.	8	3 10	387 †	24.06	123
D " (Sibford Ferris)	J. Lamb, Esq.	5	1 0	575 †	23.05	120
D " (Bodicote)	J. F. Starkey, Esq. ...	8	1 3	388 †	23.32	155
D " (Ark House School) ...	A. J. Beale, Esq.	5	1 0	310	22.30	154
NORTHAMPTON.						
Brackley (East Hill)	late Sir G Bannerman, Bt.	5	1 0	425 †	24.22	175
D Grimsbury [Banbury] ..	W. E. Wood, Esq.	5	1 3	320 †	20.16	121
" "	A. B. Field, Esq.	8	2 6	320	20.88	...
D Towcester (Whittlebury)	W. S. Miller, Esq.	5	1 2	350	21.40	116
" (Easton Neston)	Mr. E. Slarke	8	1 0	340 †	22.54	155
D Blisworth (Grafton House)	A. Westley, Esq.	5	5 0	330	20.64	162
D "	T. W. Millner, Esq. ...	5	1 2	300 †	18.75	142
" (Milton House)	C. A. Markham, Esq. ...	...	...	...	22.03	137
D Lichborough Hall	E. Grant, Esq.	5	1 10	500	21.45	152
D Daventry (Fawsley)	The Lady Knightley ..	5	1 0	477 †	19.66	136
D Castle Ashby	R. G. Scriven, Esq. ...	5	1 0	263 †	22.44	173
Great Houghton	C. A. Markham, Esq. ...	...	...	...	22.86	128
Little Houghton .....	" " " .....	...	...	...	19.53	128
Northampton (Berry Wood).....	" " "	8	1 4	399	23.62	128
D " (St. George's Place) ..	" " "	5	1 0	276 †	20.11	134
D " (Kingsthorpe).....	S. Law, Esq.	5	1 0	280	21.61	143
D Althorp House	Miss Chowler	8	3 10	310 †	18.32	116
Great Brington	C. A. Markham, Esq. ...	...	...	...	19.42	116
D Sywell Hall	T. A. Dickson, Esq. ...	5	1 0	371 †	23.22	149
D Pitsford (Sedgebrook)	C. A. Markham, Esq. ...	5	1 0	311 †	21.50	130
" (")	M " " "	5	1 0	311 †	21.29	...
D Daventry (Waterloo).....	F. F. Rodhouse, Esq. ...	5	1 3	436 †	24.73	159
Earls Barton Vicarage	C. A. Markham, Esq. ...	5	1 4	280 †	21.66	162
D Mears Ashby	J. L. Fawssett, Esq. ...	5	6 5	339	21.67	174
D Wellingborough (Swanspool) ...	N. P. Sharman, Esq. ...	5	0 2	155	20.63	151
D " (Croyland Abbey)	E. Sharman, Esq.	5	0 5	...	19.70	151
Watford Court	C. A. Markham, Esq. ...	...	...	...	22.64	159
D Ravensthorpe (Coton Mill)	G. S. Eunson, Esq. ...	5	1 0	355	20.83	139
Scaldwell	Capt. R. Soames	5	1 0	404 †	20.89	...
D† Burton Latimer Rectory	Rev. W. B. Jacques ...	5	1 0	280	22.00	151
Hazelbeech	C. A. Markham, Esq. ...	...	...	...	23.22	141
D† Kettering (Sewage Works)	T. R. Smith, Esq., C.E.	8	1 0	199 †	21.89	149
D "	P. Wallis, Esq.	8	1 3	300	22.67	156
D " (Headlands).....	C. W. Lane, Esq.	5	1 0	288 †	21.63	159
D " (W.W., Cransley) ...	T. R. Smith, Esq., C.E.	8	0 6	275 †	20.26	134
Welford (Salford House)	J. Gee, Esq.	5	1 3	430 ?	21.84	177

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	1901	
NORTHAMPTON—(con.)						
Aldwinkle St. Peter	C. A. Markham, Esq. ....	...	ft. in	feet.	inches.	
Desborough .....	" " " " .....	...			
D Barnwell (Lilford Hall)	Mr. E. Wilson	5	1 0	...	21·45	122
Oundle	J. M. Siddons, Esq.	5	3 4	105 T	20·46	...
D Corby (Weldon Grange)	J. Rooke, Esq.	8	1 0	342 T	23·43	164
D Rockingham Castle	Mr. W. Nobes	5	4 4	300 L	26·06	118
Kingscliffe (Fineshade)	C. A. Markham, Esq. ....	...	...	...	23·64	...
D Stamford (Collyweston)	Baldwin Latham Esq. CE	5	1 0	315 T	22·53	133
D " (" House)	Miss Tasker	5	1 0	281 T	23·40	160
D " (Easton)	N. Day, Esq.	5	0 9	271 T	23·00	155
D " (St. Martin's)	Mr. T. Booth	5	6 0	107 T	23·83	146
HUNTS.						
D St. Neots (Waresley Park)	Lady C. Duncombe ...	5	0 11	190	19·11	123
D " (Great Paxton)	Rev. A. G. Cane	5	1 0	100 T	16·27	124
Offord D'Arcy	W. Priestley, Esq.	5	0 9	80	17·97	129
D Huntingdon (Brampton)	Miss May Bird	5	1 1	39 T	19·67	138
" (Hinchbrook Gardens)	Mr. J. Barson	10	6 0	74 T	19·11	...
Catworth	H. Warren, Esq., C.E. ....	...	...	...	18·92	147
Whittlesea Mere	A. Lunn, Esq., C.E. ...	8	1 6	...	16·66	...
D Yaxley (Norman Cross)	Mr. W. Allen	8	1 0	106 T	19·84	137
BEDFORD.						
D Luton (Pumping Station)	A. J. L. Evans, Esq., C.E.	5	1 0	343 T	22·20	159
D Shillington	Kilham Roberts, Esq.	5	1 0	182	20·25	155
D Ampthill (Higham Bury)	E. J. Jekyll, Esq.	5	1 0	310 T	20·69	156
" (Silsoe)	H. Trethewy, Esq.	5	1 0	214 T	22·60	123
" (Wrest Park)	Mr. G. Ford	5	1 1	...	18·98	...
D Woburn (Crawley Farm)	H. M. Freear, Esq.	8	1 0	292 T	20·06	146
" (Fruit Farm, Ridgmount)	R. Lewis Castle, Esq.	5	0 8	270 T	20·18	130
D Stotfold [Baldock]	Dr. J. E. de Lisle	5	1 0	220 T	19·54	143
Biggleswade (Old Warden)	Mr. W. C. Modral	8	1 2	...	19·11	...
D Potton (Wrestlingworth)	H. J. King, Esq.	5	1 0	119 T	18·79	130
Sandy (The Lodge)	Rt. Hon. Lord Peel ...	5	1 0	...	17·96	136
Bedford (Milton Ernest)	F. Newbery, Esq.	5	5 0	137 T	21·73	126
Turvey	Mr. J. W. Pascoe	5	1 6	...	17·97	...
D Sharnbrook (Colworth Gardens)	Mr. J. Hoad	5	2 0	250	19·64	115
CAMBRIDGE.						
D Odsey [Royston]	H. G. Fordham, Esq.	5	1 0	256 T	18·88	154
" ["]	" " " "	5	1 0	256 T	18·51	154
D Foxton House [Royston]	A. P. Humphry, Esq.	5	0 10	60 T	17·06	148
Abington Pigotts [Royston] ..	H. Warren, Esq., C.E.	8	0 8	130	18·70	144
Whittlesford (Sawston Vicarage) ..	Rev. C. E. Crump	5	1 0	86 T	19·66	136
D Harston	Mrs. C. M. Baldwin ...	5	0 8	47	18·37	145
Wimpole Hall	H. Warren, Esq., C.E.	5	1 0	141	17·79	111
Gamlingay (Old Woodbury) ...	" " " "	5	1 0	213	18·66	132
Carlton	G. H. Long, Esq.	5	1 0	340 T	20·73	113

DIVISION III.—SOUTH MIDLAND COUNTIES—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which 101 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1901	
			ft. in.	feet.	inches.	
CAMBRIDGE—(con.)						
D Carlton Hall	A. S. Nice, Esq.....	5	1 6	290	21·98	135
D Longstowe Rectory	Rev. J. P. Sharp	5	1 3	227 †	21·79	160
Trumpington	F. Parsons, Esq.	5	1 0	50	21·76	131
D „ (Gilmerton).....	S. Nutter, Esq.	8	0 9	...	19·81	144
Granchester Mill	H. Warren, Esq., C.E.	5	5 0	31 †	20·25	132
D Cambridge(FulbournePmpngSta)	W. W. Gray, Esq., C.E.	5	1 0	37 †	22·26	150
D „ (W.W.Cherryhinton).	„ „ „	5	1 0	35 †	20·57	124
„ (Botanic Gardens) ...	H. Warren, Esq., C.E.	8	0 9	40	22·86	113
D „ (Benet Place)	Rev. J. Wardale	5	1 0	42 †	19·51	132
D „ (Sidney Street)	W. E. Pain, Esq.	8	60 0	92 †	17·72	147
„ (Pinehurst)	C. F. Foster, Esq.	5	0 10	36	18·49	139
„ (Trinity College) ...	Registrar Gen.Returns	8	0 8	40	16·42	126
D† „ Observatory	Sir R. S. Ball, F.R.S..	5	1 0	84 †	16·83	116
D „ „	„ „ „	8	0 10	84 †	16·72	113
„ (Quy Hall)	H. Warren, Esq., C.E.	5	0 5	61	19·92	126
Newmarket (Cheveley Park) ...	„ „ „	8	1 6	350	18·83	114
Lolworth Rectory	„ „ „	5	0 11	...	18·07	108
Burwell	„ „ „	5	2 0	58	18·66	113
Conington Hall [St. Ives]	„ „ „	8	0 5	50	19·32	120
Cottenham (Bernard House).....	A. Bull, Esq.....	5	1 6	30 †	15·00	...
Soham	T. Everett, Esq.	5	1 0	25 †	16·22	97
D Stretham (Dimocks Cote)	Mr. H. Nightingale ...	5	13 7	...	15·71	98
D „ Engine	Mr. J. Housley	9	4 9	13 †	15·57	105
„ (Orchard House)	Mr. C. Wright, Junr....	8	5 0	42	17·31	121
D „ Ferry (Elford Farm)...	„ „ „	8	5 0	...	15·16	104
D Ely (The Palace)	Rev.G.BullockWebster	5	1 0	64 †	17·15	162
Mepal Engine.....	H. Warren, Esq., C.E.	5	20 6	25	12·18	...
Littleport (Highfield House) ...	H. G. Martin, Esq. ...	8	2 7	67 †	14·81	120
Chatteris (Aylesby House)	A. H. Ruston, Esq. ...	8	0 6	45 †	18·37	131
„ (The Priory)	H. F. Fryer, Esq.	5	0 7	45	17·78	...
„ (Horseway Lock)	A. Lunn, Esq., C.E. ...	8	15 0	...	11·86	96
Stanground Sluice.....	„ „ „	8	1 6	...	17·36	...
March	„ „ „	9	2 0	...	18·06	127
Upwell (Marmont Priory Lock)...	„ „ „	8	1 1	...	14·32	103
„ (Euximoor House)	H. West, jun., Esq. ...	5	0 8	15 †	19·91	124
D Thorney	A. J. Forrest, Esq. ...	8	3 6	9 †	17·46	117
D „ (Wryde House)	S. Egar, Esq.	5	1 0	7 †	17·26	128
D Wisbech (Bank House).....	A. Peckover, Esq.	8	0 8	6	18·36	139
D „ (Monica Road)	W. Climenson, Esq. ...	8	1 2	6	18·01	134
„ (Gorefield Vicarage)....	H. Warren, Esq., C.E.	5	1 1	6	16·43	105

DIVISION IV.—EASTERN COUNTIES.

ESSEX.

D Grays Sewage Works	A. C. James, Esq., C.E.	8	2 3	12 †	17·16	124
D Orsett	W. Powell, Esq.....	8	3 0	73 †	17·85	113
D Barking Outfall.....	M. Fitzmaurice, Esq. CE	8	0 9	6 †	17·53	128

DIVISION IV.—EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which "or more fell
		Diameter.	Height Above Ground.	Height Above Sea Level.	1901	
ESSEX—(con.)						
D Colchester	H. Goodyear, Esq., C.E.	8	17 0	82 T	14·11	105
D „ (Hill House, Lexden)	S. F. Hurnard, Esq. ...	5	1 0	90 T	16·48	120
„ { „ „ „)M	„ „ „ „ „	5	1 0	90 T	16·42	...
„ (Home Farm, „ „)	Mr. W. Bird	5	1 0	125 T	17·08	...
D Braintree (Bocking, Fennes).....	H. S. Tabor, Esq.	5	1 0	240 T	18·23	122
„ { „ Place).....	Mrs. Courtauld	8	2 3	212 A	19·03	100
Dunmow (Saling Grove)	Capt. J. Nicolls Harrison	8	0 10	290 A	18·22	...
Earls Colne (Chalkney House)....	H. F. Hills, Esq.	5	1 0	168 T	18·62	...
D Manningtree (Bradfield Lodge)..	G. Hempson, Esq.	5	1 0	113 T	18·57	114
† Harwich (Ramsey)	Mr. Knights	5	0 6	80 T	19·86	145
Halstead	The Royal Meteor. Soc.	5	1 0	144	19·41	130
D Dedham (Dalethorpe)	J. D. Tremlett, Esq....	5	0 11	54	17·23	124
Langham Rectory	Rev. T. S. Raffles	5	0 7	134	19·11	145
Great Maplestead	T. F. Miller, Esq.	5	0 9	250	19·54	...
D Saffron Walden (Debden Rec.)..	Rev. Canon Fisher	5	3 0	300	21·10	128
D „ „ (Newport)	Rev. G. F. Tamplin ...	5	3 6	208 T	20·99	137
D „ „	S. Leverett, Esq.	5	1 0	201 A	22·70	158
D „ „ (Audley End)..	Mr. J. Vert	5	1 0	155 T	21·40	160
SUFFOLK.						
D Felixstowe (West View)	S. Alexander, Esq.....	5	1 0	70	17·17	139
D† Erwarton Hall [Harwich]	J. A. Hempson, Esq...	8	0 6	75	18·87	130
D Ipswich (Museum).....	F. Woolnough, Esq. ...	8	1 0	74	19·68	142
D† „ (Woolverstone Park) ...	C. H. Berners, Esq. ...	8	1 0	100 T	16·47	134
D† „ (Orwell Park)	Mr. J. Wallis	8	1 0	60 A	18·83	146
†* „ (Belstead Hall)...new g.	A. Harwood, Esq.	8	1 6	120 T	18·36	156
D Alderton Rectory	Rev. C. G. Archer	8	2 2	...	18·11	126
D Sudbury (Friars Street)	E. Ransom, Esq.	5	1 7	93 T	19·88	172
D „ (Newton Road)	J. Alexander, Esq. ...	5	1 2	130 T	18·79	148
D† Ipswich (Clare Lodge)	E. R. Turner, Esq., C.E.	5	1 0	178 T	17·98	147
Hollesley Bay	The Meteor. Council...	8	1 0	38	16·77	126
Boyton Rectory	Rev. A. Washington...	8	2 2	30?	17·42	120
Lavenham Hall	H. Taylor, Esq.	5	2 3	220	17·83	...
D Woodbridge Abbey	Major R. J. Carthew...	8	1 2	48 T	17·23	153
D „ „	„ „ „	8	6 0	43	16·71	149
D „ „ (Melton Asylum) ...	Dr. S. G. Longworth...	8	1 4	112 A	15·73	132
D† Rendlesham Hall	Rt Hon Lrd. Rendlesham	5	1 0	88 A	17·30	111
D Haverhill (Great Thurlow)	A. Boa, Esq.	5	1 0	241 T	19·93	162
Clare (Stansfield)	J. Slater, Esq.	5	1 0	300 T	22·08	...
D „ (Hawkedon Rectory)	Rev. B. P. Oakes	5	3 4	305 A	18·75	151
Ash Bocking Vicarage.....old g.	Rev. M. B. Cowell	5	1 0	231 T	18·73	109
„ „ „ ..new g.	„ „ „ „	5	3 4	231 A	17·95	109
Parham (The High House)	H. R. Smith, Esq.....	5	1 0	93	17·07	...
D Aldborough (Aldringham Ho.)..	F. Garrett, Esq.....	8	4 5	50 B	17·96	144
D Great Glemham	Col. A. Bloomfield	5	0 10	80 T	19·27	103
Framlingham	E. A. Tyler, Esq.	8	1 0	...	22·45	...
D Little Saxham.....	Rev. H. I. Kilner	8	0 10	220	16·45	145

DIVISION IV.—EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1901	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
SUFFOLK—(con.)						
D Bury St. Edmunds (Westley) <i>new g</i>	R. Burrell, Esq.	5	1 0	226 ∇	18·21	131
D " " (Fornham St. Martin)	Rev. J. S. Pratt	5	1 0	100	16·43	126
" " (Hengrave)	Mr. W. Nichol	5	1 2	91	17·03	...
D Bacton	C. H. Woods, Esq. ...	5	1 6	186 ∇	17·92	139
Darsham (Sibton)	Col. Ward	5	2 6	94	18·91	139
D Ixworth (Walsham-le-Willows).	Miss M. C. Martineau..	5	1 0	...	16·77	131
Stradbroke Rectory	Rev. Canon Tate	5	1 3	172 ∇	16·87	...
Southwold	A. C. Herbert, Esq. ...	5	1 0	44 ∇	19·21	...
D " " " " " " " " " "	" " " " " " " " " "	8	1 0	44 ∇	19·57	145
D Ixworth (Barningham)	Miss A. K. Lingwood..	8	1 0	136	15·97	...
D Elveden Hall	Rt. Hon. Lord Iveagh..	5	1 0	130	18·17	174
Halesworth (Rumburgh)	Rev. W. Linton Wilson	5	3 0	148 ∇	20·97	...
D Beccles (Sotterley Hall)	Miles Barne, Esq.	5	0 11	...	20·68	143
D " (The Staith)	Clifford Smith, Esq. ...	5	4 2	...	21·22	170
Lowestoft (Belle Vue Park)	C. W. Edwards, Esq. ...	5	1 0	86 ∇	18·87	135
D " (The Clyffe, Corton)	R. J. Colman, Esq. ...	5	1 0	62 ∇	20·31	145
D " (Lound Pumping Station)	J. Hawksley, Esq.	8	1 0	74	19·10	131
Fritton [Yarmouth]	H. E. Buxton, Esq. ...	8	0 8	40	18·78	149
D Burgh Hall [Yarmouth]	H. P. Frederick, Esq. ...	8	0 6	45 ∇	19·41	163
D Burgh Castle Rectory	Rev. Canon Venables..	5	0 7	40	19·04	134
NORFOLK.						
D Pulham St. Mary	Miss I. M. Deedes	5	1 4	...	18·90	121
D Santon [Brandon]	A. W. Preston, Esq.	5	0 10	32	18·38	147
Ellingham [Beccles]	H. Youngman, Esq. ...	5	3 0	...	19·47	...
D† Geldeston ["]	E. T. Dowson, Esq. ...	5	1 0	38 ∇	20·07	162
" ["]	M " " " " " " " " " "	8	1 0	38 ∇	19·56	...
D Raveningham Hall [Beccles]	N. H. Bacon, Esq. ...	8	1 3	...	20·06	120
D Saxlingham Nethergate	Mrs. Pitt	8	1 2	...	19·75	147
D Wymondham	E. B. Pomeroy, Esq.	8	1 3	118 ∇	21·59	171
Watton	R. Martin, Esq.	5	1 0	166 ∇	20·97	158
D Hingham	G. K. Dobbs, Esq.	5	1 1	188	20·88	160
D Norwich (Dunston Hall)	A. W. Preston, Esq. ...	...	...	...	18·88	143
Denver	" " " " " " " " " "	8	1 0	80 ∇	19·07	...
D Stoke Ferry (Wereham)	G. Read, Esq.	5	2 3	66	20·63	132
D Wymondham (Hethersett)	A. W. Preston, Esq.	6	1 3	163	21·09	149
Keswick Old Hall	E. Knight, Esq.	5	1 0	...	21·78	162
Outwell Sluice	A. Lunn, Esq., C.E. ...	9	...	16	18·31	135
D Moulton	A. W. Preston, Esq.	4	...	...	22·29	135
Emneth	F. M. Bland, Esq.	6	1 0	6	18·82	111
Yarmouth (Sailors' Home)	The Meteor. Council ...	8	4 0	12	21·19	168
D " (Market Place) <i>new g</i> .	W. C. Steward, Esq.	5	1 0	...	20·29	169
D Norwich (Postwick Hall)	A. W. Preston, Esq.	5	1 1	5	19·10	154
D " (Carrow House)	Miss Colman	5	1 3	35 ∇	21·25	104
D† " (Brundall)	A. W. Preston, Esq.	5	1 0	66 ∇	21·06	175
D " (Essex Street)	F. Dix, Esq.	9	2 6	88 ∇	20·57	156
D " (Ipswich Road)	J. H. Willis, Esq.	5	1 0	110 ∇	21·03	180

DIVISION IV.—EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell
		Diameter	Height Above Ground	Height Above SeaLevel	1901	
NORFOLK—(con.)						
d*Norwich (Newmarket Road)	A. W. Preston, Esq....	8	1 2	89 ∇	22·00	193
d " (Heigham)	" " "	5	3 2	37 ∇	20·49	164
d Acle.....	" " "	5	0 6	51	18·79	150
d Swaffham	W. H. Plowright, Esq.	5	5 0	250 ∇	20·08	146
" (Homewood)	F. Everett, Esq.	5	2 6	210	21·74	132
d Honingham	A. W. Preston, Esq....	...	...	...	20·58	164
d Sprowston (Oak Lodge).....	T. Cozens Hardy, Esq.	5	1 0	101 ∇	19·96	159
East Dereham.....	G. H. Cooper, Esq. ...	8	3 0	161	21·86	125
d Yarmouth (Ormesby St. Michael)	J. Hawksley, Esq.....	8	1 0	21 ∇	20·32	176
Sporle (Petygards).....	WEG Wyrley-Birch Esq	5	0 9	...	19·92?	123
"	A. W. Preston, Esq....	...	...	...	20·74	167
d Swaffham (Dunham).....	" " "	5	1 1	320	20·57	170
Salhouse	" " "	8	1 0	50	18·66	...
Wiggenhall (Outlet Syphons)...	A. Lunn, Esq., C.E....	8	1 6	...	19·00	122
d TilneySt.Lawrence(Aylmer Hall)	W. B. Parsons, Esq....	8	1 2	9	18·20	147
d Bylaugh Park Gardens	Mr. G. Beeton	5	1 0	130 \uparrow	26·87	147
Reepham (Whitwell Vicarage)..	W. H. Freeman, Esq....	8	1 2	120	24·85	176
Cawston	Rev. T. H. Marsh	5	1 0	135 \uparrow	22·44	165
Aylsham (Woodgate)	B. J. W. Purdy, Esq..	5	1 0	100 \uparrow	22·60	149
d North Walsham (Dilham)	A. W. Preston, Esq....	5	0 8	...	21·26	207
d " " (Worstead) ...	R. Cross, Esq.	8	1 0	...	22·31	147
d " " (E.RustonGrange)	W. S. Horn, Esq.	5	1 0	20 \uparrow	19·20	153
d Hillington School	Rev. H. Ffolkes.....	5	3 6	93 ∇	24·42	187
Fakenham (Pensthorpe)	W. Hamond, Esq.....	5	2 6	153	19·74	...
West Rudham	W. S. Freuer, Esq. ...	5	0 6	...	24·82	...
Cromer (Northrepps Hall)	Mrs. R. Gurney.....	5	0 4	200	21·87	162
d Holt (The Yuccas).....	Mr. T. A. Craske	5	1 3	210	24·54	166
d " (Field Dalling)	A. W. Preston, Esq....	5	1 3	158 \uparrow	20·97	150
d Blakeney	C. I. Temple Lynes, Esq.	5	1 3	29	20·79	173

DIVISION V.—SOUTH WESTERN COUNTIES.

WILTS.

Landford (Northlands)	Mrs. Wigram	5	1 10	167 ∇	26·66	145
d Donhead St. Mary (Charlton Ho.)	Col. G. Best	5	0 7	514	32·30	161
d Broadchalke Vicarage	Rev. E. J. Satterthwaite	5	1 0	300 \uparrow	30·29	144
d† Alderbury	Rev. Canon Hutchings.	5	0 8	263 ∇	24·99	137
Tisbury (The Academy)	J. Bristol, Esq.	5	0 9	380 \uparrow	27·81	...
d East Knoyle	E. H. Miles, Esq.	5	1 3	590 \uparrow	28·50	133
d Salisbury (Brown Street)	T. H. Baker, Esq.	5	1 0	155	27·98	161
d " (De Vaux Lodge)	H. Peniston, Esq.	5	1 0	150	25·88	133
† " (Wilton House)	T. Challis, Esq.	8	0 5	180 ∇	29·43	151
Winterslow (Roche Court)	T. T. S. Metcalfe, Esq.	5	1 0	459 \uparrow	28·03	168
" " " " new g. " " "	" " " " " " "	5	1 0	459 \uparrow	25·80	168
† Mere (Dews House)	Miss E. B. Rutter	5	1 7	384	28·40	...
† " Vicarage	Rev. J. A. Lloyd	5	3 0	370	28·88	...

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1901	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
WILTS—(con.)						
d Mere (Charnage)	A. R. White, Esq.	5	1 0	426 T	27·31	147
† Maiden Bradley	Duke of Somerset	8	1 6	626 T	32·17	159
d† Warminster (Rye Hill)	S. E. Jefferys, Esq.	8	2 0	466 T	30·40	183
Salisbury Plain (Chitterne House)	R. Hayward, Esq.	11	4 0	319 T	22·33	137
d Amesbury (Shrewton)	F. J. Wardale, Esq.	5	0 9	320	27·16	133
d Warminster (Downside)	Mrs. Stent	8	2 3	393	27·10	157
d Ludgershall (Conholt Park)	G. Knowles, Esq.	5	1 0	750 T	27·66	170
d „ (Collingbourne Kingston)	Baldwin Latham Esq CE	5	1 0	470 T	27·86	131
d Market Lavington	Mr. J. H. Selfe	5	3 0	300	24·03	163
d Trowbridge (Water Works, Biss)	W. W. Gray, Esq., C.E.	5	1 0	311	28·70	130
„ (Wingfield)	Mrs. Bayfield Clark ...	5	1 0	...	25·02	144
d „ (Rood Ashton)	Mr. W. Strugnell	8	1 6	250	24·28	153
d Bradford (The Chantry)	Dr. Beddoe, F.R.S.	5	0 9	125	25·22	147
d „ (Winsley Manor)	E. W. Knatchbull, Esq.	5	0 6	400	24·06	155
d „ (Holt)	A. J. Beaven, Esq.	5	2 0	120	27·05	178
Devizes (Wilts Co. Asylum)	Dr. Ireland Bowes	8	2 3	385 T	23·03	133
d Buttermere Rectory	Rev. W. E. Burkitt ...	5	3 0	847	27·40	144
d Shalbourne (West Court)	Mr. T. Barns	5	1 0	640 ?	27·56	153
d Bishop's Cannings	Rev. C. W. Hony	5	1 0	446 T	25·68	159
d Devizes (Shepherd's Shore)	Mr. J. Carter	5	1 6	555 T	27·09	139
d Chippenham (Lacock)	Mr. W. Brinkworth ...	5	0 11	202 T	26·49	156
d „ (Langley Burrell)	Rev. A. B. Mynors ...	8	1 2	...	28·84	142
d „ (Kington Langley)	H. H. Palaiet, Esq.	5	1 0	270	26·47	173
Marlborough (Preshute House)	Mr. G. E. Mew	5	0 9	...	27·58	...
„	The Royal Meteor. Soc.	5	1 0	450	28·04	162
d „ (Mildenhall)	Rev. G. Soames	5	1 0	456	29·39	146
d Calne (High Street)	Mr. H. Wilkins	5	3 6	244 T	26·41	135
d „ (Compton Bassett)	Capt. J. Heneage	8	1 0	385 T	27·49	156
Yatesbury	Rev. E. D. Guillebaud.	5	0 9	564 T	29·00	...
Ramsbury (The Rookery)	F. C. Batson, Esq.	5	1 0	398 T	25·88	156
d† Swindon, New	H. J. Southwell, Esq. ...	8	0 11	378	22·78	156
Malmesbury (Charlton)	Lady Victoria Howard	8	0 6	...	27·48	124
Highworth (Hannington Hall)	A. D. Hussey-Freke, Esq	5	1 0	375	21·83	149
DORSET.						
Portland Bill	The Meteor. Council ...	...	...	...	23·71	157
d Portland (The Observatory)	Rev. W. R. M. Waugh	5	1 6	10	24·02	142
Weymouth (Wyke Regis)	Mrs. Pretor	5	0 9	158 B	27·06	138
„ (The Nothe)	Dorset Field Club	5	1 0	79	24·02	135
Swanage (Royal Victoria Hotel)	H. B. Vincent, Esq.	5	1 11	26 T	25·66	135
„	the late Rev. H. Pix ...	5	2 0	60	27·35	137
East Fleet (Fleet House)	Dorset Field Club	5	1 1	48	26·65	135
Chickerell (Montevideo)	Mrs. N. M. Richardson	5	1 0	150	26·80	155
„ Rectory	Dorset Field Club .....	...	...	...	24·77	...
d West Lulworth Vicarage	Rev. W. Percy Schuster	5	1 0	128 T	30·74	132
d Abbotsbury (New Barn)	Mr. J. C. P. White ...	5	1 6	111 T	27·94	152
d Winterbourne Steepleton	H. Stilwell, Esq.	8	1 0	316 T	34·48	155
d Wareham (Castle Gardens)	S. W. Bennett, Esq.	5	2 6	18	27·85	150

STATIONS.	AUTHORITIES.	Diameter	Rain Gauge.		Depth of Rain. 1901 inches.	Days on which ·01 or more fell
			Height Above Ground ft. in.	Height Above Sea Level feet.		
DORSET—(con.)						
D Wareham (Binnegar Hall)	O. C. Farrer, Esq.....	5	1 0	65	29·68	146
D Winterbourne Herringstone.....	R. B. White, Esq. ...	5	3 1	200	33·36	137
D Dorchester Water Works.....	G. J. Hunt, Esq.	8	1 2	315 T	30·53	148
D " (Wollaston House) ..	Capt. J. E. Acland.....	5	1 0	200 T	30·78	152
D Poole (Parkstone)	R. H. Barnes, Esq. ...	5	0 11	198 T	28·39	166
D " " new g	J. Spurr, Esq. " ...	5	1 0	198 T	29·12	168
D Lyme Regis (Colway Cottage)....	J. Spurr, Esq.	5	1 0	100 ?	31·53	166
Bridport (Coneygar)	H. Gordon, Esq., C.E.	5	1 0	110 T	34·97	130
Piddletown	Dorset Field Club	5	1 0	190	32·65	123
Bere Regis Vicarage.....	" " " "	5	1 0	160	29·14	144
" " (Bloxworth Rectory).	Rev O. P. Cambridge FRS	5	1 3	205 T	30·17	137
D " " (" House)....	Mr. F. G. A. Lane.....	5	1 6	118	29·59	121
D Maiden Newton (Cattistock Lodge)	E. S. Wilmot-Sitwell Esq	5	1 0	350	39·23	151
D Sturminster Marshall (Baillie Ho.)	Rev. J. Cross	5	0 6	85	28·24	147
Wimborne (Codford).....	G. H. Batterbury, Esq. MD	5	1 0	69 T	30·79	173
D Beaminster Vicarage.....	Rev. A. A. Leonard ...	5	1 0	216 T	36·96	150
" (Fleet Street)	J. Andrews, Jun., Esq.	5	1 0	200 T	35·80	147
D Blandford (Whatcombe)	late J Mansel-Pleydell Esq	5	0 10	270 T	31·14	159
D Broadwindsor Vicarage.....	Rev. G. C. Hutchings..	5	0 7	540 T	36·77	144
D " (Blackdown House)	C. E. M. Pinney, Esq..	5	0 9	515	39·33	167
D Winterbourne Houghton	Rev. H. H. T. Bassett.	8	0 6	371	31·10	133
D Cerne Abbas (Melbury).....	Mr. R. Rintoul	5	1 6	500	35·16	119
Chedington Court	Mr. H. Birkinshaw ...	5	1 0	605	36·78	138
n* Wimborne Minster (Chalbury)...	Rev. G. H. Billington..	5	2 0	338 T	28·35	142
D " " (Horton) ...	Rev. G. Wellington ...	5	1 0	135 T	29·97	142
D Verwood Manor	W. R. Fryer, Esq.....	5	3 0	180	28·71	144
D Holwell (Westrow)	Mr. G. Coffin	5	1 0	252	32·04	131
D Iwerne Courtney (Shroton)	Admiral Stopford	5	1 2	200 T	28·60	139
D Sturminster Newton (Riverside).	A. R. Hallett, Esq. ...	5	5 0	200	27·61	123
D Sherborne (Coombe Farm)	S. Creed, Esq.	5	3 0	373 T	33·31	158
D " (Castle).....	Mr. T. Turton	5	1 0	195	29·04	168
Shaftesbury	Royal Meteor. Soc. ...	5	1 0	722	28·37	168
D Buckhorn Weston.....	Rev. W. Hughes D'Aeth	5	1 0	285	26·41	158
D Gillingham	S. H. Stephens, Esq....	5	1 2	244 T	26·99	156
DEVON.						
D Salcombe (Sandhills).....	W. H. Pike, Esq.	5	1 0	118	30·06	144
D " (Shadycombe)	Mr. T. Langmead	8	1 2	20	37·14	135
South Huish	W. Balkwill, Esq.....	5	5 6	68 T	33·05	...
D Revelstoke (Membland)	Mr. G. Baker.....	5	1 0	180 T	34·44	142
Dartmouth (Redlap House)	L. Karslake, Esq.	5	1 1	220 T	31·47	179
D Plymstock (Thorncot, Hooe) ...	J. Little, Esq.	5	2 0	113 T	37·34	167
D Plymouth (The Hoe).....	H. V. Prigg, Esq., C.E.	8	0 10	117 T	32·85	167
D " (Freedom Field)	" " " "	8	0 10	208 T	35·77	171
" (Drake's Reservoir)... ..	F. Howarth, Esq., C.E.	5	1 0	149 T	33·84	158
n* Devonport (Rowdens Res.)	H. Francis, Esq., C.E.	5	1 0	201 T	31·17	167
D Ivybridge (Langham Hill) new g.	Miss Glanville	5	1 0	400 T	45·64	168
D " (Blackadon Asylum)..	H. V. Prigg, Esq., C.E.	5	1 0	607	50·49	188

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1901	Days on which "01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level		
			ft. in.	feet.	inches.	
DEVON—(con.)						
Plympton (Hemerdon) ... <i>garden</i>	Rev. G. L. Woolcombe	5	4 0	360	39·21	...
" (") ... <i>tennis court</i>	" " "	5	1 0	365	39·59	...
d South Brent (Great Aish).....	Miss Kingwell	5	1 0	500 †	54·39	178
Bere Ferrers	Rev. F. T. W. Wintle.	5	1 0	100	43·71	176
Bickley (Roborough Reservoir)..	F. Howarth, Esq., C.E.	5	1 0	550 †	37·81	178
Torquay (Princess Gardens) ...	F. March, Esq. ....	...	1 0	..	32·49	154
d " (Cary Green)	" " "	5	1 0	12	32·82	153
† Lee Moor Clay Works	T. Martin, Esq.	8	1 6	950 †	51·63	...
Buckfastleigh (Bossell Park) ...	J. Hamlyn, Esq.	12	1 0	250	50·90	158
d Yelverton	Dr. H. J. S. Liddell ...	5	7 0	627 †	48·59	150
Sheepstor	F. Howarth, Esq., C.E.	5	1 0	1024 †	52·08	...
† " (Red Stone)	" " "	5	1 0	760 †	46·68	189
" (Burrator)	" " "	5	1 0	755	44·25	191
† " (Head Weir).....	" " "	5	1 0	720 †	44·14	191
d † Dartmoor (Lowery)	H. Francis, Esq., C.E.	5	1 0	890 †	46·50	154
† " (Deancombe Farm) ...	F. Howarth, Esq., C.E.	5	1 0	830 †	49·89	157
† " (Leather Tor Farm)...	" " "	5	1 0	910 †	46·86	178
" (Nuns Cross)	" " "	5	1 0	1200 †	50·34	...
" (Cramber Tor) M	" " "	5	1 0	1435 †	46·15	...
d Kingskerswell (South Hill)	E. A. Foster, Esq. ...	5	1 0	270 †	33·51	169
d Abbotskerswell (Court Grange)..	Mrs. Marcus Hare	5	1 0	150 B	38·30	133
d Ashburton (Holne Vic.)	Rev. J. Gill	5	1 6	650 B	54·94	188
d † " (Druid House).....	Fabyan Amery, Esq....	5	1 0	572 †	44·93	173
Kingsteignton (Teignbridge Ho.)	F. H. Plumptre, Esq....	5	1 2	27 †	32·99	135
Teignmouth (Bitton Street)	W. C. Lake, Esq., M.D.	5	1 0	70	32·54	164
d " (Woodlands)	W. B. Harris, Esq. ...	8	1 2	98	30·33	146
" (Bonnicliff)	Capt. J. Horner	5	1 0	260 †	30·39	180
d Tavistock (Statsford, Whitchurch)	E. E. Glyde, Esq.	5	1 0	594 †	45·59	183
d † " (Public Library)	Mr. J. Quick	8	20 0	283 †	41·52	173
Princetown	The Royal Meteor. Soc.	5	...	...	67·79	155
Dartmoor (Cowsic Valley).....	H. Francis, Esq., C.E.	8	1 6	1352 †	59·90	...
d Chudleigh (Ideford) ...	Rev. G. J. Ford	4	1 0	300 †	33·00	176
d Bovey Tracey (Colehays)	Mr. E. E. Underdown.	5	1 3	415 †	43·15	163
† Milton Abbot (Endsleigh).....	Mr. F. Yole	5	1 0	180 †	42·78	...
d Dawlish (Mamhead Rect.)	Rev. W. C. Plenderleath	5	1 0	467 †	35·79	172
d Starcross (Cofton Vicarage)	Rev. C. F. Benthall ...	5	2 0	60	26·73	133
d Exmouth (Nidderdale)	Mrs. Herbert Stewart..	5	1 0	51	26·83	148
d Chudleigh (Tottiford)	W. Ingham, Esq., C.E.	8	4 0	718 †	38·07	173
" (Trusham)	Rev. O. H. Cary	5	0 6	322 †	34·24	163
d Budleigh Salterton (Syon House)	H. W. Drummond, Esq.	5	1 0	...	29·21	149
d " " (Raven Shaw)	Col. W. Carlile	6	1 0	50 B	29·74	124
d " " (Bicton).....	Mr. J. Mayne	5	1 0	90	28·88	146
d Kenton (Southtown House)	Major Courtenay	8	2 6	56 †	32·78	168
Coryton	Mr. T. M. Symons	5	2 0	285	39·20	157
d Polapit Tamar [Launceston] ...	R. C. Coode, Esq.	5	2 9	315 †	34·70	176
d Yeolmbridge	Mrs. Boyd-Wallis	5	4 10	260 †	36·80	149
d Christow (W. W., Kennick).....	W. Ingham, Esq., C.E.	8	1 0	842 †	39·02	184
" (Laployd)	" " "	5	1 0	1030 †	31·99	...

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1901	Days on which ".01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level		
			ft. in.	feet.	inches.	
DEVON—(con.)						
Christow (Blackingstone)	W. Ingham, Esq., C.E.	5	1 0	1090 N	27·71	...
†Sidmouth (Sidmount)	The Royal Meteor. Soc.	5	1 0	149 N	30·30	161
n*Rousdon [Lyme Regis]	The Hon. Lady Peek...	5	1 0	516 N	32·18	157
* " " " " " M	" " " " "	3	1 0	516 N	31·08	...
n†Cleveland's [Lyme Regis]	Mr. C. W. Bloye	5	1 11	465 N	32·71	153
d Exeter (Heavitree)	R. H. Cecil Baker, Esq.	8	1 2	175 B	31·19	138
d " (Devon & Exet. Inst.) ...	A. R. Allinson, Esq. ...	5	13 7	155 N	30·54	175
n† " (Manston Terrace)	Miss Dymond	5	1 0	166 N	29·50	148
d " (Elmfield)	W.B.Heberden, Esq.CB	5	4 0	100	26·98	152
n†Okehampton (Oaklands)	General Holley	5	1 0	521 T	39·50	152
Exeter (Brampford Speke Station)	Mr. A. Tucker	5	1 0	83	28·47	134
d Cullompton	T. Turner, Esq.	5	1 0	202 N	31·06	164
d Petrockstow (Heanton Satchville)	Mr. A. Eames	5	1 0	332 T	31·49	160
d Tiverton (Broomhill)	Mrs. Dickinson	5	1 0	380	32·45	158
d " (St. Peter Street)	Miss Gill	5	6 0	270	31·75	179
d Otterford (Otterhead)	R. Lewis Lloyd, Esq ..	5	1 0	735 N	36·88	170
d Torrington (Enfield)	G. M. Doe, Esq.....	5	1 0	336 N	33·09	180
d " (Stevenstone)	Mr. W. Gillies	5	1 0	420	36·53	182
d " (Little Silver).....	Mr. P. H. Griffin	5	1 0	395	34·09	173
d Parkham (Melbury Moor).....	Baldwin Latham Esq CE	5	1 0	623	43·58	218
d " (" Reservoir)... ..	" " " " "	5	1 0	516 N	44·81	219
d Romansleigh Rectory	Rev. J. H. Thompson..	5	1 0	590 T	31·58	194
d Bampton (Huntsham)	H. Acland Troyte, Esq..	8	1 0	640	42·40	161
d " (Wonham)	Mrs. J. R. Holland ...	5	1 0	530	35·02	175
d Hartland Abbey.....	Mr. G. Sleep	5	1 6	222 T	34·51	146
Alverdiscott (The Firs).....	F. A. Trevan, Esq. ...	5	2 6	330 T	35·26	165
d Abbotsham (Riccard's Down) ...	Mrs. Hibbert	5	1 0	87 N	35·66	180
d South Molton (East Street)	N.C.Hatherly, Esq.M.D	5	1 0	430 B	37·25	178
d " " (Castle Hill School)	Mr. W. H. Reeve	8	1 0	363	37·23	206
" " " " " Gardens)	Mr. W. H. Pearson ...	...	3 6	317	37·97	178
d Bideford (Gammaton W. W.)... ..	Baldwin Latham Esq CE	5	1 0	335 N	35·76	164
*† " (Horwood)	Rev. J. Dene	5	1 0	288 T	28·89	173
" " (Northam, St. Helen's)	Miss L. Bowles	5	0 10	67 T	32·26	188
d*† " (")	Rev. Preb. Churchward	5	1 0	173 N	31·67	169
d Westward Ho (Beacon Lights)....	J. W. North, Esq.	5	1 0	50 ?	30·03	181
Instow.....	Miss Lock	5	1 0	100 B	27·87	147
d Barnstaple Athenæum	T. Wainwright, Esq....	8	1 0	25 T	33·40	173
Braunton (Preston House)	Miss Durham .....	...	...	...	29·04	148
d Barnstaple (Arlington Court) ...	Lady Chichester.....	5	1 0	613 B	47·91	168
" " " " ") ...	" " " " "	5	1 0	613 B	49·43	168
Challacombe	T. Wainwright, Esq....	...	...	...	56·58	185
d Woolacombe	E. Henshall, Esq., C.E.	5	1 0	60 N	26·64	173
Parracombe	Rev. J. F. Chanter ...	5	3 0	795 T	41·92	164
Ilfracombe Hotel	The Royal Meteor. Soc.	5	1 0	24	36·10	175
d Martinhoe Rectory.....	Rev. R. W. Oldham ...	5	2 3	808	38·49	178
†Lynton (Lee Abbey)	C. F. Bailey, Esq.	5	0 6	320 T	32·06	...
d " (Gwynallt)	A. L. Ford, Esq.	8	0 8	284 T	38·03	161
d Lynmouth (Rock House)	T.H.Mead-Briggs, Esq.	5	0 11	22	34·64	170

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	1901	
			ft. in.	feet.	inches.	
CORNWALL.						
Mullion	R. Thomas, Esq.	5	1 0	200	27·75	134
D St. Keverne (Rosuick Cottage)...	G. W. Jevons, Esq. ...	5	1 0	250 T	36·48	178
D Penzance (Morrabs)	C. H. Benn, Esq.	5	1 0	55	34·94	207
„ (Penlee)	J. Branwell, Esq.	5	1 0	71 T	36·41	197
„ (St. Clare)	Rev. Preben. Hedgeland	5	1 0	213 T	35·46	210
Marazion	T. W. Field, Esq.	5	2 0	30 P	32·31	167
D Falmouth (New Observatory) ...	E. Kitto, Esq.	11	2 0	169 T	37·48	182
„ („ „)	„ „ „ „ „ „ „ „ „ „	8	2 0	169 T	36·34	185
„ (Gyllyngvase)	A. Wilson, Esq.	8	1 0	50	27·34	180
„ (St. Mawes, Place) ...	J. S. Spry, Esq.	5	1 0	...	29·60	...
D „ (Carclew)	Mr. J. Simmons	5	0 9	...	36·40	159
D St. Ives (Phillack Rectory)	Rev. Canon Hockin ...	5	1 0	70 A	27·77	170
„ „ „ „ „ „ „ „ „ „	Gavin Hope, Esq.	5	4 0	60 A	31·11	157
D Redruth (Trevince)	E. B. Beauchamp, Esq.	8	0 8	240 T	39·02	197
D „ (Tolvean)	A. Lanyon, Esq.	5	0 9	365	38·42	171
„ (Trewirgie)	A. P. Jenkin, Esq.	5	1 0	412 A	36·89	...
D „ (Tehidy Park)	Mr. A. Mitchell	8	1 1	287 A	36·62	183
Truro (Killiow)	J. C. Daubuz, Esq.	5	1 0	230 T	35·37	171
D† „ (Royal Institution)	G. Penrose, Esq.	5	43 0	83 A	35·41	199
„ (W.W., Lower Tregurrow)	Mr. W. J. Lean	5	9 0	71 A	36·37	179
D „ (Agar Villa)	Mr. C. Barrett	5	3 9	50 B	38·52	182
D Probus (Lamellyn)	H. Tresawna, Esq.	5	0 6	240	34·10	143
St. Agnes	C. Twite, Esq.	5	5 6	315 B	33·34	150
D Fowey (Menabilly)	Mr. W. H. Bennett ...	5	1 0	150	36·74	141
D West Looe (Polperro)	H. E. Butler, Esq.	5	1 0	120	34·85	171
D†*St Austell (Trevarna)	W. M. Coode, Esq. ...	5	0 6	300 A	39·19	197
Par Station (Penellick)	W. E. Geach, Esq.	5	0 9	240 T	27·86	...
D Empacombe [Devonport]	J. Sandercock, Esq. ...	5	0 6	20 T	32·20	168
D Cremyll [„ „]	Mr. W. Wonnacott ...	5	20 0	25	31·86	182
D St. Germans (Trehill)	Capt. J. D. A. Roberts.	5	2 0	200 B	28·73	157
D West Looe (Morval)	Miss Florence Tremayne	5	1 0	138	37·46	167
D Lostwithiel (Lanwithan)	Miss Foster	10	1 0	80	38·98	152
D Newquay (Island House)	A. Hardwick, Esq., M.D.	5	1 0	100 B	30·34	175
D Menheniot (Coldrenick House)...	E. Jago, Esq.	5	1 4	...	42·74	178
D St. Wenn Vicarage	Rev. A. S. Rashleigh...	8	1 3	428 A	39·78	206
D†Liskeard (Dean Terrace)	S. W. Jenkin, Esq., C.E.	5	1 1	375 A	42·37	185
D „ (Trevillis)	L. C. Foster, Esq.	5	1 0	320 T	35·21	175
†Saltash (Pentillie Castle)	Mr. W. T. Johnson ...	5	2 4	150 B	42·69	161
D†Bodmin (Lanhydrock)	Rev. Prebendary Every	5	1 0	390	43·47	192
D „ (Treledan)	H. D. Foster, Esq. ...	8	1 0	290	45·06	197
Liskeard (St. Cleer Down)	S. W. Jenkin, Esq., C.E.	5	1 1	620 T	37·73	...
D St. Mabyn (Pencarrow)	Mr. A. C. Bartlett	5	1 0	...	40·17	210
Callington (Drakewalls)	Mr. C. A. Wadge	5	4 0	650 T	42·35	154
D†Launceston (Altarnon)	Rev. A. H. Malan	5	1 0	620 B	53·17	223
D „ (Tamar Terrace) ...	Captain L. Ching, R.N.	5	0 10	446	40·56	191
Egloskerry (Tregear)	E. G. B. Lethbridge, Esq.	5	1 0	450	40·41	...
North Tamerton (Ogbeare)	Mr. J. S. Bray	5	4 0	460 T	36·36	159
D Bude	J. Arthur, Esq.	5	1 0	16 B	29·37	136

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	1901	
			ft. in.	feet.	inches.	
SOMERSET.						
Cricket St. Thomas	Mr. S. Lyon	6	1 0	444	37·32	137
D Crewkerne (Bincombe House) ..	Miss Sparks	5	1 2	293 †	33·25	148
D Yeovil (West Coker).....	Major Aldworth.....	5	1 0	260 †	30·88	178
„ (Barwick House)	His Hon Judge Philbrick	5	1 1	185 †	31·78	...
D „ (Gas Works)	E. Howell, Esq.....	5	1 0	110 †	30·44	127
D Ilminster (Ilton Vicarage).....	Rev. R. B. Poole	8	0 10	104 †	30·62	180
Taunton (Blagdon Hill)	H. T. Coles, Esq.	8	1 6	588 †	32·47	...
„ (Leigh Hill)	„ „ „	8	1 6	525 †	30·90	...
D „ (Ashleigh)	W. A. Gunner, Esq....	5	1 0	78 B	24·98	170
D „ (Linden Grove).....	H. Le B. Gunner, Esq.	5	1 3	...	26·03	175
D Wellington (The Avenue)	F. J. Burnett, Esq. ...	5	0 10	254 †	29·15	177
Temple Combe Rectory	Rev. J. C. Fox	5	0 6	215	31·22	166
D Taunton (Claremont)	E. Ball, Esq.	8	1 2	80 †	23·85	123
D Milverton (The Nook)	Miss F. E. Bere	5	1 0	265	29·54	174
D North Cadbury Rectory	Rev. H. A. Boys	8	1 3	256 †	27·21	167
D Taunton (The Mount, Halse) ...	Miss Smith	5	1 1	254	27·53	156
D Wincanton	Rev. W. Farrer.....	5	1 0	300	29·68	165
Cothelstone House	C. E. J. Esdaile, Esq...	5	1 0	430	28·29	158
D North Petherton (The Old Rectory)	E. C. Curtis, Esq.	8	0 6	122 †	25·20	144
Castle Cary (Pitcombe Vicarage)	Rev. D. E. Norton.....	5	1 2	310 †	30·12	...
D Somerton (Butleigh Court)	R. Neville Grenville Esq.	8	1 2	80	25·97	131
Bruton (King's School) ..	Rev. D. E. Norton.....	5	0 10	240	31·97	...
Winsford	Rev. Preb. Anderson...	5	1 2	630	44·57	...
D Glastonbury (Street)	W. S. Clark, Esq.	8	1 0	100	23·16	143
„ (Wells Road)	J. Spire, Esq.....	8	7 0	94 †	22·06	137
D „ (Ynyswytryn)	Mrs. Swayne	5	1 8	245 †	24·27	145
Bridgwater (Enmore Park)	W. B. Broadmead, Esq.	8	1 9	268	27·34	...
„ (Nurseries)	H. Corder, Esq.....	5	0 6	...	23·17	150
D „ (Ashford)	F. Parr, Esq., C.E. ...	5	...	...	25·16	138
„ (Fiddington)	E. R. Case, Esq.	8	5 0	120	22·49	...
Exmoor (Simonsbath)	Rev. H. L. Pigot	5	1 0	108	63·74	199
D Holford (Woodlands House) ...	Miss I. L. Joseph	5	0 9	391 †	27·61	145
Dunster (Alcombe)	Rev. J. Utten Todd ...	5	1 0	...	26·91	154
Stockland Bristol Manor House..	Rev. H. A. Daniel.....	5	1 0	65	22·67	119
Bridgwater (Pawlett)	H. A. Smith Spark, Esq.	5	1 0	45 †	20·43	...
D Shepton Mallet (Charlton)	F. H. Berryman, Esq..	5	1 0	481 †	32·21	154
D „ „ (Field House) ...	„ „ „	5	1 0	500	29·57	160
D „ „ (Sewage Farm) ..	C. Hale, Esq.....	5	0 9	310 †	29·85	152
D Wells (The Deanery Gardens)...	Mr. A. King	5	1 0	170 †	28·04	154
„ (The Cedars)	Mr. O. J. Fewtrell.....	5	1 6	190	28·44	154
D Cranmore (Cranmore Hall)	Rt Hon Sir R. H. Paget, Bt.	8	1 0	600 †	32·95	167
D Frome (Mells Rectory)	The late Mrs. Horner...	5	1 0	344 †	30·84	160
D „ (Orchardleigh)	Rev. W. A. Duckworth	8	0 10	303 †	27·17	154
Radstock (Downside College) ...	Rev. F. P. Whiteside...	8	0 11	600 †	32·74	147
D Chewton Mendip (The Priory)...	Rt Hon Earl Waldegrave	5	1 5	550 †	35·87	166
„ „ (Waldegrave Ho.)	J. Hansford Hill, Esq..	10	1 0	450	36·01	161
Ston Easton	H. E. Hippisley, Esq..	5	3 0	480 †	33·32	161
E. Harptree (Sherborne Reservoir)	Bristol Water Works...	5	1 0	338 †	31·24	150

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1901	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
SOMERSET—(con.)						
d E. Harptree (Harptree Court)...	W. W. Kettlewell, Esq.	5	1 0	346 ∇	34·38	156
Axbridge (Loxton Rectory) ...	Rev. J. E. Page.....	...	...	...	26·66	144
„ (Winscombe Court)...	Rev. R. F. Follett	8	1 0	180 ∇	25·72	117
Ubley (Nordrach-on-Mendip) ...	R. Thurnam, Esq., M.D.	5	0 4	862 ∇	38·11	189
Radstock (Camerton Court)	E. E. Jarrett, Esq. ...	5	1 6	340	33·02	116
d „ (High Littleton)	Rev. A. M. Foster	5	0 10	442 ∇	27·57	154
d Axbridge (The Down, Winscombe)	J. Grubb, Esq.	5	1 0	295 ∇	28·00	135
d Hutton Rectory	Rev. W. F. Rose	5	1 0	75 ?	25·86	165
d Pensford (Sutton Court)	late Sir E. Strachey, Bt.	8	1 0	280	29·14	166
d Churchill (Springfield)	S. B. Pumphrey, Esq..	5	1 1	...	23·58	136
d Weston-spr.-Mare (Leycroft Ho.)	C. Brown, Esq.	5	1 0	10	28·41	143
d „ „ „ (Beaufort Rd.)	W. A. Fussell, Esq. ...	8	5 0	23 ∇	25·00	155
d „ „ „ (Worle)	St. J. Kemm, Esq.....	5	1 0	...	23·71	152
Bath (Combe Hay Manor)	F. G. Smart, Esq.....	5	1 0	...	29·02	157
d Wrington (The Rectory)	Rev. G. M. Ashdown...	5	5 0	68	25·27	150
„ (West Hay).....	Gen. Harrison.....	5	2 0	100 ∇	26·55	141
Chew Magna	Bristol Water Works...	5	1 0	160 ∇	28·99	148
d Bath (Royal Institution)	The Librarian.....	6	8 0	75	25·72	142
d „ (Henrietta Park)	Dr. W. H. Symons ...	5	1 0	67 ∇	26·41	144
d „ (Kingswood School)	„ „ „	5	1 0	620 ∇	27·65	138
d „ (Hampstead, Combe Park).	„ „ „	5	1 0	165 ∇	28·28	143
d „ (Fairley, Weston)	C. H. B. Hambly, Esq.	5	1 6	200	27·53	153
„ („ „).....	M	5	1 6	200	27·37	...
„ (Charlcombe).....	C. Gilby, Esq., C.E. ...	8	2 0	325 ∇	26·71	158
d Batheaston	Col. Linley Blathwayt.	5	1 0	166 ∇	26·18	153
„	M	5	1 0	166 ∇	26·70	...
d „ Reservoir	C. Gilby, Esq., C.E. ...	5	2 0	248 ∇	25·23	167
Yatton (Chelvey)	Bristol Water Works...	7	0 10	...	25·07	125
Barrow Gurney Reservoir	„ „ „	5	1 0	320 ∇	25·22	154
d Long Ashton Estate Office	H. B. Napier, Esq. ...	8	1 0	134 ∇	26·57	145
d Flax Bourton (Tyntesfield)	A. Gibbs, Esq.	5	1 7	320 ∇	24·43	147
d Clevedon (Water Works).....	E. Button, Esq.	5	0 9	28 ∇	22·55	122
Bristol (Coronation Road)	H. C. Martin, Esq. ...	5	0 10	50	25·44	...
Wraxall	Rev. H. Vaughan	5	0 11	191	26·65	161
d Abbots Leigh	Sir Henry Miles, Bart.	5	1 0	333 ∇	29·21	157
d Failand House [Bristol]	Miss Agnes Fry.....	5	1 0	400	28·31	181
d „ „	„ „ „	12	2 10	400	25·83	172

DIVISION VI.—WEST MIDLAND COUNTIES.

GLOUCESTER.

Monkswood Reservoir [Bath] ...	C. Gilby, Esq., C.E. ...	5	1 0	365 ∇	26·70	176
d Bristol Docks (Underfall Yard) ..	W. W. Squire, Esq., C.E.	8	19 6	45 ∇	21·96	152
„ (Small Street)	Bristol Water Works...	12	33 10	52	25·03	137
d Clifton (Cecil Road)	Miss Hooper	5	1 5	230	27·11	157
d „ (Pembroke Road)	R. F. Sturge, Esq. ...	8	0 10	215	27·29	157
d „ College	D. Rintoul, Esq.	8	1 2	230	26·54	134

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1901	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
GLOUCESTER—(con).						
D Bristol (The Grove, Fishponds)...	H. H. Harding, Esq....	5	1 0	160 T	24·46	147
Westbury-on-Trym (Cote House)	Mrs. Ames	8	1 3	243 T	26·64	139
Pucklechurch	Rev. S. G. Gillum	5	0 10	374 T	25·78	150
D Filton	F. W. Gayner, Esq. ...	5	2 0	200	23·64	151
D Chipping Sodbury (Frampton Cotl)	J. Marsh, Esq.	5	1 0	180 T	24·74	157
D " " (Stanshawes Ct)	R. N. Hooper, Esq. ..	5	1 3	280 T	25·57	150
D Bristol (Over Court Park)	R. C. C. Lippincott, Esq.	5	0 9	147 T	28·09	176
D " " " Garden)	" " " "	8	1 0	137 T	26·32	175
Badminton	Mr. W. Nash	5	1 0	407	29·70	172
D Wickwar Rectory	Rev. R. J. Lyon ...	5	1 0	260 T	26·79	152
Alderley	Gen. Hale	5	1 0	310 T	27·97	...
Tortworth Court	Mr. T. Edington	8	1 0	264	27·14	171
Dursley (Farnley)	R. W. Pinney, Esq. ...	5	0 10	251 T	29·53	137
D Fairford (Kempsford)	A. T. Iles, Esq.	5	1 0	...	21·22	157
D " (The Close)	W. Cobbett Arkell, Esq.	5	1 9	...	23·90	131
D " (Horecott)	R. A. Iles, Esq.	8	2 0	...	22·56	140
Berkeley (Castle Gardens)	Mr. R. Shore	5	1 6	62 T	26·47	123
D " (Sharpness) ... new g.	F. A. Jones, Esq., C.E.	5	3 6	50	26·15	146
Lechlade	T. Arkell, Esq.	5	0 9	253	21·10	...
" (Southrop) .....	" " " " .....	...	1 0	...	21·91	111
D Amberley (Highlands)	Mrs. Blackwell	8	0 10	550 T	28·74	112
D Woodchester (Culver House) ...	Mrs. Davidson	5	1 0	372 T	27·26	136
Chalford (Hyde House)	Piers F. Legh, Esq. ...	5	1 6	545 T	28·20	169
D Lydney (Clanna)	Captain Marling	5	1 0	260 T	30·91	154
D " (Priors Mesne)	H. Cook, Esq., M.D. ...	5	1 6	500 T	32·54	162
Cirencester (Roy. Agricultl. Coll.)	The Meteor. Council ...	5	1 0	443 T	26·10	150
D " (Dollarward House) ..	C. P. Hooker, Esq. ...	5	1 6	366	28·44	177
D " (Further Barton) ...	Miss J. E. A. Brown ...	5	1 0	422 T	28·06	160
D Stroud (Stanley Park) ...	Capt W. J. Paley Marling	8	1 0	365 T	26·27	120
D " (The Acre)	the late P. Witchell, Esq	5	1 0	300	25·83	136
D " (Upfield)	Miss Stanton	5	1 0	226 T	25·00	159
Stonehouse (Wycliffe College)...	W. A. Sibly, Esq.	5	1 0	120	24·67	132
D Fairford (Hatherop Rectory) ...	Rev. R. P. Davies	8	1 3	411 T	24·46	165
D Whitminster	F. A. Jones, Esq., C.E.	5	1 0	32 T	23·86	175
Haresfield Court	Mr. S. Pearce	5	1 0	100	24·07	149
D Stroud (Harescombe Grange) ...	Miss Hutton	5	1 0	550 T	24·99	185
Coleford (The Coombs)	The late R. Tyrer, Esq.	5	1 0	660	32·01	174
D Westbury-on-Severn (Chaxhill).	H. S. Grant, Esq.	5	3 0	122 T	22·40	126
D Great Barrington	H. J. Barrett, Esq. ...	5	1 6	430 T	23·11	124
Northleach (Sherborne House) ...	Mr. Scott	5	1 0	405	26·36	134
Gloucester (Quedgeley House)...	W. G. Robinson, Esq..	5	1 0	65 T	25·17	160
" (Cotswold Sanatorium)	C. Braine Hartnell, Esq.	5	1 0	790 T	27·14	141
D " (Birdlip Hill)	A. S. Helps, Esq.	5	1 0	800 T	26·06	153
D " " " " .. new g.	" " " "	5	1 0	800 T	26·72	151
D " (Witcombe Res.)	R. Read, Esq., C.E. ...	8	3 0	297 T	24·79	135
D Mitcheldean (Blaisdon)	P. Stubbs, Esq.	5	1 0	117 T	28·54	178
" " " " .. M	" " " "	5	1 0	117 T	28·30	...
D Gloucester (Hempsted)	F. A. Jones, Esq., C.E.	5	1 0	72 T	23·65	156

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	1901	
			ft. in.	feet.	inches.	
GLOUCESTER—(con.)						
d Gloucester (Llanthony Lock) ...	E. D. Marten, Esq., C.E.	5	1 2	39 π	23·50	148
„ (Denmark Road)	A. J. Stephens, Esq. ...	5	1 0	53	21·76	...
d „ (Lower Barton Street) ...	W. Piffe Brown, Esq. ...	5	1 0	65 π	22·27	164
„ (Churcham)	L. H. Hall, Esq.	5	2 1	90	24·58	145
d „ (Wotton Asylum)	R. B. Smyth, Esq., M.D.	8	0 9	88 π	22·04	139
d Cheltenham (Dowdeswell)	J. Hall, Esq., C.E.	5	0 10	357	26·61	143
d Gloucester (Maisemore Lock) ...	E. D. Marten, Esq., C.E.	5	1 1	39 π	21·90	150
d Bourton-on-the-Water	E. W. Kendall, Esq. ...	5	1 6	434 \uparrow	26·72	140
„ „ „ (Chardwar)	G. F. Moore, Esq.	5	2 6	430	27·42	132
d Cheltenham (Northfield)	J. Hall, Esq., C.E.	5	5 0	637 π	22·07	145
d „ (Hewletts Res.) ...	„ „ „	8	1 6	419 π	25·20	145
d „ (Sandford)	„ „ „	5	2 8	210	22·79	133
d „ (Heath Lodge) ...	Rev. M. A. Smelt	8	1 0	206	23·76	160
d „ (Southam Villa) ...	The late R. Tyrer, Esq.	5	1 0	184 π	23·27	169
„ („ „) M „ „ „	„ „ „	5	1 0	184 π	21·65	...
d Stow-on-the-Wold (Oddington). ..	Rev. H. B. Heberden..	5	0 9	400	23·73	153
d Winchcombe	J. Halliwell, Esq.	5	1 2	295 \uparrow	23·83	149
d Moreton-in-Marsh (Longborough) ..	W. Arkell, Esq.	5	1 0	575	27·40	132
d† Tewkesbury (Upper Lode)	E. D. Marten, Esq., C.E.	5	1 0	41 π	22·79	120
d „	J. Hall, Esq., C.E.	5	0 10	47	19·63	123
d „ (Beckford)	F. Slade, Esq., C.E. ...	8	1 0	120 π	22·95	159
d Chipping Campden (Hidcote) ...	Major W. Wright	5	1 0	525	23·01	142
HEREFORD.						
d Ross (Croome Hall)	W. E. Hancock, Esq. ...	8	4 0	288 π	26·60	171
d† „ (The Graig)	H. Southall, Esq.	5	1 0	213 π	23·45	192
d Upton Bishop (The Baches)	W. Hogarth, Esq.	5	1 0	300	20·64	120
„ Ross (Perrystone Court)	Mrs. G. Clive	5	1 3	...	21·02	140
„ Much Dewchurch (Bryngwyn) ..	Sir J. Rankin, Bt., M.P.	5	0 9	416 \uparrow	26·79	125
d „ Much Marcle (Caerswall)	J. A. H. Charles, Esq..	5	1 0	423 π	23·57	166
d „ „ (The Mount)	T. Charles, Esq.	5	0 8	240 \uparrow	22·09	145
d Fownhope (Morney Cross)	O. E. Cresswell, Esq. ...	5	1 5	...	22·88	134
d Woolhope (Wessington Court) ..	Miss L. Grafton	5	1 0	440	22·22	155
d† Ledbury (Orchardleigh)	M. A. Wood, Esq.	5	3 0	180	23·78	156
d „ (Underdown)	S. H. Bickham, Esq. ...	5	1 0	307 π	23·83	168
„ („ „) M „ „ „	„ „ „	5	1 0	306 π	23·15	...
„ (Putley Court)	J. Riley, Esq.	5	1 0	290	24·96	151
d Hereford (Breinton Court)	H. A. Wadworth, Esq.	5	1 0	238 \uparrow	23·85	149
„ (St. Owen Street)	Mrs. Jay Jones	5	6 0	190 \uparrow	23·45	...
„ (St. Michael's Priory) ..	Rev. B. Harrington ...	8	1 0	291	25·25	157
d Lugwardine (The Laurels)	Mr. C. J. Johnstone ...	5	1 0	270 \uparrow	21·86	143
„ Yarkhill Vicarage	Rev. A. G. Jones	8	1 0	190	20·53	152
d Canon Frome Vicarage	Rev. M. Hopton	8	1 3	252 \uparrow	23·16	160
d† Malvern Hills (Upper Wych) ...	Baldwin Latham Esq. CE	5	1 0	1006 π	22·67	112
d Hereford (Burghill Court)	Miss E. D. Woodhouse	5	0 10	293 \uparrow	24·12	178
d Brinsop Vicarage	the late Rev. A. Relton	5	1 0	285 \uparrow	22·96	139
d Hope-u-Dinmore (Hampton Ct.) ..	J. H. Arkwright, Esq..	8	1 2	212 π	27·76	134
d Weobley (Dilwyn)	T. L. Hall, Esq., M.D.	5	0 8	290 \uparrow	23·61	161

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	1901	
			ft. in.	feet.	inches.	
HEREFORD—(con.)						
D Kingston (Lynhales)	S. Robinson, Esq.	8	1 0	566	26·01	184
D „ (Gravel Hill)	Col. G. F. Pearson.	5	0 8	540 T	29·83	194
D Pembrige (Marston)	H. Langston, Esq.	5	1 5	347 T	24·70	144
Bromyard (Buckenhill)	R. Phipps, Esq.	8	1 9	...	20·11	...
D Leominster (Farm)	Miss Southall	5	1 6	268	23·00	180
SHROPSHIRE.						
D Ludlow (Ashford)	Rev. J. Selwood Tanner	5	1 2	265 T	22·52	167
D „ („ House)	W. Downes Hall, Esq.	5	0 5	315 T	25·86	174
D „ (The Sheet)	Rev. R. P. Dansey.	5	1 0	370 T	23·49	154
D Bromfield (Priors Halton)	Miss Beddoes	5	1 0	300	26·63	175
D „ (Oakly Park)	Mr. T. Reason	5	1 0	300	24·60	192
D „ Vicarage	Rev. W. Selwyn	5	1 0	300 T	24·83	159
D Clunbury Vicarage	Rev. W. Clark Maxwell	5	1 0	497	27·89	137
Craven Arms (Stokesay Vicarage)	Rev. W. M. D. La Touche	5	1 0	371 T	28·33	158
D Bishop's Castle (Totterton)	W. H. Whitaker, Esq.	5	0 7	700	29·47	171
„ „ (Castle Street)	E. Griffiths, Esq.	5	2 0	720 B	30·71	170
„ „ (Cabin)	M. „ „ „ „	5	0 9	810 T	30·61	...
D Bridgnorth (Coton Hall)	E. M. Wakeman, Esq.	5	1 0	460	23·37	150
Church Stretton (Longhills)	Rev. Preb. Elliot	5	1 0	680	33·11	187
D „ „	Rev. R. P. Dansey	5	1 0	645 T	32·86	185
Bridgnorth (Hookfield House)	Rev. Preb. F. Burd	5	0 11	...	23·38	166
D „ (Cantreyn Bank)	Rev. H. M. Stallybrass	6	3 9	320 T	24·95	134
D „ (Aldenharn Park)	H. J. Wyley, Esq.	5	3 9	430 T	24·35	152
Church Stretton (Preen Manor)	C. B. Sparrow, Esq.	5	1 0	700 T	26·41	161
D „ „ (Woolstaston)	Mrs. E. D. Carr	5	1 0	800 T	29·63	176
D Much Wenlock (Willey Park)	Rt. Hon. Lord Forester	5	1 0	502 T	25·87	170
D Pontesbury (Somerville)	Mr. W. R. Croft	5	1 6	355 T	24·69	134
Minsterley (Hampton Hall)	J. Whitaker, Esq. . . . .	...	1 0	630 T	30·04	...
D „ (Wallop)	Mrs. Severne	8	1 3	700 T	36·21	174
D Shifnal (Hatton Grange)	Col. Kenyon-Slaney, MP	5	4 2	261	24·78	170
D „ (Neachley)	Col. Hon. F. Bridgeman	5	1 6	280 T	26·05	158
„ (Haughton Hall)	Mr. A. S. Kemp	5	3 0	355	24·22	121
D Shrewsbury (The Abbey House)	Miss F. Rouse Boughton	8	1 3	171 T	21·11	150
„	W. Chapple Eddowes Esq	8	1 3	174 T	25·34	...
D „ (Highfield)	T. M. Howells, Esq.	5	4 6	250	23·48	137
„ (Roden)	The Royal Meteor. Soc. . . . .	...	...	208	23·53	152
„ (Berwick Hall)	W. G. Phillipps, Esq. . . . .	...	1 6	250 B	21·17	...
D „ (Fitz Manor)	Miss Beavan	5	1 4	253 T	24·99	217
Newport (Aston Hall)	Col. R. Leeke.	5	0 9	250	24·39	163
D „ (Edgmond)	J. Bodenham, Esq.	8	1 0	261 T	25·67	179
D Wem (The Clive Vic.)	Rev. J. Cooper Wood.	5	1 0	299 T	26·11	206
D „ (The Rectory)	Hon. Rev. G. H. F. Vane	5	1 0	270 T	27·65	216
D Cheswardine (Knighton Res.)	G. R. Jebb, Esq., C.E.	8	0 3	351 T	30·63	163
D Oswestry (The Mount Reservoirs)	G. W. Lacey, Esq., C.E.	5	1 0	698 T	34·66	146
Market Drayton (Buntingsdale)	Mrs. Tayleur	8	3 0	276 T	29·22	...

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	1901	
			ft. in.	feet.	inches.	
STAFFORD.						
Dennis [Stourbridge]	E. B. Marten, Esq., C.E.	8	6 6	270 B	23·88	163
D Netherton (Lodge Farm Res.) ...	G. R. Jebb, Esq., C.E.	5	1 0	445 A	20·94	145
D Dudley (Shavers End)	H. A. Hill, Esq., C.E.	5	1 0	744 T	20·42	139
D Wombourne (The Bratch)	Baldwin Latham Esq CE	5	0 9	271	24·71	187
Wednesbury (Ocker Hill)	E. B. Marten, Esq., C.E.	...	...	...	20·11	137
Walsall	" " " "	8	4 0	463 A	27·11	163
D " Sewage Farm	R. H. Middleton, Esq. CE	8	0 11	376 A	22·17	131
D " (Wednesbury Sewage Wks.)	T. Wicks, Esq.	5	2 8	381 A	20·77	144
Wolverhampton (Graiseley) ...	R. E. W. Berrington, Esq	5	0 9	506 A	23·15	139
" (Town Hall) ...	G. Green, Esq., C.E.	5	15 6	481 A	24·02	148
" (West Park) ...	" " " "	5	1 0	432 A	23·95	157
D " (Wrottesley) ...	Mr. E. Simpson	8	1 0	500	23·72	124
D Tamworth (Bonehill House)	Col. G. Chichester	5	1 0	289 T	22·10	153
D Bloxwich (Sneyd Res.)	G. R. Jebb, Esq., C.E.	5	1 0	507 A	21·54	133
D Hammerwich (Cannock Chase Res)	" " " "	5	1 0	475 A	23·01	166
D Weston Park [Shifnal]	Rt. Hon. Earl of Bradford	5	1 6	400 T	25·02	167
Brewood (Belvide Res.)	G. R. Jebb, Esq., C.E.	8	1 0	367 A	23·66	...
Lichfield (Maple Hayes)	A. O. Worthington, Esq.	5	1 0	380	21·86	...
D Penkridge (Rodbaston)	H. Ward, Esq.	5	1 0	324 A	26·37	157
D Hednesford (Scout House)	H. A. Hill, Esq., C.E.	5	1 0	750 A	21·19	150
Shugborough	Rt. Hon Earl of Lichfield	5	1 0	260	26·26	183
D Burton (Rangemore)	Mr. W. Bennett	5	5 6	424 T	24·59	184
" (Ashby Road)	M. L. Nicholas, Esq. ...	5	1 6	270	25·20	167
" (Trent Cottage)	J. L. P. Barber, Esq. ...	5	1 0	150	24·67	182
D " (Shobnall)	Messrs. Bass & Co. ...	5	4 6	156 T	22·23	145
D " (Hoar Cross)	F. W. Lycett, Esq.	8	4 0	400 T	26·36	147
Stafford (West Bank, Doxey) M	Mr. Leslie Wilson	5	0 9	280 T	24·01	...
D Salt Vicarage	Rev. S. W. Jones	8	0 8	273	25·73	163
D Uttoxeter (Brook House)	Mr. J. J. Gibbons	5	1 0	283 A	28·30	180
D Market Drayton (Old Springs) ...	F. E. Harding, Esq. ...	5	0 8	423 A	29·33	188
D Maer Hall Gardens	Mr. J. Harris	5	1 6	...	29·36	192
D† Cheadle (The Heath House)	J. C. Philips, Esq.	5	1 0	647 A	27·69	163
D Longton (The Meir)	G. D. Harrison, Esq. C.E.	5	1 0	618 A	28·00	165
D Newcastle (Madeley Vic.)	Mr. W. Pye	5	1 0	347 A	31·27	137
D Stoke (Hartshill)	J. Knight, Esq.	5	1 0	485 A	29·75	180
" (Stanley Reservoir)	E. B. Smith, Esq., C.E.	5	3 7	550 T	23·77	130
Etruria	" " " "	5	4 2	440	25·09	...
Alstonfield Vicarage	Rev. W. H. Purchas ...	5	1 0	910 T	35·59	150
D Leek (Wall Grange)	G. D. Harrison, Esq. C.E.	5	1 0	458 A	34·11	165
WORCESTER.						
D Blockley (Upton Wold)	E. W. Arkell, Esq. ...	5	0 10	...	28·06	143
Northwick Park	Lady Northwick	8	1 6	410 A	24·98	...
Upton-on-Severn (Willow Bank)	J. S. Cowley, Esq.	5	1 3	...	21·29	127
" (The Eades) ...	Major E. Tennant	5	0 9	100 T	21·96	160
D Evesham (Lansdowne)	R. Burlingham, Esq.	5	5 0	108 T	21·47	104
Gt. Malvern (British Camp Res. S.)	H. P. Maybury, Esq. C.E	5	1 7	670 A	22·13	122
" " (" " " N.)	" " " "	5	0 11	673 A	22·09	119

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1901	Days on which 1.01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
WORCESTER—(con.)						
D† Gt. Malvern (Church Street).....	H. P. Maybury, Esq. C.E.	5	4 6	353 A	21.20	122
D† „ „ (Belle Vue House)...	A. Mander, Esq.	5	4 0	320	24.72	161
† „ „ (Madresfield Rect.)..	Rev. G. S. Munn	5	1 4	124 A	21.58	104
D† „ „ („ Court)...	Mr. W. Crump	8	2 6	135 T	22.48	118
D Leigh Lodge	Insp.-Gen. Cowan, R.N.	5	1 3	110 T	19.76	160
D† Worcester (Diglis Lock)	E. D. Marten, Esq., C.E.	5	1 0	49 A	23.12	159
D „ (Belmont Road)	G. B. Wetherall, Esq..	5	1 3	180 T	20.82	161
D „ (Water Works)	T. Caink, Esq., C.E. ...	5	0 8	52 A	19.98	151
D† „ (Bevere Lock)	E. D. Marten, Esq., C.E.	5	1 1	52 A	20.50	162
D „ (Hawford Lodge)	F. Ames, Esq.	5	1 1	70	22.95	123
D† Droitwich (Holt Lock)	E. D. Marten, Esq., C.E.	5	1 1	55 A	21.47	132
Tenbury (Rochford)	Rev. J. Tomson	5	1 0	317 A	21.47	146
D Redditch (Prospect Hill)	H. Page, Esq., M.D. ...	5	1 0	425 T	21.36	173
D Bromsgrove (Tardebigge Res.)...	F. A. Jones, Esq. C.E.	5	3 0	433 T	22.56	163
D „ (Stoke Reformatory)	Mr. J. Salter	5	5 4	225	18.37	125
„ (Barnt Green)	D. B. Grubb, Esq.	5	1 0	450 ?	24.26	124
D† Stourport (Lincombe Lock).....	E. D. Marten, Esq., C.E.	5	1 0	62 A	20.74	136
D Bewdley (Winterdyne Gardens)	Mr. W. Wrather	8	2 0	...	20.55	126
„ (Beaucastle)	Alderman Baker.....	...	...	475 ?	19.47	...
D Kidderminster (Prospect Hill)...	Mr. J. T. Cowderoy ...	...	1 0	161 A	17.87	166
Stourbridge (Pedmore)	E. B. Marten, Esq., C.E.	8	0 11	350 A	22.99	164
„ (Longlands) .....	„ „ „	...	...	...	22.28	165
D Northfield (West Heath House).	A. J. Brown, Esq.	5	1 0	...	24.39	179
D „ (Longbridge)	Mrs. F. Impey	5	0 9	560 T	25.63	135
Kings Heath (Cambridge Road)	J. H. Webb, Esq., C.E.	5	10 0	526 A	22.59	222
D „ (Brandwood House)	G. F. Lyndon, Esq. ...	5	1 0	550 T	26.74	160
Selly Oak Cemetery	Mr. W. Garden	5	1 4	540 T	24.32	146
Stechford (Ely Cottage)	H. H. Newark, Esq. ...	5	1 3	360 B	25.34	169
Moseley (Prospect Road)	Rev. F. O. Lane.....	5	1 0	550	25.63	...
Dudley (Trindle House)	E. B. Marten, Esq., C.E.	8	1 0	575	27.20	163
WARWICK.						
Long Compton (Weston Park)...	H. A. Warriner, Esq. ...	8	3 10	510 T	22.94	113
Shipston (Honington)	Rev. E. Boddington ...	5	0 10	215 T	21.40	133
Farnborough	Miss Prater	5	1 0	520 T	24.78	165
Burton Dassett Vicarage	Mrs. Westacott .....	...	...	...	21.60	162
D Stratford-on-Avon (Guild Street)	Rev. F. Smith	12	4 0	135 T	22.52	140
D „ „ „ (Shottery Hall)	R. Carter, Esq.	5	0 8	140 T	20.10	131
D Alcester (Ragley Gardens)	Mr. A. Christie	5	1 0	150 T	20.24	147
D Snitterfield	R. Dixon, Esq.	5	1 0	304 A	21.74	129
D Warwick (Barford Rectory).....	Rev. C. Mills.....	8	0 11	167 A	20.52	145
Leamington (The Parade).....	J. Barnitt, Esq.	5	4 8	195 A	19.12	141
Henley-in-Arden (Barrells Park)	T. H. G. Newton, Esq.	5	1 0	318 A	19.03	139
Warwick (Hatton Vicarage) ...	Rev. H. Trethewy.....	5	1 0	384 T	20.66	137
Milverton (Latmos)	Rev. E. Healy	5	1 2	191 T	18.99	...
D Leamington (Cubbington).....	Mrs. Robins	6	1 0	280 T	20.31	111
D Kenilworth (The Spring)	W. Evans, Esq.	5	1 0	312 A	20.75	149
Rugby (Temple Observatory) ...	Denys E. Short, Esq. ...	5	1 3	383 T	22.49	151

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	1901	
WARWICK—(con.)						
D Rugby (Bilton Grange).....	F. L. Sutton, Esq.	5	1 0	490	21·34	129
D Coventry (City Hospital)	E. H. Snell, Esq., M.D.	8	1 0	269 T	21·48	156
D „ (Priory Row)	J. Gulson, Esq.	8	1 3	279 T	22·69	172
„ (Stoke)	„ „ „	8	1 3	241	23·08	169
„ (Kingswood) ...	R. B. Caldicott, Esq....	8	1 0	340 T	26·57	...
D „ (Keresley Grange).....	Miss Rotherham	5	0 10	413	23·75	193
Birmingham (Olton)	B. Boothroyd, Esq. ...	5	1 0	400 ?	24·73	...
D „ (Sheldon Rectory)..	Mrs. Jones-Bateman...	8	1 0	323	25·71	147
„ (Edgbaston)	A. Cresswell, Esq.....	8	1 0	525	22·67	137
„ „ „	A. Brothers, Esq.	5	1 6	550	24·84	135
D† „ (Botanic Gardens)..	Mr. Latham	5	5 2	505 T	21·83	152
D „ (The Crescent)	J. J. Gilbert, Esq.....	5	21 0	495 T	21·52	132
„ „ „ „ „	„ „ „ „ „	5	7 0	480 T	24·51	...
Bedworth Cemetery	Mr. D. Bosworth	5	1 0	385 T	23·53	128
D Witton Reservoir	E. Anty Lees, Esq. ...	5	2 6	347 T	22·58	159
D Whitacre (Birmingham W.W.)..	„ „ „ „	5	1 3	269 T	24·38	196
D Sutton Coldfield (The Park).....	Mr. H. Harland.....	5	1 0	371	22·55	152
D Atherstone	Baldwin Latham Esq CE	5	1 0	286 T	21·32	155

DIVISION VII.—NORTH MIDLAND COUNTIES.

LEICESTER.

Lutterworth (Walcote).....	Major Corbet Smith ..	5	0 6	290	23·76	153
Gumley Rectory.....	Rev. Canon Overton ...	8	3 6	635 T	21·41	130
Fleckney.....	J. B. Putt, Esq.....	5	1 0	411 T	26·17	...
D† Kibworth Beauchamp	E. V. Phillips, Esq. ...	5	2 6	355 T	24·81	134
D Hallaton Hall.....	S. N. Bankart, Esq. ...	8	1 3	366	22·17	117
Horninghold House	A. Cross, Esq.	5	1 6	380	22·28	...
D Leicester (Town Hall Square)...	E. G. Mawbey, Esq., C.E.	5	0 6	211 T	19·39	125
D „ „ „ „	„ „ „ „	7	2 0	213 T	19·31	125
D „ (Humberstone Asylum)	J. E. M. Finch, Esq., M.D	8	1 0	244 T	21·01	173
D† Thornton Reservoir	F. Griffith, Esq., C.E..	8	1 2	371 T	22·80	132
D Thurmaston Rectory	Rev. T. A. Preston ...	5	1 0	253 T	21·64	144
D „ (Cropston)	F. Griffith, Esq., C.E..	8	1 0	246 T	24·68	157
D Syston	S. K. Daniels, Esq. ...	5	1 6	180 T	23·04	129
D Swithland (The Brand)	F. Griffith, Esq., C.E..	8	1 0	172 T	22·26	148
D Ratcliffe-on-Wreake College ...	Rev. J. Cremonini	5	1 0	288 T	21·92	146
D Barrow-upon-Soar	Mrs. C. Stuart Thomson	5	1 8	...	22·34	133
D Charnwood Forest (Blackbrook Res.)	A. H. Walker, Esq., C.E.	8	1 0	310	24·75	137
D Whitwick (Mt. St. Bernard's Abbey)	Rev. C. Hipwood	5	1 3	588	24·45	149
D Loughborough (Nan Pantan Res.)	A. H. Walker, Esq., C.E.	8	1 0	269 T	22·71	161
D „ (The Widenings)	Adrian Young, Esq. ...	5	0 7	150 T	21·41	150
D „ (Forest Road) ...	W. Berridge, Esq.....	8	1 0	147 T	21·41	164
Burton-on-the-Wolds	Lord Percy St. Maur...	6	0 9	...	19·95	128
Prestwold Hall	Hussey Packe, Esq. ...	8	0 9	209 T	21·11	166
D Waltham-le-Wolds	Mr. G. Higgens	5	1 0	568	22·64	140
D† Belvoir Castle	W. H. Divers, Esq. ...	8	1 0	260 T	21·54	166

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	1901	
RUTLAND.						
Uppingham (Ridlington)	N. W. Wortley, Esq....	5	4 7	527	22·20	159
Ketton Vicarage	Rev. A. Swire	5	0 10	110	22·87	137
Tinwell, South View [Stamford]	H. Edwards, Esq....	5	1 1	...	22·31	158
Burley-on-the-Hill	Mr. W. Temple	8	1 0	506	24·42	118
Tolethorpe Hall [Stamford].....	C. O. Eaton, Esq.	8	0 8	161 †	21·03	123
Market Overton.....	Miss Grace Wingfield...	8	0 11	475 †	24·28	146
Stocken Hall	Capt. P. F. Tillard, R.N.	5	1 0	365 †	25·00	131
LINCOLN.						
Market Deeping (Wilsthorpe) ...	J. C. Gill, Esq., C.E....	8	3 10	55 †	19·89	141
Spalding (Pode Hole)	Mr. W. Grigg	12	1 0	20 †	22·38	...
Grantham (Stainby)	Rev. W. A. H. Thorold	5	0 9	496	22·65	...
„ (Denton Manor)	Sir C. G. E. Welby, Bt. MP	5	1 0	275 †	22·34	163
„ (Little Ponton Rect.)	Rev. P. R. Worsley ...	5	1 0	250 †	24·24	165
„ (Saltersford).....	H. Preston, Esq.	5	0 6	188 †	22·06	141
„ (Guildhall)	F. J. Morris, Esq.	5	13 6	202 †	20·41	121
„ (High Street)	Messrs. R. & W. Bird..	5	1 0	...	21·64	126
Horbling (The Hall)	Mr. C. E. Smith.....	8	1 3	...	21·81	131
Boston (Black Sluice, Skirbeck). ..	H. Clarke, Esq., C.E...	8	1 3	11 †	20·19	129
„ (Grand Sluice)	J. H. Johnson, Esq., C.E.	8	8 0	18	20·43	140
„	W. H. Wheeler, Esq. C.E.	5	6 6	25 †	19·70	107
Sleaford (Rauceby Hall)	Maj.-Gen. M. Willson, CB	5	1 0	125 †	23·34	175
Leake (Lade Bank Engines).....	J. H. Johnson, Esq., C.E.	8	1 0	10 †	21·81	109
Stubton [Newark].....	G. Neville, Esq.	5	4 6	94 †	20·57	144
Fulbeck	Rev. V. F. Willson ...	5	0 8	180 †	21·05	164
Leadenham Rectory	Rev. V. E. Skrine.....	5	0 10	150	22·13	165
Sleaford (Bloxholm)	Mr. W. Lumsden	5	1 6	20	20·83	107
Temple Bruer.....	Miss A. S. Morley	5	1 0	300?	21·72	133
Navenby Rectory	Rev. G. T. Harvey ...	5	1 0	218 †	22·94	139
Carrington Grange	Mr. T. J. Ward	5	6 0	15 †	22·16	125
Carlton-le-Moorland.....	J. Brocklebank, Esq....	5	1 2	49	18·92	126
Kirkstead	Mr. R. H. Brett.....	5	1 3	...	20·96	...
„ (Woodhall Spa)	C. J. Williams, Esq., M.D	5	1 0	37 †	21·20	...
Horncastle (Mareham-le-Fen) ...	The Meteor. Council ...	5	1 5	35	22·04	146
„ (Revesby*)	J. Shaw, Esq.....	5	2 0	135 †	23·58	112
Spilsby (Hagnaby Priory)	Miss Pocklington	8	1 8	47 †	25·41	126
„ (East Keal Manor)	A. M. Wilson, Esq. ...	5	1 0	181 †	25·44	107
„	Dr. J. W. Walker.....	5	1 0	160 †	27·43	164
„ (Boston Road)	Mr. J. J. Rainey	5	1 0	130 †	25·43	164
„ (Hagworthingham)	Mr. R. Wright	5	1 1	252 †	26·23	143
„ (Dalby Grange)	J. H. Wright, Esq. ...	5	1 6	250	27·29	165
Horncastle (Bucknall)	W. Carter, Esq.....	5	1 6	50	21·24	103
Lincoln (Branston)	A. S. Leslie Melville, Esq	5	1 3	122 †	22·82	129
„ (Boultham)	Mr. F. Terrill.....	5	1 0	19 †	24·76	136
„ (St. Botolphs)	A. M. Swift, Esq.	5	1 2	25 †	21·13	100
„ (St. Catherine's)	J. H. Teague, Esq.....	5	5 6	33 †	24·32	...
„ (Doddington)	Rev. R. E. Cole	5	1 2	92 †	22·20	140

* Formerly called Miningsby.

DIVISION VII.—NORTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1901	Days on which -01 or more fell.
		Diameter	Height above Ground.	Height above Sea Level		
			ft. in.	feet	inches.	
LINCOLN—(con.)						
Lincoln (Station)	Gt. Central R. Co.* ...	9	3 6	26	22·36	131
„ (The Close)	C. J. Bromhead, Esq. ...	8	1 0	185	22·11	...
„ (D'Isney Place)	A. H. Leslie Melville Esq. ...	4	1 0	215 L	23·23	160
d „ (Brayford Wharf)	Mr. J. W. Horton ..	5	5 8	28 N	23·06	165
„ (Skellingthorpe Hall) ...	A. H. B. Coupland, Esq. ...	5	1 0	...	21·26	114
d Horncastle (Hemingby)	Rev. E. S. Bengough ..	5	1 0	158	26·34	151
Alford (The Burial Ground).....	Mr. E. Hodgson	5	1 0	29 N	23·16	131
Scampton House	G. E. Sandars, Esq. ...	5	1 11	...	22·04	...
d Aisthorpe Hall	J. Billiat, Esq.	5	1 0	77	24·90	139
Gate Burton	Gt. Central R. Co.	9	3 6	96	24·72	153
d† Louth (Gospelgate)	T. W. Wallis, Esq. ...	5	6 0	111 N	28·02	151
† „ (Westgate)	Dr. F. Fawcett	5	0 9	120 N	28·13	152
d Market Rasen	Mr. W. B. Jevons	5	0 8	84	27·27	120
„ „	Gt. Central R. Co.	9	3 6	100	24·01	139
„ „ (Tealby)	The Meteor. Council ...	5	4 0	251	27·67	145
d Yarborough (The Rectory)	Rev. S. Bateman	5	0 9	42 N	20·70	137
Gainsborough	Gt. Central R. Co.	9	...	76	20·97	150
Stockwith	„ „ „	9	3 6	21	20·63	154
d North Thoresby Rectory	the late Rev. H. Garrett	5	1 0	46 N	23·57	174
Brigg	Gt. Central R. Co.	9	3 6	16	20·25	148
d „	A. Atkinson, Esq., C.E. ...	8	1 2	11 N	27·97	168
Caistor (Cabourne)	Rev. R. Thomas	5	1 2	280 T	27·98	...
d Grimsby (Waltham)	Rev. W. Tuckwell	5	1 0	50	22·61	155
„	Gt. Central R. Co.	9	15 0	42	15·94	122
Barnetby	„ „ „	9	3 6	51	24·37	147
d N. Level Engine [Thorne Donc'st'r]	Mr. J. Turner	5	2 3	...	20·72	149
Crowle (Keadby)	Gt. Central R. Co.	9	...	17	18·48	141
d Burton on Stather Vicarage	Rev. F. A. Jarvis	5	1 6	212 T	23·17	139
d Horkstow	E. J. Turton, Esq.	5	0 10	75	23·60	147
Ferriby Sluice	A. Atkinson, Esq., C.E. ...	5	1 0	18 N	22·45	126
New Holland	Gt. Central R. Co.	9	3 6	18	19·26	151
NOTTS.						
d Kingston Hall [Loughborough]..	Mr. W. English	5	0 8	...	22·51	151
d Plumtree (Normanton-on-Wolds)	T. A. Hill, Esq.	8	1 0	170 T	21·08	175
Cropwell Bishop (Cropwell Grove)	H. Smith, jun., Esq.	5	1 1	160 T	18·52	...
Bingham (Whatton Manor)	M. H. Hall, Esq.	5	3 0	104 T	21·44	150
d Nottingham (Beeston Fields) ...	G. Fellows, Esq.	5	0 9	206 N	24·12	163
d „ (The Castle)	A. Brown, Esq., C.E. ...	8	1 2	192 N	20·44	144
d „ „ „ „	„ „ „ „	8	76 0	268 N	16·99	153
d „ „ (Carisbrook Ho., The Park)	W. Bradshaw, Esq. ...	5	2 0	247	22·92	144
„ „ (Ropewalk „ „)	A. Brown, Esq., C.E. ...	...	1 3	230	21·79	...
Radcliffe-on-Trent	T. Yates, Esq.	5	1 0	...	23·15	124
„ „ „ „ (Chestnut Ho.)	Mr. J. Green	8	2 0	...	21·37	...
d Nttnghm (Stoke Bardolph Sew Fm)	Mr. A. A. Avis	8	10 0	83	21·04	140
d „ (Strelley)	T. L. K. Edge, Esq. ...	8	1 0	396 N	23·67	161
d „ „ „ „ (Hall)	„ „ „ „	5	1 0	379 N	23·34	152

* Kept for the Canal Department of the Great Central Railway Company. Returns supplied by G. Taylor, Esq.

DIVISION VII.—NORTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea level	1901	
			ft. in.	feet.	inches.	
NOTTS—(con.)						
Nottingham (Strelley Hall) ...M	T. L. K. Edge, Esq. ...	5	1 0	379	24·06	...
D „ (Mapperley Hill) ...	E. Powell, Esq.	8	0 10	400	23·02	137
D „ (Bassford)	S. Moore, Esq.	8	0 10	169	22·49	140
D „ (Burton Joyce W. W.)	„ „ „ „	8	0 9	64	22·13	166
Bulwell (Springfield)	G. W. Walker, Esq.	5	0 9	166	26·01	...
D „ (Bestwood)	S. Moore, Esq.	8	1 5	317	23·09	147
D Eastwood Colliery	Mr. E. Lindley	5	1 0	245	29·17	147
D Hucknall Torkard (Forge Mills)	J. D. Walker, Esq.	5	1 0	200	24·04	173
D† Gonalston Rectory	Rev. F. H. Paley	5	1 0	70	23·54	161
Southwell (Oxton Hall)	Captain Sherbrook	5	0 9	182	23·59	119
D Papplewick (Water Works)	S. Moore, Esq.	8	0 10	317	25·95	157
D „ Hall	F. A. Smith, Esq.	5	0 7	321	28·50	125
Annesley (Selston W. W.)	Messrs G. & F. W. Hodson	5	1 0	475	26·71	156
Southwell (Westhorpe Hall) ...	Genl. Warrand	5	1 0	147	21·96	...
D† Farnsfield	Dr. C. Wills	5	1 0	210	23·75	156
Sutton-in-Ashfield W. W.	Messrs G. & F. W. Hodson	5	1 1	462	27·12	129
Mansfield (W. W. Rainworth) ...	„ „ „ „	5	1 0	360	28·27	136
„ „ „ „	Mr. P. J. Shacklock ...	5	1 6	350	32·24	184
North Collingham	E. Turton, Esq.	5	1 0	...	21·07	...
D South Searle	Rev. E. C. Shawfield ...	5	1 4	52	20·39	126
D Ollerton (Boughton W. W.)	S. Moore, Esq.	8	0 7	141	21·58	170
D Worksop (Welbeck Gardens) ...	T. Warner Turner, Esq. ...	5	1 0	196	24·41	122
„ „ „ „	Gt. Central R. Co.	9	3 6	127	23·23	155
D „ (Osberton Gardens) ...	Mr. W. Allsop	5	4 0	70	22·93	140
Retford	Gt. Central R. Co.	9	3 6	52	20·34	150
D „ (Morton Hall)	W. H. Mason, Esq. ...	5	1 0	140	22·28	142
„ „ (Babworth Hall)	Col. Denison	5	1 0	92	18·53	...
D Worksop (Hodsock Priory)	H. Mellish, Esq.	8	1 0	56	22·31	164
„ „ „ „ „ „ „ „	„ „ „ „ „ „ „ „	5	1 0	56	21·81	...
The Gardens [Bawtry Hall] ...	L. T. Baines, Esq.	5	1 3	31	22·90	...
D Hesley Hall [Tickhill]	B. I. Whitaker, Esq.	8	0 11	61	20·11	149
DERBY.						
D Melbourne Vicarage	Rev. Canon Singleton ..	5	1 0	177	26·87	149
D „ (The Hollow)	Mr. W. Garratt	5	1 0	182	22·58	116
D Chellaston	H. Chambers, Esq.	5	1 0	170	23·97	169
Willington (S. & A. W. W. Milton)	Messrs G. & F. W. Hodson	5	1 0	134	23·92	127
Findern (The Longlands)	Rev. B. W. Spilsbury ..	5	0 9	186	21·70	...
D Etwall (Blakeley Lodge)	Mr. R. Giles	5	1 0	190	21·45	118
Mickleover (County Asylum) ...	R. Legge, Esq., M.D. ...	5	0 9	300	24·61	150
D „ Manor	Mr. J. Campbell	5	2 0	280	23·56	110
Derby (Wild Street)	Messrs. J. Davis & Son	5	1 0	174	27·46	170
D „ (Midland Railway)	W. Langdon, Esq.	5	1 5	156	23·54	171
„ „ (Royal Infirmary)	W. G. Carnt, Esq.	5	0 9	195	26·23	187
D „ (Arboretum)	J. Ward, Esq., C.E. ...	8	1 0	196	24·56	159
D „ (Duffield Road)	Dr. Copestake	5	8 0	192	23·91	137
D Breadsall Lodge	Miss Thompson	5	1 3	280	25·21	185
D „ Priory	A. Victor Haslam, Esq. ...	5	1 6	380	27·15	159

DIVISION VII.—NORTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which 101 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
				ft. in.	feet.		1901 inches.
DERBY—(con.)						
Breadsall Priory	M A. Victor Haslam, Esq.	5	1 6	380 π	26·03	...
Duffield (Castle Hill House).....	Messrs. J. Davis & Son	...	...	...	27·42	160
Hazelwood (Chevin) ...	Sir J. G. N. Alleyne, Bart.	5	4 0	503 π	25·73	173
D Ashbourne Water Works.....	Mr. J. W. Twigg	5	1 0	582 π	32·67	187
D Belper (Quarry Bank)	J. Hunter, Esq., C.E.	5	0 8	244 π	30·35	152
D „ (Highfield)	M. Hunter, Esq.	8	0 8	310 π	29·87	163
D Codnor (Cross Hill)	A. F. Pine, Esq.	5	0 10	372 π	25·57	133
D Alderwasley	<i>old g.</i> A. F. Hurt, Esq.	5	5 5	541 π	33·62	133
D „	<i>new g.</i> „ „	5	1 0	537 π	35·29	133
† Matlock Bath	Mrs. Chadwick	5	1 6	500 \uparrow	31·09	...
„ „	„ „	5	1 1	500	33·66	...
D † „ (The Gables)	Mrs. Wildgoose	5	1 0	459 \uparrow	35·03	187
Darley Dale (Whitworth Inst.)..	Whitworth Inst. Trustees	5	1 8	360 π	35·28	...
D † „ Hall.....	A. Clay, Esq.	5	1 0	400 \uparrow	33·01	184
D Stretton (Lindway Res.)	Mr. C. Peers	5	4 3	447 π	21·10	139
Hardwick Hall	Mr. Wilson	8	2 6	594 \uparrow	31·90	138
D Grassmoor Colliery	Mr. J. Norman	5	19 10	370 π	17·46	129
D Chatsworth Gardens	W. Chester, Esq.	8	5 5	404 \uparrow	31·19	183
† Chesterfield (Gas Works)	Chesterfield Corporation	5	1 0	279	27·33	128
„ „	Gt. Central R. Co.	9	3 6	251	27·61	151
† „ (Linacre Reservoir) <i>old g.</i>	Chesterfield Corporation	8	1 0	490	31·69	161
„ „ „ <i>new g.</i>	„ „	5	1 0	490	30·68	161
D „ (Tapton Grove).....	Mr. Bloxham	5	3 3	400	23·18	129
Buxton (Devonshire Hospital)...	The Royal Meteor. Soc.	5	1 0	988	53·30	225
„ (Portobello Bar)	W. H. Grieves, Esq. C.E.	8	1 0	1600 π	53·78	211
„ (Lightwood).....	„ „	8	...	...	43·44	...
„ (Stanley Moor)	„ „	8	1 0	1340 π	52·29	210
„ (Burbage Edge)	„ „	8	1 0	1400 π	51·62	214
D Tideswell (Sterndale Ho., Litton)	W. F. Jackson, Esq. C.E.	5	4 6	999 π	34·28	167
† Comb's Moss	Gt. Central R. Co.	9	3 6	1669 \uparrow	29·70	...
† „ Reservoir	„ „	9	3 6	710 \uparrow	33·08	199
† Chapel-en-le-Frith	„ „	9	3 6	965 \uparrow	33·21	199
D Totley Hall.....	W. A. Milner, Esq.	5	1 0	700	34·64	134
† Killamarsh (Norwood)	Gt. Central R. Co.	9	3 6	238 \uparrow	25·41	170
Norton [Sheffield]	Col. Creswick	6	0 8	700	29·70	182
Ernocroft [Compstall]	G. H. Hill, Esq., C.E.	5	1 6	310 π	28·80	...
D Glossop Hall	Lord Howard of Glossop	8	1 5	533 \uparrow	40·42	187
„ (Corporation W.W.) ...	Mr. J. Garner	12	4 6	733 π	33·85	...
Woodhead Station.....	Gt. Central R. Co.	9	3 6	878 \uparrow	44·69	204

DIVISION VIII.—NORTH WESTERN COUNTIES.

CHESHIRE.

D Audlem Vicarage	Rev. J. S. Cotton	5	1 4	200	29·82	155
D Baddiley (Nantwich W. W.) ...	Baldwin Latham Esq. C.E.	5	1 0	231	25·81	129
D Nantwich (Dorfold Hall)	J. A. Saner, Esq., C.E.	8	1 6	190	26·35	157
D „ (Reaseheath Hall) ...	„ „ „	8	1 0	130	28·57	17

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1901	Days on which 61 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
CHESHIRE—(con.)						
d Sandbach (Malkins Bank)	MssrsBrunnerMond&Co	5	3 8	244	24·49	171
Aldford (Woodhouse)	W. H. Phillips, Esq....	5	1 1	43	26·75	165
Eccleston	E. Wells, Esq.	5	1 1	94	27·80	175
" Rectory	A. G. Robins, Jun.,Esq.	5	6 0	83	26·50	182
d Congleton (Buglawton Vic.).....	Rev. W. Besant	8	5 0	352	28·58	176
Bosley Reservoir	Gt. Central R. Co.....	9	3 6	590	28·54	187
" Minns	" " " "	9	3 6	1210	26·13	197
d Chester (Christleton Hall)	Mr. T. Weaver	5	1 2	142	26·05	184
" (Water Works)	A. Bell, Esq.	5	0 10	85	31·15	...
" (Northgate Station).....	Gt. Central R. Co.....	9	3 6	84	27·42	142
d " (Parkgate Road)	Rev. J. C. Mitchell	5	1 0	60	28·34	182
d† " (The Nurseries)	Messrs. Dicksons	5	1 0	62	27·07	160
d " (Hoole Lodge)	Lt.-Col. J.H.Hamersley	5	1 0	108	27·31	193
d Middlewich.....	MssrsBrunnerMond&Co	5	3 10	138	23·77	173
" (Bostock Hall)	Col. France Hayhurst..	5	2 6	157	26·60	134
d Macclesfield (The Park)	Mr. J. Dale.....	5	1 0	501	30·36	178
"	Gt. Central R. Co.	9	3 6	539	33·99	186
d Chelford (Astle Hall)	G. Dixon, Esq.	5	1 0	250	27·68	177
" " ")	" " " "	8	1 0	250	26·96	...
Northwich	Gt. Central R. Co.....	9	3 6	76	22·09	142
d " (Highfield)	J. A. Saner, Esq., C.E..	8	3 4	118	26·54	190
d " (") Snowdon	" " " "	8	1 0	115	26·73	190
d " (Winnington).....	MssrsBrunnerMond&Co	5	3 8	80	25·70	181
d Macclesfield (Swanscoe Park) ...	T. C. Horsfall, Esq. ...	5	1 0	676	31·75	197
d*Neston (Hinderton) ..	Reginald Bushell, Esq.	5	1 0	215	27·16	186
* " ")	" " " "	8	1 0	215	27·26	...
* " " Lodge) ...M	" " " "	5	1 0	145	26·37	...
d Hooton Grange	W. H. Jones, Esq.....	5	1 0	110	29·18	167
d Wilmslow (Parksyde)	E. Pearson, Esq.	8	1 0	253	27·09	173
" (Poplar House)	J. Holden, Esq.	5	1 0	237	25·59	162
†Whaley	Gt. Central R. Co.....	9	3 6	602	37·68	183
Disley (Lyme Park).....No. 1	T. Molyneux, Esq.....	9	3 8	720	46·12	149
d " " ").....No. 2	" " " "	12	2 9	674	28·62	151
d Runcorn (Weston Point)	J. A. Saner, Esq., C.E.	8	2 4	18	30·29	148
d West Kirby (Caldy Manor)	Mr. W. Neish.....	5	1 0	129	26·49	164
d " (Greenfield)	H. Bell, Esq.....	5	1 0	75	25·31	185
d Bowdon (Erlesdene)	E. J. Sidebotham, Esq.	5	1 0	211	26·64	181
" ")	" " " "	5	1 0	211	27·28	...
d Thelwall (Millington House) ...	L. W. Reynolds, Esq..	5	1 0	85	27·80	173
Altrincham (Norman's Place)....	A. Griffiths, Esq.	5	8 0	150	28·69	157
" (Barrington House).	C. E. Newton, Esq., C.E.	8	3 0	105	26·04	...
d Cheadle (Harthill).....	R. A. Grundy, Esq. ...	5	1 0	142	27·90	171
d Hoylake (The Chase, East)	J. F. Leigh Clare, Esq.	5	1 0	29	21·13	159
" (District Council Office)	T. Robinson, Esq.	5	1 0	33	24·99	183
Birkenhead (Oxton)	W. Oelrichs, Esq.	5	...	...	24·85	...
† " (Bidston Obs.)	W. E. Plummer, Esq..	8	1 0	189	25·19	190
d Northenden (Wythenshaw).....	T. E. Tatton, Esq. ...	5	1 0	114	25·77	183
" ")	" " " "	8	1 0	114	24·94	183

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1901	Days on which -01 or more fell.
		Diameter	Height Above Ground.		Height Above Sea Level	
			ft.	in.	feet.	inches.
CESHIRE—(con.)						
Marple Top Lock	Gt. Central R. Co.	9	3	6	523 T	27·44 168
" Aqueduct	" " "	9	3	6	321 T	26·25 168
D New Brighton (Rutland House)..	W. Bell, Esq., C.E..	5	1	0	130 B	24·66 146
Godley Reservoir	G. H. Hill, Esq., C.E..	12	2	0	500	28·49 ...
Newton	Gt. Central R. Co.....	9	3	6	396 T	27·45 174
Mottram Station.....	" " "	9	3	6	452 T	25·28 152
" (Hill End)	" " "	9	3	6	680 T	31·02 172
D Broadbottom (Harewood Lodge).	Col. Sidebottom	5	1	0	440	31·25 150
D Hadfield (Millbrook).....	Mr. S. H. Doxon	8	3	10	442 T	34·32 172
" " "	" " "	12	4	0	442 T	34·82 172
Arnfield Reservoir.....	G. H. Hill, Esq., C.E..	12	2	6	550	35·35 ...
†Rhodes Wood Reservoir	" " "	12	1	0	520	37·44 ...
†Torrside Reservoir.....	" " "	12	1	6	680	39·39 ...
Staleybridge (Swineshaw).....	" " "	8	3	0	884 T	39·83 ...
†Woodhead Reservoir.....	" " "	12	0	10	660	42·57 ...
LANCASHIRE.						
D Garston (Grassendale Park).....	Miss E. C. Abraham ...	5	1	0	35 T	26·33 181
D Aigburth (Kelton).....	J. Sing, Esq.	5	1	0	150 T	27·66 185
D " (Holmfield)	Miss Maxwell	5	1	0	100 T	26·25 191
D Warrington (Howley)	T. Longdin, Esq.	10	0	10	19 T	27·17 178
" (Central Station) ...	Gt. Central R. Co.....	9	3	6	59 T	25·15 153
D " (Training College) ...	Miss F. G. Timewell ..	8	0	9	34 T	26·01 167
D Liverpool (St. John's Gardens) ..	J. A. Brodie, Esq., C.E.	9	2	3	48 T	25·44 177
" " " " " " " " " " " "	" " " " " " " " " "	5	0	9	47 T	25·60 176
" (Smithdown Road) ...	" " " " " " " " " "	10	0	9	135 T	25·42 164
" (Rathbone Road)	" " " " " " " " " "	10	1	0	199 T	28·05 171
D " (Hope Street)	George Jevons, Esq. ...	5	1	6	...	25·60 158
" (Huyton Vicarage) ...	Mrs. E. M. Sanderson..	5	0	11	116 T	30·32 204
" (Newsham Park)	J. A. Brodie, Esq., C.E.	10	1	0	140	27·70 177
" (Breeze Lane)	" " " " " " " " " "	5	0	9	135 T	26·26 179
" (Huskisson Station) ...	Gt. Central R. Co.....	9	3	6	40 T	24·89 181
D Heaton Mersey [Stockport]	W. B. Leigh, Esq.....	5	3	11	218 T	25·16 175
D Heaton Moor [Stockport]	Dr. F. W. Jordan	5	1	0	235	27·70 188
D Manchester (Withington) No. 1	J. King, jun., Esq. ...	5	1	3	110 T	26·36 173
D " " " " " " " " " " " "	" " " " " " " " " "	8	1	6	110 T	25·86 173
D " " " " " " " " " " " "	J. H. Casartelli, Esq...	5	1	7	120 T	26·15 164
D " (Stretford)	H. Royle, Esq., C.E..	5	1	0	86 T	27·05 181
" (Urmston Sewage Works)	Mr. Ogden	8	2	3	72 T	26·05 173
D " (Lady Barn, Fallowfield)	Miss C. Herford.....	5	1	0	122 T	26·95 187
Denton Reservoir	G. H. Hill, Esq., C.E..	12	2	0	324 T	26·68 ...
Gorton.....	" " " " " " " " " "	12	2	0	263 T	26·33 ...
D Manchester (Plymouth Grove)...	J. F. Roberts, Esq. ...	5	4	2	150 T	27·34 160
† " (Piccadilly)	Gt. Central R. Co.....	9	4	0	194 T	25·31 145
" (Fairfield)	" " " " " " " " " "	9	6	0	312 T	28·17 179
D " (Oldham Road)	Dr. J. Niven	5	1	0	191 T	29·54 172
Eccles (Worsley New Hall)	Mr. W. B. Upjohn ...	8	8	0	100 T	25·20 142
D " (Worsley Old Hall)	W. Bourke, Esq., C.E.	5	1	0	185 T	29·41 169

DIVISION VIII.—NORTH 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	1901	
			ft in.	feet.	inches.	
LANCASHIRE—(con.)						
Blundellsands (Park Corner) ...	T. M. Reade, Esq. C.E.	5	1 0	33 ∇	23·16	159
D Manchester (Cheetham Hill).....	WB Worthington Esq CE	5	1 0	264 ∇	32·27	181
Ashton (Waterhouses)	Gt. Central R. Co.....	9	3 6	345 ∇	34·27	183
Prestwich Asylum.....	The Meteor. Council ...	8	1 0	295	33·32	184
„ Reservoir	G. H. Hill, Esq., C.E....	12	2 0	356 ∇	29·21	...
† Oldham (Gas Works)	„ „ „ „	5	4 0	600 ∇	34·60	...
„ (Honeywell Lane)	Gt. Central R. Co.....	8	...	553	32·53	191
„ (Brushes Clough) <i>old g.</i>	C. J. Batley, Esq., C.E.	5	4 0	930 ∇	39·54	185
„ („ „) <i>new g.</i>	„ „ „ „	5	5 0	955 ∇	40·07	185
D Ormskirk (Aughton Springs) ...	C. E. Maples, Esq. ...	5	1 0	138 ∇	26·02	179
D Wigan Waterworks	W. Bolton, Esq.....	8	1 6	225 ∇	29·52	183
D Downholland (Barton Moss).....	J. Baxendell, Esq.....	5	0 9	14 ∇	25·35	180
D Bolton (The Park)	W. W. Midgley, Esq....	5	1 0	390 ∇	36·68	196
„ (Heaton)	RHSwindlehurst Esq CE	5	1 3	520	34·53	216
D „ (Ash Lawn, Heaton). ...	F. Taylor, Esq.	5	1 0	406	37·23	193
D „ (Moss Bank)	Col. R. H. Ainsworth...	8	1 6	536 ∇	41·12	181
D „ (Smithills Hall)	„ „ „ „	8	1 2	510 ∇	40·07	184
D† Milnrow (Piethorne, Kitcliffe)...	C. J. Batley, Esq., C.E.	5	4 6	767 ∇	37·99	178
„ („ „ Coldgreave)	„ „ „ „	5	4 2	894 ∇	35·87	175
„ („ „ Norman Hill)	„ „ „ „	5	4 6	1096 ∇	31·47	167
„ („ „ Rooden Res.)	„ „ „ „	5	4 6	1131 ∇	31·41	168
† Rochdale (Deeplish Hill)	J. H. Lancashire, Esq.	5	1 0	475 ∇	33·76	189
D† „ (Park Observatory) ...	Dr. Henry	8	0 6	472	38·68	199
D† „ (Fieldhead)	S. S. Platt, Esq., C.E..	8	12 0	484 ∇	36·90	180
D „ (The Crescent)	Dr. T. H. Hayle	5	40 5	513 ∇	34·44	218
„ (Ashworth Moor)	J. Diggle, Esq., C.E....	5	1 6	907 ∇	38·01	181
† Bury (Gin Hall)	J. Cartwright, Esq. ...	8	1 0	475	33·55	155
† „ („ „)	„ „ „ „	8	1 0	475	33·56	155
Ormskirk (Rufford)	G. Hobkirk, Esq.	5	0 8	39 ∇	27·17	...
Bolton (Belmont)	RHSwindlehurst Esq CE	5	0 9	800	45·40	193
D Southport (Birkdale).....	J. Baxendell, Esq.....	5	1 0	27 ∇	28·21	186
D Rochdale (Nayden Dean Filters).	J. Diggle, Esq., C.E....	5	1 8	761 ∇	41·23	171
† „ („ „) <i>old g.</i> ...	„ „ „ „	5	1 7	948 ∇	34·67	...
† „ („ „) <i>new g.</i> ...	„ „ „ „	5	1 3	948 ∇	36·76	...
D† „ (Spring Mill Whitworth)	W. Tomlinson, Esq. ...	8	1 7	720	43·42	169
D† „ (Cowm, „ „)	„ „ „ „	8	1 7	760	43·24	170
D† „ (Facit)	T. S. Smithson, Esq....	5	0 6	855 ∇	44·15	204
Southport (Hesketh Park).....	M J. Baxendell, Esq. ...	5	1 0	38 ∇	26·71	...
D „ („ „) <i>M.O.g.</i>	„ „ „ „	8	1 0	38 ∇	26·69	163
„ (Lord Street Station).	Gt. Central R. Co.	9	3 6	21 ∇	24·73	150
D „ (Park Crescent)	J. Watkins, Esq.	5	1 0	30 ∇	28·45	174
Entwistle	RHSwindlehurst Esq CE	5	1 0	700	45·76	173
Blackstone Edge (Hollingworth)	Rochdale Canal Compy†	10	1 5	650	32·20	...
† „ „ (Canal Summit)	„ „ „ „	10	1 10	700	29·30	...
† „ „ (Chelburn) ...	„ „ „ „	10	1 3	800	32·20	...
„ „ (Lenches)	„ „ „ „	10	1 10	800	35·90	...
D† „ „ (Calf Lee)	„ „ „ „	10	1 6	960	32·41	140

† Returns supplied by C. R. Dykes, Esq.

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1901	Days on which 0.1 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
LANCASHIRE—(con.)						
Chorley (Crooke Hall)	Carlton Cross, Esq. ...	5	2 6	265 T	30.37	149
† Todmorden W.W. (Ramsden Moor) ..	W. Tomlinson, Esq. ...	5	1 0	1326 T	41.13	...
d † " " (" Res.) ..	" " "	8	1 0	980 T	43.46	219
Haslingden (Holden Wood)	J. Cartwright, Esq. ...	8	1 0	670	42.28	186
" (Calf Hey)	" " "	8	1 0	800	38.30	185
d " (Hazelwood)	Dr. Harrison	5	1 9	830 T	45.59	140
" (Springfield Lodge) ..	J. Stott, Esq.	5	1 0	770	40.68	...
d " Vicarage	Rev. A. Spencer	8	1 6	820 T	43.02	182
" (Mitchells House Res.) ..	C. Harrison, Esq.	5	1 6	990	37.28	148
Over Darwen (Sunnyhurst Hey.) ..	R. W. S. Saville, Esq. ..	8	1 8	915 T	30.06	170
" " (Earnsdale Res.)	" " " "	8	1 8	705 T	32.49	170
" " (Hoddlesden) No.1 ..	W. Stubbs, Esq., C.E. ..	8	4 0	680	45.44	...
" " (Daisy Green) No.1 ..	" " " "	8	1 0	969	39.74	...
" " (Pickup Bank) No.1 ..	" " " "	8	1 0	720	37.30	...
Rawtenstall Cemetery	A. W. Lawson, Esq., C.E. ..	8	1 0	572	43.84	175
d Todmorden (Scaitcliffe)	W. Ormerod, Esq.	8	1 0	468 T	46.77	184
Blackburn (Guide Reservoir) ...	W. Stubbs, Esq., C.E. ..	8	1 0	650	30.94	...
" (Witton)	" " " "	8	2 6	315 T	34.97	...
" (Store Yard)	" " " "	8	30 0	373 T	29.84	...
" (Water Works Office) ..	" " " " .....	...	60 0	436 T	25.36	...
" (Corporation Park) ...	" " " "	5	0 6	584 T	34.51	...
" (Pumping Station) ...	" " " "	8	6 0	600 T	33.83	...
Accrington (Milnshaw Park) ...	Mr. R. Carr	5	1 6	464 T	34.89	...
† Rawtenstall (Cloughbottom Res.) ..	J. Cartwright, Esq. ...	8	1 0	1025	35.46	156
† " (Clough Bridge Res.) ..	" " " "	8	1 0	900 T	37.42	201
d Preston (Corporation Offices) ...	T. Cookson, Esq.	8	18 0	148	29.08	162
Burnley Waterworks { † Causeway Side	W. Williamson, Esq. ..	8	2 0	1116	35.12	...
{ † Sheddin	" " " "	8	2 0	960	35.26	...
{ † Cant Clough, S. Side	" " " "	8	2 0	900	35.29	195
{ † " " N. Side	" " " "	8	2 0	900	32.56	195
{ † Rams Clough Head	" " " "	8	2 0	1260	34.65	...
Rishton Reservoir	Leeds & L'pool Canal Co. ...	...	...	467	27.44	...
Huncoat (Burnley Road Res.) ...	C. Harrison, Esq.	9	1 6	620 T	33.22	158
† Burnley (Yorkshire Street)	W. Williamson, Esq. ...	8	30 0	420 T	35.93	185
† " (Swinden, Upper)	" " " "	8	12 0	820 T	35.95	204
† " (" Lower)	" " " "	8	2 0	745 T	37.84	204
† " (Extwistle Moor)	" " " "	8	2 0	1310 T	37.70	...
" (Gawthorpe Hall)	A. Ford, Esq.	8	1 3	316 T	36.41	145
d Preston (Haighton)	J. J. Myres, Esq., C.E. ..	5	1 2	255 T	31.80	152
Alston	T. Cookson, Esq.	8	1 2	320 T	32.78	...
Kirkham (Weeton)	C. Arthur, Esq.	10	1 0	95 T	32.79	...
d Barton (Anderton Fold)	W. H. Mason, Esq. ...	5	0 6	90 T	31.68	175
d Blackpool Hospital	F. J. H. Coutts, Esq.	5	1 0	59 T	30.48	195
Nelson (Coldwell Reservoir)	C. E. Newton, Esq., C.E. ..	8	2 0	950 T	26.81	...
Worthdale (Watersheddles)	W. H. Hopkinson, Esq. CE ..	5	1 0	1115 T	55.10	...
Stonyhurst College	Rev. W. Sidgreaves ...	11	1 0	376 T	38.97	185
d " "	" " " "	11	1 10	377 T	38.97	185

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	1901	
			ft. in.	feet.	inches.	
LANCASHIRE—(con.)						
Stonyhurst College	M Rev. W. Sidgreaves	11	1 0	376 ∇	38·22	...
Preston W. Works. { Knowle Green	M T. Cookson, Esq.	8	1 2	400 ∇	32·73	...
{ Loud-scales	M " " "	8	1 2	400 ∇	33·49	...
{ Spade Mill	M " " "	8	1 2	400 ∇	33·02	...
{ Jeffrey Hill	M " " "	8	1 2	900 ∇	35·82	...
d St. Michael's-on-Wyre Vic.	Rev. P. J. Hornby	5	1 0	26 ∇	30·19	170
d Beaton Fell (Barnsfold Res.) ...	J. J. Myres, Esq., C.E.	5	1 6	506 ∇	27·65	154
" " " " " " M	" " " " " " " " " " " "	5	1 6	506 ∇	27·65	...
Barrowford Reservoir	Leeds & L'pool Canal Co.	8	1 0	473	34·88	...
Foulridge (Canal Office)	" " " " " " " " " " " "	8	1 0	497	35·93	...
" (Cragg Nook Hill) ...	" " " " " " " " " " " "	8	1 0	690	32·61	...
" (Upper Reservoir) ...	" " " " " " " " " " " "	8	1 0	582	33·22	...
d Garstang (Bruna Hill)	Sydney Wilson, Esq.	5	1 0	90 ∇	30·25	168
Clitheroe (Downham Hall)	R. Assheton, Esq.	10	1 6	464 ∇	35·21	...
d Chatburn (Middlewood)	W. K. Wilkinson, Esq.	5	1 3	363 ∇	36·79	120
Garstang (Fairsnape Fell)	Messrs. A. & S. Wilson	5	1 0	1630 ∇	61·49	...
" (Holme Ho., Bleasdale)	" " " " " " " " " " " "	5	1 0	650 ∇	42·71	...
" (Barnacre Reservoir)	C. Arthur, Esq.	5	1 0	617 ∇	35·35	...
" (Grizedale Reservoir)	" " " " " " " " " " " "	5	1 0	519 ∇	32·47	...
" (" Stake House)	" " " " " " " " " " " "	5	1 0	775	36·98	...
d Fleetwood	M. S. Gaultier, Esq.	5	1 4	30	29·24	154
Pilling (Smallwood Hey)	M Mr. J. H. Curwen	5	0 9	12 ∇	29·94	...
d Garstang (Forton)	J. H. Bonny, Esq.	5	1 6	65 ∇	30·18	175
Wyresdale (Abbeystead)	J. Cook, Esq., C.E.	8	1 0	366 ∇	35·01	137
d Hampson-in-Ellel	W. G. Welch, Esq.	5	1 6	145 ∇	29·65	175
Quernmore (Old Gauge Basin) M	J. Cook, Esq., C.E.	8	1 0	963 ∇	34·28	...
Wyresdale (Wardstone)	M " " " " " " " " " " " "	8	1 0	1440 ∇	53·68	...
Quernmore (Brow Top)	" " " " " " " " " " " "	8	1 0	552 ∇	33·93	154
d Heysham House	Miss Tomlinson	5	1 6	80	36·54	178
Lancaster (Blea Tarn Reservoir) ..	J. Cook, Esq., C.E.	8	1 0	330	28·33	160
d " (Greg Observatory) ...	W. French, Esq.	8	1 0	312	33·89	185
Caton (Escowbeck)	A. Greg, Esq.	12	1 6	150 ∇	31·38	175
d Morecambe	Mr. T. B. Lamb	8	1 0	24 ∇	28·04	136
d Wray Vicarage	Rev. C. L. Reynolds	5	1 0	165 ∇	34·36	169
d Bolton-le-Sands	Rev. A. R. Tomlinson	5	1 0	60 ∇	29·53	134
Melling (Hornby Castle)	Col. Foster	8	1 8	100	36·54	143
Barrow-in-Furness	W. Fergusson, Esq.	11	1 6	36 ∇	33·64	162
Arkholme (Storrs Hall)	F. F. Pearson, Esq.	5	1 0	220	32·89	...
d Yealand Conyers	W. O. Roper, Esq.	5	1 0	250	34·29	179
Silverdale	Mr. T. R. Taylor	8	1 0	120	32·91	157
d Ulverston (Urswick)	Rev. R. B. Billinge	5	1 6	124	40·90	186
d Lindal (Berkune Mines)	F. A. Ainslie, Esq.	5	8 0	215 ∇	35·18	154
d Cartmel (Carke)	Mr. W. R. Nash	5	1 0	75 ∇	33·53	167
d† " (Holker)	VCW Cavendish Esq MP	8	4 8	155 ∇	35·24	165
d Grange-over-Sands (Belmont) ...	Dr. W. M. Burman	5	1 0	180 ∇	36·90	177
d " " " (Eggerslack)	Miss Arkwright	5	2 6	140 ∇	39·90	184
d† Ulverston (Poaka Beck)	W. Fergusson, Esq.	11	1 6	512 ∇	44·95	215
Cartmel (Pit Farm)	Mr. W. R. Nash	5	1 0	122 ∇	35·17	...

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which "01 or more fell.
		Diameter	Height Above Ground.	Height Above SeaLevel	1901	
LANCASHIRE—(con.)			ft.	in.	feet.	inches.
Cartmel (Aynsome)	JStewart RemingtonEsq	8	2	0	125	38.50
„ (Broughton Hall)	Col. Ainsworth	5	2	8	225	38.02
Colton	Rev. A. Christopherson	5	1	0	226	46.77
„M	„ „ „	8	1	0	226	46.55
d Finsthwaite Vicarage	Rev. S. Inman	8	1	2	250	48.61
d Broughton-in-Furness	C. Chambers, Esq.....	5	1	3	101	48.62
d Blawith Vicarage	Rev. J. Ashburner.....	5	0	10	185	50.78
d Cartmel Fell Vicarage	Rev. W. Summers.....	5	2	3	220	47.82
Hawkshead(TowerBank,Sawrey)	Major Alcock-Beck ...	5	1	0	342	59.73
„ (Esthwaite Lodge)...	„ „ „	5	3	6	232	61.23
„ („ StricklandEase)	„ „ „	5	3	6	254	51.39
d†Duddon Valley (Seathwaite Vic.)	Rev. S. R. M. Walker.	5	1	0	330	73.64
†Monk Coniston Park	Mr. W. G. Wilson.....	5	1	2	305	73.14
d Hawkshead (Black Fell)	M S. A. Marshall, Esq....	5	1	6	1055	58.95
d Skelwith Fold [Ambleside]	„ „ „	5	1	0	333	70.60
„ „ [„] ...M	„ „ „	5	1	0	333	69.16

DIVISION IX.—YORKSHIRE.

WEST RIDING.

† Sheffield (Brincliffe Edge)	Gt. Central R. Co.	9	3 6	336	29.43	177
D „ (Stumperlow Hall) ...	H. J. Dixon, Esq.	5	1 0	700	33.27	185
D† „ (Redmires Res.)	L.S.M. Marsh, Esq., C.E.	10	5 0	1110	37.02	176
„ („ „) weekly	J. „ Dixon, „	8	4 0	1110	36.40	...
D „ (Tylecote, Ranmoor) ...	J. Dixon, Esq.	5	1 0	610	31.35	160
D „ (Rivelin)	L.S.M. Marsh, Esq., C.E.	10	4 0	564	31.52	158
„ („) weekly	„ „ „	8	4 0	564	31.45	...
D† „ (Crookes)	„ „ „	10	2 0	629	26.78	147
† „ („) weekly	„ „ „	8	2 0	629	26.82	...
D „ (West Street)	C. J. Barker, Esq.	8	32 0	336	25.31	156
D „ (Weston Park)	E. Howarth, Esq.	8	1 0	430	27.99	165
† „ (Victoria Station)	Gt. Central R. Co.	9	3 6	188	23.33	141
D Rotherham (Ulley Res.)	G. W. Jennings, Esq. ...	5	1 0	184	19.72	122
Sheffield (Tinsley Locks)	Gt. Central R. Co.	9	...	117	21.84	154
D Tickhill (Sandbeck Park) ...	Mr. G. Summers	8	1 0	150	22.30	147
† Rotherham (Moorgate Grange) ...	C. E. Chrimes, Esq. ...	5	1 0	262	24.03	...
„ (Thrybergh)	W.H.R. Crabtree Esq CE	8	1 0	184	22.14	163
D Tickhill	G. G. Phillips, Esq. ...	8	1 0	61	20.12	149
D Sheffield (Chapelton)	Mr. D. Bell	8	5 0	582	25.35	159
Doncaster (Firsby)	W.H.R. Crabtree Esq CE	8	1 3	189	23.84	163
D „ (Wadworth Hall)	Rev. J. C. Ross	8	1 0	190	23.02	171
D Bolsterstone (Waldershaigh) ...	the late C.M. Wilson Esq	8	3 1	950	28.20	160
D Wentworth Woodhouse	Mr. J. Hughes	5	0 10	360	25.22	149
D Mexborough	G Fenwick Carter Esq CE	5	2 0	198	21.47	157
Wortley	Gt. Central R. Co.	9	3 6	548	24.80	162
Elsecar	„ „ „	9	3 6	181	20.45	121

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	1901	
			ft. in.	feet.	inches.	
WEST RIDING—(con.)						
†Langsett Moor (Pike Lowe).....	J. H. Taylor, Esq., C.E.	5	1 0	1358 T	47·38	...
† „ „ (Ewden Height). „ „ „	„ „ „	5	1 0	1099 T	39·10	...
† „ „ (Range Moor) ... „ „ „	„ „ „	5	1 0	1040 T	45·19	...
D† „ „ (Upper Midhope) „ „ „	„ „ „	5	1 0	912 T	39·21	183
D Langsett.....	W. Watts, Esq., C.E.	8	4 3	960 T	32·25	147
D „ „ „ „ „ „ „	„ „ „ „ „ „ „	8	4 9	802 T	30·05	147
D Hoyland (King Street).....	J. W. Wilson, Esq. ...	5	1 0	330 T	23·40	161
D Wath-upon-Deerne (Chapel St.)	Dr. F. J. Burman	8	3 0	188 T	23·16	154
Wombwell	G. E. Atkins, Esq.	10	4 6	174 T	22·55	150
Worsborough	Gt. Central R. Co.....	9	3 6	225 T	23·83	149
D Stainborough (Wentworth Castle)	W. Fisher, Esq.....	8	2 6	520 T	28·14	146
Doncaster	Gt. Central R. Co.....	9	3 6	32 T	18·97	143
„ „ (Pumping Station) ...	WHR Crabtree, Esq CE	8	1 2	30 T	22·35	138
D „ „ (Magdalens).....	Mr. C. Parkin	5	4 9	46 T	20·79	132
Dunford Brdg. (Up. Windleden) M	H. Dearden, Esq., C.E.	12	2 2	1100	43·87	...
† „ „ (Dearden Res.) M	„ „ „ „ „ „ „	12	1 6	1244 T	43·00	...
† „ „ Station	Gt. Central R. Co.....	9	3 6	954 T	38·13	164
D† „ „ Reservoir	H. Dearden, Esq., C.E.	12	2 0	1111 T	41·04	193
Greenfield (Chew Mount)	G. H. Hill, Esq., C.E..	7	0 7	...	43·10	...
„ „ (Yeoman Hey).....	„ „ „ „ „ „ „	7	0 7	759	42·90	...
†Penistone (Carlcotes).....	Gt. Central R. Co.....	9	4 0	1075 T	36·93	168
† „ „ „ „ „ „ „	„ „ „ „ „ „ „	9	3 6	717 T	28·39	168
† „ „ (Hazlehead)	„ „ „ „ „ „ „	9	3 9	868 T	36·94	163
D† „ „ (Ingbirchworth Res.)	J. H. Taylor, Esq. C.E.	8	1 3	853 T	30·15	161
D Holmbridge (Yateholme)	O. J. Kirby, Esq., C.E.	7	1 0	861 T	49·90	138
† „ „ (Holme Styes)	Mr. L. Hinchliffe	7	2 0	830 T	43·20	...
† „ „ (Boshaw Whams) ...	„ „ „ „ „ „ „	7	2 0	930 T	46·00	...
† „ „ (Bilberry Reservoir)..	„ „ „ „ „ „ „	7	2 0	820 T	49·00	...
D Barnsley (Church Street)	Dr. M. J. Sadler.....	5	5 2	355 T	24·38	182
D „ „ (Beckett Square)	J. H. Taylor, Esq., C.E.	8	1 0	306 T	24·57	141
„ „ „ „ „ „ „	Gt. Central R. Co.....	9	3 6	317 T	20·73	109
†Saddleworth Station	M L. K. Jones, Esq.....	5	4 2	630 T	34·14	...
Barnsley (Cawthorne)	Rev. C. T. Pratt.....	5	1 6	340 T	25·80	156
Strinesdale [Oldham]	C. J. Batley, Esq., C.E.	5	4 0	815 T	28·32	192
†Meltham (Harden Moss)	J. W. Schofield, Esq....	8	1 2	1212 T	38·91	...
„ „ „ „ „ „ „ new g.	„ „ „ „ „ „ „	8	1 0	1212 T	37·44	...
Wessenden Head	„ „ „ „ „ „ „	8	1 0	1270 T	38·15	...
„ „ (Hollin Bank Moss) ..	„ „ „ „ „ „ „	8	1 0	1360 T	28·92	...
„ „ (Great Butterley).....	„ „ „ „ „ „ „	8	1 0	1110 T	47·40	...
„ „ (Bobus).....	„ „ „ „ „ „ „	8	1 0	1200 T	41·99	...
Standedge (Castleshaw).....	C. J. Batley, Esq., C.E.	8	4 6	876 T	33·97	179
„ „ „ „ „ „ „	„ „ „ „ „ „ „	5	4 6	1410 T	27·20	178
„ „ (Redbrook Res.) old g.	L. K. Jones, Esq.	8	1 8	1150	29·48	...
„ „ „ „ „ „ „ new g.	„ „ „ „ „ „ „	8	1 6	1150	29·86	...
†Meltham (Brow Grains)	J. W. Schofield, Esq....	8	1 0	900 T	37·67	...
Denshaw (Ox Hey)	C. J. Batley, Esq., C.E.	8	4 6	1030 T	38·62	184
„ „ (New Year's Bridge) n.g.	„ „ „ „ „ „ „	8	4 0	994 T	42·00	184
„ „ (Ready Con Dean) ..n.g.	„ „ „ „ „ „ „	8	4 0	1414 T	44·15	184

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1901	Days on which 01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level		
			ft. in.	feet.	inches.	
WEST RIDING—(con.)						
Meltham (Royd Edge).....	C. L. Brook, Esq.	8	1 0	585 T	44·48	...
D „ (Harewood Lodge).....	„ „ „	8	1 0	514 L	38·25	192
† „ Grange	J. W. Schofield, Esq....	8	1 2	850 T	33·63	...
† Marsden (Deer Hill) <i>old g.</i>	„ „ „	8	1 0	1149 T	34·79	...
„ „ „ <i>new g.</i>	„ „ „	8	1 0	1149 T	34·54	...
D Doncaster (Kirk Bramwith).....	H. A. Brundell, Esq. C.E.	5	1 0	17 T	21·77	171
D† Slaithwaite (Blackmoorfoot).....	J. W. Schofield, Esq....	8	1 0	800 T	35·75	201
D Hemsworth Hall	F. G. Leatham, Esq....	5	1 0	250 T	24·47	171
D Chapelthorpe (Crigglestone).....	H. T. Burbury, Esq....	5	1 0	306 T	20·86	165
D Wakefield (Walton)	E. Simpson, Esq.	5	1 0	140 T	18·46	136
Huddersfield (Bankfield, Golcar)	J. E. Ramsden, Esq....	5	1 0	400 T	30·55	154
D „ (Cemetery)	Mr. J. Firth	8	4 0	400	28·10	177
D† „ (Dalton)	J. W. Robson, Esq. ...	8	1 0	350 T	27·75	182
Rishworth (Ringstone Res.).....	C. Clemesha Smith Esq. CE	5	1 0	990 T	36·38	187
D Ackworth (Nostell Priory)	Mr. J. Easter	5	4 0	...	22·94	146
D Mirfield (Cote Wall)	J. Watson-Kaye, Esq..	8	1 2	200	25·75	155
D Ossett (Lowood House).....	Dr. G. S. Greenwood...	5	1 0	300 T	21·88	106
† Wakefield Prison	Mr. A. Clyde	5	1 0	96 T	22·00	138
D „ (Field Head)	C. Clemesha Smith Esq. CE	8	1 6	250 T	22·11	139
D „ (Stanley Grange)	H. S. Haworth, Esq....	5	1 0	235 T	20·74	171
Goole (Swinfleet)	Mr. G. Harrison	5	5 6	...	24·21	...
D „	W. E. Grayburn, Esq.	5	1 0	18 T	21·41	153
Elland	P. H. Whitwam, Esq..	8	1 0	307 T	28·21	...
Batley (Staincliffe Reservoir) ...	O. J. Kirby, Esq., C.E.	7	1 0	492 T	20·05	...
D „ (Woodwell Depôt)	„ „ „	8	1 0	301 T	20·75	123
D Ardsley Reservoir	C. Clemesha Smith Esq. CE	5	1 0	395 T	23·54	154
D Sowerby Bridge (Haugh End) ...	J. S. Rawson, Esq. ...	5	0 8	450 T	36·47	189
D Todmorden (Fielden Hospital)...	Mr. F. Rogers	5	1 0	650 T	43·18	189
D „ (Sourhall Hospital)...	„ „ „	5	1 0	1020	47·32	187
Halifax (Bents, Norland) M	J. S. Rawson, Esq. ...	5	0 8	800 T	33·77	...
D „ (Bermerside Observatory)	J. Gledhill, Esq.	8	0 6	500	30·90	192
D „ (Hall Ings, S. Owrarn)...	Rev. G. E. Aspinall ...	5	0 7	750 T	31·52	192
„ (Thorpe) M	J. S. Rawson, Esq. ...	8	0 8	345 T	37·79	...
„ „ „	„ „ „	5	0 8	345 T	38·94	...
D „ (Public Library)	J. Whiteley, Esq.	8	1 0	625 T	29·43	178
† „ (Albert).....	J. A. Paskin, Esq., C.E.	5	1 0	795 T	28·94	...
† „ (Gibbet)	„ „ „	5	6 0	568 T	31·34	...
† „ (Ramsden Wood).....	„ „ „	8	1 2	816 T	30·04	...
D Mytholmroyd (Ewood Hall).....	Mrs. Riley	5	1 6	500 T	37·07	184
Hebden Bridge (Falling Royd)...	A. R. Crossley, Esq....	4	1 0	479 T	39·45	180
„ „ (Summerfield)...	J. Hoyle, Esq.	5	0 8	800 T	36·42	195
Halifax (Castle Carr)	J. A. Paskin, Esq., C.E.	...	...	1060 T	36·89	...
† „ (Midgley Moor) M	„ „ „	7	0 6	1350 T	39·24	...
† „ (Warley Moor)..... M	„ „ „	7	0 6	1325 T	36·94	...
† „ (Ogden)	„ „ „	8	1 3	990 T	37·46	...
„ (Ovenden Moor) .....	„ „ „ .....	...	...	1375	41·46	...
„ (Widdop) .....	„ „ „ .....	...	...	1050	41·41	...
† „ (Walshaw Dean)..... M	„ „ „	8	0 3	1380 T	35·88	...

DIVISION IX.—YORKSHIRE.—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1901	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level		
			ft. in.	feet.	inches.	
WEST RIDING—(con.)						
d South Milford Rectory	Rev. F. J. Young	5	1 2	70 π	22·33	169
d Pudsey	Dr. W. Lovell Hunter.	5	1 0	521 \uparrow	25·72	168
Bradford (Horton).....	Mr. A. E. Chilton	5	5 0	450 \uparrow	28·82	193
„ (Queensbury).....	R. J. Foster, Esq.....	8	2 2	1050	31·65	155
„ (Brayshaw Reservoir)..	J. Watson, Esq., C.E..	5	1 0	982 π	31·68	189
d „ (The Exchange).....	H. A. Johnson, Esq., C.E.	8	65 6	395 π	32·84	206
„ (Thornton Moor)	J. Watson, Esq., C.E..	5	1 0	1218 π	36·36	228
„ (Stubden)	<i>old g.</i> „ „ „ ..	8	1 0	1075 π	40·21	212
„ („)	<i>new g.</i> „ „ „ ..	5	1 0	1071 π	35·82	212
„ (Nan Scar, Oxenhope) M	„ „ „ ..	5	1 0	1101 π	43·00	...
„ (Stairs Top)	M „ „ „ ..	5	1 0	1401 π	35·65	...
„ (Leeming Reservoir) M	„ „ „ ..	5	1 0	850 π	37·45	...
„ (Doe Park)	<i>old g.</i> „ „ „ ..	8	1 0	810 π	38·37	219
„ („ „)	<i>new g.</i> „ „ „ ..	5	1 0	811 π	32·76	219
„ (Manningham Lodge)..	J. Priestman, Esq.....	5	1 0	507	28·89	186
„ (Leeshaw Res.)	M J. Watson, Esq., C.E..	5	1 0	875 π	41·18	...
„ (Chellow Dean)	„ „ „ ..	5	1 0	645 π	28·34	185
„ („ Heights).....	„ „ „ ..	5	1 0	848	28·15	186
„ (Hewenden Res.) <i>old g.</i>	„ „ „ ..	5	1 0	700 \uparrow	35·75	212
„ („ „) <i>new g.</i>	„ „ „ ..	5	1 0	701 π	32·63	212
„ (Heaton Res.)	<i>old g.</i> „ „ „ ..	8	1 0	530 π	27·96	183
„ („ „) <i>new g.</i>	„ „ „ ..	5	1 0	531 π	26·59	182
Leeds (Wortley Res.)	T. Hewson, Esq., C.E..	8	0 9	307 π	20·74	156
„ (Knostrop)	„ „ „ ..	8	0 9	72 \uparrow	22·81	143
d „ (Holbeck)	Messrs. J. Rhodes & Co.	10	32 0	127 π	19·04	123
d „ („ W. Works Depot)	T. Hewson, Esq., C.E..	8	0 9	93 π	24·77	156
d „ (Museum).....	H. Crowther, Esq.....	10	46 0	177 π	20·42	148
„ (Woodhouse Moor).....	T. Hewson, Esq., C.E..	8	0 9	307 π	23·94	164
„ (Elmet Hall, Roundhay)..	Mr. W. Tindall	5	1 6	400 \uparrow	25·61	140
„ (Weetwood Reservoir) ...	T. Hewson, Esq., C.E..	8	0 9	328 π	22·52	162
„ („ Lodge).....	J. P. Reay, Esq.	5	0 9	400 \uparrow	22·21	146
d „ (Allerton Hill)	T. Fenwick, Esq., C.E..	5	0 7	418 π	22·68	185
d „ (Oliver Hill, Horsforth)..	C. France, Esq.....	3	1 0	250 \uparrow	24·78	166
Shipley (Crag End)	Leeds & L'pool Canal Co.	8	1 0	304	25·69	...
„ (Moor Head).....	H. Mackintosh, Esq....	8	10 0	500	23·08	118
Oakworth (Oldfield)	W. H. Hopkinson, Esq. CE	5	1 0	1008 π	31·64	...
Bingley (Gilstead Filters)	J. Watson, Esq., C.E..	5	1 0	572 π	22·82	175
d Keighley (The Knowle)	W. Clough, Esq.	5	1 0	385 \uparrow	30·87	196
Adel (Lawns Wood)	Mr. S. R. Dyson.....	5	1 0	475 \uparrow	22·92	148
„ (Eccup, South)	T. Hewson, Esq., C.E..	8	0 9	390 \uparrow	24·47	182
„ („ East)	„ „ „ ..	8	0 9	375 π	24·09	174
Bingley (Sunnydale).....	J. Watson, Esq., C.E..	5	1 0	825	28·12	203
d Harewood House	Countess of Harewood.	5	1 0	300	26·72	171
d Otley (Danefield)	J. E. Sharpe, Esq.....	5	0 9	393 π	24·98	141
d „ (Sewage Farm)	„ „ „ ..	5	0 9	169 π	23·27	169
Harewood (Arthington)	T. Hewson, Esq., C.E..	8	0 9	139 π	28·76	159
Skipton (Gill Grange, Silsden)...	J. Watson, Esq., C.E....	5	1 0	883	23·26	...
Ilkley (Amblethorpe)	B. Shiers, Esq.....	5	1 0	800 \uparrow	30·58	163

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	1901	
			ft. in.	feet.	inches.	
WEST RIDING—(con.)						
d Ilkley	G. W. Worfolk, Esq...	5	20 0	312 ∇	29·30	156
d „ (Eaton Road)	A. Wilson, Esq.....	5	1 0	360 ∇	28·95	193
† „ (Cherry Bank)	Mr. T. Robinson.....	8	1 3	600	29·60	...
Skipton (Silsden Reservoir)	J. Watson, Esq., C.E..	5	1 0	560 ∇	20·81	163
Pannal (Kirkby Overblow)	A. Rowntree, Esq.....	5	0 9	340 ∇	22·26	155
Leathley (Lindley Wood S)	T. Hewson, Esq., C.E..	8	0 9	312 ∇	27·14	202
„ („ „ N).....	„ „ „	8	0 9	320 ∇	26·87	202
d Ilkley (Hollingley)	J. E. Sharpe, Esq.....	5	0 9	665 ∇	25·27	183
Slaidburn (Knowlmere Manor)...	W. Peel, Esq.....	5	1 0	417 ∇	50·47	...
„ (Hareden Brook) ... M	T. Cookson, Esq.	8	1 2	540	54·30	...
„ (Langden Brook) ... M	„ „ „	8	1 2	556	53·95	...
„ (Whiteholme)	W. K. Wilkinson, Esq.	5	1 3	475 ∇	45·20	141
Skipton (Cringle's Reservoir) ...	J. Watson, Esq., C.E..	5	1 0	760 ∇	24·88	163
„ (Chelker Reservoir) ... M	„ „ „	5	1 0	730 ∇	26·34	..
d „ (Marton House)	W. Farrer, Esq.	5	0 10	565	32·21	195
† „ (Craven Herald Office)...	E. Townsend, Esq.....	8	2 0	360	26·47	186
„ (Hawthorne Cottage) ...	Leeds & L'pool Canal Co.	8	1 0	380	29·10	...
Gargrave (Banks Hill Bank Newtn)	„ „ „	8	1 0	545	23·20	...
„ (Ray Bridge Hill)	„ „ „	8	0 10	459	29·25	...
„ (Great Scarnber Hill)...	„ „ „	8	0 9	676	31·93	...
Slaidburn (Dunsop Houses)	W. Stubbs, Esq., C.E..	8	1 0	450 ∇	49·61	...
„ (Middle Knoll)..... M	„ „ „	8	2 6	1298 ∇	45·00	...
„ (Brennand)	„ „ „	8	1 0	820 ∇	59·20	...
„ (Whitendale)	„ „ „	8	1 0	830 ∇	62·90	...
„ (Cabin Hill)	„ „ „	8	3 1	1559 ∇	49·50	...
„ (Baxton Fell)	„ „ „	8	2 6	1540 ∇	55·40	...
Winterburn (Long Hill)	Leeds & L'pool Canal Co.	8	0 9	705	30·18	...
„ (Brown Hill).....	„ „ „	8	1 0	961	31·14	...
d York (Mount Villas)	J. S. Rowntree, Esq....	5	1 0	70	22·40	185
d „ (Burton Croft)	G. Crawhall, Esq.	5	1 0	48 ∇	21·25	161
d „ (Cherry Hill)	Mrs. H. Richardson ...	5	1 6	50	20·32	154
d Wetherby (Ribston Hall)	Mr. J. McClelland	5	1 2	130 ∇	25·67	147
Bolton Abbey Estate Office	A. Downs, Esq.....	5	1 2	350	26·72	149
d Goldsborough Hall.....	Mr. R. Goodall	5	1 0	...	26·13	178
d Nun Monkton... ..	H. Horsfield, Esq.....	5	0 6	45	21·69	145
Fewston (Swinsty E).....	T. Hewson, Esq., C.E.	8	0 9	460 ∇	30·68	190
„ („ W)	„ „ „	8	0 9	425 ∇	30·84	190
„ (Timble Ings)	„ „ „	8	0 9	912 ∇	27·40	185
„ (Timble)	„ „ „	8	0 9	720 ∇	25·73	171
„ South	„ „ „	8	0 9	525 ∇	26·95	189
„ North	„ „ „	8	0 9	525 ∇	25·85	189
„ (Spinksburn)	„ „ „	8	0 9	636 ∇	27·09	179
Blubberhouses	„ „ „	8	0 9	575 ∇	29·71	200
† Harrogate (Ten Acre Reservoir).	E. W. Dixon, Esq., C.E.	8	1 6	620 ∇	22·53	142
„ (Bonny Cap).....	„ „ „	8	1 6	710 ∇	24·56	164
„ (Wonderful House)...	„ „ „	8	1 6	725 ∇	23·86	128
„ (Wilson's Farm)	„ „ „	8	1 6	630 ∇	24·32	162
† „ (Beaver Dyke Res.)...	„ „ „	8	0 11	575 ∇	24·56	163

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Diameter	Rain Gauge.		Depth of Rain.	Days on which -01 or more fell.
			Height Above Ground	Height Above Sea Level	1901	
			ft. in.	feet.	inches.	
WEST RIDING—(con.)						
n† Harrogate (Harlow Hill)	G. Paul, Esq.	5	1 0	480	24·33	164
† „ (Irongate)	E. W. Dixon, Esq., C.E.	8	1 6	455 T	21·69	146
† „ (The Stray)	Mr. Gledhill	5	1 0	380	22·93	169
† „ (Park Parade)	„ „	5	1 0	400	23·93	169
„ (Scargill)	E. W. Dixon, Esq., C.E.	8	1 0	646	24·96	163
Barden Reservoir	J. Watson, Esq., C.E..	8	1 2	746 A	35·35	221
„ „	„ „	5	1 0	746 A	35·48	221
West End (Hard Ing)	T. Hewson, Esq., C.E.	8	0 9	1030 T	28·33	183
„ „ (Meagill Lane)	„ „ „	8	0 9	762	26·51	201
„ „ Field	„ „ „	8	0 9	795 A	25·85	175
„ „ Garden	„ „ „	8	0 9	787 T	34·42	179
„ „ (Rocking Hall)	„ „ „	8	0 9	1225 T	33·50	189
„ „ (Thruscross)	„ „ „	8	0 9	900 T	28·52	188
„ „ („ „ No. 2)	„ „ „	8	0 9	910 T	21·47	178
„ „ (Lane Head)	„ „ „	8	0 9	938 T	30·48	192
Upper Barden Reservoir	J. Watson, Esq., C.E..	5	1 0	1250 A	35·31	225
Burnsall (Thorpe Fell)	M „ „ „	5	1 0	1661 A	33·38	...
„ „ (Sandbed Beck)	M „ „ „	5	1 0	676 A	35·72	...
D „ „ Rectory	Rev. W. J. Stavert ..	8	4 1	503 A	39·47	197
Washburn Dale (Ray Bank) ..	T. Hewson, Esq., C.E..	8	0 9	1137 T	27·84	193
„ „ (High House) ..	„ „ „	8	0 9	1112 T	31·20	173
„ „ Head	„ „ „	8	0 9	1275 T	26·10	163
D Knaresborough (Farnham)	R. Elmhirst, Esq.	5	1 0	170 A	20·43	177
D Ripley Castle	Mr. J. Tunnington	5	1 0	230 T	21·95	157
D Settle (The Terrace)	J. W. Shepherd, Esq..	8	1 2	525 A	36·86	191
n† Pateley Bridge (Castle Stead) ..	Mr. C. May	5	1 0	410	31·74	179
Grimwith Reservoir	J. Watson, Esq., C.E..	8	1 0	890 A	38·37	193
„ „	„ „ „	5	1 0	893 A	37·13	193
Pateley Moor (Smaden Head) ..	T. Hewson, Esq., C.E..	8	0 9	784 A	25·47	185
n† Malham Tarn	Mr. Coulthard	5	1 0	1296 A	51·66	206
D „ „	„ „ „	8	1 0	1296 A	51·34	206
Dallow Moor (High Skeldon) ..	T. Hewson, Esq., C.E..	8	0 9	674 A	27·71	180
„ „ („ „)	„ „ „	5	0 9	674 A	26·83	178
„ „ (Harper Hill)	„ „ „	8	0 9	859 A	25·92	178
„ „ („ „)	„ „ „	5	0 9	858 A	27·26	177
n† Ripon (The Red House)	F. D. Wise, Esq.	5	1 0	120	21·98	162
D „ „ (W.W. Lumley Moor) ..	Mr. G. Craggs	8	0 6	572 T	29·27	141
Ramsgill (Raygill House)	J. Watson, Esq., C.E..	5	1 0	925 T	34·62	167
„ „	„ „ „	5	1 0	450 T	35·23	161
n† Arncliffe Vicarage	Rev. W. A. Shuffrey...	8	2 6	734 T	56·95	195
D „ „ (Amerdale)	J. Hammond, Esq.	8	1 6	734	50·52	204
D Ingleton Vicarage	Rev. J. Turner	5	0 6	500	35·95	170
„ „ (Kingsdale Head)	T. Middleton, Esq.	5	0 10	994 A	60·68	...
† Nidderdale (High Riggs)	J. Watson, Esq., C.E..	5	1 0	1010 T	32·38	175
„ „ (East Gill Head) ... M	„ „ „	5	1 0	1710 A	48·09	...
† „ „ (Rain Stang)	„ „ „	5	1 0	1470 T	37·44	...
† „ „ (Angram)	„ „ „	5	1 0	1150 T	41·02	152
† „ „ (New Houses)	„ „ „	5	1 0	755 T	38·62	182

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	1901	
			ft. in.	feet.	inches.	
WEST RIDING—(con.)						
Kirkby Malzeard (Drovers' Inn) ..	T. Hewson, Esq., C.E.	8	0 9	576 π	27·51	188
" " (" ") ..	" " " " ..	5	0 9	576 π	28·08	187
" " (Hawset)	" " " " ..	8	0 9	820 π	27·58	201
" " (Hambleton Hill) ..	" " " " ..	8	0 9	1106 π	39·33	...
" " (Bagwith Brae) ..	" " " " ..	8	0 9	703 π	26·45	175
" " (" ") ..	" " " " ..	5	0 9	703 π	26·33	175
" " (Stone & Ears Wham) ..	" " " " ..	8	0 9	1118 π	31·38	...
D Ripon (High Bank, Mickley) ...	Miss Harrison	5	1 6	225 T	23·64	159
Masham Moor (Benjy Guide) ...	T. Hewson, Esq., C.E.	8	0 9	1412 π	36·40	...
" " (W. Somerside) ...	" " " " ..	8	0 9	928 π	33·72	172
" " (" ") ...	" " " " ..	5	0 9	928 π	31·71	172
" " (High Sour Mire) ..	" " " " ..	8	0 9	884 π	32·57	138
" " (" ") ..	" " " " ..	5	0 9	884 π	30·91	138
" " (Leighton)	" " " " ..	5	0 9	542 π	26·63	164
" " (Low Houses)	" " " " ..	8	0 9	693 π	31·89	163
" " (" ")	" " " " ..	5	0 9	693 π	31·15	162
D Oughtershaw Hall	Miss Woodd	8	1 6	1175 T	57·58	187
D^{\dagger} Sedbergh (Brig Flatts)	J. Handley, Esq.	5	1 2	300 T	43·05	169
D " (Akay)	C. E. Taylor, Esq.	5	1 0	400 T	43·29	170
D " (Cemetery)	Mr. J. Anderson	5	1 0	374 π	41·71	178
\dagger " (Thorns Hall)	Miss Sedgwick	5	1 0	400 T	41·50	170
EAST RIDING.						
Patrington (Spurn Head)	The Meteor. Council ...	8	1 0	27	18·50	139
D "	W. B. Pugh, Esq.	5	2 6	46 π	22·16	113
D Hedon (The Vicarage)	Rev. J. H. Richardson	5	1 0	...	22·90	193
D^{\dagger} Hull (Pearson Park) ..	H. B. Witty, Esq.	5	0 6	6	26·53	171
D " (Springhead)	F. J. Bancroft, Esq., C.E.	5	1 7	15 T	23·26	161
D Cottingham (Water Works)	" " " " ..	5	1 1	25 T	22·78	161
D Skipwith	Rev. C. D. Ash	5	2 6	25	20·39	151
D Beverley (East Riding Asylum) ..	Dr. Macleod	5	1 0	175 T	25·00	170
" (New Walk)	W. Evans, Esq., C.E. ...	5	3 0	40	26·38	168
" (Hull Bridge)	" "	5	2 6	11 π	24·54	131
Market Weighton (Dalton Hall) ..	Mr. J. Allsop	8	1 4	150 T	25·14	164
D Hornsea (Elim Lodge)	T. B. Holmes, Esq. ...	8	1 3	30 B	22·55	153
Brandesburton (Hempholm)	W. Evans, Esq., C.E. ...	5	2 6	11 π	23·63	186
Middleton-on-the-Wolds	Rev. H. D. Blanchard.	5	1 0	156	22·71	133
D Pocklington (Warter)	J. Coxon, Esq.	5	1 10	230 T	28·96	147
Catton Rectory [York]	Rev. H. L. Puxley	5	0 4	50 T	23·37	...
Driffield (Beverley Road)	late Rev. J. T. Harwood	8	8 0	68 T	24·39	167
" (York Road) <i>Snowdon</i> ..	W. F. Lovel, Esq. ...	5	1 0	76 T	25·79	157
" (Highfield)	Mr. G. R. Merryweather	5	1 0	80	26·62	157
Wetwang	Rev. E. M. Cole	5	1 0	235 T	23·95	154
D Thixendale	Rev. W. H. Fox	10	0 10	425 T	27·23	176
D Lowthorpe (The Elms)	H. Onslow Piercy, Esq.	5	1 0	63 π	25·02	150
Hunmanby (Holly Bank)	Miss Suter	5	1 2	...	28·36	...

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.
		Diameter	Height above Ground.	Height above Sea Level	1901	
			ft. in.	feet.	inches.	
NORTH RIDING.						
d Easingwold (Marton Vicarage) ..	Rev. F. S. Newman ...	5	3 3	200	21-26	117
Terrington Hall.....	Mr. T. Suffield	5	1 5	300 †	23-38	189
† Old Malton	The late H. Hurtley, Esq.	10	1 0	75 †	21 35	...
d Hovingham (Wigganthorpe) ...	Mr. J. S. Upex	5	1 0	350 †	24-22	174
d Gilling (Grimstone Manor)	W. R. I. Hopkins, Esq.	5	0 8	400 †	24-58	172
d Baldersby	W. Gregson, Esq.	5	1 0	101 †	23-70	154
d Thirsk (Sowerby)	C. M. Swarbreck, Esq..	5	1 0	105 †	21-69	191
" " " " " " " " " " " "	A. C. Bamlett, Esq. ...	5	...	...	23-07	131
d " " (Mount St. John)	A. J. Walker, Esq. ...	5	1 0	523 ‡	24-12	160
d Pickering (The Rectory)	late Rev. G. H. Lightfoot	5	0 8	150	22-50	125
d Bedale (Burneston)	Rev. J. T. Hartley ...	5	3 9	110 †	21-30	158
" " (Thorpe Perrow)	Mr. W. Heath	5	0 10	176	25-52	...
" " (Park House).....	Miss M. Greenwood ...	5	1 1	180	23-89	206
" " (Newton House) ..	Mr. W. Taylor	5	2 6	125	24-11	120
† Aysgarth Vicarage.....	M Rev. F. W. Stow	3	1 0	643 ‡	31-95	...
d " " " " " " " " " " " "	" " " " " " " " " " " "	12	1 0	648 ‡	32-04	188
d† Leyburn (Bolton Hall)	Mr. F. Scrivener	8	1 0	420	31-42	167
d Seamer (Irtton)	W. Millhouse, Esq. C.E.	8	1 0	94	27-49	164
d Scarborough (Osgodby).....	" " " " " " " " " " " "	8	1 0	166 ‡	22-84	115
" " " " " " " " " " " "	The Meteor. Council ...	8	...	...	23-53	185
Boltby.....	A. C. Bamlett, Esq. ...	...	...	...	20-70	...
d Scarborough (Scalby)	J. W. Rowntree, Esq... ..	...	...	...	29-33	130
d Bedale (Ivy Cottage, Fencote)...	Mr. W. Culverwell ...	5	1 6	125	22-27	143
d Northallerton (The Lodge)	W. Stead, Esq., C.E....	8	1 0	131 †	24-94	176
d " " (Osmotherley).....	T. Yeoman, Esq.	8	0 8	650	22-99	112
Richmond (The Grove)	G. Roper, Esq.	5	1 3	430 †	32-30	129
Northallerton (Rounton Grange).	The Royal Meteor. Soc.	8	1 0	242	25-57	183
d Ravenscar	Rev. A. L. Becker	6	1 0	620 ‡	26-88	144
Fylingdales Vicarage	Rev. R. J. Cooper .....	...	...	125	24-14?	...
d Ingleby Manor	Rt. Hon. Lord De Lisle	5	0 11	440 †	33-81	174
d " Greenhow Vicarage.....	Rev. J. Hawell ..	5	1 0	448 †	31-18	202
East Layton	Mrs. Proud	11	1 0	575 †	27-73	118
d Stanwick Park [Darlington]	Mr. W. Higgin	5	1 1	300 †	27-97	183
Forcett Park ["]	Mr. J. Mawson	5	1 6	351 †	30-83	200
d Great Ayton (Easby Hall)	Mr. J. J. Emerson	5	1 0	355	32-96	186
Whitby (Royal Crescent)	T. Newbitt, Esq.	8	1 6	145 †	26-04	138
d " " (Mulgrave Castle)	Mr. J. Corbett	5	1 0	410 †	28-94	180
Guisborough (Hutton Hall)	Sir J. W. Pease, Bt., M.P.	5	1 3	400 †	31-48	173
d " " (Lockwood Beck Res)	W. P'Anson, Esq., C.E.	8	1 0	632 ‡	34-47	192
" " " " " " " " " " " "	" " " " " " " " " " " "	8	...	...	33-98	...
d Middlesbrough (Ormesby)	Mr. W. Sanderson.....	5	1 0	100 †	28-40	204
d " " (Albert Park)	J. M. Parnaby, Esq. ...	8	1 0	30	24-04	173
d Hury Res. [Barnard Castle].....	D. D. Wilson, Esq. ...	8	1 0	866 †	29-52	158
d Mickleton	H. S. Wallis & Dr. Mill	8	1 0	...	23-91	155
† " " (Lime Kiln Pasture)M	" " " " " " " " " " " "	8	1 0	1175 †	25-70	...
† " " " " " " " " " " " "	" " " " " " " " " " " "	8	1 0	1175 †	27-45	...

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1901	Days on which "01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level		
			ft in.	feet.	inches.	
DURHAM.						
Darlington (Hurworth Grange) ..	Mrs. J. E. Backhouse...	5	1 0	161 ∇	26.66	175
" (Elcott, Hurworth) ..	Rev. W. E. Stewart ...	5	1 0	121 \uparrow	26.07	178
D† " (Cleveland Parade) ..	W. W. Willmott, Esq.	5	1 3	160 \uparrow	24.79	162
D " (Public Park)	Mr. J. Morrison	5	1 0	...	28.32	179
D " (Hummersknott) ...	Mr. J. Short	5	1 0	200	25.20	121
D Barnard Castle (County School) ..	E. Wells, Esq.	5	1 6	540 ∇	24.96	152
D Heighington (Walworth Castle) ..	W. R. Innes Hopkins, Esq.	5	0 8	150	29.02	173
Stockton (Rimswell)	W. Anderson, Esq., C.E.	5	1 0	100 \uparrow	23.56	151
" (Ropner Park)	W. H. Sykes, Esq.	5	1 7	61 ∇	23.33	150
West Hartlepool (Lynn Street) ..	Mr. H. Lamb	5	63 0	84	18.77	158
" (Bradgate)	C. H. Baines, Esq.	5	1 0	100	22.11	174
D Hartlepool (Hurworth Burn) ...	T. Fenwick, Esq., C.E.	5	0 7	360	26.70	132
D " (Hart Reservoir)	" " " " " "	8	0 9	164	24.26	144
D† Wolsingham	Mr. A. Mitchell	5	1 0	464 ∇	29.94	183
Eastgate (All Saints' Vicarage) ..	Rev. J. G. B. Knight...	5	0 9	768	35.96	186
D Wearhead	C. Stamp, Esq.	5	0 6	1104	44.83	154
D "	" " " " " "	5	1 0	1100	41.70	156
Durham Observatory	The Meteor. Council ...	12	4 0	340	22.93	172
D Ushaw (St. Cuthbert's College) ..	Monsignor Corbishley..	5	0 9	600 ∇	27.00	173
D Weardale W.W. (Tunstall) ...	R. Askwith, Esq., C.E.	8	1 2	724 ∇	31.05	177
† " " (Waskerley 6) ..	" " " " " "	8	4 2	1229 ∇	23.17	...
" " " (" 3) ..	" " " " " "	8	4 6	1433 ∇	24.95	...
† " " " (" 4) ..	" " " " " "	8	4 7	1321 ∇	24.00	...
† " " " (" 5) ..	" " " " " "	8	4 2	1244 ∇	24.29	...
D " " " (") ..	" " " " " "	8	0 11	1179 ∇	29.59	176
† " " " (" 2) ..	" " " " " "	8	4 5	1367 ∇	24.16	...
† " " " (" 1) ..	" " " " " "	8	4 4	1317 ∇	23.69	...
D Consett W.W. (Smiddy Shaw) ..	" " " " " "	8	0 9	1128 ∇	30.41	186
Seaham (Dalton Pumping Sta.) ..	A. B. E. Blackburn, Esq.	8	1 0	345 ∇	24.87	178
Fence Houses (Chilton Moor) ...	V. W. Corbett, Esq.	5	1 4	186 \uparrow	25.52	...
D Seaham Harbour	Mr. G. H. Aird	8	1 6	141	24.91	171
" Vicarage	Rev. A. Bethune	5	0 6	80 \uparrow	25.42	...
" Hall	Mr. R. Draper	5	1 0	106 ∇	27.48	...
Houghton-le-Spring (Myre Hall) ..	D. Balfour, Esq., C.E.	5	1 0	265	24.60	...
Sunderland (Ryhope Pumping Sta.) ..	A. B. E. Blackburn, Esq.	8	1 1	228 ∇	25.18	194
D " (W. Hendon Ho.) No. 5 ..	T. W. Backhouse, Esq.	5	1 0	130 ∇	26.67	180
" " " " " " No. 6 ..	" " " " " "	5	1 0	130 ∇	27.01	...
D " (Fever Hospital)	H. Scurfield, Esq., M.D.	5	1 0	105	27.44	182
" (Claxheugh Grove) ...	J. P. Cornett, Esq.	5	2 6	90	26.55	...
" (The Cedars)	W. F. Vint, Esq.	5	0 6	115	27.27	159
" (Cleadon Pumping Sta.) ..	A. B. E. Blackburn, Esq.	8	1 0	216 ∇	25.27	174
D Gateshead (Eighton Cottage) ..	Miss Favell	5	3 7	515	25.52	170
D Ryton-on-Tyne	J. P. Dalton, Esq.	5	1 0	258 \uparrow	26.62	184
" " (Balgonie House) ..	J. W. Smith, Esq., M.D.	5	1 6	...	23.37	...
NORTHUMBERLAND.						
D Corbridge (Howden Dene)	J. H. Straker, Esq.	5	0 9	200 \uparrow	25.44	182
" (Newton Hall)	Rev. J. S. St. John ...	5	1 1	537	26.83	196

DIVISION X.—NORTHERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Diameter	Rain Gauge.		Height Above Sea Level	Depth of Rain. 1901	Days on which '01 or more fell.
			Height Above Ground.				
			ft.	in.			
NORTHUMBERLAND—(con.)							
D Newcastle (Clifton Road)	Dr. E. L. Merz	8	1	6	314	7	23·60 182
† " (" ")	" " " "	5	1	0	315		24·30 ...
† " (Lit. and Phil. Soc.) ..	H. Richardson, Esq. ...	8	55	0	160		27·80 ...
† " (Northumberland Rd.) ..	N. H. Martin, Esq. ...	8	45	0	200		24·01 199
" (Claremont Road) ...	Mr. T. Bone	4	2	0	240	1	25·37 141
D " (Leazes Park)	F. J. Edge, Esq., C.E...	5	1	0	255	7	27·74 147
D† " (Town Moor)	A. Wright, Esq.	5	2	0	201	7	26·36 185
† " (Wellburn, Jesmond). ..	W. H. Holmes, Esq. ...	5	1	6	161	1	27·71 162
North Shields (Post Office)	The Meteor. Council ...	8	1	4	100		27·90 180
D " " (Tynemouth)	J. Walker, Esq., C.E...	5	1	8	65	7	29·55 193
Newcastle and Gateshead W. W. {	Whittle Dean	10	...		...		23·19 ...
	Swinburn (Woodford).....	10	0	6	500	7	32·32 ...
	North Tyne (Green Crag) ...	10	0	6	800	7	39·79 ...
	" " Valley	10	0	6	300	7	27·30 ...
	Hallington	10	0	6	469	7	27·08 ...
" (Fawcett)	" " " "	10	0	6	563	7	27·65 ...
" Gunnerton Burn (Camphill)..	" " " "	10	0	6	676	7	32·21 ...
D Scots Gap (Wallington)	Rt Hn Sir G Trevelyan Bt	8	2	9	446	1	31·08 177
D Angerton Hall	Mr. R. Elliott	5	1	0	320	7	34·85 156
Morpeth	T. Matheson, Esq.	8	1	6	100		30·26 209
D " (Bothalhaugh Garden)..	Hon. & Rev. W. C. Ellis	5	0	10	35	?	28·97 191
" { " " ") M	" " " " " "	5	0	10	35		29·11 ...
D " { " " Lawn)....	" " " " " "	5	0	10	137		26·94 187
" { " " ") M	" " " " " "	5	0	10	135		27·01 ...
D† Scots Gap (Rothley Crag).....	J. Daglish, Esq.	5	0	6	665	1	31·33 128
Morpeth (Longhirst)	Sir J. Joicey, Bart., M.P.	7	1	0	168		28·65 ...
" (Cockle Park).....	J. H. J. Farquhar, Esq.	8	1	0	325	7	29·76 174
† Rededale (Horsley)	G. Smith, Esq.	8	1	0	600		23·90 ...
† Rothbury (Cragside)	W Watson Armstrong Esq	8	1	0	400	7	34·55 157
† Redewater (Blakehope)	G. Smith, Esq.	8	1	1	830		27·80 ...
† " (Ellis Crag)	" " " "	8	1	0	1200		27·82 ...
† " (Chattlehope)	" " " "	8	1	0	830		32·82 ...
† " (Cateleugh)	" " " "	8	1	0	794		31·68 ...
† Alwinton (Biddleston Hall)	P. Dodds, Esq.	5	1	0	820	1	33·32 145
Alnwick Castle	The Meteor. Council ...	5	0	4	178		30·77 168
D Howick Hall	Rt. Hon. Earl Grey ...	8	0	10	121	7	28·15 151
Ilderton (Lilburn Tower)	E. J. Collingwood, Esq. I	10	6	0	300	1	28·28 ...
D " (" Cottage)	Mr. N. D. Cowans	8	1	0	340	1	30·01 162
Wooler	Dr. R. Walker	8	0	10	176	1	31·39 ...
Kirknewton (Hethpool)	V. W. Corbett, Esq. ...	5	1	4	420	1	29·62 173
D Bamburgh	Mr. W. C. Good	5	1	0	75	1	26·99 173
D Pawston [Coldstream]	B. P. Selby, Esq.	8	1	0	328	1	30·56 189
Beal (Barmoor Castle)	T. Hodgkin, Esq.	8	3	6	400		30·36 143
CUMBERLAND.							
D Millom (Leyfield)	Cedric Vaughan, Esq. CE	5	1	2	81	7	38·01 200
D Ravenglass (The Grove)	A. Watt, Esq.	5	1	2	84	7	38·50 166
D Eskdale	Rev. W. Slater Sykes..	5	0	9	180	1	63·78 162

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	1901	
			ft. in.	feet.	inches.	
CUMBERLAND—(con.)						
D Seascale (Whinthwaite)	Dr. R. Hellon	5	1 0	52 ∇	30·50	140
Gosforth (Steelfield Hall)	W. H. Watson, Esq. ...	10	3 6	200	36·90	...
Sprinkling Tarn	M H. S. Wallis & Dr. Mill	4	0 6	1985	113·85	...
Styehead Tarn	M " " "	4	0 6	1472 ∇	124·05	...
†The Sty A	M " " "	4	0 6	1077 ∇	162·71	...
† " " B	M " " "	4	1 0	1077 ∇	162·18	...
" " C	M " " "	4	1 0	1077 ∇	164·21	...
" " D	M " " "	4	1 0	1077 ∇	132·85	...
†Borrowdale (Seathwaite)	M " " "	4	0 6	422 ∇	112·09	...
" (")	" " " "	5	1 0	422 ∇	111·99	...
D*† " (")	The Royal Meteor. Soc.	5	1 0	420 ∇	110·69	192
" (")	S. A. Marshall, Esq. ...	...	...	...	110·54	...
Ullscarf	M G. H. Hill, Esq., C.E.	7	1 8	2100 ∇	91·10	...
D St. Bees	Rev. W. H. Alderson..	5	1 0	50	41·00	147
D Cleator (The Flosch)	D. Ainsworth, Esq. ...	5	1 11	208 ∇	47·99	164
" Moor Water Works	R. Robertson, Esq.	5	1 3	395 ∇	51·28	158
†Helvellyn (Birkside)	M G. H. Hill, Esq., C.E.	7	1 3	1900 ∇	67·90	...
D Borrowdale Vic.=Rosthwaite	Rev. E. A. Penson.....	5	1 0	330 ∇	80·88	164
D†Buttermere (Hassness)	Mr. R. Johnston	5	1 0	355	90·05	187
D†Borrowdale (Grange)	Mr. Threlkeld	5	0 9	271 ∇	64·61	177
Armboth Fells (The Pewitts).....	G. H. Hill, Esq., C.E.	7	1 6	1650 ∇	79·00	...
Helvellyn (Whiteside)	" " " "	7	1 6	2100 ∇	61·30	...
Thirlmere (Dale Head Hall)	" " " "	7	1 5	620 ∇	61·90	...
D Winder	Mr. W. M. Thompson..	8	22 0	578 ∇	47·97	125
D†Whitehaven (Irish Street)	Dr. Welby P'Anson ..	5	1 1	21 ∇	41·62	189
D†Keswick (Barrow House)	Miss E. G. Langton ..	8	0 6	282 ∇	52·90	193
Distington (Gilgarran)	Mr. A. Kydd	5	4 9	470 ∇	37·77	177
Ullswater (Hallsteads)	S. A. Marshall, Esq. ...	5	2 0	497 ∇	46·69	184
Keswick (Deer Close)	John Marshall, Esq. ...	7	1 9	300 ∇	48·98	197
" (Derwent Island) <i>old g.</i>	" " " "	5	0 7	280	47·10	206
" (" ") <i>new g.</i>	" " " "	5	0 6	290	46·10	206
D " (Eskin Place)	J. Postlethwaite, Esq..	8	6 4	298 ∇	46·50	161
† " (Bank)	Mr. R. W. Mayson ..	5	1 0	265 ∇	45·10	...
D† " (Shu-le-crow)	A. Mitchell Dawson, Esq.	5	0 7	296 ∇	49·00	193
D " (Portinscale)	A. C. Allen, Esq.	8	1 0	286 ∇	48·77	187
D Cockermouth (Ullock)	J. H. Walker, Esq. ...	5	1 3	313 ∇	48·35	183
" (")	M " " " "	5	1 3	313 ∇	49·34	183
Matterdale	Mr. J. Sagar	5	1 5	1020 ∇	35·46	196
D Workington (Winscales)	Mrs. J. W. Trench	5	1 0	440 ∇	36·68	160
Cockermouth (Whinfell Hall)...	Mrs. F. M. Peile	5	2 0	265 ∇	48·54	176
D " (Brandlingill).....	Col. F. R. Sewell	5	1 0	320 ∇	55·73	202
D Bassenthwaite (Bassenfell)	S. G. Rathbone, Esq....	8	1 0	384	38·60	175
D†Cockermouth (Higham)	Miss Hoskins	5	1 0	478 ∇	39·03	180
D " (BroughtonGrange)	G. S. Wilson, Esq. ...	5	1 3	209 ∇	36·79	179
Penrith (Nandana)	G. Varty-Smith, Esq... T. Lester, Esq.	5	3 0	350 ∇	23·93	178
† " (Fell Lane, Fir Bank) ..	H. Walker, Esq.	5	1 0	575 ∇	27·41	154
" (Greystoke)	The Meteor. Council ...	5	1 3	650	35·03	...
" (Newton Reigny).....	...	...	...	...	30·59	186

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	1901	
			ft. in.	feet.	inches.	
CUMBERLAND—(con.)						
D Penrith (Greystoke, Belle Vue) ..	Mr. M. Rowe	5	4 0	680 T	30·02	193
„ (Inglewood)	H. F. Thompson, Esq. ..	5	1 0	550 T	27·41	177
D Bassenthwaite (Armathwaite Hall)	T. M. Hartley, Esq. ...	8	1 0	...	38·70	213
Maryport (Netherhall)	H. P. Senhouse, Esq. ...	8	0 6	27 T	24·97	135
D Penrith (Nunwick Hall)	Mrs Heywood Thompson	5	1 0	298 T	28·21	188
Melmerby	Rev. W. Y. Craig	5	0 6	583 T	31·44	...
D Aspatria (Brayton Hall)	Mr. W. Stewart	8	2 0	200	32·12	189
D Wigton (Brookfield)	J. J. Jopling, Esq.	5	0 9	124 T	31·58	168
Wreay Vicarage	Rev. A. R. Hall	5	2 0	310 T	25·62	155
Geltsdale	J Campbell Boyd, Esq. CE	5	1 2	924 T	31·10	...
† Carlisle (Cemetery)	S. Cartmell, Esq.	8	3 0	114 T	29·20	187
„ (Rickerby)	Miles MacInnes, Esq. ...	8	1 2	52 T	23·88	...
„ (Stanwix)	B. Scott, Esq.	8	1 6	100 T	27·41	164
D „ (Newby Grange)	T. H. Hodgson, Esq. ...	5	0 8	64 T	22·04	169
„ (Scaleby)	The Royal Meteor. Soc.	5	1 0	112	30·89	201
D Brampton (Denton House)	Mr. J. Charlton	5	1 5	541 T	26·09	173
„ („ „) ... M „ „	„ „	5	1 2	541 T	26·16	...
WESTMORELAND.						
Kirkby Lonsdale	J. R. Picard, Esq.	7	0 8	215 T	38·82	...
D „ „ (Casterton)	R. A. Clarke, Esq.	8	1 0	305	39·21	179
„ „ (Barbon Manor)	A. Ford, Esq.	5	1 3	650 T	38·40	189
D „ „ („)	Miss Wilkinson	5	1 0	310 T	39·08	154
D Milnthorpe (Beathwaite, Levens)	W. H. Crewdson, Esq. ..	5	1 3	120 T	38·71	158
„ (Eversley)	T. A. Argles, Esq. ....	...	0 3	170	36·38	165
Kendal (Natland Vicarage) ..	Rev. W. Kewley	5	1 6	160	32·28	179
D „ (Helme View)	T. N. Ritson, Esq., C.E.	5	1 0	140 T	40·96	152
„ (Holmercroft)	R. Rhodes, Esq.	5	1 3	176 T	45·13	171
D „ (Ivy Garth)	R. J. Nelson, Esq.	5	1 6	146 T	39·88	168
„ (Ellergreen)	Mr. J. Wray	5	1 6	273 T	52·18	170
Bowness (Fallbarrow)	H. E. Rawson, Esq. ...	8	1 0	135 T	54·30	169
Windermere	H. Coutts, Esq.	5	1 0	...	49·90	180
D Ambleside (Skelwith Bridge) ..	A. J. Adams, Esq.	5	1 8	190 T	76·79	179
Little Langdale (Fell Foot) ... M	S. A. Marshall, Esq. ...	5	2 2	380	107·75	...
D Ambleside (Gale House)	G. A. Johnston, Esq. M.D.	5	1 0	250 T	64·52	185
† „ (Lesketh Howe)	Mrs. Benson	5	2 6	175 T	68·29	210
D Elterwater Hall	J. Robinson, Esq.	5	1 1	243	77·20	192
Rydal (The Stepping Stones) ..	Gordon Wordsworth Esq	5	1 3	190	70·25	202
D Loughrigg (Silverthwaite)	Miss R. Sharp	5	1 0	292	68·18	186
D Dungeon Ghyli	S. A. Marshall, Esq. ...	5	0 9	310	98·87	212
„ „ „	M „ „ „	5	1 6	311	99·11	...
Mickleden	M „ „ „	5	1 6	490	116·78	...
D † Grasmere (High Close)	F. M. T. Jones Balme, Esq	8	0 9	553 T	70·67	186
D „ (Pavement End)	T. A. Green, Esq.	5	1 0	214 T	74·09	200
Ravenstonedale	Rev. R. W. Metcalfe ..	5	1 2	800 T	32·70	...
Orton Vicarage	Rev. E. Holme	5	7 0	770 T	39·99	192
D † Kirkby Stephen (Redmaine Ho.)	Mrs. T. Mason	5	1 0	574 T	30·61	153

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	1901	
WESTMORELAND—(con.)						
Fairfield	M T. A. Green, Esq.	5	ft. in.	feet.	inches.	...
"	M " " "	8	1 0	2860 T	72·57	...
D Shap Vicarage	Mrs. Collinson "	5	1 0	854 T	71·07	...
Grisedale (Ruthwaite Lodge) M	Mr. A. Milne	5	1 0	854 T	34·48	172
n†Patterdale Hall	Mr. A. Milne	8	1 6	1750	78·85	...
" (Greenside Mine).....	" "	5	1 3	490 T	69·49	202
" (Greenside Mine).....	W. H. Borlase, Esq. ...	7	1 6	1000 T	74·87	...
Appleby (Ormshed)	Rev. J. Brunskill	5	4 0	480	24·77	188
D " (Castle Bank).....	C. R. Rivington, Esq...	5	1 2	440 T	28·28	186
Ullswater (Swarth Fell)	H. S. Wallis & Dr. Mill	5	1 3	1000 T	40·00	...
" (Sharroa Bay)	Mr. G. Robinson	5	0 7	600	35·79	...
D Great Strickland (Greencroft) ...	Mrs. Whiteside	5	2 0	648	30·95	188
Lowther Castle [Penrith]	Mr. F. Clarke	8	3 0	750 T	31·33	131

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS.

MONMOUTH.

D Rumney (Witla Court)	H. Heywood, Esq.	5	1 0	176	32·32	192
D† Marshfield (Llwynarth)	F. G. Evans, Esq.	5	1 1	72 B	30·89	159
Caldicot Level (Porton)	Togarmah Rees, Esq. CE	5	1 3	27 T	24·21	140
D Portskeuett (Sudbrook)	W. K. Laurence, Esq. CE	8	0 10	22 T	26·09	138
D " (Caldicot Hall)	Rev. E. T. Williams ...	9	1 3	40	25·74	119
Newport (Friar Street Yard) ...	The Meteor. Council ...	...	...	...	32·18	156
" (Ynis-y-bro)	" " " "	5	1 0	115	29·65	163
" (Pantyreos Res.) .....	" " " " .....	...	...	...	43·83	164
D " (W. W., New Mills) ...	Baldwin Latham Esq CE	5	1 0	371 T	34·94	200
D " (" Llanvaches) ...	" " " "	5	0 10	514 T	32·98	198
D " (Wentwood)	" " " "	5	1 0	481	36·44	199
D Chepstow (Shirenewton Hall) ...	Hugh L. P. Lowe, Esq.	8	1 0	531 T	32·98	175
D " (Piercefield Park)	H. Clay, Esq.	5	1 6	310	30·28	142
D " (Itton Court)	E. Curre, Esq.	8	4 6	390	31·74	126
D Llanfrechfa Grange	F. J. Mitchell, Esq. ...	5	4 0	326 T	34·49	157
D Tredunnoch	Rev. C. T. Salusbury ...	5	2 3	170 T	30·30	154
D Newport (W. W., Newchurch) ...	Baldwin Latham Esq CE	5	0 10	496 T	34·18	199
Abersychan (The Hawthorns) ...	J. W. Mulligan, Esq. MD	5	1 0	755 T	44·24	197
D Tredegar (The Willows)	G. A. Brown, Esq. ...	8	1 0	1024 T	52·17	165
Blaenavon	C. White, Esq.	5	0 9	1030	46·18	...
D Monmouth (School House)	E. H. Culley, Esq. ...	5	1 4	76 T	27·37	165
D " (The Hendre)	Mr. T. Coomber	8	1 0	176 T	24·86	159
Abergavenny (Larchfield)	Dr. Glendinning	5	1 0	240 T	32·59	152
" (Dyne House)	Dr. Steel	5	1 5	220 T	35·31	156
" (" ")	" " " "	5	1 5	220 T	34·01	...
D " (The Chain)	W. Baker Gabb, Esq. ...	5	1 3	300	35·29	154
D Llantilio Court	Sir H. Mather-Jackson Bt	6	0 11	207	28·20	139
Llantillio Pertholey	Mr. J. Winfield	5	1 0	...	33·88	...
D Llanvihangel Court	G. C. N. Sturt, Esq. ...	5	2 4	508 T	31·89	152
D Monmouth (Pentwyn)	Rev. Canon Harding ...	5	1 0	191 B	25·91	140

DIVISION XI.—MONMOUTH, WALES AND THE ISLANDS—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1901	Days on which ·01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level		
			ft. in.	feet.	inches.	
GLAMORGAN.						
D Barry (Park Road)	J. Bell, Esq.	5	4 0	191 A	29·76	153
* Cowbridge (Fonmon Castle).....	O. H. Jones, Esq.	8	1 2	130	30·25	154
D Barry W. W. (Biglis)	E. W. Waite, Esq., C.E.	5	1 0	20 T	28·71	156
„ „ (Merthyr Doran) ..	„ „ „	5	1 0	300 T	33·37	...
„ „ (Pencoedtre)	„ „ „	5	1 0	200 T	33·49	...
D „ „ (Dinas Powis Res.) ..	„ „ „	5	1 0	165 T	30·64	165
Cardiff (Cogan Pill, Llandough) ..	C. H. Priestley, Esq. C.E.	5	1 0	122 A	30·96	169
D „ Castle.....	Mr. A. Pettigrew ..	5	1 0	38 A	35·87	171
D „ (Roath Park)	E. Walford, Esq., M.D.	5	0 4	50	36·27	153
D „ (Ely)	C. H. Priestley, Esq. C.E.	8	1 0	53 A	37·26	169
D „ (Lisvane)	„ „ „	5	1 0	150	30·58	160
„ (New Filters, Heath)	„ „ „	5	1 0	132	36·41	168
„ (Llanishen Res.)	„ „ „	5	1 0	155	33·88	161
Cowbridge (Ash Hall)	E. Tudor Owen, Esq. ...	8	1 2	315 A	38·62	176
D Llantrisant (Talgarn)	G. L. Clark, Esq.	5	4 3	250	50·30	159
D Oystermouth (Newton)	Rev. Secretan Jones ...	5	0 9	279 T	38·51	170
D Port Talbot (Murgam, Twyn-yr-hydd)	G. Lipscomb, Esq.	5	1 0	180 T	38·73	160
Gilfach Goch (Gilfach House) ..	W. W. Hood, Esq. ...	8	9 0	700 T	45·66	139
Pontypridd (The Reservoir)	W. Jones, Esq.	5	1 0	300	47·60	150
„ (Maesderwen, Graig) ..	T. Bowen, Esq.	5	10 0	425 T	43·83	170
Caerphilly (Ystrad Mynach) ..	Col. Morgan Lindsay ...	8	0 5	315 A	42·94	...
Swansea (Le Mayals)	J. E. Stevens, Esq. ...	8	1 6	230 T	43·32	142
„ (Killay House)	M. B. Williams, Esq. ...	5	0 6	265	39·56	153
D „ (The Knoll).....	E. H. Perkins, Esq. ...	8	1 0	150 T	40·90	190
D „ (Glanmor Crescent) ..	T. Travers Wood, Esq.	5	1 0	235 A	40·16	174
Llwynypia (Glyncornel)	W. W. Hood, Esq. ...	10	4 0	456 T	65·42	178
D „ „ „	„ „ „	8	3 3	456 T	60·64	178
Briton Ferry	H. A. Clarke, Esq. ...	5	1 0	33 A	42·40	139
Morriston (Glanravan)	J. Naysmith, Esq.	5	1 0	53 A	42·95	167
D Ystradyfodwg (Fever Hospital) ..	J. D. Jenkins, Esq., M.D.	5	1 0	590 T	57·45	157
D Neath	E. C. Pole, Esq.	5	1 0	204 A	43·96	178
D „ (Fairy Land)	Major E. Ll. Green ...	5	1 9	175 A	38·47	188
D† Glyncorrwg	T. F. Brown, Esq., C.E.	5	4 6	717 B	64·84	179
D Cwmaman	W. J. Heppell, Esq. ...	5	2 3	740 T	56·48	159
D Rhondda (Pont Lluest Wen Res.) ..	W. Jones, Esq.	5	1 0	1255	51·49	153
Blaenrhondda (Craig Carn Mosyn) ..	O. Thomas, Esq.	5	1 0	1501	50·10	...
D Mountain Ash (Maesydderwen) ..	M. Morgan, Esq.	5	1 0	483 A	45·46	169
D „ „ (Darranlas Res.) ..	J. Williams, Esq.	5	1 0	540	53·90	196
„ „ (Clydach Res.) ...	„ „ „	5	1 0	937	60·05	165
D Treherbert (Bute Colliery)	Sir W. T. Lewis, Bt. ...	5	1 0	670	60·40	156
D† „ „ (Tyn-y-waun)	O. Thomas, Esq.	5	1 0	801	70·10	192
† „ „ „	„ „ „	5	1 0	801	71·78	...
D Gorseionon (Penllergaer)	Sir J. T. D. Llewelyn, Bt.	5	3 0	240 T	44·16	168
D Aberdare (The Mardy)	Sir W. T. Lewis, Bt. ...	5	2 0	431 A	49·89	155
D† „ „ (Abernant)	Evan Jones, Esq. ...	5	4 6	430	44·43	138
D Felindre (Lliw Reservoir)	R. H. Wyrill, Esq., C.E.	8	1 3	426 T	48·02	184
Merthyr (Pentrebach)	V. J. Parry, Esq.	5	1 0	488 T	47·32	141

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which .01 or more fell.	
		Diameter	Height Above Ground.		Height Above Sea Level		1901
			ft.	in.	feet.	inches.	
GLAMORGAN—(con.)							
D Dowlais (Gwernllwyn)	R. C. Harrison, Esq....	5	1	6	1084 N	48·91	182
D Ystalyfera (Wern School)	Mr. J. Williams.....	5	1	3	240 T	57·45	175
CARMARTHEN.							
D Llanelly (Old Market Place) ...	G. Watkeys, Esq., C.E.	5	10	0	35 T	40·75	183
D „ (New Road)	J. F. Young, Esq.....	5	0	8	53 T	39·68	175
D „ (Cwmlledi W.W.).....	G. Watkeys, Esq., C.E.	5	3	0	240 N	45·10	200
Carmarthen (The Friary).....	L.M. Bowen-Jones, Esq.	5	1	5	62 T	38·90	167
Llandilo (Dynevor Castle)	Rt. Hon. Lord Dynevour	8	1	0	202 T	51·41	190
D Llandovery	J. Watkins, Esq.	5	1	0	217 T	39·69	217
D „ (Toun)	F. H. Perkins, Esq. ...	5	1	2	230 T	38·78	198
D Llanwrda (Dolaucothy).....	Gen. Sir JH Johnes, GCB	5	2	6	496 T	47·65	207
PEMBROKE.							
Pembroke (Stackpole Court).....	Rt. Hon. Earl of Cawdor	6	1	6	60 N	35·36	173
St. Ann's Head	The Meteor. Council ...	8	0	8	150	36·53	178
D Pembroke Dock (County School)	G. H. West, Esq.	5	...	...	85	56·41	190
D Haverfordwest (Picton Castle)...	Sir C. E. G. Philipps, Bt.	6	1	0	138	43·66	179
„ (Haroldston Ho.)	Capt. C. H. Young ...	5	1	6	20 ?	43·15	...
D „ (High Street) ...	E. P. Phillips, Esq. ...	5	1	0	95 T	45·50	180
D St. David's	Dr. W. P. Probert.....	5	1	0	216	33·87	182
D Castle Malgwyn [Llechryd]	Mr. Baldwin	5	1	0	...	45·50	193
CARDIGAN.							
D Strata Florida (Hafod).....	T. J. Waddingham, Esq	5	1	0	580 T	50·75	189
Aberystwith (Castle Grounds) ...	A. Thomas, Esq.	8	1	0	59	26·12	189
„ (N. Parade)	„ „	8	1	0	18	32·66	189
D „ (Gogerddan)	Sir Pryse Pryse, Bart..	5	1	0	80 B	43·57	156
BRECKNOCK.							
D† Nanthir Reservoir [Aberdare] ..	O. Williams, Esq., C.E.	5	1	0	860 N	48·39	204
„ „ „ „ [„] M	„ „ „ „	5	1	0	860 N	48·68	...
Ebbw Vale Waterworks	T. J. Thomas, Esq., C.E.	5	1	0	1413 N	46·24	201
D† Taff Fechan (Pentwyn Res.) ...	T. F. Harvey, Esq., C.E.	5	1	0	1120	54·50	200
† „ „ „ „ „ M	„ „ „ „	5	1	0	1120	53·95	...
† Cardiff WW (Cwm Taff Fawr No 5)	C. H. Priestley, Esq. C.E.	5	1	0	1143 N	50·37	...
„ „ „ (Storey Arms, No. 4).	„ „ „ „	5	1	0	1430	57·87	...
† „ „ „ (Cwm Taff Fawr No 1) M	„ „ „ „	5	1	0	2350 T	60·25	...
„ „ „ (Cantref Res., No. 2)	„ „ „ „	5	1	0	1120	56·70	185
D „ „ „ (Beacons Res., No. 6)	„ „ „ „	5	1	0	1328 N	66·93	188
„ „ „ „ (Nant Penig, No. 3) ..	„ „ „ „	5	1	0	2000	69·84	...
D† Taff Fechan (Neuadd Res.) No. 1	T. F. Harvey, Esq., C.E.	5	1	0	1462	53·48	166
† „ „ „ „ „ No. 1 M	„ „ „ „	5	1	0	1462	53·41	...
D „ „ „ „ „ No. 4	„ „ „ „	5	1	0	1487	62·64	166
„ „ „ „ „ No. 2 M	„ „ „ „	5	1	0	1993	61·18	...
„ „ „ „ „ No. 5 M	„ „ „ „	5	1	0	1515	66·83	...
„ „ „ „ „ No. 7 M	„ „ „ „	5	1	0	2017	65·78	...
„ „ „ „ „ No. 8 M	„ „ „ „	5	1	0	1723	66·45	...

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(*continued*).

STATIONS.		AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which -01 or more fell
			Diameter	Height Above Ground.	Height Above Sea Level	1901	
				ft. in.	feet.	inches.	
BRECKNOCK—(con.)							
Taff Fechan (Neuadd Res.)	No. 3M	T. F. Harvey, Esq., C.E.	5	1 0	1843	46·85	...
" "	{ " " } No. 9M	" " "	5	1 0	1997	44·86	...
" "	{ " " } No. 6M	" " "	5	1 0	2099	75·96	...
Crickhowell (Glanusk Park)	.....	Sir J. R. Bailey, Bt. ...	5	1 0	290	36·55	163
" (Gwernvale)	.....	E. Pirie Gordon, Esq. ...	5	1 0	393 A	34·20	162
" (Penmyarth)	.....	S. H. Cowper Coles, Esq. ...	5	1 0	330	31·82	178
Talybont (Cui)	.....	H. Jones Williams, Esq. ...	5	1 0	490 T	40·60	...
† Cantreff Rectory	old g.	Rev. J. J. Evans	5	1 0	630 T	43·34	...
" "	new g.	" "	5	1 0	630 T	41·47	166
d Llanfrynach (Tymawr)	.....	Lt.-Col. R D G Williams	5	1 0	450 T	40·48	195
d † Brecknock (Llandefaelog-fach)	No. 1	the late Rev W Williams	5	1 0	660 T	36·63	196
" { " " }	No. 2	" " "	5	1 0	660 T	37·43	197
Hay (Gwernyfed Park)	.....	Major Wood	5	1 6	375 A	28·84	174
d Llangammarch Wells	.....	Dr. W. Black Jones	8	1 0	551 A	43·01	204
d Builth (Tyn-y-berllan)	.....	Dr. Baldock Fry	5	1 0	430 T	35·37	163
d † Abergwesyn Vicarage	.....	The late Rev. J. Jones.	5	1 0	904 A	61·07	221
d Brynwern Hall [Newbridge]	.....	Rev. W. Clifton-Mogg.	5	1 6	520 T	35·44	191
Llys dinam [ " ]	.....	Mrs. Lister Venables	5	1 3	640 T	36·88	201
RADNOR.							
Woodlands [Glasbury]	.....	A. Battiscombe, Esq.	5	1 0	300 T	28·08	166
d Welfield [Builth]	.....	E. A. Thomas, Esq. ...	5	1 10	740 T	34·31	132
Disserth Rectory	.....	The Meteor. Council ...	5	1 0	712	35·84	189
Llandrindod Wells	.....	Dr. Bowen Davies	5	1 0	711	29·18	181
d New Radnor (Ednol)	.....	Mr. W. Jones	5	1 0	950	37·80	188
Llandegley (Gwern-i-Arglwydd)	.....	Mr. J. Campbell	5	2 0	1000	32·18	166
† Rhayader (Nant-y-car)	..... M	G. M. Yourdi, Esq., CE	5	1 0	1545	62·50	...
d † " (Tyrmynydd)	.....	" " "	5	1 0	832 A	54·23	210
d † " (Nantgwillt)	old g.	" " "	5	1 0	768 A	52·53	203
d " (")	new g.	" " "	5	1 0	764 A	55·04	203
† " (Bwlchyrhendre)	M	" " "	5	1 0	1585	56·60	...
d † " (Claerwen)	.....	" " "	5	1 0	1250	55·70	185
" Vicarage	.....	Rev. L. H. Evans	5	1 0	720 T	45·45	158
† " (Pryddellau)	..... M	G. M. Yourdi, Esq., C.E.	5	1 0	1710	55·90	...
d " (Abergwyngy)	.....	" " "	5	1 0	1200	58·30	173
Knighton	.....	Dr. T. W. Graves	5	1 2	670	30·16	...
" (Ystrad House)	.....	E. P. Fairbairn, Esq. C.E.	5	1 0	564 A	30·84	...
MONTGOMERY.							
† Llangurig (Esgair Clochfan)	M	H. S. Wallis & Dr. Mill	5	1 2	1330	40·20	...
† " (Ystrad-olwyn-fawr)	M	" " "	8	1 0	950	44·20	...
" { " " } new g.		" " "	5	1 0	950	40·90	...
d Llandinam (Plas Dinam)	.....	D. Bowen, Esq.	5	4 0	504 T	35·17	185
d Newtown (Dolfor)	.....	W. B. Pugh, Esq.	5	2 6	1027	31·61	162
d † Churchstoke (Mellington Hall)	..	P. Wright, Esq.	5	1 6	540 A	30·63	169
† " (") M		" " "	5	1 6	540 A	30·76	...
d Welshpool (Leighton Hall)	.....	Mrs. F. Naylor	5	1 0	400 T	30·49	187
d " (Pool Quay Vic.)	.....	Rev. R. J. Roberts	5	1 0	230 A	29·13	184

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1901	Days on which ·01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level		
			ft. in.	feet.	inches.	
MONTGOMERY—(con.)						
Garthbibio (Bwlch Tomlyd)...M	H. S. Wallis & Dr. Mill	5	1 0	1370 †	83·30	...
Meifod (Tan-y-fron)	A. George, Esq.	5	1 0	310	27·44	...
d Lake Vyrnwy	E. D. Marten, Esq. C.E.	5	0 7	770 †	49·83	189
FLINT.						
Hawarden	Gt. Central R. Co.....	9	3 6	35	24·59	189
† Flint (Soughton Hall, Northop).	J. Eldon Bankes, Esq..	5	1 0	418	32·05	182
d Bodfari (Henblas)	Mrs. Scott Bankes	5	1 0	283 †	29·22	179
St. Asaph (Nantlys)	P. P. Pennant, Esq. ...	5	1 0	173 †	28·04	164
Bagillt Lead Works	I. Roberts, Esq.	5	1 0	20	30·46	126
Prestatyn (Edlestone House) ...	T. J. Scott, Esq.	5	1 0	30	25·91	144
DENBIGH.						
d Llangadwaladr (Penygwely Res.)	G. W. Lacey, Esq., C.E.	5	1 0	1094	35·22	174
Wrexham (Pack Saddle Res.) ...	F. Storr, Esq.	5	0 9	370 †	32·93	143
„ {Cae Llwyd Res.} ...	„ „	8	0 9	918 †	38·79	178
„ {„ „ „} ...	„ „	5	0 9	918 †	38·34	178
d „ {Broughton}	J. Hall, Esq.	5	1 0	500 †	34·82	186
Gresford (Trewythen)	Miss Howell Evans ...	5	1 0	350	28·44	183
d Rossett (Trevalyn Hall)	Capt. Griffith Boscawen.	5	1 0	58 †	27·26	170
Nantglyn (Pant-y-maen)	W. Barker, Esq.	8	1 0	1320 †	53·07	...
d Llangerniew (Hafodunos)	Col. Sandbach	5	1 0	512 †	44·49	180
Llanefydd (Rhyl W.W., S.)...M	L. G. Hall, Esq., C.E..	5	1 0	600	28·80	...
„ {„ „ „ W.)...M	„ „ „	5	1 0	580	29·32	...
„ {„ „ „ E.)...M	„ „ „	5	1 0	570	26·58	...
„ {Plas Uchaf Res.} ...	„ „ „	5	1 0	485	29·07	132
d „ {Glascoed Reservoir}..	„ „ „	5	1 0	350	28·48	173
d Llangyhanfal (Plas Draw)	Col. C. J. Bromhead, C.B.	5	1 0	419 †	31·24	207
Denbigh (Llyn Bran, Bylchau)..	W. Barker, Esq.	8	1 0	1428 †	50·27	...
d „ {Garn}	W. D. W. Griffith, Esq.	5	1 0	447 †	33·33	181
Trefnant (Maes Elwy)	Major Birch	5	2 0	170 †	26·09	123
Colwyn Bay (Bryn Euryn)	Mr. T. Hutchings	5	1 0	125 †	27·56	172
MERIONETH.						
d Towyn (Peniarth)	W. R. M. Wynne, Esq.	9	1 0	25	46·19	164
d Llanbedr (Minafon)	H. G. Hollingworth, Esq.	5	1 2	33 †	43·43	203
d Bala (Eryl Aran)	Mrs. Burton	8	1 0	590 †	50·62	197
d Llanderfel (Palé Gardens)	Mr. T. Ruddy	8	1 0	606 †	48·67	210
Arenig (Bodrenig)	E. Jones, Esq.	5	1 0	1100 †	46·03	162
d Tan-y-bwlch (The Gardens) ...	Mr. J. Roberts	5	1 0	50 †	60·60	209
d Rhiwbryfdir = Oakley Quarries..	Mr. R. Roberts	5	10 0	1100	82·42	196
CARNARVON.						
d * Llanystumdwy (Talarvor)	Dr. J. Roberts	5	2 0	49 †	38·31	193
Dolwyddelan (Upper Nhadog) No. 2	J. R. Gethin Jones, Esq.	5	1 0	1600	145·65	...
„ (Lower „ „) No. 5	„ „ „	5	1 0	1100	133·10	...
„ (Cwm Edno) No. 14	„ „ „	5	1 0	1100	114·20	...
„ (Tynyddol) ... No. 1	„ „ „	5	1 0	600	100·65	...

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level	1901	
			ft. in.	feet.	inches.	
CARNARVON—(con.)						
Llandwrog (Glynllivon Park) ...	Hon. F. G. Wynn.....	5	1 0	100 T	44·32	...
" { " Nursery)	" "	5	1 0	200 T	45·74	...
" { " Garden).	" "	5	1 0	100 T	42·28	...
" { " Fort) ...	" "	8	1 0	220 T	39·24	...
" (Bodfean)	" "	5	1 6	168 T	44·38	...
Snowdon (Llydaw).....No. 12	J. R. Gethin Jones, Esq.	5	1 0	1450	169·50	...
" (Glaslyn).....No. 13	" "	5	1 0	2500	186·70	...
d Bettws-y-coed (Aberllyn).....	Mssrs Brunner Mond & Co	5	5 6	674 T	47·49	169
Idwal Lake, South End, No. 6...	J. R. Gethin Jones, Esq.	5	1 0	1250	104·10	...
Capel Curig (Lake Cowlyd)	T. B. Farrington Esq. CE	8	1 3	1168 T	73·30	...
Carnarvon (Belan Fort).....	Hon. F. G. Wynn.....	5	1 0	26 T	33·03	...
Eigiau Upper, No. 15	J. R. Gethin Jones, Esq.	5	1 0	2000	118·25	...
" Lake, No. 3	" "	5	1 0	1650	103·00	...
" " (Caedryn)... No. 8	" "	5	1 0	1250	91·45	...
Lake Cowlyd (Upper Brwynog) No. 16	" "	5	1 0	1100	87·46	...
" " (Lower ") No. 18	" "	5	1 0	1000	67·12	...
Frith Rhos	" "	5	1 0	1100	71·14	...
d Llanbedr-y-Cennin (Plasdulyn).	E. P. Stephenson Esq. CE	8	1 0	509 T	53·90	171
" " " (Llyndulyn)	" "	8	1 6	1622 T	99·40	...
d Bangor (Glasinfryn)	J. R. Gethin Jones, Esq.	5	1 0	200	41·10	171
d " (Bethesda, St. Anne's Vic.)	Rev. W. Morgan	5	1 3	500	52·14	183
" { " Penrhyn Quarry)	The Meteor. Council ...	8	1 0	528	57·78	202
" (Penrhyn Castle Gdns.) ..	Mr. W. Speed	6	1 0	150	32·99	190
d Llanfairfechan	Mr. W. Timmins	5	1 0	144	35·55	198
d† Llandudno	Mr. W. Little	5	1 0	72 T	28·69	200
ANGLESEA.						
Llandwyn Island	Hon. F. G. Wynn	5	1 0	40 T	21·57	...
d Llangadwaladr (Bodorgan)	Mr. W. Pilgrim	8	1 0	...	33·71	146
Llangristiolus (Lledwigan)	T. Winter, Esq.	5	1 0	100	31·32	138
Penmynydd Vicarage	Rev. H. D. Owen	5	5 0	300	32·58	195
Holyhead	The Meteor. Council ...	8	...	...	33·72	190
d Llanfachreth	Major Muckleton-Allen	5	6 0	40	44·64	142
Llanerchymedd Llwydiarth Esgob	T. Prichard, Esq.	5	1 0	175 L	37·25	203
d Lligwy	Rt. Hon. Lord Boston..	5	1 0	180	33·18	162
ISLE OF MAN.						
Castletown (Langness)	Bd. of Northern Lights	...	...	...	37·83	...
Santon Vicarage	A. W. Moore, Esq. ....	...	...	250	29·86	159
d Douglas (Woodville)	H. Story, Esq.	8	1 0	160 L	41·92	190
" (Elsinore)	A. W. Moore, Esq. ...	...	...	...	43·08	193
" (Baldwin) .....	" " .....	...	...	...	49·44	...
" (Cronkbourne)	" "	8	0 10	138 T	43·86	189
" (Clype, Onchan)	" "	8	1 0	439 T	46·12	...
Bishop's Court .....	" " .....	...	...	80	38·27	134
Point of Ayre	Bd. of Northern Lights	3	4 6	...	29·22	...

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level	1901	
			ft. in.	feet.	inches	
ISLES OF SCILLY.						
St. Mary's	The Meteor. Council ...	8	1 6	77 L	32·55	191
†Tresco Abbey	T. A. D. Smith, Esq... 11		3 0	40	33·45	195
JERSEY.						
d St. Helier (St. Louis Observatory)	Rev. M. Dechevrens ...	8	5 0	180	23·90	158
St. Aubins	The Meteor. Council ...	8	1 0	...	29·56	188
GUERNSEY.						
d St. Martin's (Les Blanchés)	B. T. Rowswell, Esq....	5	1 0	310 T	26·60	171
d L'Erée (Claire Mare)	J. J. Carey, Esq., C.E..	5	1 0	48 L	21·90	151
d St. Peter Port (Beaulieu)	A. Collenette, Esq. ...	5	1 0	190 L	27·97	176
d " " (Villa Carey).....	Dr. F. Carey	8	1 2	180	23·34	180
" " (" ")... M	" "	5	1 2	180	23·30	...
d L'Ancrese	A. Collenette, Esq.....	5	1 0	33 T	24·18	153

SCOTLAND.

DIVISION XII.—SOUTHERN COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell.
		Diameter	Height Above Ground.	Height Above Sea Level	1901	
			ft. in.	feet.	inches.	
WIGTON.						
Mull of Galloway	Bd. of Northern Lights ...	...	...	...	28·24	125
Whithorn	Dr. J. F. Smith	5	2 3	207 π	43·43	174
„ (Cutroach)	J. G. Martin, Esq.	5	0 6	120 Γ	36·25	168
Garliestown (Galloway Ho.)	Mr. J. Day	5	4 6	20 ?	40·76	142
Stoneykirk (Ardwell House)	Sir M. J. Stewart, Bt. MP	8	3 9	107 Γ	38·12	143
Corsewall	Bd. of Northern Lights ...	...	3 4	22 ?	29·50	154
KIRKCUDBRIGHT.						
Little Ross	Bd. of Northern Lights ...	...	3 3	130 ?	23·57	131
Kirkcudbright (Balmae)	The Countess of Selkirk	5	0 8	150	30·64	...
Auchencairn (Torr House)	W. Ovens, Esq.	5	0 8	50	44·28	...
Dalbeattie (Colvend Manse)	the late Rev. Dr. Fraser	5	1 6	120 Γ	33·43	...
Gatehouse (Cally)	Dr. Buchan, F.R.S. ...	5	1 0	120	54·29	158
Dalbeattie (Little Richorn)	Mr. W. Kerr	5	0 9	35 \perp	43·36	163
Creetown (Cassencary)	JA Henryson-Caird, Esq	5	0 8	40	41·09	..
Kirkpatrick Durham (Glenlair) ..	Major W. Maxwell ...	5	0 6	250 Γ	43·62	160
Cargen [Dumfries]	R. F. Dudgeon, Esq. ...	5	1 0	80 π	42·44	145
Dalry (Glendarroch)	Miss M. Barbour	5	0 11	192 π	50·80	193
„ (The Old Garroch)	T. R. Bruce, Esq.	8	6 0	432 π	53·59	203
Irongray (Drum Park)	D. J. Kay, Esq.	5	1 0	230	45·36	...
Glenhead of Trool	J. McMillan, Esq.	5	0 11	320	73·03	...
Carsphairn (Holm of Dalquhairn)	Miss McMillan	5	1 2	900	50·93	...
DUMFRIES.						
Dumfries (Ivy Bank)	Rev. W. Andson	8	0 10	70 Γ	34·48	187
„ (Dalawoodie House) ..	Miss Anstruther	5	...	...	39·21	174
Canonbie (Byreburnfoot)	Mr. D. Crabbe	3	0 9	...	34·75	...
Langholm (Westwater)	J. M. Elliot, Esq.	3	0 9	450	51·37	...
„ (Drove Road)	Mr. W. Jackson	5	0 9	270	45·04	159
Moniaive (Glencrosh)	Miss McMillan	5	1 2	350	50·55	191
„ (Maxwelton House) ...	Rev. Sir E. Laurie, Bt.	8	1 2	400 π	44·97	198

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	1901	
DUMFRIES—(con.)						
Langholm (Ewes School)	Mr. J. C. Lyall	3	1 0	445 T	44·85	...
„ („ Burnfoot)	J. C. Little, Esq.	3	1 0	541 T	45·35	...
Durrisdeer (Drumlanrig Gardens)	Mr. D. Inglis	5	0 9	191	43·91	149
Moffat (Craigielands).....	Mr. L. Frazer.....	5	0 9	360 T	49·27	...
D „ (Auchen Castle).....	Mr. W. McAdam	5	0 6	500	49·60	222
„ (Ericstane).....	Mrs. J. J. Welsh	3	0 6	580 T	48·35	...
„ („)..... <i>Snowdon</i>	„ „ „	5	1 6	580 T	48·55	...
ROXBURGH.						
Hawick (Wolfelee)	Dr. Buchan, F.R.S. ....	...	...	587	34·03	144
D „ (Braxholme)	J. G. Winning, Esq.....	5	0 6	457 T	28·44	146
D Jedburgh (Anerum Bridge)	A. Johnston, Esq.	5	2 0	229	28·25	162
D Lilliesleaf (Riddell)	Gen. Sprot	5	0 8	550 T	32·99	201
D „ („)	Mr. J. Williamson.....	5	0 8	500 T	30·66	160
D St. Boswell's (Elliston).....	Hon. Mrs. G. Dalrymple ..	5	1 0	252	27·11	175
D Kelso (Springwood Park)	Mr. W. Chaplin	10	1 0	130 L	23·29	138
„ (Broomlands)	Dr. Buchan, F.R.S. ....	...	...	205	26·98	188
D Melrose (Asylum)..... <i>old g.</i>	Mr. A. C. Pattman ...	5	0 6	480 T	31·39	201
„ („)	„ „	5	1 0	480 T	30·42	201
Wooplaw [Galashiels]	J. Murray, Esq.....	5	1 0	880 T	28·53	160

DIVISION XIII.—SOUTH EASTERN COUNTIES.

SELKIRK.						
D Selkirk (The Hangingshaw) ...	Miss Johnstone	5	0 6	670 T	31·43	139
Galashiels (Abbotsford Rd.)	Dr. Somerville	5	0 8	416 T	32·19	167
„ (Stantling Craigs) ..	Mr. W. Ross	12	1 3	800	31·32	...
PEEBLES.						
Innerleithen (The Glen)	Dr. Buchan, F.R.S. ....	...	...	...	33·20	...
„ (Leithen Lodge) ...	Mr. D. Clark	11	0 0	700 T	39·99	...
Stobo Castle	Dr. Buchan, F.R.S. ....	...	...	600	32·80	141
Peebles (Swinton Bank)	C. A. Ainslie, Esq.	5	0 6	600	33·51	...
D West Linton (Rutherford House) ..	E. Cameron, Esq.	5	3 9	970 T	34·75	163
Eddlestone (Portmore Res.)	W. Anderson, Esq.	11	0 6	1000	31·28	171
N. Esk Reservoir [Penicuik] ..	Mr. W. Tod	11	0 6	1150 T	34·65	...
BERWICK.						
D Earlston (Cowdenknowes)	Mr. J. Robertson	5	0 10	360	29·84	186
D Coldstream (The Hirsell)	Mr. J. Cairns	5	1 0	94 T	23·89	174
D Marchmont House	Mr. J. A. Wood	5	1 0	500 T	27·18	182
D Duns Castle	Mr. R. Aikman	5	1 0	500	29·18	139
D „ (Manderston)	Mr. J. Hamilton	8	1 6	220 ?	24·22	123
Longformacus (Rawburn)	J. H. Craw, Esq.	3	1 0	920 T	31·60	...
St. Abb's Head	Bd. of Northern Lights	8	4 3	200	21·65	101

DIVISION XIV.—SOUTH WESTERN COUNTIES.

Leadhills.....	Dr. Buchan, F.R.S.	1300	62·32	216	
o Biggar (Cambus Wallace)	Captain Paul	6	0	6	748 7	27·46	159

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	1901	
			ft. in.	feet.	inches.	
LANARK—(con.)						
Lanark (Rhyber Lodge)	R. Swann, Esq.	6	3 0	650	25·70	...
D Cleghorn	W. Elliott Lockhart, Esq.	3	0 3	720	35·62	187
Carlisle (Mauldslee Castle)	Mr. D. Bryson	5	1 0	140	31·77	120
D Dalzell House	Lord Hamilton of Dalzell	6	5 6	89 †	29·25	146
Hamilton Water Works	Mr. R. Watson	7	1 0	436 †	32·70	...
D „ (Ardenclutha)	Rev. T. M. B. Paterson	5	1 9	260 †	33·47	157
Bothwell	Dr. Buchan, F.R.S. ....	...	...	...	31·95	170
„ Castle	Mr. W. F. B. Archibald	10	18 0	146 †	28·76	164
Glasgow (Tollcross Park)	J. Whitton, Esq. ....	...	...	85	35·28	181
„ (Green Park)	„ „ „	5	0 6	35	35·82	162
„ (Bellahouston Park) .....	„ „ „ .....	...	...	160	32·18	176
„ (Alexandra Park)	„ „ „	5	0 6	141	33·14	187
„ (George Square) .....	„ „ „ .....	...	...	40	33·80	171
„ (Kelvin Grove Park)	„ „ „	5	0 6	48	33·72	173
„ (Belvedere Hospital)	Dr. Buchan, F.R.S. ....	...	...	54	33·79	187
„ Observatory	Prof. Becker	11	2 0	182	32·91	181
„ (Springburn Park)	J. Whitton, Esq.	5	0 6	361	30·44	135
D Airdrie (Hillend Reservoir)	Mr. W. A. Ritchie	6	4 6	620 †	32·05	183
AYR.						
D Ballantrae (Glendrishig)	P. Murdoch, Esq.	5	1 0	42	33·23	156
Barrhill (Dochroyde)	M. Mr. J. Scott	6	0 9	548 †	46·38	...
D Colmonell (Clachanton)	R. Aitken, Esq.	6	0 6	140 †	46·57	155
D Girvan (Pinmore)	Hugh Hamilton, Esq.	5	1 0	187 †	50·40	185
D Barr Manse	Rev. G. Dods	5	1 0	330	54·58	197
Girvan (Glendoune Gardens)	Mr. J. Simons	5	1 0	150 †	41·90	117
Ailsa Craig	Bd. of Northern Lights	3	5 0	...	21·41	...
Loch Finlas	J. Young, Esq.	5	1 0	849	51·22	...
Girvan (Turnberry)	Bd. of Northern Lights .....	...	...	...	34·55	106
D Maybole (Culzean Gardens)	Mr. D. Murray	9	3 0	200	36·85	157
D „ (Knockdon Farm)	A. Cross, Esq.	6	1 6	...	35·14	...
Ayr (Newark Castle)	John S. Alston, Esq. ....	...	...	200	39·48	169
„ (Doonholm)	J. Kennedy, Esq.	5	1 0	90	37·43	...
Muirkirk (Glenbuck)	Mr. W. F. Hamilton	6	1 0	900	34·85	...
Kilmarnock (North Craig)	R. Blackwood, Esq.	12	1 0	319 †	39·05	...
D Dalry (Blair)	Mr. W. Rae	5	1 0	160	43·90	170
Dunlop (Dunlop House)	Maj. J. F. Dalrymple Hay	6	2 0	550	56·20	...
Paisley W. W. (Camphill)	J. Lee, Esq.	12	1 6	611	51·20	...
Shaws W. Works (Kelly Dam)	D. Macalister, Esq.	6	1 0	640 ?	55·50	...
„ „ (Knockencorsan)	„ „ „	6	1 0	1040	53·60	...
RENFREW.						
Lochwinnoch (Garthland)	H. Macdowall, Esq.	5	0 11	150	58·65	157
„ (Castlesemple)	Mr. C. Jamieson .....	...	...	240	38·85	121
Gorbals's Dist. { Ryat Lynn	J. M. Gale, Esq., C.E.	8	0 5	310	41·15	...
{ Waulk Glen	„ „ „	12	0 5	280	39·80	...
{ Middleton	„ „ „	12	0 5	550	48·90	...
{ Nether Cairn	„ „ „	12	0 5	700	36·20	...

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	1901	
RENFREW—(con.)							
Paisley W. Works	{ Stanely	J. Lee, Esq.	12	1 0	190	35·19	...
	{ Back Thornleymuir	” ”	12	1 0	646	48·31	...
	{ Muirhead	” ”	12	1 0	482 ∇	48·35	...
	{ Springside	” ”	12	1 0	532 ∇	51·46	...
D	Glasgow (Queen's Park)	J. Whitton, Esq.	8	0 9	144 ∇	34·65	164
	” (Maxwell Park)	” ” ”	5	0 6	69	37·89	163
	Paisley (Crookston)	Major Hotchkis	3	0 5	...	31·60	120
	” (The Coats Observatory)	Dr. Buchan, F.R.S. ....	...	...	107	35·35	192
Shaws Water Works.	{ Duchall Moor	D. Macalister, Esq., C.E.	6	1 0	1150	63·20	...
	{ Creuch Hill	” ” ”	6	1 0	1350	52·70	...
	{ Largs Road	” ” ”	5	1 0	910	46·73	...
	{ Green Water	” ” ”	6	1 0	788 ∇	58·90	...
	{ Gryfe Reservoir	” ” ”	6	1 0	640 ∇	55·70	162
	{ Mansfield	” ” ”	5	1 0	573 ∇	53·12	211
	{ Compensation Reservoir	” ” ”	5	1 0	600	55·73	231
	{ Loch Thom	” ” ”	5	1 0	643 ∇	56·76	230
	{ Shielhill	” ” ”	6	1 0	962 ∇	56·40	...
	{ Darndaff Moor	” ” ”	6	1 0	850	55·50	...
	{ Spango Burn	” ” ”	6	0 9	757 ∇	51·20	...
	{ Hole Glen	” ” ”	5	1 0	603	52·87	215
	{ New Yetts Dam	” ” ”	5	1 0	800	59·49	217
	D	{ Prospect Hill	” ” ”	5	1 0	233	53·09	190
	Bishopton (Ingliston)	D. Cross, Esq.	5	1 0	195	37·26	...
	Langbank (East Bank Gardens)	A. Cross, Esq.	5	2 6	...	41·43	...

DIVISION XV.—WEST MIDLAND COUNTIES.

DUMBARTON.

D	Dumbarton (Leven Shipyard) ...	Messrs. Denny Bros.	5	1 0	9 ∇	38·69	201
	Helensburgh (Fernigair)	J. R. Wilson, Esq.	6	0 6	16	37·11	185
D	" (Water Works)	" " "	6	0 6	300	35·87	185

STIRLING.

	Muiravonside Ho. [Linlithgow]	C. Stirling, Esq. ....	...	...	175	27·95	...
	Strathblane (Mugdock Reservoir)	J. M. Gale, Esq., C.E.	8	0 6	320	35·30	...
	" (Craigend Castle) ...	Sir J. Buchanan, Bart.	5	0 9	543 ∇	51·24	...
	" (Craigbarnet)	C. Stirling, Esq. ....	...	...	315	49·80	...
	" (Blane field) .....	" " .....	...	...	...	46·50	...
	Kilsyth (Currymire)	T. E. Lander, Esq.	5	1 2	...	39·18	...
	Falkirk (Inglewood, Laurieston)	W. Ballantine, Esq.	5	1 3	133	27·28	...
	" (Kerse)	C. Brown, Esq.	8	1 0	18 ∇	27·80	...
	" (")	" "	5	0 10	18 ∇	27·28	...
	Little Denny Reservoir	C. Massie, Esq.	8	1 0	325 ∇	35·60	...
	Earlsburn Reservoir	" "	8	1 0	1202 ∇	46·58	...
	St. Ninians (Faughlin)	" "	8	1 0	707 ∇	47·83	...
	Stirling (Touch Reservoir)	C. Stirling, Esq. ....	...	...	755	36·54	...
	" (Polmaise Gardens)	Mr. W. W. Ritchie	6	1 3	12	28·89	...

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1901	
			ft. in.	feet.	inches.	
STIRLING—(con.)						
Stirling (Victoria Place)	R. Kidston, Esq.	5	2 10	100	28·07	...
Buchlyvie (The Manse).	Rev. J. A. Macdonald..	5	1 3	118 T	42·73	215
Gargunnoch	C. Stirling, Esq.....	5	5 8	85 T	34·36	...
Kippen (Garden House) .....	" " " .....	...	...	...	39·89	...
Bridge of Allan	Laurence Pullar, Esq... 5	0 3	120	29·66	...	...
Ben Lomond	J. M. Gale, Esq, C.E... ..	...	...	1800	83·90	...
Glengyle .....	" " " .....	...	...	380	76·70	...
BUTE.						
Arran (Pladda)	Bd. of Northern Lights ...	...	...	...	51·19	144
Holy Island (Lamlash)	" " "	3	0 3	...	50·30	142
Kingarth (Plann)	H. Hastings, Esq.	5	1 3	75	37·07	...
Rothesay (Barone Cottage)	J. Kay, Esq.	5	1 0	116 T	44·08	196
" (Crichton Road).....	H. Lauder, Esq.....	5	4 0	97	47·59	205
ARGYLL—(MAINLAND.)						
Tighnabruaich	A. S. Cousland, Esq. ...	5	4 0	30 B	48·03	181
"	" " "	12	5 0	50 B	53·58	181
Loch Eck (Benmore).....	H. J. Younger, Esq. ...	5	1 3	40	77·15	168
Lochgilphead (Poltalloch).....	Mr. D. S. Melville.....	6	4 6	135	46·85	184
" " "	" " "	8	0 6	135	44·03	...
Inveraray (Castle Gardens)	Mr. G. Taylor	5	1 0	40	67·36	219
" (Newtown)	Mrs. Little	5	1 0	17	59·99	223
Oban (Kilninver, Bragleenbeg)..	F. B. Ellison, Esq.....	5	1 0	240 T	72·18	198
Appin (Airds)	Dr. Buchan, F.R.S. ...	5	0 11	41 T	46·07	127
Morvern (Drimnin)	Mrs. Gordon	5	1 0	225	57·96	246
Ballachulish (Ardsheal)	Dr. W. D. Anderson... 8	1 0	103 T	63·29	204	...
" House	F. C. Beresford Drummond Esq	5	1 0	56 T	70·80	232
Strontian (Laudale)	A. Fletcher, Esq.	8	1 0	15 T	70·92	247
Loch Sunart (Glenborrodale) ...	C. D. Rudd, Esq.	5	0 2	60 L	62·59	187
Ardnamurchan	Bd. of Northern Lights	8	4 3	40	42·52	190
Ardgour	Mrs. Maclean	3	0 10	72	61·50	...
Loch Eil (Corran)	Bd. of Northern Lights	3	1 6	4	66·39	151
ARGYLL—(INSULAR.)						
Kintyre, Mull of	Bd. of Northern Lights ...	...	...	279 ?	47·32	145
" (Campbeltown, Devaar) .....	" " " .....	...	3 4	75 ?	49·66	195
" (Skipness Castle)	Mr. P. McLean ...	5	1 6	27	45·42	...
" (Stonefield, Tarbert) ...	Colin G. Campbell, Esq	5	0 9	90	65·24	222
Islay (Ardbeg)	C. E. Hay, Esq.....	5	7 0	46 T	46·84	237
" (Rhinn)	Bd. of Northern Lights	7	3 6	40	31·75	150
" (Lochindaul).....	" "	3	0 6	20	36·82	101
" (McArthurshead)	" "	3	0 4	140	68·69	182
" (Eallabus)	J. Laughton, Esq.	5	1 0	68 T	46·79	179
" (Gruinar School).....	Miss Bella Brown	5	1 0	214 T	30·70	198
" (Rhuvaal)	Bd. of Northern Lights	3	1 3	30	47·55	170
Jura (Fladda)	" " "	3	1 0	8	75·31	156
Lismore (Mousedale)	" " "	7	3 10	18	37·73	174

DIVISION XV.—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	1901	
ARGYLL (INSULAR)—(con.)						
Mull (Bunessan)	Duncan Cameron, Esq.	5	ft. in.	feet.	inches.	
„ (Lochbuie)	Dr. Buchan, F.R.S. ...	...	...	20	85·21	180
„ (Knock)	Duncan Cameron, Esq.	5	1 6	50 ?	64·33	...
„ (Gruline, Aros)	The Meteor. Council ...	8	1 0	100	63·69	...
„ (Quinish)	J. N. Forsyth, Esq. ...	5	1 6	35	57·71	234
„ (Sound of)	Bd. of Northern Lights	3	1 4	14	60·32	166
d Tiree (Hylipol Manse)	Rev. D. Maclean	5	1 0	25 B	40·63	231

DIVISION XVI.—EAST MIDLAND COUNTIES.

CLACKMANNAN.

Alloa (Mar Street)	J. Melville, Esq.	5	0 6	70	26·71	...
Tullibody House [Stirling]	Mrs. Forrester	5	0 8	20 B	25·80	195
Alva House	Miss Johnston	5	1 2	180	35·70	...
d Dollar (Home Farm, Dollarbeg). ..	James Bleloch, Esq. ...	5	0 9	265 T	30·82	187
d „ (Academy)	Mr. A. Blackwood	9	1 0	178	33·10	161

KINROSS.

Blairingone [Dollar]	Rev. J. F. Cameron ...	5	1 6	300 T	31·53	181
Cleish Castle	Dr. Buchan, F.R.S. ...	...	...	...	28·86	...
d Loch Leven Sluice	Mr. Hay	8	0 7	360 L	28·43	131
d Kinross (Gellybank)	G. Henderson, Esq. ...	5	0 6	440 A	27·04	173

FIFE.

d Culross (West Grange)	J. L. Dalgleish, Esq.	5	0 2	116 A	26·33	156
d Dunfermline (Keavil)	L. Dalgleish, Esq.	5	0 2	150	21·67	161
Carnock (Luscar House) ...No. 1	A. Mitchell, Esq.	5	0 10	430 T	26·94	...
„ („ „) ...No. 2	„ „	5	0 10	430 T	27·04	...
„ (Craigluscar)	A. W. Bell, Esq., C.E.	12	0 4	280 A	29·50	...
Kilconquhar (Balcarres)	Mr. E. Tate	5	1 0	300 T	29·68	196
d Carnbee (Ovenstone W.W.)	A. P. Watson, Esq. ...	5	1 0	168 T	24·76	147
Leslie (Lothrie Reservoir)	Dr. Buchan, F.R.S. ...	...	...	...	33·21	...
Strathmiglo	F. Troup, Esq., M.D. ...	5	1 0	200 T	30·89	159
d Cupar (Fife & Kinross Asylum).	Dr. Turnbull	5	0 4	210	21·60	134
Tayport (Low Light)	G. C. Buchanan, Esq., CE	5	1 0	27	21·21	114

PERTH.

Aberfoyle	J. M. Gale, Esq., C.E. ...	8	0 6	60	46·40	...
Ochertyre [Stirling]	Capt. Dundas, R.N. ...	5	1 0	38	33·03	...
Dunblane (Kippenross)	Col. P. Stirling	3	1 3	240	34·47	...
„ (Kippendavie Lodge) ..	Felix Barnes, Esq. ...	8	2 9	300	34·80	...
d Doune (Gartincaber)	G. Burn Murdoch, Esq.	5	1 0	200 T	33·87	189
Sheriffmuir (Lynns Farm)	Col. P. Stirling	5	1 0	550	32·63	...
Glendevon (Glensherup)	A. W. Bell, Esq., C.E.	12	0 4	745 T	49·97	...
Loch Dhu	J. M. Gale, Esq., C.E. ...	8	0 6	325	67·70	...
Ledard .....	„ „ „ .....	...	...	1500	53·40	...
Loch Drunkie	„ „ „	8	0 6	420	53·50	...

DIVISION XVI.—EAST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which "01 or more fell.
		Diameter	Height Above Ground	Height Above Sea Level	1901	
PERTH—(con).						
Loch Vennachar.....	J. M. Gale, Esq., C.E...	8	0 6	275	46·10	...
Lanrick Castle	Mr. J. Begg	3	1 0	...	38·05	...
Bridge of Turk	J. M. Gale, Esq., C.E..	8	0 6	275	53·25	...
Loch Katrine (Tunnel Hill Top)	„ „ „	8	0 6	830	70·00	...
Between Glen Finlas & Ben Ledi.	„ „ „	8	0 6	1800	41·55	...
Callander (The Gart).....	C. Douglas, Esq.....	5	0 7	250	47·18	...
Braco (Nether Cambushinnie) ...	J. W. Stirling, Esq.	5	0 10	380	37·78	...
Balquhidder (Blaircreach)	J. Carnegie, Esq.	5	1 0	460	75·05	...
D „ (Stronvar)	„ „ „	6	1 0	422 †	69·00	208
D Crieff (Ochertyre).....	Mr. G. Croucher	5	3 0	326 †	36·45	184
D Lochearnhead (Ardvorlich)	Col. Stewart	5	1 0	321	58·79	171
Perth (Pitcullen House)	Dr. Buchan, F.R.S. ....	...	...	105	26·87	119
Killin (Auchmore).....	Mr. J. Cant.....	5	1 0	400 †	47·67	...
D Coupar Angus Station	Mr. J. Robertson	5	1 3	183 †	25·94	158
D Dunkeld (Inverbraan)	Rv. Canon Burn Murdoch	...	...	...	40·25	125
D Blairgowrie (Ballintuim House).	Miss M. A. McDonald..	5	...	600	36·98	198
Pitlochry (Donavoured)	W. Maxwell, Esq.	5	0 7	400	29·48	154
D Blair-Atholl	Mr. A. Cameron.....	5	1 0	420	30·81	172
FORFAR.						
Buddonness (Low Light)	G.C.Buchanan, Esq., CE	5	1 0	17	21·99	145
D Dundee (Harbour).....	„ „ „	5	0 10	14	25·63	197
D Broughty Ferry (Airlie Park) ...	Mr. K. Graham	5	5 6	60 †	23·26	141
D Dundee (Eastern Necropolis) ...	Mr. J. Carnochan	3	0 4	199 †	23·55	166
D „ („ „) new	„ „ „	5	0 4	199 †	24·19	166
„ (Dens Works)	Messrs. Baxter Bros....	5	...	119 †	24·44	156
„ (Westgreen House).....	J. Rorie, Esq., M.D.	5	0 10	216	27·36	...
D „ (Camperdown Works)...	Messrs. Cox Bros.	5	3 8	290	20·77	120
„ (Balruddery)	Dr. Buchan, F.R.S. ....	...	...	266	26·95	138
D† Craigton	G. Baxter, Esq., C.E....	8	1 0	410	27·84	143
† „	M „ „	11	3 0	481	26·78	...
„ (Hillhead)	„ „	11	3 0	570	26·26	...
†Crombie Reservoir	M „ „	11	3 0	522 †	31·52	...
D Arbroath (Waterworks)	W. Stewart, Esq., C.E.	5	0 11	58 †	19·76	151
„ { „ }.....	M „ „ „	5	1 0	58 †	19·95	...
D „ { „ } Tower...	„ „ „	5	48 0	157 †	14·73	131
„ { „ } „ M	„ „ „	5	48 0	157 †	14·51	...
D „ (Dishland Hill)	Mr. J. Campbell.....	5	0 11	69	19·79	154
D Inverarity Manse	Rev. P. Stevenson	5	1 0	301 †	29·64	155
Glamis Castle.....	Mr. T. Wilson	5	4 0	250	26·58	...
D Forfar (Lilyfield)	A. L. Fenton, Esq.	5	0 5	225 †	28·73	161
Rescobie (Pitscandly)	W. F. Farquhar, Esq..	5	5 10	280	25·05	...
Kirriemuir (Lintrathen)	G. Baxter, Esq., C.E..	8	1 0	700	30·50	...
D „ { „ Balnakeilly) „ „ „	„ „ „	8	1 0	700	33·00	182
„ { „ „ } M	„ „ „	8	1 0	700	27·70	...
„ { „ Creich Hill) M	„ „ „	8	1 0	1500	26·10	...
D „ (Lednathie).....	Mr. W. Morrison	5	1 0	720	36·19	188

DIVISION XVI.—EAST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell.
		Diameter	Height above Ground.	Height above Sea Level	1901	
			ft. in.	feet.	inches.	
FORFAR—(con.)						
Montroseness	Bd. of Northern Lights	3	1 0	10	20·15	...
d Montrose (Melville Gardens) ...	Mr. J. R. Findlay.....	5	7 0	23 †	22·22	149
„ (Sunnyside Asylum)...	J. Masson, Esq.	5	0 10	200	22·89	...
d „ (Kinnaber W.W.).....	Mr. A. L. Bowick	5	1 0	38 †	24·16	147
Brechin (Stracathro Gardens) ...	RtHonJACampbell, MP	5	1 0	240 †	26·79	...

DIVISION XVII.—NORTH EASTERN COUNTIES.

KINCARDINE.

Laurencekirk (Johnstone Lodge)	Dr. Buchan, F.R.S. ....	...	...	...	26·10	...
D Fettercairn (The Burn) House ...	Col. C. McInroy, C.B. ...	5	0 11	250	29·41	171
„ Manse	Rev. W. Anderson	5	0 2	230 †	27·92	...
D Banchory (Invercannie)	W. Dyack, Esq., C.E. ...	12	0 10	205	32·88	237
Crathes (Pinewood)	Mr. J. Smith	5	1 0	145 †	30·65	...
„ (Woodbank Cottage)....	Mr. D. Murchison	5	0 6	165 †	31·02	190
Girdleness	Bd. of Northern Lights	7	4 0	75	22·83	140

ABERDEEN.

Braemar (Glenclunie Lodge) ...	A. Cross, Esq. ....	...	...	...	38·88	...
D† „	J. Aitken, Esq.	8	0 9	1114 †	31·51	207
Cromar (Logie Coldstone Manse).	late Rev. Dr. Davidson	5	1 0	694 †	29·17	183
D „ („ „ School)	J. B. Anderson, Esq.	5	1 0	608 †	33·71	250
„ („ „ „ Loanhead)	Mr. A. Farquharson ...	5	1 0	743 †	30·98	204
„ (Tillypronie).....	Mr. R. Littlejohn	5	1 0	1120 †	35·71	239
D Aberdeen (Cranford).....	D. McHardy, Esq.	5	1 0	120 †	29·17	235
„ (Duthie Park)	Dr. Buchan, F.R.S. ....	...	...	44	26·61	174
„ (King's College)	The Meteor. Council ...	8	2 0	48	28·03	213
Towie (Culquoich)	Col. J. Allardyce	5	0 6	800	31·65	...
D Strathdon (School-house)	J. B. Innes, Esq.	5	1 0	980 †	37·34	218
D Alford (Lynturk Manse)	Rev. J. B. Duncan.....	5	1 0	615 †	33·03	211
D Monymusk (The Manse)	Rev. Dr. Macpherson...	5	1 0	280 †	30·88	216
Ellon (Mains of Waterton)	T. F. Jamieson, Esq.	5	1 0	100	27·86	...
„ (Kermuck)	Mr. T. Mair	11	0 6	300 †	28·97	...
Haddo House	Mr. J. Forrest	5	0 8	180 †	32·09	200
Peterhead (Buchanness)	Bd. of Northern Lights	3	3 0	25	23·39	135
„ (H.M. Prison)	Dr. Buchan, F.R.S. ....	...	...	109	24·91	185
New Deer Schoolhouse	Mr. H. Cowie.....	5	1 0	397 †	32·26	207
Kinnairdhead	Bd. of Northern Lights	3	2 6	54	26·51	138

BANFF.

D Dufftown	J. Walker, Esq.	5	2 0	579 †	36·31	238
D Keith (H.R.S.)	The Station Agent.....	5	1 0	364 †	34·20	199
Banff (Earl Hill)	A. Ramsay, Esq.	5	1 0	115 †	29·76	215
Cullen House	Mr. J. F. Smith.....	5	1 0	100 †	31·90	...

DIVISION XVII.—NORTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1901	Days on which ·01 or more fell.
		Diameter	Height Above Ground		Height Above Sea Level	
			ft.	in.	feet.	inches.
ELGIN OR MORAY.						
Grantown	Mr. W. Duncan	5	1	1	712 \nearrow	34·45
d Carron (Bridgend Cottage)	F. Druce, Esq.	5	1	0	366	34·45
Craigellachie (Wester Elchies Sch)	Mr. J. Milne	5	1	0	560 \uparrow	34·16
Kinloss	J. Mackessack, Esq. ...	5	1	3	20 \uparrow	25·89
d Gordon Castle	Mr. C. Webster	8	1	0	107 \nearrow	33·45
d Duffus House	Sir A. Dunbar, Bart. ...	5	1	0	55 \nearrow	26·53
NAIRN.						
d Ardelach (Glenferness)	Rt. Hon. Earl of Leven ...	...	...	...	...	36·11
d Cawdor (Budgate)	J. Joss, Esq.	5	1	0	250 \uparrow	28·02
d Nairn (Achareidh)	Col. M. A. Clarke	8	1	0	59 \uparrow	23·25
,, (School Ho.)	The Meteor. Council ...	8	1	9	84	24·31

DIVISION XVIII.—NORTH WESTERN COUNTIES.

WEST ROSS & CROMARTY.

Glenshiel (Cluanie Forest)	A. Cross, Esq. ....	...	...	...	750 ?	64·19	...
d Kintail (The Glebe)	Rev. R. MacKenzie ...	5	0	10	5 \nearrow	60·34	219
Applecross Gardens	Mr. D. McCowan	5	1	0	70 \nearrow	52·53	...
d Strathconan (Dalbreac)	Mr. D. McIver	5	1	0	450	39·61	107
d Glencarron Lodge	Mr. D. D. Munro	5	1	0	504	73·22	233
d Loch Torridon (Bendamph)	Hon. L. F. King-Noel..	5	0	5	20 \nearrow	82·35	238
Loch Vraon.	Lady Fowler	8	0	7	850	68·52	...
Braemore House	,, ,,	8	0	7	750	56·33	...
,, (Foich Lodge)	,, ,,	8	0	7	100 \uparrow	44·52	...
Isle of Lewis (Stornoway)	Bd. of Northern Lights	8	4	9	20	30·86	185
,, (,,)	The Meteor. Council ...	8	1	0	24	42·75	241
,, (Butt of Lewis) ..	Bd. of Northern Lights	8	4	6	65	35·45	165

EAST ROSS & CROMARTY.

Contin (Kinnahaird)	W. Ross, Esq.	5	1	2	74	28·82	...
Evanton (Swordale House)	Dr. Buchan, F.R.S. ...	...	...	...	...	29·30	...
Cromarty	Bd. of Northern Lights	3	1	0	28	18·93	...
d Alness (Ardross Castle)	Mr. W. Minty	5	1	0	450 \nearrow	38·81	238
d Fearn (Lower Pitkerrie)	R. Gordon, Esq., C.E..	5	1	0	95	23·84	128
,, (Geanies Mains)	Miss Hope Douglas ...	5	1	0	200 \uparrow	23·67	...
Tarbetness	Bd. of Northern Lights	8	4	0	51	26·27	112

WEST INVERNESS.

d Moidart (Kinloch moidart)	R. Stewart, Esq.	6	1	3	25	48·39	174
Ben Nevis Observatory	Dr. Buchan, F.R.S. ...	5	...	...	4407	156·43	259
Fort William (Observatory) ..	The Meteor. Council ...	8	1	8	33	64·10	229
d Loch Shiel (Glenaladale)	Col. Macdonald	5	1	2	50 ?	87·13	228
d Arisaig	Mr. W. Grant	5	1	0	20 ?	59·54	228
d Loch Nevis (Inverie)	Mr. J. Huggins	5	0	6	10	74·78	218
d Glenquoich	Mr. D. Grant	8	1	2	569 \nearrow	95·00	231
d Glenelg Manse	Rev. A. Mactaggart ...	5	1	0	85 \uparrow	55·95	231

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	1901	
			ft. in.	feet.	inches.	
WEST INVERNESS—(con.)						
D Skye (Armada, Ardvasar)	Rev. N. MacDougall ...	5	1 0	20 L	62·98	175
„ (Strathaird)	Mr. K. Macdonald	5	1 4	45	81·53	148
„ (Oronsay)	Bd. of Northern Lights ...	...	0 6	15 P	28·59	127
„ (Kyleakin)	„ „ „	5	4 6	45	38·26	201
D „ (Scalpay Island)	Mr. D. Gunn	5	1 0	4	66·44	238
„ (Portree House)	A. H. Douglas, Esq. ...	5	1 6	100	49·45	...
Eigg	Mr. D. McDonald .....	...	...	...	53·40	180
D „ (Kildonan)	Mrs. Glendinning .....	...	1 0	35	52·13	215
Rona	Bd. of Northern Lights	3	1 3	180	35·26	164
Barra (Barrahead)	„ „ „	7	3 0	613	25·09	164
S. Uist (Ushenish)	„ „ „	3	1 0	178 P	67·13	183
N. Uist (Monach)	„ „ „	8	5 6	20	31·27	170
D „ (Lochmaddy)	T. D. McGregor, Esq. ...	5	0 9	...	39·09	234
Harris (Island Glass)	Bd. of Northern Lights	7	4 2	35	42·66	169
D „ (Tarbert)	R. Sinclair, Esq.	4	1 6	33 L	67·03	231
EAST INVERNESS.						
D Mucomir	Rev. D. Sutherland ...	5	1 0	154 N	50·20	212
D Invergarry	Mrs. Ellice	5	1 0	...	33·17	103
Kingussie	Dr. Buchan, F.R.S. ...	...	...	828	24·12	179
D Fort Augustus (St. Benedict's) ..	Rev. C. von Dieckhoff..	5	1 6	68 N	36·96	223
D Alvie Manse	Rev. J. Anderson	5	1 0	720	26·74	167
Loch Ness (Killin)	W. Murray Morrison Esq	5	1 0	1200	34·30	...
D „ „ (Whitebridge)	„ „ „	5	1 0	645	35·14	163
„ „ (Foyers)	„ „ „	8	1 6	52	28·14	...
„ „ (Aberchalder)	„ „ „	5	1 0	700 T	32·12	...
D „ „ (Drumnadrochit)	Mr. A. Grant	5	1 0	138 N	32·23	221
Inverness (High School)	Dr. Buchan, F.R.S. ...	...	...	114	23·44	157

DIVISION XIX.—NORTHERN COUNTIES.

SUTHERLAND.

D Dornoch	Rev. D. Grant	5	1 0	21	26·50	169
D Invershin	Mr. G. Young	5	4 0	20 T	33·67	190
D Golspie (H.R.S.)	The Station Agent	5	0 9	27	33·36	129
D „ (Dunrobin Castle)	Mr. D. Melville	5	1 0	14 N	31·86	168
„ („ „)	M „ „ „	3	0 5	13 N	33·13	...
Lairg	Rev. D. Macrae	5	0 10	385 P	31·78	220
Stourhead	Bd. of Northern Lights	5	1 6	155	23·81	146
D Bettyhill	Mr. Evander Mackay...	5	1 0	100	34·85	153
Cape Wrath	Bd. of Northern Lights	7	4 8	330	31·95	160

CAITHNESS.

Wick	The Meteor. Council ...	8	1 9	77	32·11	239
„ Nosshead	Bd. of Northern Lights	7	4 9	135	26·91	134
D† Watten (H.R.S.)	The Station Agent	5	2 6	75 T	29·30	207
Thurso (Holburnhead)	Bd. of Northern Lights	3	0 8	60 P	38·70	137

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	1901	
CAITHNESS—(con.)						
Dunnethead	Bd. of Northern Lights	3	1 0	320	28·54	...
Pentland Skerries	„ „ „	7	3 9	40	26·21	120
ORKNEY.						
South Ronaldshay (Roeberry) ...	J. Gray, Esq.	5	1 2	101 7	32·00	239
Hoy (Cantickhead)	Bd. of Northern Lights	3	1 0	52	35·86	174
„ (Graemsay Sound, East=High)	„ „ „	5	0 4	17	40·40	140
„ „ „ West=Low	„ „ „	8	4 3	27	38·79	161
Pomona (Deerness)	Dr. Buchan, F.R.S. ....	...	1 0	172	35·84	191
„ (Kirkwall)	James Begg, Esq.	3	1 3	20	38·03	...
Hellyar Holm	Bd. of Northern Lights	3	1 0	28	27·02	176
Auskerry	„ „ „	3	2 6	10	41·55	140
Shapinsay (Balfour Castle)	Mrs. Balfour	5	0 6	50	29·81	...
Sanday (Start Point)	Bd. of Northern Lights	3	1 0	15	35·27	139
Westray (Noup Head)	„ „ „	3	1 0	190	33·60	123
North Ronaldshay	„ „ „	3	0 4	10	38·81	158
SHETLAND.						
Fair Isle, N.	Bd. of Northern Lights	3	4 0	225	36·90	...
Sumburghhead (Dunroseness) ...	The Meteor. Council ...	8	1 0	84	35·38	262
Bressay	Bd. of Northern Lights	3	1 0	62	35·30	128
Sule Skerry	„ „ „	3	0 6	40	38·45	136
Fetlar (The Manse)	Rev. J. A. Campbell ...	5	1 0	30 1	33·43	239

IRELAND.

DIVISION XX.—MUNSTER.

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1901	Days on which ·01 or more fell.
		Diameter	Height above Ground.		Height above Sea Level	
			ft.	in.	feet.	inches.
CORK.						
D Castletownshend (Glen Barrabane)	E. B. Coghill, Esq. ...	5	3	0	25 L	29·66 162
D Dunmanway (Coolkelure)	Col. Shuldhham	5	1	6	500 T	68·26 232
D Bandon (Ardnacarrig)	G. A. Armstrong, Esq. ...	5	1	0	126	48·99 182
Roche's Point	The Meteor. Council ...	8	1	9	32	37·73 159
D Passage West	C. H. Jacob, Esq.	8	4	0	287	36·27 190
D Douglas (Villa Franca)	R. C. Sikes, Esq.	5	1	0	49 T	40·60 184
D Cork (Queen's College)	Prof. A. Jack	8	1	0	60	40·13 193
D „ (The Palace)	Rt. Rev. Bishop of Cork	5	1	0	40 L	38·68 177
D „ (Wellesley Terrace)	W. Miller, Esq.	5	1	0	190 B	38·56 178
D „ (St. Ann's Hill)	A. G. Bennett, Esq. ...	5	4	6	250	34·09 ...
D Mallow (Summer Hill)	J. F. Williamson, Esq. ...	5	1	10	261 T	39·39 183
D „ (Longueville Field)	R. E. Longfield, Esq. ...	5	1	1	310	39·67 213
Doneraile (Carker House)	The Meteor. Council ...	5	2	0	267	35·46 139
KERRY.						
D Darrynane Abbey ..	D. O'Connell, Esq.	5	1	1	13 A	34·88 223
D Waterville (Iveragh Lodge)	T. J. Wilmot, Esq.	5	1	0	86 A	43·36 205
Kenmare (Derreen)	Mr. W. Holbrow	5	1	0	74 T	66·29 186
Valencia (Glanleam)	The Meteor. Council ...	8	1	0	12	51·54 217
Cahirciveen	„ „ „	8	2	0	32	52·18 240
Gap of Dunloe (Garrymeen)	Ven. Archdeacon Wynne	8	3	0	75	71·25 ...
D Killarney	E. Griffin, Esq., M.D. ...	5	0	10	178 T	47·36 200
WATERFORD.						
D Knockaderry	M. J. Fleming, Esq., C.E. ...	5	4	0	241 T	34·95 163
D Waterford (Brook Lodge)	C. P. Bolton, Esq., C.E. ...	5	1	0	104 T	38·71 167
D „ (Ticor)	M. J. Fleming, Esq. C.E. ...	5	0	7	171 T	36·17 138
D Portlaw (Mayfield)	J. Anderson, Esq.	5	4	0	70	39·29 168
„ (The Gardens, Curraghmore)	Mr. D. Crombie	5	0	9	135	40·97 110
„ (Milfort)	C. Morley, Esq.	5	1	0	200	38·59 156
D Glenam [Clonmel]	Miss Grubb	8	1	4	80 T	36·24 188
D Sheskin [Carriek-on-Suir]	J. Ernest Grubb, Esq. ...	8	1	2	542 A	39·75 185

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	1901	
			ft. in.	feet.	inches.	
TIPPERARY.						
D Clonmel (Bruce Villa)	J. H. Grubb, Esq.	5	1 3	110 T	33·06	181
D Cahir (Duneske)	R. W. Smith, Esq. ...	5	1 0	188	34·16	197
„ Abbey	Mrs. W. Rochfort	5	0 6	...	36·91	156
D Derry Castle [Killaloe] ...	Mr. T. Manly	5	1 6	580 T	42·80	209
D Nenagh (Castle Lough)	A. Parker, Esq.	5	1 3	120 T	36·11	202
D „ (Highlands)	John Mounsey, Esq. ...	5	1 2	470	34·15	185
D Ballingarry (Hazelfort)	Mrs. Fraser	5	1 0	...	30·60	187
LIMERICK.						
Adare Manor	The Meteor. Council ...	8	1 0	...	33·80	193
Foynes	„ „ „	5	1 0	104	35·95	183
D Limerick (Roxborough)	A. W. Shaw, Esq.	8	1 6	112 T	33·50	210
„ (Corbally)	The Meteor. Council ...	...	...	...	35·67	234
„ (Victoria Terrace)	J. Horan, Esq.	5	1 0	60 T	33·65	179
CLARE.						
D Carrigaholt Castle	W. C. V. Burton, Esq. ...	5	1 0	16	38·50	214
D Killadysert (Paradise Hill)	Rev. H. Henn	5	0 11	105 T	44·43	223
Newmarket-on-Fergus (Carrigoran)	The Meteor. Council ...	5	1 0	86	40·31	205
D Broadford (Hurdlestown)	Colonel Bentley	5	1 0	167 T	33·86	232
Ennis (Roslevan)	Mrs. Scott	5	1 11	40	35·41	186
D Miltown Malbay	M. Molohan, Esq.	5	1 0	400 T	46·71	222
Inagh (Mount Callan)	The Meteor. Council ...	5	1 0	480	60·16	237
D Lahinch (Moy House)	Miss Bowes	5	1 0	53	41·11	228
D Ennistymon House	HV Macnamara, Esq DL	5	1 0	38	48·80	234
D „ Rectory	Rev. C. W. McDowell..	5	1 0	132	51·86	212

DIVISION XXI.—LEINSTER.

WEXFORD.

D New Ross (Longraigue)	J. W. Deane, Esq.	5	1 0	210 T	35·64	177
D Wexford (Bann-aboo)	Col. Magrath	8	4 0	9	35·52	147
D Templeudigan (Ballindoney) ...	J. Budgen, Esq.	5	1 0	434 B	42·06	178
D Enniscorthy (Ballyhyland)	Mrs. Moffat	5	1 0	365 T	39·14	189
„ (Monksgrange)	G. H. Orpen, Esq.	5	1 0	565 B	43·11	191
D Oulart (Wells)	C. M. Doyne, Esq.	5	1 0	207 T	36·43	155
D Gorey (Courtown House)	Rt Hon Earl of Courtown	5	3 0	80 T	32·54	149

KILKENNY.

Rockenham [Waterford]	A. E. Graves, Esq.	8	0 6	140 T	37·78	153
D Piltown (Bessborough)	Mr. J. G. Weston	8	3 6	...	33·64	178
D Graigue (Brandondale)	R. R. Burtchaell, Esq. ...	5	2 0	90 T	34·69	128
Kilkenny Castle	The Meteor. Council ...	8	1 0	208	30·28	176
D „ (Sion Villa)	J. O'Connell, Esq., C.E.	5	1 0	198	30·00	201
„ „ „ weekly g.	„ „ „	5	1 3	198	29·66	...
„ (Millmount)	R. Collis, Esq.	5	2 0	180	28·07	177
Goresbridge (Barraghcore House)	H. de M. Fleming, Esq.	5	1 0	130 T	28·41	184

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	1901	
			ft. in.	feet.	inches.	
WICKLOW.						
d Laragh (Glendalough)	Wyndham H Wynne Esq	5	2 9	460 T	57·13	202
Roundwood (Vartry Lodge)	W.B. MacCabe, Esq., CE	5	1 0	720	45·76	179
"	" " "	5	1 6	800 T	44·21	...
" (Knockatemple)	" " "	5	1 6	760 T	42·27	...
Newcastle (Killadreenan)	B. H. Steede, Esq., M.D.	8	1 2	255 T	32·39	166
Tithewere	W.B. MacCabe, Esq., CE	5	1 6	1000 T	39·62	...
Annacarter	" " "	5	1 6	750 T	44·83	...
Greystones (Knockdolian)	R. Cathcart Dobbs Esq CE	5	1 2	68 T	34·76	169
d† Bray (Fassaroe)	R. M. Barrington, Esq.	10	5 0	250	40·00	182
" (San Remo)	Dr. E. E. Barrington...	10	4 6	100 ?	38·42	...
CARLOW.						
Bagnalstown (Fenagh House) ...	D. R. P. Beresford, Esq	5	1 0	340	28·58	157
" (" ") <i>new g.M</i>	" " "	5	1 0	340	25·58	...
d Carlow (Browne's Hill)	W. Browne Clayton, Esq	5	1 0	291 T	31·93	182
QUEEN'S COUNTY.						
Abbey Leix (Blandsfort)	J. L. Bland, Esq.	5	3 0	532 T	36·12	212
Mountrath (Ballyfin)	J. McLaren, Esq.	8	1 0	600 T	45·04	224
KING'S COUNTY.						
d Parsonstown (Birr Castle)	Rt Hon Earl of Rosse FRS	8	1 0	180	31·20	195
Banagher	Mr. J. Deegan	5	1 6	170	30·41	...
Tullamore	Rev. R. S. Craig	5	1 0	201 T	32·41	...
KILDARE.						
d Castledermot	Rev. M. Walsh	5	2 8	...	29·38	178
d Monasterevin (Moore Abbey) ...	Mr. A. Whitelaw	5	1 0	236 T	31·70	187
d Straffan House	Mr. F. Bedford	5	2 0	240 T	30·31	180
DUBLIN.						
d Glen-na-Smoel (Water Works)...	F. P. Dixon, Esq., C.E.	5	1 6	516 T	42·55	200
Carrickmines (Claremont)	John Read, Esq. ....	...	...	...	29·05	...
d Ballybrack (Streamville)	F. B. Falkiner, Esq....	5	1 5	30 B	29·75	194
Killiney (Clonevin)	R. O' B. Furlong, Esq. CB	5	1 0	250 T	28·65	184
Dundrum (Lynton)	Sir J. W. Moore, M.D.	5	...	...	30·58	169
Kingstown (People's Park)	Dr. J. Byrne Power ...	8	1 0	43 T	26·60	176
Rathmines (Terenure)	F. P. Dixon, Esq., C.E.	8	0 6	125 T	25·21	176
" (Leinster Road)	E. H. Cannon, Esq. ...	5	1 0	170	25·39	163
d Donnybrook (Seaview Terrace)...	Miss A. K. Wilson ...	5	0 9	15	23·45	169
d† Dublin (Fitz William Square) ...	Sir J. W. Moore, M.D.	8	1 6	54 T	26·08	179
" (Phoenix Park)	Major C. Haynes, R.E.	8	1 0	155 T	25·76	198
d Lucan (The Garden)	Mr. P. Reid	5	1 0	105 T	26·96	154
d Glasnevin (Botanic Gardens) ...	F. W. Moore, Esq. ...	8	1 0	68 T	28·08	179
d Balbriggan (Ardgillan)	Capt. E. R. Taylor	5	1 0	211 T	28·35	179
" (")	" " "	8	1 0	211 T	28·86	...
d " (Laragh)	Rev. S. P. Warren	5	1 0	57 T	29·21	199

DIVISION XXI.—LEINSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days on which ·01 or more fell.
		Diameter	Height Above Ground	Height Above SeaLevel]	1901	
<hr/>						
MEATH.			ft. in.	feet.	inches.	
d Summerhill House.....	Rt. Hon. Lord Langford	5	1 0	372 T	30·14	194
d Athboy	C. P. Coghill, Esq.....	8	1 3	227	33·55	186
Oldcastle (Killeagh Rectory) ...	Rev. R. Butler	5	1 0	...	32·72	190
d Kells (Headfort)	TheMarquisofHeadfort	10	5 0	230	38·71	180
d Moynalty (Westland)	W. A. Barnes, Esq. ...	5	1 2	260 T	37·65	202
d Drumconrath (Aclare House) ...	Admiral Singleton, C.B.	10	2 6	170 T	33·06	198
d „ (Corstown House)	„ „ „	10	2 6	153 T	25·92	170
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WESTMEATH.						
Athlone (The Moorings)	Capt. J. Preston.....	5	1 0	175	34·52	...
d „ (Twyford)	J. P. Hodson, Esq.....	5	5 0	188 T	35·57	200
d Mullingar (Belvedere)	Mr. J. Bayliss	5	1 0	367 T	35·54	197
Streete (Daramona)	W.E. Wilson, Esq., FRS	10	1 0	276	35·24	225
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LOUTH.						
d Ardee (Lissrenny) .. .	T. F. Filgate, Esq.....	8	0 10	75 T	30·91	207
d†Greenore.....	T. Chambers, Esq.....	5	1 0	4 L	30·21	178

DIVISION XXII.—CONNAUGHT.

GALWAY.						
d Woodpark [Scariff]	R. F. Hibbert, Esq. ...	5	1 0	170 T	39·68	225
Galway (Queen's College).....	W. Hare, Esq.	16	9 0	30	41·16	176
d Ballinasloe	W. H. Kempster, Esq. 5	3 0	160 T	37·48	209	
d Woodlawn	Mr. A. Porter.....	5	3 6	300 T	39·73	203
Ahascragh (Clonbrock)	Rt. Hon. Lord Clonbrock	10	5 4	200 T	38·06	...
Recess Hotel	Mr. A. A. Smith.....	5	0 9	90	62·66	199
d Clifden (Kylmore House)	Mr. T. McNab	5	1 0	105	67·38	205
Tuam (Castle Hacket)	Miss Bernard	5	1 0	...	39·87	...
„ (Gardenfield)	M. H. Kirwan, Esq.	5	1 0	155 T	40·81	...
„ („) ... Snowdon	„ „ „	5	6 0	160 T	40·14	...
MAYO.						
d Cong (The Glebe)	Rev. R. Y. Lynn	5	1 11	112 T	46·25	223
Ballinrobe (Cranmore) ...	Miss Knox	5	0 9	99	45·05	...
d Westport (Murrisk Abbey)	F. C. Garvey, Esq.....	5	1 1	18	47·97	256
„ (Mallaranny)	The Meteor. Council ...	5	1 0	120	67·98	226
Achill (Coraun House)	C. Scrase Dickins, Esq. 5	0 10	39	49·88	148	
d Newport (Burrishoole House) ...	H.M. Anketell Jones Esq 5	3 0	30	53·28	225	
Doo Castle [Tobercurry]	Mr. D. O'Dowd	5	1 0	...	43·13	204
Blacksod Point	The Meteor. Council ...	...	...	...	46·62	261
d Crossmolina (Enniscoe).....	J. Pratt, Esq.....	5	0 11	74 T	52·54	265
SLIGO.						
Ballymote (New Park)	R. A. Duke, Esq.	5	1 2	228	45·17	...
d Collooney (Markree Observatory)	F. W. Henkel, Esq. ...	5	1 0	130 T	44·87	227
„ („)	„ „ „	5	16 6	148 T	38·96	224
d Ballysadare Bay (Glen Lodge)...	Vernon Cochrane, Esq. 5	1 0	14	44·50	200	

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	1901	
			ft. in.	feet	inches.	
LEITRIM.						
Carrigallen	The Meteor. Council ...	...	...	...	41·46	213

DIVISION XXIII.—ULSTER.

CAVAN.						
D Stradone House	Mr. J. Hart	5	1 0	280	39·84	165
Cavan (Water Works)	M W. H. Morris, Esq. C.E.	8	...	304 N	38·44	...
D Killeshandra (Castle Hamilton)..	Capt. W. J. Hamilton..	5	1 0	251 T	34·86	203
D Belturbet (Cloverhill)	Mrs. Sanderson	5	1 0	202 T	37·43	206
D Ballyconnell House	Surg.-Gen.S.B.Roe, CB	8	1 2	196	44·06	222
FERMANAGH.						
D Enniskillen (Model School)	Mr. J. T. Abraham ...	5	1 0	160 N	40·96	226
MONAGHAN.						
Dartrey [Cootehill]	Mr. F. Prince	5	2 6	265	36·27	161
D Monaghan (Rowantree House)...	Dr. J. C. Hall.....	5	5 6	240	33·27	164
ARMAGH.						
† Bridge Street [Newry]	J.L.D.Meares, Esq. C.E.	5	0 9	22 N	39·02	202
D Armagh Observatory	Dr. Dreyer ..	8	1 0	205 N	32·11	203
Rich Hill (Fruitfield)	Messrs. Lamb Bros. ...	5	3 9	...	27·30	...
D Loughgall (Manor House)	Mrs. Cope	5	1 0	205 T	29·70	184
D Lurgan (Belle Vue)	S. A. Bell, junr., Esq..	5	0 5	200 T	28·67	175
DOWN.						
D† Warrenpoint (Summer Hill).....	B. M. Kernan, Esq. ...	5	1 0	30 L	35·96	151
D Rathfryland (Ballynagappoge)...	J. Smyth, Esq., C.E....	5	1 0	300	30·97	151
D† Castlewellan (Lough Island) ...	" " " "	5	1 0	440 T	49·69	138
Banbridge (Katesbridge)	A. Mulligan, Esq.	5	1 0	230	28·62	144
D Seaforde	late Rt. Hon. Col. Forde	8	0 5	180 N	34·56	187
Banbridge (Corbet Reservoir) ...	J. Smyth, Esq., C.E....	5	1 0	234	28·45	134
D† " (Milltown)	" " " "	8	0 8	220 T	31·34	200
Donaghadee	The Meteor. Council ...	8	1 6	30	29·60	201
ANTRIM.						
Stonyford (Belfast W. W.) ..	FWMcCullough Esq. CE	5	1 6	437 N	36·44	213
D† Belfast (Queen's College).....	Mr. G. A. Robinson ...	11	7 4	68 N	32·10	190
D " (Linen Hall Library) ...	G. Smith, Esq.	5	4 9	17 T	33·86	179
D " (Springfield)	T. G. Firth, Esq.	5	1 0	150 T	39·15	258
† " (Antrim Road)	FWMcCullough Esq. CE	5	7 0	144 T	36·13	184
Antrim (Ardnaveigh)	H. B. Murray, Esq. ...	5	0 8	210 T	34·03	191
Carriekfergus (Dorisland)	FWMcCullough Esq. CE	5	1 0	250 N	37·80	217
" (South Woodburn) ..	" " " "	5	1 0	640 N	40·26	210
" (North Woodburn) ..	" " " "	5	1 0	735 N	39·79	219

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		
					ft.		in.	feet.	1901 inches.
ANTRIM—(con.)						
Carrickfergus (Copeland)	FW McCullough Esq. CE	5	1 0	424 ∇	38·13	220
„ (Lough Mourne)...	„ „ „ „	5	1 0	596 ∇	40·34	222
Ballynure (Ballyboley).....	Mr. T. H. Craig	5	1 4	400	40·62	...
^D Ballymena (Harryville)	J. R. Williams, Esq. ...	5	1 5	150 ∇	42·50	225
^D Broughshane (Quolie)	H. O'Hara, Esq.	5	1 4	893	46·10	237
Glenarm Castle	The Meteor. Council ...	8	1 0	25	42·00	...
Ballymoney (Balnamore)	W. H. Lawlor, Esq. ...	5	1 5	50 ∇	37·92	227
Stranocum (Gardenvale)	A. McNeill, Esq.	5	1 0	160	42·16	210
^D Bushmills (Dundarave).....	Sir F. E. Macnaghten, Bt	5	1 0	162 ∇	38·12	207
LONDONDERRY.						
^D Garvagh (Moneydig).....	H. R. Morrison, Esq. ...	5	1 0	121	38·37	212
^D Londonderry (The Asylum)	S. Haines, Esq.	5	1 0	36 ∇	38·41	215
^D „ (Creggan Res.).....	Mr. J. Hutchison	8	1 0	320 ∇	42·38	246
Limavady (Drenagh)	C. J. McCausland, Esq. ...	5	1 6	80	37·40	230
„ (Bellarena)	Dowager Lady Heygate	5	1 0	20	36·51	220
^D Coleraine	W. R. Kennedy, Esq. ...	5	4 0	52	39·18	237
TYRONE.						
^D Stewartstown (The Square)	A. Johnston, Esq.	5	1 4	300 ∇	34·75	182
^D Omagh (Edenfel)	Col. Buchanan, C.B. ...	8	1 0	280 ∇	43·00	226
^D Newtown Stewart (Baron's Court)	Mr. R. Bell.....	5	1 0	250 ∇	44·25	182
DONEGAL.						
^D Killybegs	A. Brooke, Esq.....	5	1 0	30	59·55	254
^D Raphoe (Convoy)	Rev. K. H. Thompson..	5	0 9	150 ∇	53·56	222
Rathmullan	Dr. Loughnan	5	1 0	1	38·60	...
^D Buncrana (Rockfort).....	T. Colquhoun, Esq. ...	5	1 0	40 ∇	39·90	210
Ardnadrean Rectory.....	Rev. W. S. Griffiths ...	5	0 10	39	42·61	...
^D Horn Head	C. F. Stewart, Esq. ...	5	1 0	163	42·55	233
^D Lough Swilly (Carrablagh)	H. C. Hart, Esq.	5	1 0	130	40·37	228
Malin Head	The Meteor. Council ...	8	1 0	220	33·51	238

H. S. W.
H. R. M.

RULES

ADOPTED FOR SECURING UNIFORMITY OF PRACTICE.

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 the objects are high. 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 Editors.

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. No water should ever be left in the measuring glass.

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, the 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 .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.—LEAKAGE.—Observers should test their gauges occasionally to see that the amount collected is neither increased nor decreased by leakage.