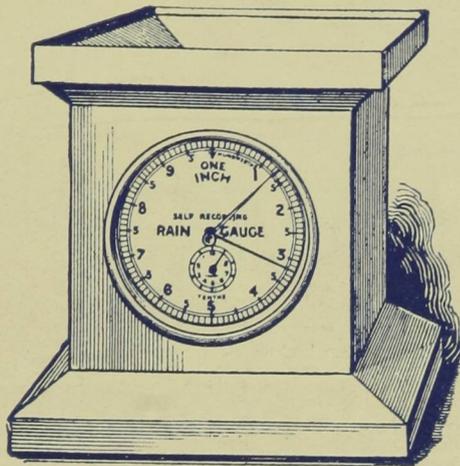
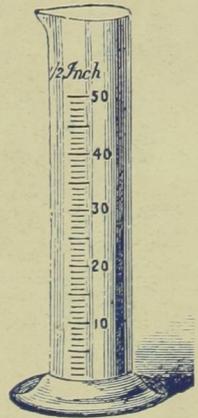
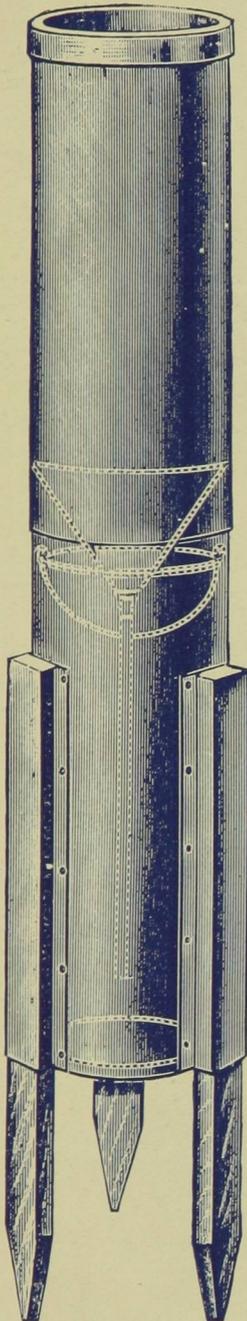


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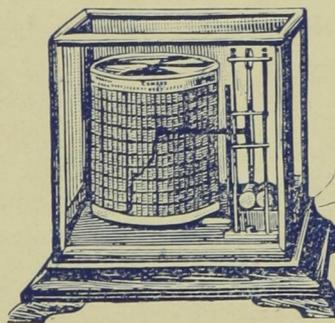
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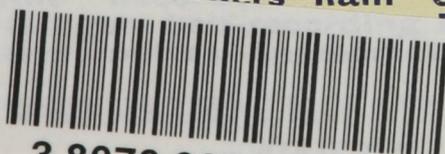


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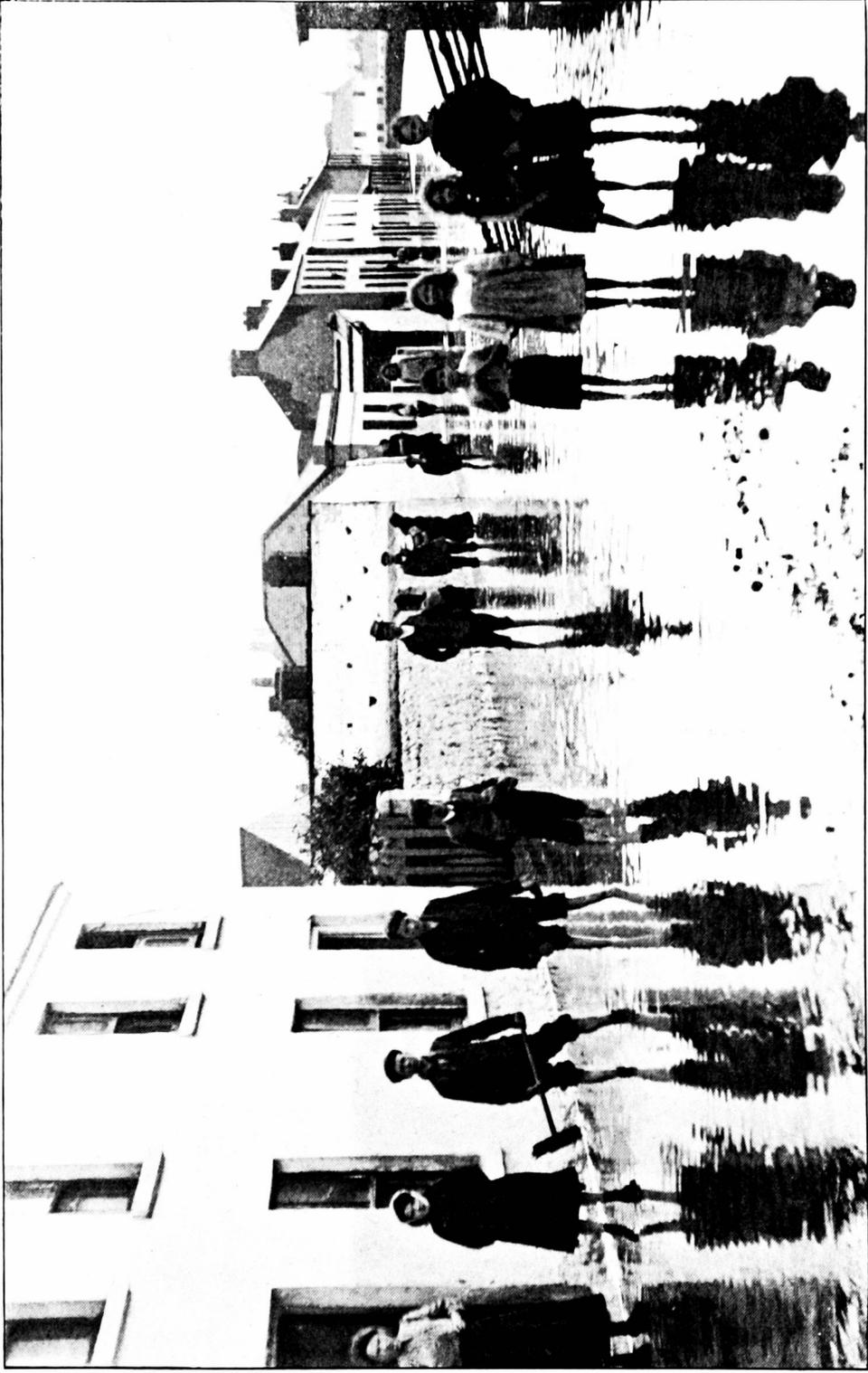


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BRITISH RAINFALL,
1905.





A STREET IN BRAY, CO. WICKLOW, AFTER THE FLOOD OF AUGUST 25TH, 1905.

Note the dark mark on the houses showing the height at which the flood water stood.

Photograph supplied by R. M. Barrington, Esq.]

[Engraved by Jale & Danielsson.]

BRITISH RAINFALL, 1905.

ON THE DISTRIBUTION OF RAIN

IN SPACE AND TIME OVER THE

BRITISH ISLES

DURING THE YEAR

1905

AS RECORDED BY MORE THAN 4,000 OBSERVERS
IN GREAT BRITAIN AND IRELAND

AND DISCUSSED

WITH ARTICLES UPON VARIOUS BRANCHES OF RAINFALL WORK

BY

HUGH ROBERT MILL

THE FORTY-FIFTH ANNUAL VOLUME

WITH MAPS AND ILLUSTRATIONS

LONDON:
EDWARD STANFORD, 12, 13 & 14, LONG ACRE, W.C.
1906.

ERRATA IN BRITISH RAINFALL, 1904.

- Page 38 For diagram, substitute a corrected copy, which will be supplied gratis by the Editor.
,, [152] Line 24. *For 1903 read 1904.*
,, [257] Flint, line 4. Height above sea level, *for 250 T read 350 T.*

ERRATA IN BRITISH RAINFALL, 1905.

- Page [129] *For Whithorn, Cutroach, read Whithorn.*
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PREFACE.

IT is with regret that I have to place so late a date to this preface, but the growing mass of data to be dealt with and the greater detail now given in the various discussions make it increasingly difficult to accelerate publication. The eternal spring of hope, however, suggests that another year may see the work completed earlier.

I have been helped as in former years by the constant co-operation of MRS. H. R. MILL and by the skilled assistance of MR. R. LAMPORT, MR. J. M. PHILLPOTT, F.R.Met.Soc., and MR. CARLE SALTER, F.R.Met.Soc., upon whom the burden of the heavy arithmetical work has fallen.

The volume as completed contains, in Part I. :—(1) A Report to the Observers, without whose generous work *British Rainfall* could not exist; (2) Original Articles, dealing with a remarkable publication of rainfall data in Germany, and with the relation of Evaporation to other meteorological phenomena; (3) Tables of the amount of evaporation at eleven stations, of the duration of rainfall at eight stations, and of the complete daily observations of rainfall at ten stations; (4) An account of the Staff of Observers and of changes in the stations at work, together with a map showing those parts of the country where new Observers are most urgently wanted; and (5) an exceptionally long Obituary list.

In Part II. the conditions of 1905 are exhaustively treated as to (6) Observers' Notes on the rainfall and weather; (7) Heavy Falls of Rain, their distribution over the country and their relation to atmospheric disturbances, with several maps; (8) The distribution of Rainfall in Time, including the number of rain days classified according to amount of fall, droughts and rain spells; (9) The monthly and annual rainfall in relation to the average; and (10) The General Table, giving the names of all Observers or responsible authorities, particulars as to position and exposure of the rain gauges, the total annual rainfall, and the number of rain days.

In conclusion, we invite criticism and suggestions for improvement, all of which will be most carefully considered.

H. R. M.

62, CAMDEN SQUARE,
LONDON, N. W.
15th August, 1906.

He that has and a little tiny wit
—With heigh, ho, the wind and the Rain--
Must make content with his fortunes fit ;
Though the Rain it raineth every day.

Shakespeare.

REPORT.

Introductory.—In any official or formal body, such as an Office supported by Government or a Society incorporated by a charter, it is usual for those whose duty it is to manage the affairs of the body to report annually to those who appoint them, and give an account of their stewardship. The British Rainfall Organization is neither official nor formal. It consists of a large number of individuals of the most diverse positions and opinions, amongst whom the only common point of contact is the interest they all take in rainfall. A few carry their interest so far as to subscribe for the publications embodying and discussing their observations, and a considerable proportion of these subscribe an amount larger than the price of what they receive, so that it is possible to supply the Observers whose interest is keen though their purses are not well filled, with the publications at half-price, or with an extract from them free of charge. The Editor of *British Rainfall* is not appointed by the members of the Organization, nor does any part of the payments made by them accrue to his personal profit. Thus his position is one of considerable freedom, and the Report he renders annually is, in the language of the Postmaster-General, an act of grace, which may be interpreted to mean a moral obligation.

The Observers whose records are built into this volume are, of course, its ultimate authors, and it is my privilege to present the results of the daily few minutes which they spend in examining their rain gauges in a systematic and connected form.

The Work of Compilation. — The methods by which the returns sent in by Observers are checked, discussed and published, have often been dwelt upon in these Reports, and stress laid on the elaborate precautions which are taken to ensure accuracy in every part of these processes. The amount of labour is very great, each volume representing in round figures 1000 hours of my own work, and at least as many of that of three assistants, *i.e.*, 4000 hours' work altogether. I had the curiosity to make an estimate this year of the amount of work done by Observers to supply the material for the

volume, and I must confess that the total figure astonished me. Allowing five minutes for each reading of a daily gauge, and one hour for copying out the return, and allowing fifteen minutes for each reading of a monthly gauge, the result is that the material for the present volume required no less than 106,000 hours to prepare. Hence it follows that the proportion of Observers' time expended on each volume is $96\frac{1}{2}$ per cent., and of editorial time $3\frac{1}{2}$ per cent., of the whole amount required to prepare the book for publication. I feel that with these figures before me it is only just to exhibit more prominently than ever the immense share which the Observers take in our work, and the slight change in the wording of the title page will, I hope, be accepted as an expression of my recognition of the state of the case.

Special Services of Observers.—All to whom this volume appeals as of interest, owe special thanks to various meteorological bodies and to numerous individuals who have given exceptional assistance in the collection of data. The Meteorological Office, the Royal Meteorological Society, and the Scottish Meteorological Society, have as usual supplied the records from such of their Observers as do not send in returns themselves for *British Rainfall*. The various local organizations have rendered a similar service, Mr. F. Campbell Bayard, acting for the Croydon Natural History Society, Mr. A. W. Preston for the Norfolk County Organization, Mr. C. A. Markham for Northamptonshire, Mr. John Hopkinson for Hertfordshire, Mr. T. Wainwright for North Devon, Mr. H. Stilwell for the Dorset Field Club, Miss Marshall for the Lake District, Mr. H. Warren for Cambridge and Huntingdon (for the last time), the Cornwall County Council, the Great Central Railway Company, and the Commissioners of Northern Lighthouses.

As Mr. Warren was leaving Cambridge at the end of 1905, and was unable to continue the preparation of the monthly "Cambs. and Hunts. Rainfall Table," and as no local successor was forthcoming, I have undertaken the responsibility of carrying it on in future, so that henceforth the names of the Observers themselves will appear in *British Rainfall* as the authorities for their observations, and the change has been made in the present volume.

The Rev. H. A. Boys, of North Cadbury, Somersetshire, has organized a Mid-Wessex Rainfall Association, the fruits of which I hope to gather for *British Rainfall* in the form of an increased number of stations in that important section of the west of England.

Efforts are being made in Ireland to increase the number of rainfall stations, various public bodies and such indefatigable Observers as Sir John Moore and Mr. R. M. Barrington are taking an active part in the attempt to improve the present unsatisfactory conditions.

Mr. Gethin Jones has continued his difficult measurements of the rainfall of Snowdonia, and must be congratulated once more on a fresh year's records from the most interesting district in Wales.

I cannot close this paragraph without referring to the numerous Corporations, local authorities and waterworks engineers who have enriched these pages with their records obtained often in remote and difficultly accessible mountain and moorland districts. Thanks are not infrequently flavoured with expectancy, and in this connection I ask special attention to the list of badly represented districts given in the introduction to the section on Losses and Gains.

Inspection of Stations.—For the reasons stated last year I have been able to inspect only a limited number of stations, but those which were visited revealed several defects which on being pointed out were immediately rectified. In the work of inspection any rainfall observer who is fortunate enough to command leisure and a motor car can render great assistance, and I would make a point of making even a long journey by rail if I were sure of finding the means of visiting a dozen stations in a few hours. The Metropolitan Water Board, which is responsible for the rainfall observations formerly carried on by the Water Companies now absorbed, has arranged for me to inspect all the rain gauges it maintains, so as to be sure of the results being of the highest attainable accuracy, and in this it sets an example to other public bodies.

Annual Rainfall Maps.—One of the desiderata for *British Rainfall* referred to last year has been made possible by the kind promise of a member of the Organization, who has sent in rainfall records for nearly a quarter of a century, to contribute a substantial amount towards preparing a detailed rainfall map of the British Isles for every year since the number of Observers became sufficient to make it possible to draw such a map. On obtaining this promise steps were at once taken to commence the work. A special map of the British Isles was prepared by the eminent cartographer Mr. J. G. Bartholomew, which shows all important towns and railway stations, and also exhibits the vertical relief of the country by shaded contours which make the higher land stand out prominently. If this

map were printed in black it would be so crowded that rainfall figures and lines entered upon it would be scarcely legible, but to avoid this the map is printed in grey, perfectly legible as regards even the smallest names, and allowing the figures and isohyets entered in black or red to stand out prominently. I was fortunate in securing the assistance of Mr. P. C. Waite, of Edinburgh, with whose help the maps from 1905 back to 1899 have been entered up; but some years must necessarily elapse before the whole are completed and the question of publication has to be considered. No maps on so large a scale with such abundant data have ever been produced hitherto for any country, and if they are ultimately published, even on a reduced scale, they will form an Atlas of which all the surviving Observers whose work is enshrined in them may reasonably be proud.

County Maps of Rainfall.—The Director of the Geological Survey, in preparing a new series of "Water Supply Memoirs" of some English counties, applied to me for data respecting rainfall, and at his request I have prepared maps of the average rainfall in Lincolnshire, Suffolk, the East Riding of Yorkshire, Northamptonshire, and Kent, several of which have already been published on the scale of 10 miles to an inch. In these maps the period for which the average is calculated is 35 years, and there is reason to believe that they afford a very close approximation to the true general distribution of rainfall in the parts of the country concerned.

Publication of Rainfall Values.—The appearance of Professor Hellmann's magnificent volumes of "German Rainfall," a full notice of which is given in Part I., recalls a thought which for years past has never been far from my mind. That is the possibility of printing the vast collection of rainfall statistics relating to the British Isles since the year 1677, when the famous Townley record was started in Lancashire. The data they contain from about 1865 onwards will be made available in the annual maps referred to above, and for most practical purposes these maps will serve sufficiently, but it is impossible to refrain from aspirations towards the greatest completeness possible. The volumes containing the data for 230 years would be numerous and they would involve much labour in the compilation and publication, while they would appeal to so small a number of the public as to make the idea of the sale of copies contributing substantially to the cost of production quite out

of the question. The work is one that only a Government or a person of great wealth could pay for, and it is likely that many a year will pass before the fine monument to German observational work is eclipsed by a similar tribute to British perseverance.

While so great a retrospective survey is at present out of the question, a contemporary contribution to it in the shape of an addition of monthly values to the data already published in *British Rainfall*, would be a comparatively simple matter. It requires only that the General Table be doubled in length; each page remaining as at present, but faced by a new page, giving for each station the twelve monthly values for the year, and perhaps the maximum fall of the year as well. The annual volume would be increased by about 90 pages, the expense of compilation by fully £100. I do not put this forward as a necessary improvement, the additional work it would entail upon me would be very heavy, but if the readers of *British Rainfall* desire the addition, and make it possible, I will not shrink from it.

Tables of Daily Values.—Last year I asked the readers of *British Rainfall* whether the daily records at, say 50 stations, would be more interesting or useful to them than 50 pp. of Notes by Observers. Only a few answers were received, and half of these said “Yes,” while half said “No,” and so we leave matters in this respect exactly as they were last year.

Terminology.—It is very important in all scientific work that every definite idea should be expressed by an equally definite word or *term*, which is not used for any other purpose, or which can at least be readily recognized whenever it is appropriated to a narrower use than that customary in ordinary language. Such terms are often derived from the Greek, and an example of this is found in the word *isohyetal* which is applied to a line passing through places having equal rainfall on a map. It so happens that English words have been found quite good enough to express most of the definite ideas with regard to rainfall work, though their meanings have to be restricted for the purpose. Thus the convenient expression *Drought* has been given precision by association with an adjective in the form of *Absolute Drought* for a succession of more than 14 days without recorded rain, and *Partial Drought* for a succession of more than 28 days with a very small average rainfall per day. I wished to find an equally simple term for a succession of more than fourteen days on each of which rain fell, and in the hope of lighting upon some

good but obsolete English word I applied to the distinguished lexicographer, Dr. J. A. H. Murray, of Oxford, the highest authority on the subject. He most kindly went fully into the subject, but could find no word bearing the same relation to "wet" as *drought* does to "dry," unless the word *weet* would serve. To *weet*, however, despite a certain attractiveness, there is the disadvantage of an undignified colloquial use in a certain part of the British Isles with reference to liquid refreshments, and it seemed better to adopt Dr. Murray's endorsement of my provisional expression "rainy spell," though I gladly accept his suggestion to shorten it to *Rain spell*. This necessitated another desirable change, which had already been made by other meteorologists, in the use of *Rain day* to denote a day on which at least .01 in. of rain is recorded, instead of the "rainy day" hitherto referred to in these pages.

Another set of words which seemed to require setting in order are *Mean* and *Average*. The two have long been used in these pages as inter-changeable, but I have now resolved to try to use each in a definite sense. I accordingly use the word *mean* to express the sum of any number of values divided by that number; that is to say, if a column of twelve figures adds up to 120, the mean of that column would be 10. It is thus used in a wide and unrestricted sense. But *Average* I think it desirable to restrict to the mean of rainfall figures taken over a range of time, and thus speak for instance of the *average rainfall* of a place for ten years. A third word then became necessary to designate the mean rainfall of a number of places at the same time, and for this I have found the word *general* to be useful and satisfactory. Thus while the word *mean* is left free for use with any set of figures that may have to be added up and divided, the average rainfall at Camden Square denotes the mean of a number of years' rainfall at that station, while the general rainfall of the county of London in 1905 means the whole volume of rain which fell upon the county of London divided by the area, *i.e.*, the mean of all the rainfall records for the year in the county, supposing that the stations yielding them were uniformly distributed. The average general rainfall of the British Isles is the mean of the general rainfall for a series of years. Anyone who has endeavoured to convey the facts regarding the variations of rainfall at stations, or over areas at one time or various times, will understand the difficulties I have endeavoured to meet. I am not wedded to any of these words, and will gratefully accept better if they are suggested.

Finance. — The number of rainfall Observers is increasing steadily, the number of subscribers to the publications is also increasing, though slowly; while the total amount of the subscriptions remains practically stationary, the general amount subscribed decreasing. If as many of the Observers as can afford it were to subscribe for the publications, the latter would pay for the expense of compiling, printing and distributing; but as those Observers who do not so subscribe are very unlikely to read this paragraph, it is hardly worth while to appeal to them here. For the last two years the cost of collecting the returns, paying assistants, observers in remote localities, rent, stationery, printing, postage and the innumerable minor expenses, has exceeded the income from subscriptions and the sale of publications; and so far from there being any surplus available for the remuneration of the Editor, he has been obliged to divert time from a work on which he would gladly concentrate the whole, in order to make up the deficit and earn his own living. Such a state of things cannot be accepted as satisfactory; the strain, as experience has shown, is too great for any individual, and it is obvious that sooner or later the question of securing a permanent financial basis for the work must be faced.

HUGH ROBERT MILL.

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GERMAN RAINFALL.

AMONGST the articles on various branches of rainfall work which the title page of *British Rainfall* proclaims to be one of the features of the volume, not a few in the past have dealt with questions concerning the rainfall of other countries, and the work of other organizations. The appearance of the most remarkable compendium of rainfall data which has ever been published, is an event of such importance that we feel it ought not to pass without adequate notice in our pages. The work in question is entitled—"Precipitation in the North German River Basins,"* and comprises three singularly handsome and substantial volumes, which one would characterise as "quarto," from their external appearance, although inspection shows that the sheets are folded in octavo, but it is octavo of the largest. The total weight of the three volumes amounts to almost 17 lbs., the first consists mainly of text, the two others entirely of statistical tables, the total number of pages is 2152. The author is Dr. Hellmann, who in the course of his official duties as a departmental chief in the Royal Prussian Meteorological Institute in Berlin, has specially charged himself with the task of building up an efficient network of rainfall stations in Germany, and collecting all the existing records of German rainfall in the past. For ten years he has been superintending the compilation of the data and preparing the discussion of them for these volumes; the result is a monument to his genius and perseverance, and a noble contribution to meteorological science.

It is impossible to give an abstract of the whole work, for the information given in solid columns of figures is incapable of further compression; but we can at least explain how these figures were obtained and arranged, and touch upon some of the outstanding features of the discussion which forms the text.

* The full title is *Die Niederschläge in den Norddeutschen Stromgebieten. In amtlichem Auftrage bearbeitet von Professor Dr. G. Hellmann, Geheimer Regierungsrat, Abteilungs-Vorsteher im Königlich Preussischen Meteorologischen Institut. In drei Bänden. Berlin, 1906. Dietrich Reimer (Ernst Vohsen).*

I.—Plan of the Work. The object was to collect all the rainfall observations taken from the beginning of the oldest records in the whole area drained by the rivers which flow through northern Germany to the sea. Of the stations available 1700 were within the jurisdiction of the Royal Prussian Meteorological Institute, and about 2300 in adjacent states or countries. The observations at the 4000 stations dealt with extended to 30,000 years, giving an average duration of $7\frac{1}{2}$ years for each record. The work of discussing the data commenced in 1890, with a special grant from the Prussian Government, and two or three assistants were employed for six years in the preliminary operation of preparing the raw ore for the furnace, as Dr. Hellmann poetically puts it. Much of the material was found to be unsatisfactory, and had to be rejected, but by 1899 the two volumes of tables had been prepared, and were ready for printing, the subsequent delay was largely due to the difficulty of finding time to discuss the figures. The records now published were not carried beyond 1890, as Dr. Hellmann's series of rain maps and memoirs of the Prussian provinces dealt in detail with the decade 1891—1900.

A new rainfall map of the whole German Empire for the period 1893—1902, has been prepared, and is included in the work before us. The period is, in our opinion, too short to yield a satisfactory result; but in rainfall matters we must often be content with approximations which represent, as this map does, the best available information.

The material available for the tables extends back to the year 1715, when the first known record of German rainfall commenced at Ulm. In France, observations had been started at Paris in 1668, and in England, Mr. Townley began his famous record at Townley, in Lancashire, in 1677, so that in these observations South Germany was 38 years behind England, and 47 years behind France, while North Germany had no records until two or three years later. The Meteorological Society of the Palatinate was founded in 1780, and gave a stimulus to observations in the Rhine country, while in 1847 the Royal Prussian Meteorological Institute was founded with the modest number of 35 stations. It was in 1879 that Professor Hellmann formulated his plan for a complete network of 2000 rainfall stations for North Germany, though it was not fairly set on foot until 1887. Hellmann's rain gauge, costing 14s., took the place of the former expensive equipment costing £4 10s., and the change

led to increased accuracy and efficiency. Year by year one province of Prussia after another entered into the system, and one after another of the adjacent states followed the example, until in 1903 the accession of Oldenburg completed the uniform rain observing system for the whole of North Germany planned in 1879. This was a splendid triumph, and it is fitting that the inauguration of an era of complete and comparable observations should be marked by the collection of all the pioneer work which preceded it.

Generous as public departments in Germany proverbially are to scientific work, the expense of preparing a map of the stations whose records are given was found to be too great. The following summary, condensed from the Table given on p. 15 of Vol. I., shows the total number of records given in the volumes arranged according to their distribution and duration :—

Distribution and Duration of Rainfall Records, 1715–1890.

STATE.	No. of Stations.	1 month to 4 yrs. 11 mths.	5 years to 9 yrs. 11 mths.	10 years to 19 yrs. 11 mths.	20 years to 29 yrs. 11 mths.	30 years to 39 yrs. 11 mths.	40 years and over.	Total Length of Records. Years.
Prussia	1443	1055	225	84	31	22	26	7509
Other States of Germany ...	777	273	289	120	51	25	19	7465
Russia	84	63	14	6	—	—	1	408
Austria-Hungary.....	1245	416	274	518	25	5	7	10,587
Switzerland	339	95	115	93	33	3	—	3098
France, Belgium, &c.....	95	30	32	26	6	—	1	865
TOTAL	3983	1932	949	847	146	55	54	29,932

The number of stations at work during any decade from 1701–10 in the whole area under consideration did not exceed 10 until 1811–20 ; thereafter the numbers were :—

Decades.....	1811–20.	1821–30.	1831–40.	1841–50.	1851–60.	1861–70.	1871–80.	1881–90.
Stations at work	27	63	79	106	210	412	1567	3672

It is seen above that 2220 stations were within the German Empire ; the remaining 1763 required to complete the study of the rainfall of the North German river basins lay in adjoining countries. Most of the records dealt with were short, 48 per cent. of them being of less than 5 years' duration, and only 181 records, or 4½ per cent. of the whole, being of more than 25 years' duration. In

Germany and in the adjoining parts of Russia, Austria-Hungary, Switzerland and France, there were up to 1890 the following number of records of various lengths: 1102 of more than 10 years, of which 255 had over 20 years, of these 109 had over 30 years and of these 54 had over 40 years. Without being able to make a complete comparison, for the mere counting of the number of stations would involve many days' work, we may mention that up to 1890 there were 1250 stations *at work* in the United Kingdom with records exceeding 10 years, of which 695 stations had records exceeding 20 years, of these 173 stations had records exceeding 30 years, and of these 50 stations had records exceeding 40 years.

The critical discussion of the German data was, however, a more serious task than that awaiting whoever undertakes to prepare similar volumes of British Rainfall for the press, because of the different units of measurement employed, the different hours of observations and the infinitely varied methods of exposure of the gauges, themselves varying enormously in size and type. The oldest records always gave the amount of water collected by weight, and each large town on the Continent had then its own separate system of weights and measures, and in the first three quarters of the nineteenth century the values were given for the most part in cubic Paris inches. The original records or the earliest authentic copies of each record were invariably used, and the first work was to translate the medley of confused reckonings into millimetres of depth of rain. Thereafter a set of eight Tables was made out for each station so far as the degree of detail and accuracy of the record permitted. These Tables (with the number of pages they occupy as printed) were :—

1. Depth of precipitation for each month (1089 pp.).
2. Maximum fall in 24 hours (151 pp.).
3. Number of days with measurable precipitation (97 pp.).
4. Number of days with more than .2 mm. (.01 in.) of precipitation (87 pp.).
5. Number of days with hail (34 pp.).
6. Number of days with snow, and date of the first and last snowfall (110 pp.).
7. Monthly amount of snow.
8. Monthly amount of "snow and rain."

In translating the above we have followed Dr. Hellmann's ter-

minology, using the word "precipitation" for the fall of rain, hail, snow or whatever is measured in the rain gauge, instead of calling it all "rain," as is customary in dealing with measurements in *British Rainfall*. It is not surprising to learn that it was only in a comparatively small number of cases that Tables 2 to 8 in the above list were of any value for comparison on account of the uncertainty of estimating the number of days with rain.

The influence of different types of gauge is discussed and Dr. Hellmann points out that the imperfections of the early rain gauges were usually compensated by the great care taken by the very few observers of those days, who were all men of science keenly interested in the work, while he notes also that too often the less serious observers of to-day, with more perfect instruments carelessly used, produce less satisfactory results. Far greater uncertainties are introduced by the different exposures of rain gauges and the different heights above the ground at which they are set. The present standard height of a rain gauge above ground in Prussia is 1 metre, or 3ft. $3\frac{1}{2}$ in., whereas formerly the official gauges were set at 2 metres (6ft. $6\frac{1}{2}$ in.). Professor Hellmann shows that on the average in Germany a rain gauge set at 1 metre catches less rain than one set at 1 foot by about 3 per cent. in a calm summer month and about 10 per cent. in a stormy winter month; but local conditions introduce such great variations that it is impossible to apply a general correction for height with any satisfaction. We may, however, assume that in order to compare the records dealt with in the volumes before us with those in *British Rainfall* they must be increased by nearly 5 per cent. The introduction concludes with a valuable bibliography of the somewhat voluminous literature of German Rainfall.

The discussion of the data which are printed at length in the second and third volumes is divided into three sections, dealing respectively with the Amount, the Frequency and the Variations of Rainfall, and as there is reason to believe that the conditions of continental and insular rainfall differ considerably, we have prepared the following abstract of Dr. Hellmann's conclusions to serve as a basis of comparison with past and future discussions of British Rainfall. It must be remembered, however, that this discussion is mainly confined to the long complete records, which are not very numerous, and that no attempt has been made to deduce the general distribution of rainfall over Germany from year to year.

II. **Amount of Rain.**—In the Tables of Vols. II. and III. the monthly and annual rainfall is calculated for lustra, or periods of 5 years, and where the record is more than 10 years in length the average values for the whole duration are also given, though these averages, referring to different periods, are not directly comparable one with another. The relative exactness of the averages for different periods was investigated by the method apparently first used by K. F. Koch, of Erfurt, in 1887, and independently adopted by H. F. Blanford in his discussion of Sir Alexander Binnie's paper on "Mean or Average Rainfall" in 1892. It is a development of the familiar method of curve-smoothing, sometimes called Bloxamizing, and consists of taking the averages of the first five years, then of the five years beginning with the second year of the record, then of the five years beginning with the third year of the record, and so on to the end; repeating the process for groups of 10, 20 or more years. The mean variations from the average of the various groups of years for two long periods, at Gütersloh and Klaussen, are summarized as follows:—

Mean Variation from the average.

	5	10	20	30	40	50	60 years averaged as above.
Gütersloh } (64 years)	1·87	1·09	·67	·31	·16	·12	·05 in.
	6·4	3·8	2·3	1·1	·5	·4	·2 per cent.
Klaussen } (71 years)	2·26	2·11	1·71	·86	·35	·26	·04 in.
	9·8	9·2	7·6	3·8	1·6	1·1	·2 per cent.

This indicates a much greater variability for the more continental climate of Klaussen than for the more maritime climate of Gütersloh in Westphalia. Comparing the similar investigations made by J. Hann on the Padua and Milan records and by H. R. Mill on various long English records, Dr. Hellmann concludes that the average of any long period is nearer the true average in a maritime than in a continental climate. The result deduced is that in general when the variation from the true average may be allowed to be as much as ± 2 per cent., the period to be taken may in favourable cases be as short as 30 years. In order to find the extreme variations the following method was adopted. The variations from the average formed by considering groups of n years in any long record must lie between the extreme variations shown by the n wettest and the n driest years. In the case of Gütersloh these variations were as follows:—

Mean of the Rainfall in the n Wettest and the n Driest Years expressed as Percentages of the 64 Years' Average.

	n = 5	10	15	20	25	30
Wettest years	129	124	120	118	115	113
Driest years.....	69	73	77	81	84	87
Difference.....	60	51	43	37	31	26

As only 109 stations in all those considered had records of 30 years or more, it was necessary to consider the means of supplementing them by the use of computed means. M. Fournié, of the Hydro-metric Survey of the Seine, had pointed out in 1864 that the relation of the annual rainfall between neighbouring stations was practically constant from year to year ; and G. Karsten, in applying this principle in 1872 to the calculation of average values from short records, had pointed out that the exclusion of very heavy thunderstorm falls improved the accuracy of the comparisons. In 1880 J. Hann further developed the method, and, though Professor Hellmann does not mention the fact, it had been used with confidence and success by the late G. J. Symons for many years. By the discussion of several pairs of stations it is shown here that with a short record of not less than 10 years it is possible to estimate a long period average by comparison with a long record even as far as 70 miles away, although it would be fallacious to deduce an average value from observations of only one or two years. It is also shown that the method can be applied for longer distances in the western or more oceanic than in the eastern or more continental parts of Germany, the former being regions of predominant cyclonic, the latter of predominant thunderstorm rains. The practical result is that it is always better to reduce a short record to the average by comparison with a long record taken to the west, than by one taken to the east. The method, though useful for computing the average annual rainfall, subject to proper precautions being taken, is much less easily applied to the computation of average monthly values. Professor Hellmann shows that ten-year means may be used with great effect in preparing rainfall maps of a small district to bring out the geographical distribution of rainfall ; but for a large region like the whole of Germany maps compiled from such short records are by no means accurate representations of normal distribution. From the study of the longest records reduced to their average value for the 50 years 1851-1900 it appears that the lowest mean annual rainfall in the North German river basins is about 18 inches, while the greatest average annual rainfall in the area is about 58 inches.

With regard to the yearly periodicity of rainfall it is shown that in order to give trustworthy averages for monthly rainfall a record of at least 60 years is required. But as very few records of such length, or even of 50 years, were available, it was necessary to discuss monthly rainfall on the basis of the fairly numerous records extending over 35 years, although the variability of records of such short duration considerably exceeded 10 per cent. of the monthly values. About 90 records of monthly rainfall for 35, or 35 and 50 years, are quoted in millimetres, and also in percentages of the annual fall. The latter method, given both in figures and in curves, shows most clearly the relative wetness of the different months, and the results are summarized in a series of little sketch maps.

The most apparent difference between the general march of rainfall throughout the year in Germany and in the British Isles, is the much more regular seasonal changes in the more continental country, the monthly values, as a rule, gradually increasing from a minimum about February to a maximum in July, and then as regularly diminishing for the rest of the year. In the west, where maritime conditions prevail, there is a tendency for the maximum to occur later in the year, or at least for a secondary maximum to appear in October. Thus in the extreme south and south-east of Germany June is the month with most rain; but north of 50° it is July, except for the extreme north-west, where it is August or October, never September, as it is often erroneously stated on the strength of short records. Similarly over southern and central Germany the driest month is January, in the north-east February, and in the extreme north and north-west April. The relations of the rainfall for the four seasons are equally interesting. The rainfall of Winter is 24 per cent. of the annual total in the extreme west of Germany, and diminishes steadily towards the east and south, until it becomes less than 16 per cent. in the source region of the eastern rivers. The Spring rainfall, on the other hand, increases from about 18 per cent. in the north-west, and 20 per cent. along the Baltic coast, to more than 24 per cent. in the whole valley of the Danube. In Summer the maximum difference is found, from less than 30 per cent. of the annual rainfall on the North Sea coast to more than 40 per cent. in the heart of the continent, where the Oder and the Vistula rise. In Autumn the relation is again reversed, and the proportion of the annual fall varies from 30 per cent. along the North Sea and Baltic coasts, to less than 22 per cent. in the central and southern States.

Recognising that the month with the greatest mean rainfall is not necessarily the month which is most frequently the wettest in the year, Professor Hellmann made a careful study of the occurrence of the three wettest and the three driest months of the year in the case of 26 records extending over the same period of 50 years. The absolute maximum of monthly rainfall occurs in a more and more limited range of months the farther one goes from west to east; thus in the west any month of the twelve may be the wettest of the year, in the extreme east the wettest month is always one of the six from May to October, never one of the months of the winter half-year. A nearly constant relation exists between the average monthly maximum, second greatest and third greatest rainfall and the average annual rainfall; thus for 9 stations with 50 years' records the following relationships hold good, the figures given being monthly falls expressed as percentage of the annual fall:—

Nine Stations.	Greatest.	Second Greatest.	Third Greatest.	Sum of Three Greatest.			
Mean	18·3	...	14·3	...	12·0	...	44·6
Highest	21·4	...	15·1	...	12·3	...	48·7
Lowest.....	17·0	...	13·8	...	11·7	...	43·0

The seasonal variations of rainfall in the mountainous districts is discussed in detail, but space compels us to pass it over unnoticed.

The maximum daily rainfall is studied specially and a comparison of the maximum daily falls for each month shows that these are greatest in June, July and August, and least in Winter or Spring. As a rule, the mean maximum for any month is from 25 to 29 per cent. of the total monthly fall, but it is somewhat smaller for dry stations and somewhat larger for wet stations. The absolute daily maximum is as a rule $2\frac{3}{4}$ times as great as the mean daily maximum. The smaller the mean annual rainfall the greater is the percentage value of the wettest day. The frequency of maximum falls of different values is set out in a table including the longest records, expressed in twelve ranges of .40 in. (10 mm.) each. The result is to show that in almost all cases the maximum daily fall for the year amounts to from .84 in. to 1.20 in., or else from 1.24 in. to 1.60 in., the lower values greatly preponderating. At some stations, chiefly in the west, as many as 62 or 63 per cent. of all the maximum falls in a long record are within the same range of .40 in.; at other stations not more than 22 per cent. of the maximum falls occur within any of the twelve successive ranges of .40 in., the more variable being the wetter stations.

The maximum falls exceeding about four inches (more exactly, 100 mm., or 3·94 in.) are dealt with separately as of peculiar importance on account of the serious consequences which usually follow a fall of such intensity. About 450 cases are dealt with; but in this section the records down to 1903 are considered (not only to 1890, as in the Tables printed in Vols. II. and III.), and the greater number of the heavy falls considered occurred in the more recent years. Falls exceeding 4 inches in one day occurred mainly in the mountainous districts on the continental border of Germany or near the sources of the eastern rivers, and they were infrequent on the plains or near the sea. The greatest fall was 13·62 in, which fell on 29th July, 1897, at Neuwiese, in northern Bohemia, and this was confirmed by the record of 11·82 in. at the neighbouring station of Wilhelmshöhe on the same day. In the plains falls of as much as 6 inches cannot be classed as altogether uncommon and in the dry continental region (where they chiefly occur) one such fall amounts to from 20 to 30 per cent. of the mean annual rainfall. In the Vistula and Oder basins more than 80 per cent. of the falls over 4 inches occurred in Summer; in the Elbe 74 per cent. in Summer, and none in any of the three basins in Winter; but in the basin of the Rhine the heaviest falls occurred nearly impartially in all seasons except Spring—viz., Winter 27 per cent., Spring 6, Summer 33, and Autumn 34 per cent.

A comparatively small amount of data was available for the discussion of heavy rains in short periods, but Professor Hellmann takes occasion to regret that international agreement does not exist as to what constitutes a heavy rain (in German, *Platzregen*) or a cloudburst. He quotes the following definitions:—

C. Goodman (in Wild's *Repertorium für Meteorologie*, xv. No. 6, 1892) calls a heavy rain "such a rainfall as would yield ·40 in. if it continued at the same rate for an hour, and which yields at least ·06 in. in ten minutes."

A. Riggerbach (in a memoir, *Ergebnisse Siebenjähriger Niederschlagsregistrierungen in Basel*, published in 1898) calls "heavy rain a precipitation of at least five minutes' duration, with an intensity of at least ·80 in. per hour."

Finally, E. Less (in the *Meteorologische Zeitschrift* for 1900) considers as "days with heavy rain," those days on which more than ·20 in. fell in one or several hours.

Professor Hellmann says that if we wish to define heavy rain, we

must consider duration and intensity simultaneously in groups of specified time-intervals, with a separate lower limit for intensity in each group. In order to ascertain the values which make a heavy rain remarkable, he worked out the mean intensity of heavy rainfall of different short durations for North Germany, and found that the curve expressing it could be reduced approximately to the following formula,

$$i = -0.311 + \frac{3.522}{\sqrt[3]{t}}$$

where i is the intensity of rainfall in millimetres per minute, and t the time for which the rain lasted. As $i = \frac{h}{t}$, where h is the height in millimetres of the rain fallen in the time t , the following immediate relationship between the average amount and average duration of heavy rain is obtained--

$$h = -0.311t + 3.522 \sqrt[3]{t^2}$$

The curve as drawn with time as abscissae and amount of rain (instead of intensity) as ordinates, is higher and less flattened than the curves drawn originally by G. J. Symons in 1874, and omitted from this volume of *British Rainfall* for the reason stated on p. [96]. Professor Hellmann also uses two curves, the lower representing the mean of the heavy rains (for a comparatively small number of years) in North Germany, the upper the heaviest rains. The lower curve of *British Rainfall*, below which the falls were "too numerous to require insertion," is considerably lower than Professor Hellmann's mean curve of heavy rains, while the curve of "extremes rarely exceeded" (values distinguished in the Table of Heavy Falls in Short Periods by a \times) coincides with Professor Hellmann's upper curve for 5, 10 and 15 minutes duration, and then assumes a position almost midway between the two curves of heavy and heaviest rains.

Comparisons of Limits of Heavy Falls in Short Periods.

DURATION.	HELLMANN.		SYMONS.	
	Average Heavy Rain.	Heaviest Rain.	Not Remarkable.	Rarely Exceeded.
5 min. ....	.32 in. ....	.52 in. ....	.20 in. ....	.55 in.
10 ,, ....	.52 ,, ....	.88 ,, ....	.30 ,, ....	.80 ,,
15 ,, ....	.68 ,,	1.12 ,, ....	.35 ,,	1.10 ,,
20 ,, ....	.84 ,,	1.28 ,, ....	.40 ,,	1.12 ,,
30 ,,	1.04 ,,	1.64 ,, ....	.50 ,,	1.30 ,,
45 ,,	1.32 ,,	1.92 ,, ....	.63 ,,	1.50 ,,
1 hr. 0 ,,	1.48 ,,	2.24 ,, ....	.75 ,,	1.80 ,,
1 ,, 30 ,,	1.72 ,,	2.52 ,, ....	.87 ,,	2.05 ,,
2 ,, 0 ,,	1.92 ,,	2.76 ,,	1.00 ,,	2.20 ,,
2 ,, 30 ,,	2.04 ,,	2.92 ,,	1.10 ,,	—
3 ,, 0 ,,	2.12 ,,	3.00 ,,	1.20 ,,	—

It is worth while to give here the figures comparing the two, and bearing in mind the greater intensity of heavy falls in a continental than in a marine climate, it seems not improbable that the relations of the two systems to ordinary rainfall in the two countries is about the same.

III. Frequency of Rainfall.—Professor Hellmann has our full sympathy in his struggle with the difficult question of the number of rain days, the limit of which he now takes as $\cdot 2$ mm., practically $\cdot 01$ in. By discussing a number of records which appeared satisfactory, and had been kept with greater minuteness, he ascertained that on the average the number of days with measurable rain was 2 per month greater than the number with more than $\cdot 2$ mm. The data available were not sufficient to justify the preparation of a map showing the mean number of rain days, but leaving the mountains out of account the number of days diminished from 175, or a few more in the north-west of Germany, to 135, or a few less in the south-east. In the mountains the number of rain days approached, and in one case quoted exceeded, 200 in the year. The distribution of rain days throughout the year varies in different parts of Germany somewhat irregularly; but in the north and west the months with most frequent rain are October, November or December, and the month with the least frequent rain is April. In central Germany, July has the most frequent rain, and September usually the least; while in the south, June has most rain days, and November or January least.

The daily rainfall is also dealt with in respect to the number of days on which various amounts fell, the discrimination being carried to such a degree of minuteness that representative stations have the frequency of falls determined at intervals of every millimetre ($\cdot 04$ in.) of amount.

Days with snow and hail are discussed in considerable detail, but we must pass by this portion of the work.

IV.—Variations of Rainfall.—In dealing with any long record the first essential is to ascertain whether it is of equal accuracy all through, and the easiest way of ascertaining this in a preliminary way is to see how many times the maximum yearly rainfall in the whole series exceeds the minimum. In Germany this figure for a long homogeneous record usually lies between 2 and 3. If the maximum is not more than $1\frac{1}{2}$ times the minimum, the record is almost certainly not homogeneous. A more exact test of homogeneity is

found by comparing the ratios of the individual years to the average at several contiguous stations. The extreme variation from the wettest to the driest year may appear in a record of only two years, or it may require fifty years before both extreme values are found. The smallest maxima of annual rainfall in Germany do not exceed 28 inches in the centre of the North German plain, while the largest maxima rise in the mountains to something like 88 inches. The lowest minima of annual rainfall fall considerably below 12 inches (as little as 9 inches has been recorded in Posen), while the highest minima are about 40 inches near the sources of the Rhine. In the 50 years 1851—1900, at 94 stations, the year which was wettest at most (29 stations) was 1882, and the year which was driest at most (26 stations) was 1857, a remarkable circumstance being that the following year, 1858, was almost equally dry. As a mean of 34 records, each extending over 50 years, the maximum year averaged 139 per cent. of the average, the minimum year 62 per cent., the former being 2·2 times as great as the latter. For purely practical purposes, however, Professor Hellmann shows that it is safer to put the maximum year at 145, and the minimum year at 60 per cent., of the average, values which accord closely with those holding good for British stations, usually taken at 150 and 60 per cent. An interesting result also obtained is that the ratio between the maximum and minimum annual rainfall in a long record is nearly the same as that between the monthly maximum and the monthly mean.

It is also found that there is a greater tendency for a run of consecutive dry months, than for a run of consecutive wet months. The relation of months and seasons consecutively above and below the average is discussed in considerable detail, and the question of droughts and rain spells is similarly handled. The succession of days with or without rain was studied for ten stations, with 53 years' records, and it was found that periods of 5 consecutive rain days were just as common as periods of 5 consecutive rainless days; but that for higher numbers the periods of dry days were much more frequent. The longest rain spell on the record was 33 days—the malign power of St. Swithin evidently did not extend to Germany—and the longest drought on the record was 45 days.

The last part of the discussion deals with the interesting question of periodic variations of rainfall. For this purpose 21 records of fifty years' duration were selected, and the annual values calculated as percentages of the respective averages. Professor Hellmann finds

that the German observations lead to results similar to those recently obtained by Dr. Buchan, for Scotland, and by Mr. Claxton, for Mauritius, viz. : that there is a relation between the variations of annual rainfall and sunspot frequency, each sunspot period including two rainfall maxima, closely related to the turning points of the sunspot curve, the larger maximum of rainfall corresponding to the sunspot minimum, the smaller to the sunspot maximum. A similar discussion of the 35 years' cycle associated with the name of Professor Brückner leads to the conclusion that the figures for the North German district fully accord with the results deduced by Brückner for the whole of Europe. In conclusion, Professor Hellmann warns his readers that although the cycles he has been considering are of profound interest in the study of cosmical physics, they are valueless for practical purposes, as the variations are such that an individual year is as likely to be discordant as accordant with the general rule.

The first volume concludes with remarks on particular stations, an index to stations running to more than 100 pages, and a description of the rainfall map of Germany. The second and third volumes contain the Tables, the stations being arranged according to river-basins, a separate table being given for each station, the months and annual totals arranged horizontally across the ample width of the page, the years being given in successive lines, and each long record is provided at the end with a line giving totals and means for the whole duration as well as five-yearly means.

THE RELATION OF EVAPORATION FROM A WATER SURFACE TO OTHER METEOROLOGICAL PHENOMENA IN 1905.

DURING 1905 the observations of evaporation at Camden Square were supplemented by the readings of a Robinson anemometer by the side of the tank with the cups 1 foot above the surface of the water, in the hope of finding some relationship between the amount of evaporation, especially in winter, and the velocity of the wind. The year, however, proved to be not very windy and the particular object of the investigation was not attained, but the observations are being continued, supplemented by readings of the temperature of the water at the surface and bottom of the tank. We now present a comparison of the evaporation throughout the year with temperature in air and soil, duration of sunshine and rainfall, relative humidity and amount of rain. All the instruments were read at 9 a.m., so that the conditions are strictly comparable.

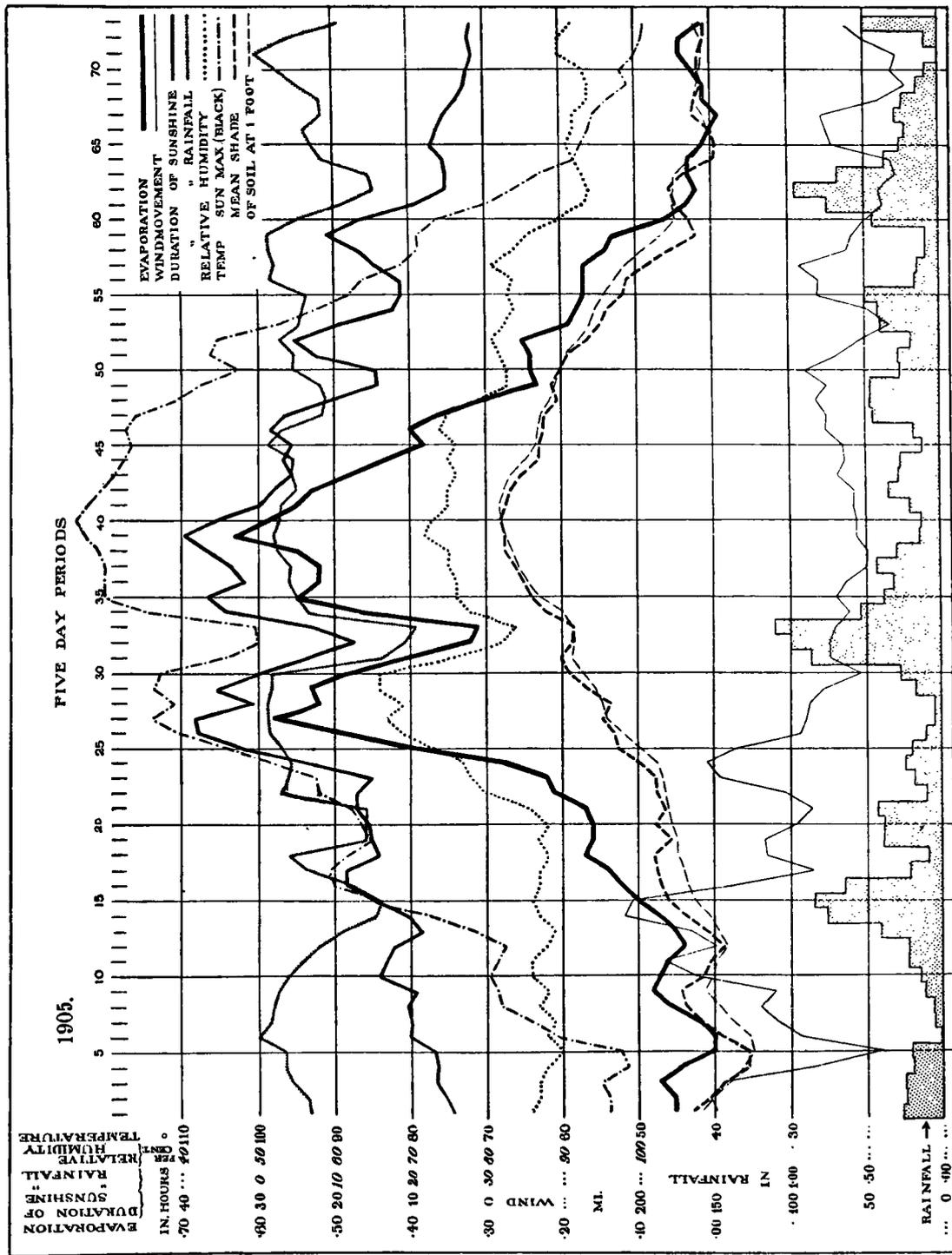
The evaporation was measured in the standard iron tank, 6 feet square and 2 feet deep, the rim of which rises 3 inches above the surface of the ground, clay covered with grass, and the surface of water is maintained nearly at the ground level. The measurement is made by a hook-gauge resting on the rim of the tank and read by means of a vernier to the hundredth of an inch. The amount of rainfall is of course allowed for. All the other instruments are within five or six yards of the tank and those which have been examined are as follows:—(1) The wet and dry bulb thermometers and maximum and minimum thermometers on a Glaisher stand, yielding the mean daily temperature (mean of 9 a.m., 9 p.m. maximum and minimum temperatures) and the mean relative humidity from the 9 a.m. and 9 p.m. observations; (2) the black bulb thermometer in vacuo exposed at 4 feet; (3) the Campbell-Stokes sunshine recorder, placed where it can record whenever the sun is visible more than about 5° above the horizon; (4) the earth-thermometer at 1 foot, an alcohol thermometer with the bulb wrapped in cotton, hung in an iron tube long enough to have the bulb 12 inches below the surface; (5) the anemometer already referred to; and (6) a rain

gauge of the Meteorological Office pattern for amount and the Casella recording gauge for duration of rain.

The daily readings vary so greatly that it was decided to work with the means of five-day periods in the case of temperature, and with the totals of five-day periods in the case of the amount of rainfall and evaporation, and the five-day totals of duration of rainfall and sunshine. The five-day means or sums are given in the following Table for all the elements studied, and the results for a selection of the data smoothed by taking the mean of three periods, *abc*, *bcd*, *cde*, *def*, etc., are shown in the curves on the accompanying plate.

The normal curve of mean temperature rises nearly steadily from the minimum in February to the maximum in July, and falls again with equal regularity. In 1905, as shown on the plate, the minimum occurred early in January, and the rapid rise and fall in February broke the regularity of the ascending curve, while a similar rise in the beginning of November broke the regularity of the descending curve. The mean temperature of the soil at 1 foot was practically identical with that of the air at 4 feet, but the curve was more regular, keeping below the air temperature curve when rising, and above it when falling. During Winter, early Spring and late Autumn, the curve of evaporation closely followed those of air and soil temperature, every irregularity being faithfully reflected with the exception of December, when the evaporation curve rose while the temperature curve fell. This winter rise of evaporation corresponded with a marked diminution of rainfall and relative humidity. During Summer, including the late Spring and early Autumn, the evaporation ceased to follow the mean temperature curve; it rose much more rapidly at the beginning and fell much more rapidly at the end of the season. Here the black-bulb temperature, and still more the duration of sunshine and rainfall, seem to have had the greatest effect upon evaporation. The time during which the evaporation was substantially above the average for the year was from the 23rd to the 48th pentad or five-day period (from April 21st to August 28th), and the most interesting part of this period was from the 31st to the 34th pentad (May 31st to June 19th), when there was a very remarkable drop in the amount of daily evaporation. This coincided with only a slight drop of mean air and soil temperatures, and no particular change in the wind as shown on the smoothed curve, but with a great fall of black-bulb temperature, of duration of sunshine,

EVAPORATION FROM A WATER-SURFACE AND OTHER METEOROLOGICAL PHENOMENA.



NOTE.—The curve of duration of rainfall, and the curve of relative humidity are inverted; i.e., the scale figures read from above downwards; in all other instances the scale figures read from below upwards.

and a great increase of relative humidity and of the amount and duration of rain. It was, in fact, a fortnight of gloom and rain, with fairly calm weather and nearly normal temperature.

For the 32nd pentad, when the evaporation fell to its lowest for the summer, the distinct increase in the amount of wind had no effect whatever on evaporation, its action being effectively masked by the gloom and cold rain. On one occasion only the influence of wind seems to have accelerated evaporation. In the 19th pentad (April 1st to 5th) there was a marked increase in evaporation, accompanied by an increase in humidity, no marked rise of mean temperature, and a notable drop of the sunshine and maximum black-bulb temperature; there was, however, a marked increase in the wind, which seems to have stimulated evaporation in spite of conditions otherwise unfavourable. On all the other occasions when wind and evaporation increased together, there was a simultaneous increase in sunshine, and a diminution in humidity and rainfall, all the elements conspiring to the same result, so that it is impossible to distinguish one as predominant over the others. During the first fourteen pentads (from January 1st to March 11th) when the wind showed its maximum range and amount, it had no apparent influence on the evaporation curve which then closely followed that of mean temperature. The 61st pentad (October 28th to November 1st) showed a diminution of evaporation, accompanied by a rise of temperature, and a diminution of humidity, but a sharp increase of rain and wind; and a similar result is shown in the 66th (November 22nd to 26th).

Although the effect is practically smoothed out of the curves as drawn, the raw curves expressing the abrupt changes of the figures in the Table appear to indicate that in Spring and Autumn the evaporation curve really *follows* the mean temperature curve, the inflections of the former occurring a little later than those of the latter, whereas in summer the larger movements of the evaporation curve are *simultaneous* with those of the curves of sunshine and of maximum black-bulb temperature, which then appear to be the determinative conditions. Evaporation in 1905 came to a maximum in the 38th to 40th pentads (July 15th—19th), simultaneously with the maximum of duration of sunshine, five days before the maximum of black-bulb temperature and mean temperature, and ten days before the maximum temperature of the soil at 1 foot.

Too much stress must not be laid on the conditions for one year, however minutely they are analyzed; and so far as this discussion

goes it may be summed up by saying that in 1905, when the rate of evaporation was below the average for the year, it followed the mean temperature; when it was above the average for the year it followed the sunshine and the black-bulb temperature, and that the wind appeared to have had but little effect upon it.

Camden Square, 1905.

Comparison of Evaporation with other Meteorological Conditions.

Pentad.	Date.	Evapor- ation.	RAINFALL.		Sunshine	Wind move- ment.	Mean Humid- ity.	Mean Temp.	Black bulb Temp.	Soil Temp. at 1-ft. below surface.
			Amount	Duratn.						
		in.	in.	hrs.	hrs.	miles.	%	°	°	°
1	Jan. 1— 5	·00	·56	16·1	1·5	68·0	89	38·3	46·0	39·0
2	„ 6—10	·08	·16	2·9	3·8	199·9	85	46·0	58·7	42·2
3	„ 11—15	·08	·00	0·0	10·7	186·7	86	37·0	56·8	38·8
4	„ 16—20	·04	·60	10·5	5·4	46·3	89	32·6	49·2	35·1
5	„ 21—25	·00	·00	0·0	3·2	18·1	90	36·8	47·9	34·4
6	„ 26—30	C ·03	·02	0·3	11·7	58·1	90	36·6	59·2	34·7
7	„ 31—Feb. 4	·04	·00	0·0	14·7	203·2	84	43·2	73·4	36·7
8	Feb. 5— 9	·06	·12	4·4	2·9	63·3	92	46·1	58·8	41·1
9	„ 10—14	·09	·06	1·7	13·4	89·5	86	41·6	71·3	40·0
10	„ 15—19	·08	·18	1·8	11·0	176·6	86	45·3	75·2	42·1
11	„ 20—24	·05	·22	8·3	17·7	213·1	86	36·7	62·1	38·6
12	„ 25—Mar. 1	·04	·28	7·9	10·9	156·1	87	39·2	68·2	38·4
13	Mar. 2— 6	·03	·20	7·3	8·4	71·2	91	40·3	71·5	38·3
14	„ 7—11	·08	·75	17·4	5·6	268·7	88	44·6	74·2	41·2
15	„ 12—16	·10	1·32	21·7	16·3	285·9	83	46·2	87·0	42·7
16	„ 17—21	·12	·45	9·6	21·6	54·0	86	46·9	92·0	43·4
17	„ 22—26	·14	·14	5·9	17·0	72·4	91	47·5	90·6	43·8
18	„ 27—31	·17	·07	3·4	17·0	124·7	84	47·4	89·1	44·6
19	Apr. 1— 5	·20	·05	2·8	7·9	149·2	88	48·1	84·7	45·6
20	„ 6—10	·12	1·05	36·5	20·3	77·3	88	42·0	81·4	44·0
21	„ 11—15	·16	·07	3·4	18·4	60·7	89	52·3	92·5	46·5
22	„ 16—20	·24	·16	2·7	12·3	121·1	80	45·0	89·4	47·2
23	„ 21—25	·24	·10	3·2	20·7	126·2	72	45·4	94·5	44·8
24	„ 26—30	·18	·32	5·1	11·7	186·3	81	52·6	93·2	47·8
25	May 1— 5	·43	·32	4·3	37·1	148·8	77	50·7	107·8	49·2
26	„ 6—10	·59	·00	0·0	47·3	66·6	61	54·5	112·0	52·2
27	„ 11—15	·48	·01	0·1	28·3	63·8	69	54·0	110·7	54·5
28	„ 16—20	·66	·14	3·2	38·6	137·1	71	55·7	118·3	55·5
29	„ 21—25	·42	·00	0·0	24·9	61·2	67	50·7	103·4	53·9
30	„ 26—30	·52	·41	1·9	42·1	35·4	61	63·4	118·9	57·4
31	„ 31—June 4	·50	·42	3·4	23·7	64·4	71	63·0	115·9	60·4
32	June 5— 9	·19	1·74	44·0	4·9	119·7	92	53·5	76·9	58·0
33	„ 10—14	·27	·83	10·5	23·2	37·3	82	59·2	107·4	56·4
34	„ 15—19	·48	·74	8·6	39·6	54·6	79	62·9	116·9	60·6
35	„ 20—24	·64	·01	0·5	39·0	90·5	74	63·9	118·5	62·5
36	„ 25—29	·52	·38	5·5	30·9	62·5	74	65·2	124·4	65·5

Comparison of Evaporation with other Meteorological Conditions.—(continued.)

Pentad.	Date.	Evapor- ation.	RAINFALL.		Sunshine	Wind move- ment.	Mean Humid- ity.	Mean Temp.	Black bulb Temp.	Soil Temp. at 1-ft. below surface.
			Amount	Duratn.						
		in.	in.	hrs.	hrs.	miles.	%.	°	°	°
37	June 30—July 4	·40	·57	5·9	25·1	37·7	81	65·7	116·8	64·9
38	July 5— 9.....	·63	·33	1·5	44·5	48·0	71	66·7	118·4	66·0
39	„ 10—14.....	·63	·00	0·0	39·5	60·1	72	69·9	126·2	67·6
40	„ 15—19.....	·63	·09	4·6	34·1	59·9	72	65·7	123·1	68·1
41	„ 20—24.....	·52	·29	3·4	32·2	47·0	74	68·1	121·9	67·9
42	„ 25—29.....	·51	·25	0·7	22·4	65·6	80	68·4	121·9	68·1
43	„ 30—Aug. 3	·55	·51	11·0	29·5	58·9	70	63·8	117·4	66·9
44	Aug. 4— 8	·38	·09	1·5	24·9	78·3	78	63·4	116·8	64·0
45	„ 9—13	·37	·22	1·7	25·6	52·5	77	61·6	118·4	62·8
46	„ 14—18	·40	·05	0·4	26·4	61·6	73	63·8	114·5	63·4
47	„ 19—23	·44	·28	7·0	33·1	111·1	73	61·8	118·3	62·9
48	„ 24—28	·23	1·03	18·1	19·9	51·8	80	61·0	115·0	61·4
49	„ 29—Sep. 2	·23	·09	1·2	8·0	81·5	84	58·5	98·4	59·7
50	Sep. 3— 7	·22	·29	5·0	14·1	87·0	84	63·8	108·0	61·3
51	„ 8—12	·26	·43	7·4	20·5	97·0	81	58·4	101·0	59·2
52	„ 13—17	·24	·13	1·4	32·9	18·6	82	54·7	109·2	57·0
53	„ 18—22	·25	·00	0·0	22·4	40·3	81	55·7	105·2	56·2
54	„ 23—27	·09	1·03	14·7	1·7	40·0	85	53·6	78·5	55·5
55	„ 28—Oct. 2	·20	·19	2·6	12·1	60·1	86	52·3	92·9	54·5
56	Oct. 3— 7	·22	·26	2·1	19·8	139·4	79	49·2	92·4	52·4
57	„ 8—12	·08	·06	0·8	2·1	33·5	87	51·5	73·0	51·6
58	„ 13—17	·22	·13	3·3	21·4	102·9	78	44·2	78·1	50·0
59	„ 18—22	·12	·09	0·6	26·7	45·1	86	40·2	84·8	45·1
60	„ 23—27	·05	·05	0·7	14·6	24·7	93	41·3	73·5	43·5
61	„ 28—Nov. 1	·01	1·19	14·8	7·9	75·6	92	46·9	70·4	44·9
62	Nov. 2— 6	·03	·95	18·0	5·5	11·8	95	46·2	65·7	46·0
63	„ 7—11	·02	·70	13·7	1·3	29·2	94	42·7	61·4	43·8
64	„ 12—16	·03	·37	12·6	8·3	42·7	89	41·4	60·3	44·4
65	„ 17—21	·05	·00	0·0	6·5	25·1	92	34·1	51·9	39·4
66	„ 22—26	^c ·05	·40	8·9	6·5	140·9	92	42·4	58·9	38·8
67	„ 27—Dec. 1	·01	·28	9·5	5·4	55·3	91	42·8	57·9	41·7
68	Dec. 2— 6	·01	·18	7·6	4·0	35·6	94	41·8	50·1	41·8
69	„ 7—11	·01	·28	8·3	1·5	23·6	97	41·4	52·3	42·8
70	„ 12—16	·02	·00	0·0	1·3	6·4	92	40·1	49·9	40·2
71	„ 17—21	·04	·00	0·0	3·4	64·1	89	43·3	53·0	40·9
72	„ 22—26	·06	·00	0·0	0·0	13·3	89	41·3	46·2	41·8
73	„ 27—31	·02	·28	12·5	2·2	67·6	92	37·9	47·4	40·4
Totals	Year	16·14	22·97	456·4	1271·0	6112·3	...	...	...	...
Means	Pentad ...	·22	·31	6·3	17·4	83·7	83	50·4	86·9	50·1

c indicates condensation, i.e., negative evaporation.

RECORDS OF EVAPORATION.

THE foregoing article deals so fully with the relation of the various elements of climate with evaporation during the year 1905 at Camden Square that we need say little here concerning that record. The total amount of evaporation was rather more than half-an-inch greater than the average for 20 years, though it fell short of the average of the last 8 years. As regards monthly amounts, the great excess in May and July and the deficiency in June were the most striking features, and this characteristic was common to the four records obtained south of latitude 52° N. In the north, June showed the greatest monthly evaporation at Bolton, Ardsley and Falkirk, while in the mean of the eleven stations from which we receive records the amount of evaporation increased steadily to July and fell steadily to the end of the year.

The yearly totals were as usual greatest for Downholland and Southwold, the former being the only station to show a large excess over the eight years' average. The smallest total was recorded for Stanley Grange, Wakefield.

Our chief difficulty in dealing with this section is the need of adequate bases of comparison, indeed the only evaporation records of any length, known to us, are the following:—Camden Square, 1885 to 1905, 21 years; Croydon, 1888 to 1905, 18 years; Strathfield Turgis, 1870 to 1883, 14 years; and Lowestoft, 1878 to 1897, 20 years. Two only of these records are from a standard tank, and, moreover, all the stations are in the south and east of England, leaving the other portions of the kingdom entirely unrepresented. However, our position in this respect is improving with each succeeding year, and, as will be seen by the Table, we are able to quote an eight years' average for seven out of the eleven stations.

Through the courtesy of Mr. Baldwin Latham we are able to include for the fourth time the results of the percolation gauges at Croydon, Twyford and Timsbury. At the first-named station the amount of water percolating through both chalk and gravel is gauged and by

deducting the percolation from the total rainfall the result shows the evaporation from the soil (especially in the case of gravel) to be very accordant with that from a water surface. No moisture percolated through the chalk to a depth of three feet, after June until November, but gravel appears to have been slightly more permeable to the summer rains. The records at Timsbury and Twyford also show that practically none of the summer rainfall percolated through the chalk to a depth of three feet, even the heavy fall of June producing no effect at these stations.

It is a matter of regret that more records of evaporation are not available, but we have heard of one or two new tanks having been ordered and hope next year to have a larger number and a better distribution to deal with.

Evaporation at Camden Square, 1885-1905.

	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.	c·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	c·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.	c·03	·01	·92	2·33	3·06	3·62	3·12	2·85	1·48	·70	·11	·01	18·18
1894.	c·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	c·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
1901.	·13	·24	·60	1·98	3·25	3·85	3·37	3·19	1·42	·64	·31	c·05	18·93
1902.	·16	·15	·71	1·75	1·78	2·33	3·30	1·71	1·47	·69	·28	·27	14·60
1903.	·26	·39	·97	1·57	2·24	2·79	3·35	2·53	1·51	·86	·29	·12	16·88
1904.	c·09	·26	·54	1·68	1·81	3·32	4·06	2·86	1·20	·50	·26	·02	16·42
Average	·09	·25	·66	1·52	2·33	2·93	3·13	2·35	1·31	·61	·24	·07	15·49
1905.	·17	·35	·65	1·14	3·19	2·49	3·65	2·23	1·24	·78	·09	·16	16·14
Diff.	+·08	+·10	-·01	-·38	+·86	-·44	+·52	-·12	-·07	+·17	-·15	+·09	+·65

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

1905	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.	Evaporation from 5 in. Evaporator fully exposed in Air.	Condensation in 5 in. Evaporator fully exposed in Air.	Average daily Temperature of Water at 9 a.m. in 5 in. Evaporator fully exposed in Air.	Temperature of the Dew Point at 9 a.m.
	in.	in.	°	in.	in.	°	°
Jan. ...	·350	—	34·91	·775	—	36·24	33·46
Feb. ...	·390	·02	38·73	1·220	·01	39·70	36·82
March	·745	·03	42·82	2·045	—	45·87	40·63
April .	1·345	—	46·98	2·565	—	48·99	40·62
May...	2·690	—	55·20	5·190	—	58·79	43·45
June...	2·375	·01	62·05	4·225	·01	64·70	53·98
July...	2·980	—	68·44	4·950	—	71·32	58·25
Aug. ..	2·325	—	63·51	3·545	—	66·13	54·50
Sept...	1·155	—	56·83	1·825	—	57·13	51·96
Oct. ...	·625	·02	45·00	1·040	—	42·65	40·18
Nov. ...	·280	·11	40·44	·760	—	39·75	38·50
Dec. ...	·125	·015	38·84	·450	—	39·55	37·46
Total .	15·385	·205	593·75	28·590	·020	610·82	529·81
Mean .	...	...	49·48	...	...	50·90	44·15

Table of Rainfall and Percolation at Duppas House, Croydon, also at the South Hants Water Company's Pumping Stations, at Timsbury and Twyford, Hants. Mr. Baldwin Latham, M.Inst.C.E.

NOTE.—The percolation gauges are covered with the natural growth of grass. Size of percolation gauges 3 ft. square and 3 ft. deep.

1905	DUPPAS HOUSE, CROYDON.			TIMSBURY.		TWYFORD.	
	Rainfall. Level of Gauge 158·00 ft. above O.D.	Percolation Gauge. Chalk. Level of Gauge 157·00 ft. above O.D.	Percolation Gauge. Gravel. Level of Gauge 157·00 ft. above O.D.	Rainfall. Level of Gauge 96·39 ft. above O.D.	Percolation Gauge. Chalk. Level of Gauge 89·75 ft. above O.D.	Rainfall. Level of Gauge 138·72 ft. above O.D.	Percolation Gauge. Chalk. Level of Gauge 137·49 ft. above O.D.
	in.	in.	in.	in.	in.	in.	in.
Jan.	1·110	·6780	·5291	·83	·5916	·86	·5944
Feb. ...	·990	·5715	·6688	·54	·1024	·74	·1754
March ...	3·085	2·9434	2·6928	4·88	4·0265	5·59	5·3600
April ...	1·715	·5781	·6218	1·67	·6492	1·60	·5481
May.....	1·060	·0159	·0309	·51	·0080	·51	·0128
June ...	5·475	1·8586	·8386	4·62	·0112	5·39	·0035
July.. ...	·680	—	·0495	·27	·0096	·59	—
Aug. ...	2·485	—	·1535	3·43	·0172	3·31	—
Sept.	2·105	—	·0179	1·69	·0172	1·80	—
Oct.	1·115	—	—	2·02	·0176	1·76	·0350
Nov. ...	3·850	3·1745	2·8255	3·60	1·0707	4·13	2·5973
Dec.	·500	·7849	·6541	·86	·9156	·78	1·1235
Total ...	24·170	10·6049	9·0825	24·92	7·4368	27·06	10·4500

EVAPORATION IN 1905.

EVAPORATION.

County Station	London, Camden Sq.	Surrey, Croydon, Duppas Ho.	Hampshire, Otterbourne	Suffolk, Southwold	Devon, Christow, Kennick	Lincoln, Revesby Water Works
Latitude	51° 32' 20" N.	51° 22' 5" N.	51° 0' 28" N.	52° 20' N.	50° 38' 30" N.	53° 9' N.
Longitude	0 8 0 W.	0 6 13 W.	1 19 55 W.	1 41 E.	3 41 20 W.	0 3 W.
Altitude	111 ft.	158 ft.	112 ft.	44 ft.	842 ft.	130 ft.
Observer	H. R. Mill	Baldwin Latham, C.E.	W. Mathers, C.E.	A. C. Herbert	S. C. Chapman, c.e.	J. Shaw
Size of tank	6 ft. × 6 ft.	1 ft. diameter	6 ft. × 6 ft.	4 ft. × 4 ft.	6 ft. × 6 ft.	6 ft. × 6 ft.
Capacity (galls.)	450	5	450	200	450	450
Height of lip above ground	3 inches	4 in. above water	3 inches	3 inches	3 inches	2 inches.
January	in. .17	in. .35	in. .07	in. .26	in. .17	in. .04
February .....	.35	.37	.48	.46	.57	.08
March .....	.65	.72	.75	1.17	1.01	.78
April	1.14	1.34	1.40	1.45	1.61	1.72
May	3.19	2.69	3.75	3.23	3.66	2.45
June	2.49	2.37	2.87	3.49	2.79	2.50
July	3.65	2.98	3.51	3.65	4.05	3.11
August	2.23	2.32	2.24	3.15	2.66	2.54
September	1.24	1.16	1.39	1.77	2.05	1.26
October .....	.78	.60	1.08	1.25	1.16	.77
November .....	.09	.17	0.01	.65	.20	.12
December .....	.16	.11	C 01	.34	.16	.03
Year, 1905	16.14	15.18	17.52	20.87	20.09	15.40
Average, 1898-1905	16.65	15.99	19.02	20.93	19.97	16.07
Difference	-.51	-.81	-1.50	-.06	+.12	-.67
Year, 1905	22.97	24.17	22.36	23.50	33.79	19.90
Average, 1898-1905	23.53	24.64	26.98	21.83	39.96	23.45
Difference	-.56	-.47	-4.62	+1.67	-6.17	-3.55

Note. — C indicates condensation.

EVAPORATION IN 1905—(continued).

County Station	Latitude	Longitude	Altitude	Observer	Size of tank	Capacity (galls.)	Height of lip above ground	Yorkshire, Wakefield, Stanley Grange.	Yorkshire, Ardsley Reservoir	Stirling, Falkirk, Cauldhame.	Mean of Eleven Stations.
Lancashire, Downholland	53° 34' 38" N.	3 1 12 W.	14 ft.	J. Baxendell.	6 ft. x 6 ft.	450	3 inches	Yorkshire, Wakefield, Stanley Grange. 53° 45' N. 1 28 W. 234 ft. II. Stanley Haworth	Yorkshire, Ardsley Reservoir 53° 43' 10" N. 1 33 20 W. 390 ft. C.C. Smith, C.E.	Stirling, Falkirk, Cauldhame. 56° 0' 37" N. 3 48 3 W. 73 ft. David Ronald, C.E.	Mean of Eleven Stations.
								in. .19 .25 .97 2.16 2.35 2.68 1.82 1.19 .80 .23 .15	in. .25 .52 .92 1.36 2.71 3.53 3.45 2.17 1.52 .96 .19 .19	in. .17 .39 .68 1.58 2.24 4.05 3.80 2.27 1.54 .70 .30 .25	in. .22 .42 .94 1.44 2.91 3.06 3.50 2.42 1.47 .92 .23 .19
Year, 1905	23.76				16.90			13.39	17.77	17.97	17.72
Average, 1898-1905	22.15				...			...	...	...	...
Difference	+1.61				...			...	...	...	...
Year, 1905	25.18				37.88			18.82	22.06	28.27	25.35
Average, 1898-1905	28.06				40.68			23.01	...	...	...
Difference	-2.88				-2.80			-4.19	...	...	...

THE DURATION OF RAINFALL IN 1905.

WE print eight records of the total duration of rainfall on this occasion, one more than last year. Considering how many self-recording rain gauges there are at work the number of reports received is disappointing. Rainfall duration has not yet been much investigated, and it would be of real importance to obtain additional records on which to base an opinion as to the geographical distribution of rain duration. There are, we acknowledge, considerable difficulties in the way of obtaining a satisfactory record of duration. Every recording rain gauge, no matter what its pattern may be, is a complicated piece of mechanism which demands care in handling and constant watchfulness and attention to maintain it in a state of efficiency. The reading of the time scale is often troublesome, and if the duration is not taken off daily, or weekly at least, the accumulated mass of records is apt to be left for discussion to that convenient season which is so far away. We shall be glad to spare observers all trouble of this sort, and if satisfactory charts from any self-recording gauge, not of the step-by-step pattern, are sent to us we will gladly have the duration calculated and return the charts to the sender should he so desire it. We shall not be content until we are able to publish 20 or 30 good records of duration of rainfall from all parts of the country. At present we receive only one from Scotland and not one at all from Wales or Ireland.

The results in 1905 were similar to those of 1904 at Camden Square, Croydon, Southport and Falkirk; in each case the duration in 1905 was from 10 to 15 per cent. less than in the previous year and in most the rainfall was a little greater, so that the intensity of rainfall showed a slight increase. But in the three records from Timsbury, Twyford and Melbury Moor the durations recorded for 1905 are only about half those given for 1904 and as there was no great difference in the total falls the intensity is correspondingly increased. We await another year's record from these gauges before forming an opinion as to the cause of this extraordinary change. The 1905 records as a whole are remarkable because they show so little variation in widely distant parts of the country, while the amount of rainfall varies considerably. The smallest mean hourly rate of rainfall was .047 in. at Croydon, and the highest, .061 in., at Twyford. The smallest mean duration of rainfall per rain day was 2.6 hours at Falkirk, the largest 3.6 hours at Melbury Moor.

We can only discuss the relation to a long average in the case of the record at Camden Square, and in order to compare the year as a whole with the preceding 24 we have prepared the following Table, which shows that in 1905 the total rainfall was 4 per cent. below the average, the duration was 11 per cent. above the average, and the intensity 14 per cent. below the average, having only been lower on one previous occasion, 1904.

The monthly records present some features of interest. The mean intensity for May, .118 in. per hour, is the highest yet recorded in that month, and was due to two showers of great intensity. October only once showed a higher and December only once showed a lower mean intensity than in 1905.

Comparison of Amount, Duration and Intensity of Rainfall, and number of Rain Days at Camden Square with the Average for 24 years, 1881-1904.

YEAR.	AMOUNT.		DURATION.		INTENSITY.		RAIN DAYS.	
	Total.	Per cent. of average	Total.	Per cent. of average	Total.	Per cent. of average	Total.	Per cent. of average
	in.		hours		in.			
1881	27·92	116	486·3	118	·057	97	152	95
1882	27·14	113	480·7	117	·056	96	165	104
1883	24·40	102	393·5	95	·062	106	164	103
1884	20·35	85	336·8	82	·060	103	150	94
1885	26·64	111	470·0	114	·057	96	165	104
1886	27·01	112	427·2	104	·063	108	176	110
1887	19·21	80	300·3	73	·064	109	140	88
1888	27·74	115	435·7	105	·064	108	173	108
1889	23·85	99	428·5	104	·056	95	169	106
1890	21·23	88	409·5	99	·052	88	161	101
1891	28·15	117	490·3	119	·057	97	178	112
1892	22·61	94	372·5	90	·061	103	158	99
1893	19·80	82	388·0	94	·051	87	148	93
1894	27·94	116	477·7	116	·058	99	M 185	116
1895	21·47	89	380·0	92	·057	96	m 137	86
1896	23·52	98	404·3	98	·058	99	157	98
1897	22·86	95	371·2	90	·062	105	164	103
1898	m 17·69	74	m 298·5	72	·059	101	140	88
1899	22·54	94	337·5	82	·067	115	144	90
1900	23·28	97	366·3	89	·064	108	173	108
1901	22·17	92	310·2	75	M ·071	121	128	80
1902	20·84	87	352·5	86	·059	101	162	102
1903	M 38·10	158	M 688·5	167	·055	94	179	112
1904	20·65	86	491·8	119	m ·042	72	160	100
Average.	24·05	100	412·4	100	·058	100	159·5	100
1905	22·97	96	456·4	111	·050	86	162	102
Difference from average	- 1·08	- 4	+ 44·0	+11	-·008	-14	+2·5	+2

Duration of Rainfall at Camden Square in 1905.

DR. H. R. MILL.

1905.	Rainfall.	Duration.	Rate per hour.	Number of rain days.	Rate per rain day.	Duration per rain day.
	in.	hours.	in.		in.	hours.
January	1·34	29·8	·045	8	·17	3·7
February	·79	22·4	·035	12	·07	1·9
March	3·00	67·0	·045	21	·14	3·2
April.....	1·75	53·7	·033	19	·09	2·8
May	1·18	10·0	·118	9	·13	1·1
June	4·39	77·9	·056	17	·26	4·6
July	·96	10·2	·094	8	·12	1·3
August.....	2·24	40·1	·056	16	·14	2·5
September	2·09	31·7	·066	12	·17	2·6
October	1·41	16·3	·087	14	·10	1·2
November	3·08	68·9	·045	19	·16	3·6
December	·74	28·4	·026	7	·10	4·1
Year	22·97	456·4	·050	162	·14	2·8

Duration of Rainfall at Duppas House, Croydon, in 1905.

MR. BALDWIN LATHAM, M.Inst.C.E.

1905.	Rainfall.	Duration.	Rate per hour.	Number of rain days.	Rate per rain day.	Duration per rain day.
	in.	hours.	in.		in.	hours.
January	1·11	27·9	·040	6	·19	4·7
February	·99	31·5	·031	16	·06	2·0
March	3·09	86·7	·036	21	·15	4·1
April	1·71	45·9	·037	17	·10	2·7
May	1·06	15·8	·067	8	·13	2·0
June	5·48	96·7	·057	17	·32	5·7
July	·68	7·6	·089	9	·08	0·8
August.. ..	2·48	39·3	·063	18	·14	2·2
September	2·11	32·2	·065	15	·14	2·1
October	1·11	17·7	·063	16	·07	1·1
November	3·85	97·1	·040	19	·20	5·1
December	·50	18·9	·026	15	·03	1·3
Year	24·17	517·3	·047	177	·14	2·9

Duration of Rainfall at Timsbury, Hants, in 1905.

MR. BALDWIN LATHAM, M.Inst.C.E.

1905.	Rainfall.	Duration.	Rate per hour.	Number of rain days.	Rate per rain day.	Duration per rain day.
	in.	hours.	in.		in.	hours.
January	·83	25·8	·032	8	·10	3·2
February	·54	15·4	·035	12	·05	1·3
March	4·88	116·6	·042	20	·24	5·8
April	1·67	54·5	·031	16	·10	3·4
May	·51	8·8	·058	7	·07	1·3
June	4·62	53·3	·087	14	·33	3·8
July	·27	6·0	·045	7	·04	0·9
August	3·43	41·3	·083	18	·19	2·3
September	1·69	25·7	·066	15	·11	1·7
October	1·76	18·8	·094	10	·18	1·9
November	3·60	63·1	·057	22	·16	2·9
December	·86	30·3	·028	16	·05	1·8
Year	24·66	459·6	·054	165	·15	2·8

Duration of Rainfall at Twyford, Hants, in 1905.

MR. BALDWIN LATHAM, M.Inst.C.E.

1905.	Rainfall.	Duration.	Rate per hour.	Number of rain days.	Rate per rain day.	Duration per rain day.
	in.	hours.	in.		in.	hours.
January	·86	22·3	·039	10	·09	2·2
February	·74	11·5	·064	6	·12	1·9
March	5·59	107·3	·052	19	·29	5·6
April	1·60	57·6	·028	15	·11	3·8
May	·51	10·1	·050	7	·07	1·4
June	5·39	50·5	·107	14	·38	3·6
July	·59	4·8	·123	6	·10	0·8
August	3·31	38·4	·086	17	·19	2·3
September	1·80	33·9	·053	14	·13	2·4
October	2·02	22·5	·090	9	·22	2·5
November	4·13	64·9	·064	15	·28	4·3
December	·78	21·1	·037	10	·08	2·1
Year	27·32	444·9	·061	142	·19	3·1

Duration of Rainfall at Melbury Reservoir, Parkham, Devon, in 1905.

MR. BALDWIN LATHAM, M.Inst.C.E.

1905.	Rainfall.	Duration.	Rate per hour.	Number of rain days.	Rate per rain day.	Duration per rain day.
	in.	hours.	in.		in.	hours.
January	2·55	78·8	·032	18	·14	4·4
February	2·68	88·3	·030	21	·13	4·2
March	6·38	127·7	·050	25	·26	5·1
April	3·27	122·6	·027	21	·16	5·8
May	·36	7·7	·047	4	·09	1·9
June	4·07	57·6	·071	21	·19	2·7
July	1·64	30·2	·054	21	·08	1·4
August	5·76	74·2	·078	25	·23	3·0
September	2·35	39·2	·060	17	·14	2·3
October	3·87	74·5	·052	20	·19	3·7
November	6·57	86·2	·076	24	·27	3·6
December	2·42	65·8	·037	19	·13	3·5
Year	41·92	852·8	·049	236	·18	3·6

Duration of Rainfall at Hodsock Priory, Notts, in 1905.

MR. H. MELLISH.

1905.	Rainfall.	Duration.	Rate per hour.	Number of rain days.	Rate per rain day.	Duration per rain day.
	in.	hours.	in.		in.	hours.
January	·53	12·5	·042	10	·05	1·2
February	·73	16·6	·044	9	·08	1·8
March	1·97	39·9	·049	19	·10	2·1
April	1·74	41·1	·042	21	·08	2·0
May	·42	9·9	·042	4	·11	2·5
June	2·41	28·6	·084	11	·22	2·6
July	1·31	17·6	·074	9	·15	2·0
August	2·43	38·5	·063	16	·15	2·4
September	1·21	20·6	·059	13	·09	1·6
October	1·17	23·6	·050	13	·09	1·8
November	2·56	61·7	·042	17	·15	3·6
December	·43	25·3	·017	10	·04	2·5
Year	16·91	335·9	·050	152	·11	2·2

Duration of Rainfall at Hesketh Park, Southport, Lancashire, in 1905.

MR. J. BAXENDELL.

1905.	Rainfall.	Duration.	Rate per hour.	Number of rain days.	Rate per rain day.	Duration per rain day.
	in.	hours.	in.		in.	hours.
January	1·62	52·0	·031	18	·09	2·9
February.....	1·24	31·5	·039	15	·08	2·1
March	3·01	60·7	·050	22	·14	2·8
April	2·47	54·4	·045	19	·13	2·9
May	·30	8·0	·038	7	·04	1·1
June.....	1·99	39·0	·051	10	·20	3·9
July	1·84	36·0	·051	14	·13	2·6
August	3·43	44·4	·077	18	·19	2·5
September	2·21	40·8	·054	14	·16	2·9
October	2·94	60·3	·049	17	·17	3·5
November	4·74	85·8	·055	19	·25	4·5
December	·61	29·3	·021	11	·06	2·7
Year.....	26·40	542·2	·049	184	·14	2·9

Duration of Rainfall at Cauldhame, Falkirk, Stirlingshire, in 1905.

MR. DAVID RONALD, C.E.

1905.	Rainfall.	Duration.	Rate per hour.	Number of rain days.	Rate per rain day.	Duration per rain day.
	in.	hours.	in.		in.	hours.
January	1·47	22·9	·064	16	·09	1·4
February.....	1·97	39·5	·050	16	·12	2·5
March	3·52	65·0	·054	24	·15	2·7
April	1·95	23·1	·084	18	·11	1·3
May	1·46	12·2	·120	10	·14	1·2
June.....	0·65	4·3	·150	6	·11	0·7
July	2·92	40·2	·072	17	·17	2·4
August	2·90	22·3	·130	17	·17	1·3
September	1·37	7·1	·193	16	·09	0·4
October	2·33	53·5	·043	15	·15	3·5
November	4·22	129·6	·032	20	·21	6·5
December	3·51	82·5	·042	18	·19	4·6
Year.....	28·27	502·2	·056	193	·15	2·6

REPRESENTATIVE RECORDS OF DAILY RAINFALL IN 1905.

LAST year we asked our readers whether the daily records at say fifty stations would be more interesting or useful to them than fifty pages of Notes by Observers. We do not know how many readers we have, but supposing that half the number of copies of *British Rainfall* issued are read—and we fear this is putting the number much too high—we might perhaps claim amongst the 4,000 British rainfall observers 650 readers. Of this hypothetical number, 10 wrote expressing a desire to have fifty records of daily rainfall, 10 wrote mentioning their preference for the Observers' Notes, and 630 took no notice of the question. Of the 20 interested readers we had to disappoint 10 whether we diminished the number of pages of Notes or failed to increase the number of daily records. Acting on the principle that changes are undesirable unless they are either necessary or are demanded, we have made no change. We retain the ten daily records, partly as patterns of how daily records ought to be kept, partly as examples of the great variety of the incidence of rainfall in time at different stations, and as illustrations of the discussions in Part II. of the number of rain days, intensity of daily falls, droughts and rain spells.

Special attention may be drawn to the contrast between the records at Hodsock Priory with 152 rain days and that at Ballymena with 253. It is interesting also to compare the record at Camden Square with a wettest day yielding .87 in. with that at Seathwaite where the wettest day yielded 3.45 in., and where on two occasions three consecutive days had each more than one inch of rain, while once more than two inches fell on each of two consecutive days.

Observers would do well to compare their own records with those printed here, especially with regard to the occurrence of days with very small falls, in the record of which omissions which mar the perfection of returns most frequently occur.

REGISTER OF RAINFALL IN 1905

Kept at **St. Pancras, Camden Square, in the County of London,**

Lat. 51° 32' 20" N. Long. 0° 8' 0" W.

BY DR. H. R. MILL.

RAIN GAUGE... { Diameter, 8 in.
Height of top above Ground, 1 ft.
" " " Sea Level, 111 ft.

Date.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Date.
1	in. ...	in. ...	in. .07	in. ...	in. .13	in. .03	in. ...	in. ...	in. .03	in. .01	in. .38	in. ...	1
2	.12	...	.02	...	.16	...	...	.11	...	...	.46	...	2
3	...	...	...	...	.03	...	...	.40	...	...	.25	...	3
4	.27	...	.01	.02	...	.09	...	...	...	.25	.19	...	4
5	.17	...	.16	.03	...	.87	.02	.04	.09	...	.05	.12	5
6	.01	.02	.01	.15	...	.51	...	.05	.08	.01	...	.06	6
7	...	.10	.04	.07	...	.25	...	...	.12	...	...	.17	7
8	.01	...	.13	.02	...	.01	...	...	.05	...	.01	.11	8
9	.14	...	.06	.49	...	.10	.31	.02	.38	...	.01	...	9
10	...	...	.34	.32	...	.73	...	.20	...	...	.38	...	10
11	...	...	.18	...	...	.06	...	...	...	.01	.30	...	11
12	...	...	.10	...	...	.04	...	...	...	.05	.19	...	12
13	...	.06	.31	.05	...	...	...	...	.13	...	.10	...	13
14	...	...	.29	.02	.01	...	...	...	...	...	.06	...	14
15	...	.03	.58	...	...	.14	...	...	...	.12	.02	...	15
16	.60	.10	.04	.10	.03	.54	.07	...	...	...	...	...	16
17	...	...	.45	...	...	.06	.02	.01	...	...	...	...	17
18	...	...	...	.01	.03	...	...	.04	...	...	...	...	18
19	...	.05	...	.03	.09	...	...	.07	...	...	...	...	19
20	...	.17	...	.02	...	.01	...	.03	...	...	...	...	20
21	...	...	...	.01	...	...	...	.03	...	.08	...	...	21
22	...	.01	...	...	...	...	.10	.15	...	.01	.05	...	22
23	...	.04	.06	.03	...	...	.19	...	...	.01	.11	...	23
24	...	...	...	...	...	...	...	...	.01	.01	...	...	24
25	...	.01	.05	.06	...	.01	...	.05	.70	...	.02	...	25
26	...	.19	.03	.02	...	...	...	...	.27	.02	.22	...	26
27	...	.01	.04	...	...	...	.25	.15	.05	...	...	.13	27
28	...	...	...	...	...	...	...	.83	.18	.20	.06	.09	28
29	.02	...	.03	.12	...	.37	...	.06	...	.16	...	.06	29
30	...	...	...	.18	.41	.57	...	...	...	.36	.22	...	30
31	...	...	...	...	.30	...	...	...	...	.10	...	...	31
Totals	1.34	.79	3.00	1.75	1.19	4.39	.96	2.24	2.09	1.40	3.08	.74	Totals
Totals from Jan. 1	1.34	2.13	5.13	6.88	8.07	12.46	13.42	15.66	17.75	19.15	22.23	22.97	Totals from Jan. 1
Rain Days	8	12	21	19	9	17	7	16	12	15	19	7	Total 162

Average of 48 years 25.13 in.

REGISTER OF RAINFALL IN 1905

Kept at Penzance, Morrabs, in the County of Cornwall,

Lat. 50° 7' 0" N. Long. 5° 32' 12" W.

BY CHARLES H. BENN, Esq.

RAIN GAUGE... { Diameter, 5 in.
Height of top above Ground, 1 ft.
" " " " Sea Level, 55 ft.

Date.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Date.
1	in. ...	in. .07	in. .10	in. ...	in. .86	in. .13	in. .73	in. ...	in. .04	in. .08	in. .26	in. .01	1
2	...	.02	...	.10	.17	.04	.01	.30	.02	.09	.07	.03	2
3	...	.04	...	.02	.01	.02	...	.18	.01	.03	.76	...	3
4	.29	.06	.46	.01	...	...	...	.32	.01	.07	.02	...	4
5	.15	...	.01	...	...	.10	.04	.04	.08	...	.40	.32	5
6	.01	.01	.03	.18	...	.02	...	.37	.36	.02	.15	.29	6
7	...	.01	.08	.01	...	...	...	.01	.09	.04	.09	.33	7
8	.25	...	.82	...	...	.08	...	.07	.12	...	...	.05	8
9	.05	...	.31	.17	...	...	.40	.07	.09	...	.20	.01	9
10	.01	.02	.98	.71	...	.03	.04	.06	.40	...	.20	...	10
11	.07	...	.32	.02	.01	...	...	...	...	...	.61	...	11
12	.01	.01	.18	.16	...	.51	...	...	...	.05	.81	...	12
13	...	.04	.68	.21	...	.13	...	...	.03	.01	.22	.01	13
14	.07	.01	.40	.02	...	...	...	...	...	.03	.08	...	14
15	.51	.02	.23	.20	...	.19	...	.02	.01	.17	...	...	15
16	.41	.12	.35	.07	.05	.24	...	...	...	...	.03	...	16
17	.24	.02	.06	...	...	...	.03	.05	...	...	...	...	17
18	.04	.03	...	.03	...	.07	...	.02	...	.03	.01	.04	18
19	...	.18	...	.01	...	.19	...	.15	.01	...	...	.06	19
20	...	.03	.04	...	...	.14	...	...	...	...	...	.03	20
21	...	...	...	...	...	.02	...	.36	...	...	...	.01	21
22	...	...	...	...	...	...	...	.42	...	...	.47	...	22
23	...	...	.21	.06	...	...	.01	...	...	...	.01	...	23
24	.03	.02	.29	.27	...	...	...	.84	...	.07	.02	...	24
25	.02	.49	.09	.03	...	...	...	.09	...	...	.25	...	25
26	...	.10	.23	.01	...	...	...	.53	.07	.29	.12	...	26
27	...	.09	.02	.01	.01	.05	.02	.73	.22	.01	.34	.27	27
28	...	.16	...	.01	.03	.29	...	.18	.01	.13	.10	.01	28
29	...	...	.04	.19	...	.32	.04	.05	...	.47	.22	.06	29
30	.04	...	.01	.09	...	.01	...	...	...	.28	.05	.41	30
31	.02	...	.01	...	.05	...	...	...	...	1.10	...	.04	31
Totals	2.22	1.55	5.95	2.59	1.19	2.58	1.32	4.86	1.57	2.97	5.49	1.98	Totals
Total from Jan. 1	2.22	3.77	9.72	12.31	13.50	16.08	17.40	22.26	23.83	26.80	32.29	34.27	Total from Jan. 1
Rain Days	17	21	24	23	8	19	9	21	16	18	24	17	Total 217

Average of 12 years 39.79 in.

REGISTER OF RAINFALL IN 1905

Kept at North Cadbury Rectory, in the County of Somerset, S.,

Lat. 51° 2' 31" N. Long. 2° 31' 15" W.

BY REV. H. A. BOYS.

RAIN GAUGE... { Diameter, 8 in.
Height of top above Ground, 1 ft. 3 in.
" " " Sea Level, 256 ft.

Date.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Date.
1	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	1
2	...	·05	·08	...	·14	·03	·02	·14	·03	·01	·25	·01	2
3	·04	·02	...	·12	·01	...	...	·83	·01	·06	·03	·01	3
4	·01	...	...	·01	·03	...	...	·37	...	·02	·04	...	4
5	·10	·01	·02	·01	...	...	...	·01	·01	·13	·28	...	5
6	·01	...	·15	...	...	·90	·04	·12	·24	...	·01	·13	6
7	...	·01	...	·04	...	·73	...	·14	·36	...	...	·04	7
8	·01	·01	...	·01	...	·13	...	·02	·04	·25	...	·22	8
9	·16	·01	·35	...	...	·03	...	·01	...	...	...	·02	9
10	·08	...	·10	·35	...	...	·25	·05	·42	...	·04	·04	10
11	·01	·04	·40	·27	...	·02	·09	...	·05	...	·70	·01	11
12	·02	...	·04	·03	...	·31	·01	·03	...	...	·19	...	12
13	...	...	·27	...	...	·15	·01	...	...	·01	1·06	...	13
14	·01	...	·34	·44	...	...	...	...	·19	...	·01	·01	14
15	...	...	·37	·07	·02	...	...	...	...	·03	·01	...	15
16	...	·14	·50	...	...	·01	·01	·02	...	·13	...	...	16
17	·31	·04	·12	·01	·10	·08	...	...	...	...	...	...	17
18	...	·01	·12	...	...	·03	·03	·02	...	·01	·06	·01	18
19	...	·01	·01	...	...	·07	...	·02	...	...	...	·06	19
20	...	·01	...	...	...	...	...	·24	...	...	...	·10	20
21	·04	...	·11	...	...	·02	...	·02	...	...	...	·01	21
22	...	...	...	...	...	...	...	·12	...	...	...	...	22
23	...	...	...	...	...	...	·17	·14	·02	·03	·18	...	23
24	...	...	·21	·02	...	...	...	...	...	...	·08	...	24
25	·02	...	...	·03	...	...	...	...	...	...	·02	...	25
26	...	·18	·10	·03	...	...	·07	·28	...	...	·14	...	26
27	...	·16	·13	·13	...	...	...	·15	...	·05	·46	...	27
28	·01	·15	...	...	...	...	...	·50	...	...	·20	·14	28
29	·01	·09	...	·01	...	...	...	·43	·07	·20	·06	·09	29
30	...	...	·02	·37	·02	·27	·02	·34	·01	·39	...	...	30
31	·03	...	...	·15	...	·91	...	...	...	·13	·26	...	31
31	·04	...	...	...	...	...	...	...	...	·56	...	...	31
Totals	·91	·94	3·44	2·10	·32	3·69	·72	4·00	1·45	2·01	4·08	·90	Totals
Totals from Jan. 1	·91	1·85	5·29	7·39	7·71	11·40	12·12	16·12	17·57	19·58	23·66	24·56	Totals from Jan. 1
Rain Days	17	16	19	18	6	15	11	22	12	15	20	15	Total 186

Average of 9 years..... 29·61 in.

REGISTER OF RAINFALL IN 1905

Kept at Worksop, Hodsock Priory, in the County of Nottinghamshire.

Lat. 53° 21' 35" N. Long. 1° 6' 15" W.

By HENRY MELLISH, Esq., J.P.

RAIN GAUGE... { Diameter, 8 in.
Height of top above Ground, 1 ft.
" " " Sea Level, 56 ft.

Date.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Date.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	...	...	·18	·01	·32	·09	·34	·09	·18	...	·50	·01	1
2	...	·01	·01	...	·06	...	...	·13	...	...	·03	...	2
3	...	...	·04	...	...	·04	...	·35	·01	·07	...	...	3
4	·10	...	...	·07	...	...	...	·02	·01	·34	·39	...	4
5	...	...	·07	·01	...	...	...	·06	·09	...	·02	·01	5
6	...	·05	...	·29	...	·01	...	·03	·17	...	...	·03	6
7	...	...	...	·02	...	·03	...	·06	...	·02	...	·02	7
8	·03	...	·20	...	...	...	...	...	·04	...	·02	...	8
9	·08	...	·02	...	...	...	·35	·07	·37	...	...	...	9
10	...	...	·17	...	...	·11	...	...	...	·02	·63	·01	10
11	·07	...	·04	·02	...	...	·02	...	...	...	·09	·01	11
12	·01	...	·08	...	...	·09	...	...	...	·03	...	...	12
13	·01	·18	·13	·07	...	...	...	...	·04	...	·17	...	13
14	...	...	·12	·18	·01	...	...	...	...	·09	·16	...	14
15	...	...	·22	·08	·03	...	...	...	...	·34	...	...	15
16	·17	...	·05	·07	...	...	...	...	...	...	...	·01	16
17	·03	...	·01	·02	...	1·13	·09	·32	...	·07	...	...	17
18	...	...	...	·07	...	...	...	·02	...	...	...	...	18
19	...	·02	...	·12	...	·06	...	·19	...	...	...	...	19
20	...	...	...	·03	...	·07	...	...	...	...	·01	...	20
21	...	·01	...	·04	...	...	...	·09	...	·02	...	...	21
22	...	...	...	...	...	...	·08	·01	...	...	·05	...	22
23	...	...	·01	·01	...	...	·03	...	·03	·05	·03	...	23
24	...	...	...	...	...	...	...	...	·05	...	...	...	24
25	...	·23	·05	...	...	...	...	·63	·02	...	·04	...	25
26	...	·11	·17	·18	...	...	·37	...	...	...	·09	...	26
27	...	·05	·01	·05	...	·02	...	...	...	...	·07	·02	27
28	...	·07	·39	·03	...	...	·01	·14	·18	·03	·07	·21	28
29	·02	...	...	·10	...	...	·02	·22	·02	·06	...	·10	29
30	...	...	...	·27	...	·76	...	...	...	·03	·19	...	30
31	·01	...	...	...	...	...	...	...	...	...	...	...	31
Totals	·53	·73	1·97	1·74	·42	2·41	1·31	2·43	1·21	1·17	2·56	·43	Totals
Total from Jan. 1	·53	1·26	3·23	4·97	5·39	7·80	9·11	11·54	12·75	13·92	16·48	16·91	Total from Jan. 1
Rain Days	10	9	19	21	4	11	9	16	13	13	17	10	Total 152

Average of 30 years..... 24·37 in.

REGISTER OF RAINFALL IN 1905

Kept at Borrowdale, Seathwaite, in the County of Cumberland,

Lat. 54° 29' 35" N. Long. 3° 10' 40" W.

FOR THE ROYAL METEOROLOGICAL SOCIETY.

RAIN GAUGE... { Diameter, 5 in.
Height of top above Ground, 1 ft.
" " " Sea Level, 423 ft.

Date.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Date.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	...	·42	·02	2·83	2·04	·82	...	·25	1·09	...	·96	...	1
2	·22	·31	...	...	·14	·01	·10	·16	·68	...	·15	...	2
3	·17	·64	·56	·93	·17	...	...	1·22	·22	2·45	...	1·01	3
4	·05	·03	·05	·90	...	...	·02	1·05	·34	·55	·05	·17	4
5	·60	·05	·30	·02	...	...	·41	·25	·72	...	·35	1·87	5
6	·90	·93	·29	·20	·25	...	...	...	·30	·15	·03	·68	6
7	·21	...	·40	·02	·01	...	...	·11	·31	·41	·50	...	7
8	1·12	·44	·80	·20	...	...	...	...	·80	...	...	·13	8
9	·11	·15	·21	...	...	...	...	·79	1·49	...	...	...	9
10	·35	...	·61	·22	·60	...	...	·15	·41	...	1·36	...	10
11	1·32	...	1·59	·21	...	...	·15	·10	·14	...	·81	·17	11
12	·20	·10	·43	·31	...	...	...	...	1·20	·11	...	...	12
13	...	·42	·95	·47	...	...	...	...	·07	...	...	...	13
14	...	·04	1·05	·88	...	...	·32	...	...	3·45	...	...	14
15	...	·10	·31	...	...	·05	·03	...	·25	·02	...	·05	15
16	·85	·40	·67	·05	...	...	·05	...	...	...	...	...	16
17	1·05	·38	·41	·02	...	·84	1·75	1·77	...	·64	...	...	17
18	·02	·61	...	·06	...	·22	...	1·30	...	·02	...	·70	18
19	·06	·22	...	·01	...	·25	...	·46	·01	...	...	·28	19
20	...	...	...	...	...	3·10	...	...	...	...	·03	2·20	20
21	...	...	...	...	...	...	·13	·75	...	...	·20	1·15	21
22	...	...	...	·01	...	...	·91	·40	...	...	3·20	·08	22
23	·61	...	·02	·13	...	...	·01	·02	...	...	·02	...	23
24	·20	·01	...	...	·04	...	·41	...	...	...	...	·70	24
25	...	1·41	·25	...	·40	...	·10	·35	...	...	1·05	1·70	25
26	...	1·40	·99	·34	·10	·65	·11	·37	·02	1·61	1·78	...	26
27	...	1·00	·19	1·44	1·90	...	...	...	·17	·37	1·15	...	27
28	...	·80	·70	1·19	2·21	...	·04	·03	...	1·01	·09	...	28
29	·30	...	·02	·08	·11	...	·45	·15	...	·91	1·03	...	29
30	·51	...	·28	2·19	...	...	·01	...	·03	·21	1·16	...	30
31	·30	...	...	...	·21	...	·02	·09	...	·10	...	...	31
Totals	9·15	9·86	11·10	12·71	8·18	5·94	5·02	9·77	8·25	12·01	13·92	11·01	Totals
Total from Jan. 1	9·15	19·01	30·11	42·82	51·00	56·94	61·96	71·73	79·98	91·99	105·91	116·92	Total from Jan. 1
Rain Days	20	21	23	23	13	8	18	20	18	15	18	15	Total 212

Average of 25 years..... 129·38 in.

REGISTER OF RAINFALL IN 1905

Kept at Rhayader, Nantgwilt, in the County of Radnor,

Lat. 52° 15' N. Long. 3° 17' W.

By G. N. YOURDI, Esq., C.E.

RAIN GAUGE... { Diameter, 5 in.
Height of top above Ground, 11 in.
" " " Sea Level, 754 ft.

Date.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Date.
1	.01	.07	.11	.15	.48	.06	.63	.03	.18	.03	.46	...	1
2	.02	.14	...	.12	.08	.08	.04	1.10	.05	.04	.03	.01	2
3	...	.20	.04	.04	...	.02	...	.38	.18	.38	...	...	3
4	.54	.11	.13	.35	...	...	...	.68	.02	1.23	.17	.02	4
5	.79	.03	.24	.01	...	...	.05	.08	.07	.02	.12	.38	5
6	.20	.21	.03	.64	...	.02	...	.36	.32	...	.10	.28	6
7	.05	.05	.15	.09	.02	.12	...	.03	.21	.20	.24	.56	7
8	.47	...	.73	.37	...	...	...	...	.29	.01	...	.18	8
9	.21	.03	.11	.16	...	...	.06	.17	.67	...	...	.05	9
10	.04	.06	1.26	.06	.02	...	.05	.08	.05	...	.97	.01	10
11	.46	.01	.58	.01	.01	...	.05	.06	.04	...	.30	...	11
12	...	.13	.57	.05	...	.05	.04	...	.02	.09	.45	...	12
13	...	.01	.61	.38	...	.14	...	...	.15	.01	.03	...	13
14	...	...	.80	.24	...	.03	.01	...	...	.10	.16	...	14
15	...	.17	.63	...	...	.01	.04	...	.04	.14	...	...	15
16	.16	.12	.52	.38	...	.18	...	...	...	...	...	...	16
17	.25	.03	.37	...	...	.03	.18	.22	...	...	...	...	17
18	...	.17	...	.01	...	.41	...	.11	...	.01	...	.24	18
19	...	.13	...	.01	...	.22	...	.16	.02	...	...	.12	19
20	.01	.02	...	...	...	.43	...	.02	...	...	...	.07	20
21	...	...	...	...	...	.03	...	.20	...	...	...	.03	21
22	...	...	...	.10	...	...	.12	1.12	...	...	.74	...	22
23	...	...	.49	.19	...	...	.03	.18	...	...	.05	...	23
24	.10	...	...	.04	...	...	.04	.03	...	...	.03	...	24
25	...	.73	.16	.16	.01	...	.03	.52	...	...	.37	...	25
26	...	.61	.54	.06	...	.12	.55	.45	...	.24	.79	...	26
27	.01	.77	.04	.10	.01	...	...	.96	...	...	.58	.12	27
28	...	.26	1.13	.52	...	...	...	.91	.09	.33	.15	.04	28
29	...	...	.05	.53	...	.23	.07	.10	...	.90	.01	.17	29
30	.17	...	...	2.21	...	.45	...	.01	.01	.96	.11	...	30
31	.10	...	.02	...	.07	...	...	...	...	.22	...	...	31
Totals	3.59	4.06	9.31	6.98	.70	2.63	1.99	7.96	2.41	4.91	5.86	2.28	Totals
Total from Jan 1	3.59	7.65	16.96	23.94	24.64	27.27	29.26	37.22	39.63	44.54	50.40	52.68	Total from Jan. 1
Rain Days	17	22	23	26	8	18	16	24	17	17	20	15	Total 223

Average of 35 years..... 61.11 in.

REGISTER OF RAINFALL IN 1905

Kept at Aberdeen, Cranford, in the County of Aberdeen,

Lat. 57° 8' 45" N. Long. 2° 8' 0" W.

By DAVID MCHARDY, Esq.

RAIN GAUGE... { Diameter, 5 in.
 Height of top above Ground, 1 ft.
 " " " Sea Level, 120 ft.

Date.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Date.
1	in. .02	in. .06	in. .10	in. .22	in. .03	in. .08	in. .05	in. .04	in. .19	in. .26	in. .72	in. ...	1
2	...	.15	...	...	...	.01	.40	...	.20	.06	.50	...	2
3	.16	.05	.03	...	...	...	...	1.00	.07	.21	.72	...	3
4	...	...	.05	.11	...	.16	...	.06	.05	.27	.02	.01	4
5	.05	...	.10	.13	...	...	.08	.05	.07	.14	.54	.02	5
6	.11	.16	.03	.07	.01	...	...	...	...	...	...	.05	6
7	...	.04	.31	.05	...	...	...	.05	.06	.02	.10	...	7
8	.01	.01	.03	.06	...	...	...	.07	...	.01	.02	...	8
9	.04	...	.35	...	...	...	...	.16	.12	...	.23	...	9
10	...	.04	.10	.35	.02	...	...	.13	.03	...	.23	...	10
11	...	.03	.74	...	...	...	.08	.07	.07	...	.75	.04	11
12	...	.22	.03	.19	.04	...	.36	.08	...	.06	.66	...	12
13	...	...	.16	.45	...	...	...	.31	...	.07	.62	.02	13
14	...	.02	.20	.50	...	...	...	.02	...	.18	.12	...	14
15	...	...	...	.17	...	...	...	...	.02	.31	.10	.10	15
16	.20	...	.05	...	...	...	.25	...	...	.02	.12	.21	16
17	.02	...	...	.02	...	...	...	.35	...	.10	.04	.02	17
18	...	.01	.09	.04	...	.12	...	.03	...	.04	...	.15	18
19	...	.10	...	.02	.01	...	...	.08	...	...	.03	.11	19
20	...	.04	...	.05	...	.17	.03	...	.02	.18	...	...	20
21	...	...	...	.02	.02	...	.18	.01	...	.02	...	...	21
22	...	...	...	.07	...	...	.06	...	...	.04	.06	...	22
23	.03	...	.12	.08	.07	...	...	...	.08	.26	...	...	23
24	.02	.06	.14	.04	.10	...	.10	.01	.18	.22	...	.04	24
25	...	.24	.89	...	.23	...	...	.10	.30	.04	.02	.04	25
26	.02	.15	.01	...	.24	...	.04	.58	.70	.02	.88	.03	26
27	...	.40	...	.10	.02	.19	.03	.08	.02	...	.03	...	27
28	...	.26	...	.07	.14	.03	.02	.31	...	.35	...	.03	28
29	...	...	...	...	.11	...	.09	.05	.10	.04	.20	.05	29
30	.04	...	...	.62	.18	...	...	...	.08	.51	.12	.02	30
31	.01	...	.03	...	...	...	.10	...	...	.32	...	...	31
Totals	.73	2.04	3.56	3.43	1.22	.76	1.87	3.64	2.42	3.75	6.83	.94	Totals
Total from Jan. 1	.73	2.77	6.33	9.76	10.98	11.74	13.61	17.25	19.67	23.42	30.25	31.19	Total from Jan. 1
Rain Days	13	18	20	22	14	7	15	22	19	25	23	16	Total 214

Average of 19 years..... 31.51 in.

REGISTER OF RAINFALL IN 1905

Kept at Loch Shiel, Glenfinnan, in the County of Inverness, W.,

Lat. 56° 52' 10" N. Long. 5° 26' 25" W.

By COL. J. A. MACDONALD.

RAIN GAUGE... { Diameter, 5 in.
Height of top above Ground, 1 ft. 2 in.
" " " Sea Level, 50 ft.

Date.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Date.
1	.83	.40	..	1.26	.02	...	.01	.12	1.00	.04	.14	.56	1
2	.42	.33	...	...	.11	...	.01	...	1.46	...	...	.24	2
3	.66	.96	.70	.73	...	.43	.36	.29	.26	2.12	...	.79	3
4	.69	.02	.02	.50	...	...	.68	.44	.64	.68	...	.38	4
5	1.96	.69	.06	.09	.19	...	.12	.60	.42	.52	.35	1.84	5
6	.26	.25	.41	...	.18	...	...	.49	.73	.04	.49	.88	6
7	.51	.19	.82	.04	.20	...	...	.29	1.63	.38	.24	.42	7
8	.82	.11	.72	.06	.02	...	.72	.30	.79	.12	...	.66	8
9	.31	.34	.90	.01	.19	...	...	.35	1.29	.06	...	.16	9
10	.60	.21	.08	...	1.48	...	...	.42	1.00	.46	.40	...	10
11	.63	...	.64	...	.14	...	.02	.10	.43	.02	.24	.72	11
12	.02	1.66	.31	.67	.02	...	...	...	.73	.10	...	.62	12
13	...	.46	.28	.08	...	...	.04	...	.12	.56	...	.04	13
14	...	.40	.44	.15	...	...	...	1.14	.26	1.26	...	.14	14
15	...	...	.50	...	...	...	.06	2.22	.04	.66	...	.46	15
16	...	.98	.26	...	...	...	.26	.06	.02	.12	...	.08	16
17	.52	.81	.44	...	.04	...	...	.66	...	.02	...	.11	17
18	.16	.41	.50	...	.06	.56	.02	.86	.03	...	...	.70	18
19	...	.27	...	...	...	.52	.12	.21	...	...	...	.12	19
20	...	...	.21	...	.12	.43	.35	...	...	...	.50	.06	20
21	...	...	.06	...	.52	.24	.46	.44	...	...	.17	.22	21
22	...	...	.02	.48	...	...	...	.45	...	...	1.64	.66	22
23	1.13	...	...	.06	.64	...	...	.44	...	...	.65	.44	23
24	.25	.03	.40	...	.02	...	.66	...	...	...	.68	.04	24
25	..	.84	.26	...	.48	.03	.72	...	.03	1.39	.49	...	25
26	.29	.82	.16	.18	.04	...	.02	...	...	1.41	.93	...	26
27	...	.72	.12	.50	...	...	...	...	...	.18	.06	...	27
28	.02	.13	.70	...	.61	...	.44	...	...	.81	...	...	28
29	.19	...	.16	...	.06	...	.64	.04	...	.02	.90	...	29
30	1.19	...	1.00	.06	...	...	1.04	.02	.12	.14	.44	...	30
31	.99	...	.34	...	...	...	.18	.17	...	.10	...	...	31
Totals	12.45	11.03	10.51	4.87	5.14	2.21	6.93	10.11	11.00	11.21	8.32	10.34	Totals
Total from Jan. 1	12.45	23.48	33.99	38.86	44.00	46.21	53.14	63.25	74.25	85.46	93.78	104.12	Total from Jan. 1
Rain Days	21	22	27	15	20	6	21	22	19	23	16	23	Total 235

Average of 38 years..... 106.62 in.

REGISTER OF RAINFALL IN 1905

Kept at Miltown Malbay, in the County of Clare,

Lat. 52° 51' N. Long. 9° 24' W.

By MICHAEL MOLOHAN, Esq.

RAIN GAUGE ... { Diameter, 5 in.
 Height of top above Ground, 1 ft.
 " " " " Sea Level, 400 ft.

Date.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Date.
1	in. ...	in. .02	in. .12	in. .30	in. .10	in. .28	in. ...	in. .02	in. .30	in. .02	in. .04	in. ...	1
2	.07	.02	...	.11	.02	.03	.01	.22	.21	.08	.11	...	2
3	...	.04	.10	.04	...	.08	...	.18	.29	.24	...	...	3
4	.09	.06	.48	.03	...	...	...	.06	.11	.03	...	.45	4
5	.18	.02	.13	...	.04	...	.15	.03	.11	...	.10	.03	5
6	.02	.16	.06	.21	.33	.02	...	...	.24	...	.37	.22	6
7	.03	.02	.34	...	...	.01	...	...	.80	.03	.07	.07	7
8	.40	...	.12	.41	...	...	...	.54	.72	...	...	...	8
9	.02	.08	.28	.03	...	...	...	.31	...	...	.03	...	9
10	.18	.01	.26	.16	.18	...	.12	.01	...	...	.22	.01	10
11	.10	.01	.68	...	...	...	.15	.02	.12	.01	.06	.02	11
12	.02	.02	...	.10	...	...	.03	...	.06	.10	.51	.01	12
13	.05	.01	.12	.11	...	.25	.08	.03	...	...	.08	...	13
14	.75	.03	.67	.09	...	.01	.04	...	...	.08	.04	...	14
15	.33	.07	.07	.02	...	...	.18	.01	...	.02	...	...	15
16	.30	...	.25	.01	...	.02	.25	.12	...	...	...	...	16
17	.07	.02	.08	...	...	...	.01	.13	...	...	...	.01	17
18	.02	.15	...	.01	...	.28	.01	.09	.26	...	...	.51	18
19	.01	...	.53	...	...	.52	.04	.12	.02	..	.03	.11	19
20	...	...	.07	.01	..	.38	.14	.09	...	...	...	.29	20
21	...	...	.12	...	...	...	.24	.06	.08	...	.02	...	21
22	...	...	.27	.01	...	...	.04	.07	...	...	.37	...	22
23	.42	...	...	.03	.04	...	.07	.01	...	...	.06	.34	23
24	...	.27	.22	.04	.01	...	.31	.52	...	...	.07	.42	24
25	...	.38	.21	.42	.08	...	.01	.65	...	...	.45	.04	25
26	...	.09	.13	.29	.09	.01	...	.02	.04	.23	.06	...	26
27	...	.14	.19	.19	.05	.01	.05	.52	.02	.01	.41	...	27
28	...	.09	.08	.10	.19	.01	.09	.11	...	.34	...	...	28
29	.02	...	.05	.27	...	.04	.03	.05	.01	.32	.39	.03	29
30	.06	...	.01	.05	.02	...	.01	.02	...	.13	.04	.02	30
31	.17	...	.03	...	.14	...	.58	.18	...	.21	...	.01	31
Totals	3.31	1.71	5.67	3.04	1.29	1.95	2.64	4.19	3.39	1.85	3.53	2.59	Totals
Total from Jan. 1	3.31	5.02	10.69	13.73	15.02	16.97	19.61	23.80	27.19	29.04	32.57	35.16	Total from Jan. 1
Rain Days	21	21	27	24	13	15	23	27	16	15	21	17	Total 240

Average of 31 years..... 45.09 in.

REGISTER OF RAINFALL IN 1905

Kept at Ballymena, Harryville, in the County of Antrim,

Lat. 54° 52' N. Long. 6° 18' W.

By JOHN R. WILLIAMS, Esq.

RAIN GAUGE... { Diameter, 5 in.
Height of top above Ground, 1 ft. 5 in.
" " " Sea Level, 150 ft.

Date.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Date.
1	.03	.20	.02	.36	...	.31	.02	.03	.30	.03	.24	.03	1
2	.02	.19	...	...	.05	.08	.02	.04	.03	.05	.09	...	2
3	.05	.05	.04	.12	.02	.03	...	.52	.02	.22	.20	...	3
4	.34	.02	.26	.13	...	.11	.06	.63	.05	.38	.24	...	4
5	.31	...	.04	.06	.14	...	.05	.06	.04	.08	.30	.24	5
6	.05	.15	.08	.42	.21	...	...	.30	.29	.03	.12	.13	6
7	.01	.03	.14	.04	.02	...	...	.05	.08	.24	.12	.03	7
8	.09	.02	.22	.02	...	...	...	.03	.33	...	.02	.22	8
9	.24	.04	.35	...	...	...	...	.36	.10	...	.03	.03	9
10	.03	.11	.25	...	...	...	...	.12	.04	...	.74	...	10
11	.28	.08	.02	.15	.02	...	...	.02	.01	.02	.03	.14	11
12	.02	.18	.10	.08	...	...	.30	...	.23	.08	...	.03	12
13	.01	.02	.14	.04	...	.03	.01	...	.15	.08	.07	.04	13
14	...	.02	.51	...	...	...	...	...	.02	.40	.02	...	14
15	.09	.03	.19	...	...	...	.04	...	.04	.03	...	...	15
16	.48	.02	.25	...	...	.04	.01	...	...	.05	...	...	16
17	.16	.13	.03	...	...	.65	.11	.51	...	.04	.04	.05	17
18	.03	.28	...	.05	...	.17	...	.25	...	...	...	.19	18
19	...	.26	...	...	...	.45	...	.35	.12	...	.02	.06	19
20	...	...	.26	...	...	.18	.03	.16	...	.02	.02	.03	20
21	...	...	.02	...	...	...	.42	.18	...	...	.03	...	21
22	.03	...	.06	.08	...	...	.36	.16	...	...	.06	...	22
23	.48	...	.92	.18	.02	...	...	...	...	.01	.05	.07	23
24	.03	.08	...	.02	.06	...	.02	.29	...	...	.04	.58	24
25	.02	.45	.27	.04	.45	...	.07	1.00	...	.05	.93	.08	25
26	.02	.43	.08	.26	.22	...	...	.21	.03	.14	.34	.02	26
27	...	.28	...	.18	.27	.28	.07	.02	.12	.03	.26	.17	27
28	...	.15	.09	.10	.21	.32	.39	.43	...	.35	.02	.12	28
29	.04	...	.05	.08	.04	...	.08	.03	...	.20	.60	.10	29
30	.14	...	.08	.05	.08	...	.21	...	.09	.03	.05	...	30
31	.03	...	.09	...	.18	...	.12	.03	...	.02	...	.05	31
Totals	3.03	3.22	4.56	2.46	1.99	2.65	2.39	5.78	2.09	2.58	4.68	2.41	Totals
Total from Jan. 1	3.03	6.25	10.81	13.27	15.26	17.91	20.30	26.08	28.17	30.75	35.43	37.84	Total from Jan. 1
Rain Days	25	23	26	20	15	12	19	24	19	23	26	21	Total 253

Average of 29 years..... 40.57 in.

RAINFALL AT THE ROYAL OBSERVATORY, GREENWICH.

Lat., 51° 28' 38" N. Long., 0° 0' 0"

Communicated by SIR W. H. M. CHRISTIE, K.C.B., D.Sc., F.R.S., &c.,
Astronomer Royal.

1905	No. of Rain 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.				In Magnetic Pavilion enclosure.	In Observatory Grounds.	
Height above Ground. } Height above Mean Sea Level. }	... ...	50ft. 8in. 205ft.	50ft. 8in. 205ft.	38ft. 4in. 193ft.	21ft. 6in. 176ft.	10ft. 0in. 165ft.	5in. 155ft.	5in. 155ft.	5in. 155ft.
January	8	in. 0·577	in. 0·621	in. 0·857	in. 0·902	in. 1·076	in. 0·999	in. 1·099	in. 1·111
February	13	0·128	0·201	0·514	0·523	0·669	0·724	0·679	0·704
March	22	1·989	1·695*	2·666	2·854	3·558	3·556	3·579	3·579
April	17	0·863	0·928	1·305	1·452	1·680	1·700	1·681	1·772
May	8	0·749	0·889	1·049	1·252	1·354	1·325	1·368	1·408
June	18	2·195	2·580	3·477	4·093	4·222	4·323	4·150	4·228
July	8	0·546	0·591	0·865	0·927	0·959	0·921	0·969	1·035
August	13	1·838	1·737	2·288	2·541	2·624	2·536	2·629	2·667
September	13	1·271	1·374	1·917	2·163	2·258	2·311	2·260	2·324
October	15	0·485	0·384	0·675	0·751	0·863	0·906	0·878	0·923
November	18	1·870	1·951	2·321	2·680	2·996	3·125	2·910	3·026
December	8	0·262	0·297	0·487	0·483	0·607	0·598	0·614	0·624
Yearly Sums. ...	161	12·773	13·248	18·421	20·621	22·866	23·024	22·816	23·401
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 rain 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 check gauge added in 1881.

* Gauge partially choked for ten days (March 6th—16th).

W. H. M. CHRISTIE.

THE STAFF OF OBSERVERS.

ONCE again we have to record an increase of more than one hundred Observers in the year, and the number of stations from which returns are published at last exceeds 4000. It is twelve years since, in 1894, it first exceeded 3000, seventeen years before that time, in 1877, it first exceeded 2000, and twelve years earlier, in 1865, the number of stations first reached 1000.

The mere number of stations is not necessarily a matter for congratulation, for 3000 Observers scattered uniformly over the whole land would provide far better information than 4000, the majority of whom are concentrated in one part of the country, leaving the rest vacant. Still, mere number is a test of the amount of public interest taken in this matter. The occasion of completing the fourth thousand of active rain gauges is thus an interesting one, and justifies some reflections on the general question of the distribution of rain gauges in the British Isles, before devoting a few lines to the more conspicuous losses and gains of the year. The worst of any effort to study the distribution of rain gauges in any particular year is that the time devoted to it must be taken from some other part of the work, and the revision and reproduction of the map on which all the stations are shown is responsible for one week of the delay in publishing this volume. If some readers think that the result is not worth the delay occasioned, we can only assure them that though we yielded to temptation in this instance we resisted it in many others; indeed, if we had followed every attractive path of rainfall study that opened before us, *British Rainfall*, 1905, would not have appeared in 1906.

On a scale small enough to reproduce here the map of distribution of rain gauges could not bear a mark for every individual station, nor could it have many names. What we have done is to draw circles, with 5 miles radius from each gauge, and shade the area covered by these circles, thus showing at a glance those parts of the country which are fairly well represented for the purpose of studying rainfall. The heavy dotted line on the map encloses those tracts of country which lie more than 10 miles from the nearest rain gauge, and concerning their rainfall we can only form an opinion by inference. It is at once apparent that few parts of England

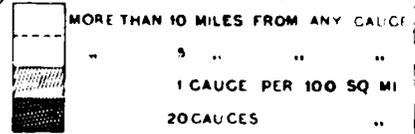
and Wales (though large districts in Scotland and Ireland) are five miles distant from a rain gauge, and by shading the interior of the circles, and strengthening the outer circumferences, we can see the blank spaces standing out in white. It is much to be wished that those spaces could be filled up, and we append a list of places at or near which new rainfall observers are specially wanted, printing in heavy type those at which they are wanted most. As a rule the name given is that of a town or village, which may not be the most important place in the neighbourhood, as we had only small-scale maps to guide us. A rain gauge established within 2 or 3 miles of any of the places named would meet the requirements of the case. New Observers are welcomed from any part of the country, even from those in which the darker shading shows that there is already at least one gauge for every 5 square miles, but they are only sought for diligently in the more thinly represented areas, and these in the order adopted in our pages are :—

ENGLAND.

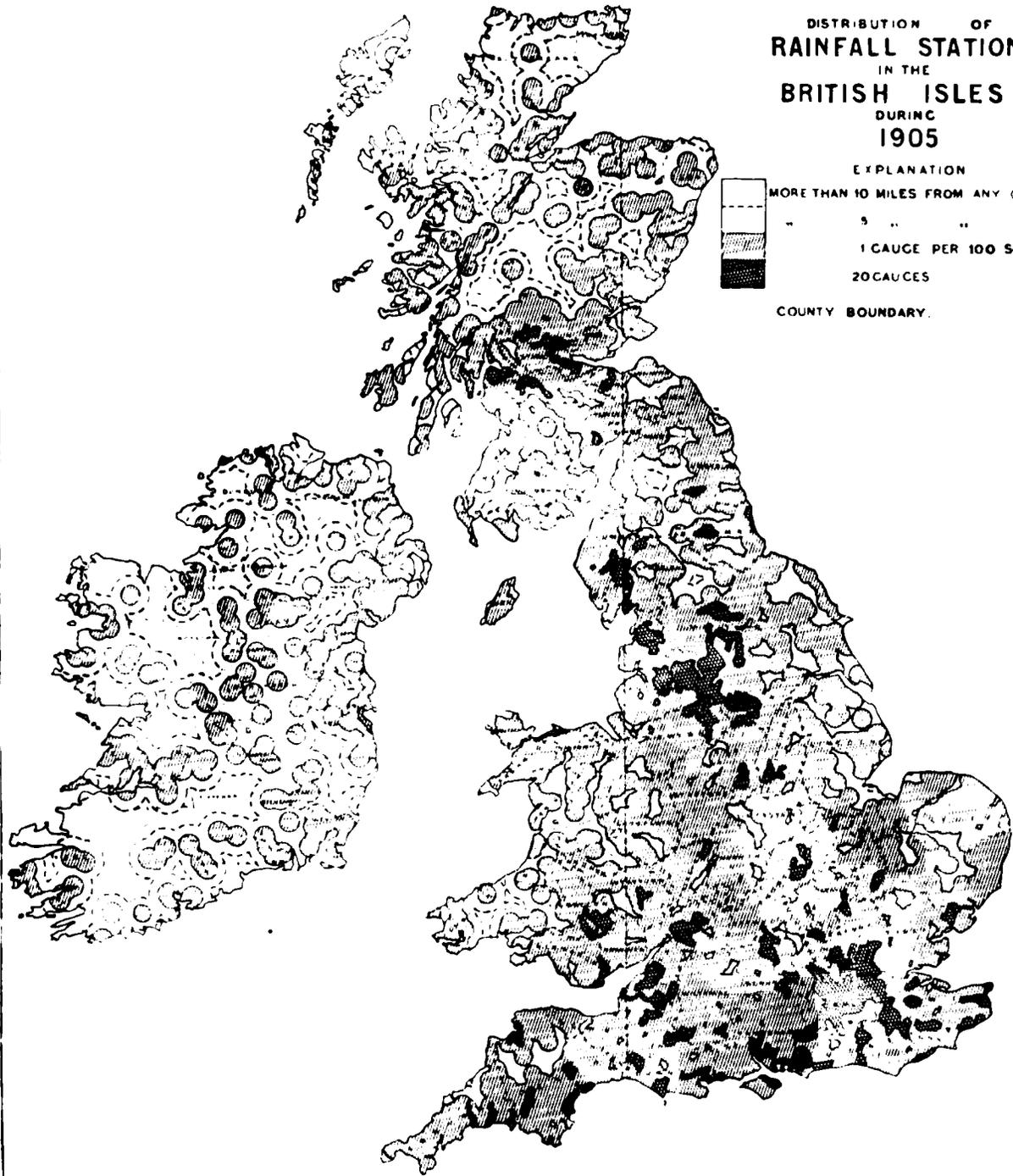
- I. *London*.—The conditions of the metropolis are exceptional, and though it is shaded in the map, Observers are particularly wanted north of the river, in the boroughs of **Shoreditch**, **Hackney**, **Bethnal Green**, **Hammersmith**, **Paddington**, where there are none, and also in Fulham, St. Pancras, Islington and Poplar, where there are hardly any. South of the river there are no rain-gauges known to us in the boroughs of **Southwark** or **Bermondsey**, and a very inadequate number in all the others.
- II. *Kent*.—Charing, Queenborough.
Sussex.—Pulborough.
Hampshire.—Beaulieu, Litchfield.
- III. *Buckinghamshire*.—Princes Risborough, Bletchley.
Oxfordshire.—Thame.
Northamptonshire.—Wansford.
Huntingdonshire.—Sawtre, Ramsey.
- IV. *Essex*.—Ongar, Mountfitchet, Salcott, Birdbrook.
Suffolk.—Stowmarket, Kenton, Eye, Mildenhall.
Norfolk.—Kenninghall, Hockham, Hilgay, Edgefield, Hunstanton.
- V. *Wiltshire*.—Wylve, Little Hinton.
Devon.—N. Tawton, Ashreigney, Halwill, Milton Damerel.
Cornwall.—Land's End, Padstow, Temple, Tintagel.
Somerset.—South of Watchet.

DISTRIBUTION OF
RAINFALL STATIONS
 IN THE
BRITISH ISLES
 DURING
1905

EXPLANATION



COUNTY BOUNDARY.



List of Desirable New Stations—(continued).

- VI. *Gloucestershire*.—Tetbury, **Stowell**.
Herefordshire.—**Vowchurch**, The Black Mountain.
Shropshire.—**Aston Botterell**, west of Wellington, Kinnerley.
Staffordshire.—Uttoxeter, Longnor.
Worcestershire.—Persnore.
Warwickshire.—**Napton**.
- VII. *Leicestershire*.—**Sharnford**, Barlestone.
Lincolnshire.—**Holbeach**, Corby, Quadring, Holland Fen, Wragby, **Saltfleet**, Waddingham.
Nottinghamshire.—East Markham.
- VIII. *Cheshire*.—Malpas.
Lancashire.—Skelmersdale.
- IX. *Yorkshire, W.R.*—**Snaith, Tadcaster**, Boroughbridge.
 ,, *E.R.*—North Cave, Market Weighton, Thornton, **Bridlington**, Helverthorpe.
 ,, *N.R.*—Kirkby Moorside, **Rosedale**, Danby, **Askrigg**, Hawes Junction, **Keld**.
- X. *Durham*.—**Bishop Auckland**, Shotley Bridge.
Northumberland.—**Allendale, Falstone** or other place in upper North Tyne valley, Blyth, Warkworth, Chathill.
Cumberland.—**Alston**, Caldbeck, Drumburgh.
Westmorland.—Tebay, Shap Fells.

WALES, &c.

- XI. *Glamorgan*.—Coity, Gower peninsula.
Carmarthen.—Kidwelly, **Whitland**, Llanwrda.
Pembroke.—Tenby, Maenclochog.
Cardigan.—**Llandyssyl**, New Quay, Devil's Bridge.
Radnor.—Knighton, Dolau.
Montgomery.—**Machynlleth**, Carno, Llanfair-Caereinion.
Merioneth.—**Dinas-Mawddwy, Arenig**.
Anglesey.—**Amlwch**.
Isle of Man.—Ramsey, Peel.

SCOTLAND.

- XII. *Wigtown*.—**Glenluce, Castle Stewart**, Glenwhilly.
Kirkcudbright.—Bridge of Dee, Kirkbean, Kirkgunzeon.
Dumfries.—**Annan, Ecclefechan**, Eskdalemuir, Closeburn, **Kirkconnell**, Durrisdeer.
Roxburgh.—**Riccarton**, Edgerston, Morebattle.

List of Desirable New Stations—(continued).

- XIII. *Selkirk*.—The upper valley of **Ettrick Water**.
Berwick.—**Westruther, Oxton, Cockburnspath**.
Haddington.—**Salton, Dunbar**.
Midlothian.—**Heriot**.
- XIV. *Lanark*.—**Abington, Douglas, Drumclog, Dolphinton, Auchengray**.
Ayr.—**Straiton, New Cumnock, Lugar, Troon, Newmilns**.
- XV. *Stirling*.—**Balmaha**.
Bute.—**Brodick, Loch Ranza, Blackwaterfoot, Millport**.
Argyll.—**Machrihanish, Carradale, Ardpatrik, Achahoish, Otter Ferry, Minard, Ford, Kilmelfort, Dalmally, Loch Etive, Bridge of Orchy**, any part of **Jura, Colonsay or Coll**.
- XVI. *Fife*.—**Kirkcaldy, Leven, Ladybank**.
Perth.—**Crieff, Tyndrum, Amulree, Loch Tay, Loch Rannoch, Dalnaspidal, Glen Tilt, Spittal of Glenshee**.
Forfar.—**Invermark**.
- XVII. *Kincardine*.—**Drumlithie, Muchalls**.
Aberdeen.—**Aboyne, Ballater, Kintore, Old Meldrum, Kennethmont, Fyvie, Turriff, Mintlaw, Fraserburgh**.
Banff.—**Tomintoul**.
Elgin.—**Dava, Dunphail, Longmorn, Lossiemouth**.
- XVIII. *Inverness*.—**Dalwhinnie, Loch Laggan, Tulloch, Tomatin, Glen Affric**, Invercannich, **Dunvegan** and the north-west of **Skye**.
Ross & Cromarty.—**Strome Ferry, Strathcarron, Poolewe, Aultbea, Ullapool, Loch Maree, Isle of Lewis**.
- XIX. *Sutherland*.—**Oykel Bridge, Scourie, Durness, Loch Assynt, Helmsdale, Kildonan, Kinbrace, Forsinard**.
Caitness.—**Berriedale, Dunbeath, Lybster, Altnabreck, Halkirk, Thurso, John o' Groats**.
Orkney and Shetland.—Stations are much wanted in all or any of the islands.

IRELAND.

- XX. *Cork*.—**Bantry, Macroom, Millstreet, Newmarket, Rathcormack**.
Kerry.—**Glenbeigh, Dingle, Tralee, Castleisland, Listowel**.
Waterford.—**Ardmore, Dungarvan, Cappoquin**.
Tipperary.—**Tipperary, Cashel, Thurles, Killenaule, Templemore**.
Limerick.—**Ballylanders, Abbeyfeale, Bruree, Cappamore**.
Clare.—**Kilrush, Ballyvaghan**.

List of Desirable New Stations—(continued).

- XXI. *Wexford*.—Rosslare, Macmine Junction, Camolin.
Kilkenny.—Callan, **Johnstown**, Castlecomer.
Wicklow.—**Shillelagh**, Aughrim, Rathdrum, **Dunlavin**, Blessington.
Queens County.—Stradbally.
Kings County.—Frankford, Philipstown.
Kildare.—**Newbridge**.
Meath.—**Ratoath**, Navan.
Westmeath.—Kinnegad, Delvin.
Louth.—Dunleer.
- XXII. *Galway*. — Woodford, **Gort**, **Kinvaira**, **Ardrahan**, Killimor, **Loughrea**, Athenry, Oughterard, any part of Connemara, **Glenamaddy**.
Mayo. — **Claremorris**, **Kilkelly**, Castlebar, Foxford, Bangor, **Ballycastle**.
Sligo.—**Aclare**, Inisherone, **Dromore**.
Leitrim.—**Drumkeeran**, Glenfarne, **Manor Hamilton**.
- XXIII. *Cavan*.—Drumhowna, Ballyjamesduff, **Sharcock**.
Fermanagh.—**Lisnaskea**, Belcoo, **Kesh**.
Monaghan.—**Castleblayney**, Clones.
Armagh.—Newtown Hamilton.
Down.—Strangford, **Saintfield**, Newtownards.
Antrim.—Larne, Killagan, **Cushendall**, Ballycastle.
Londonderry.—**Magherafelt**, **Draperstown**, Maghera, **Dungiven**.
Tyrone.—**Clogher**, **Trillick**, Pomeroy, Castlederg, Strabane.
Donegal.—**Glenties**, **Dunglow**, Merville, **Cardonagh**.

The above suggestions for improvement are based on the single consideration of fair distribution over the surface, so far as it can be obtained, without establishing rain gauges far from any house, and so even if fulfilled it would still leave much room for special investigations in mountainous or moorland areas.

The changes which occurred between 1904 and 1905 are detailed below, the loss being stated in the first column the gain in the second. The rate of increase was about $1\frac{1}{2}$ per cent. in Ireland, 2 per cent. in Wales, 3 per cent. in England, and 4 per cent. in Scotland. The last figure is particularly gratifying, and we have reason to believe that the old interest in rainfall measurement which was so much greater in Scotland than in other parts of the United Kingdom during the first half of the nineteenth century, is reviving, and that in a few years the blanks on the map will have been greatly reduced.

In London we welcome several new records, Holborn and Stepney being represented for the first time, and also many of the Parks under the London County Council.

There were some serious losses in Kent, particularly that of Westwell Vicarage, near Ashwell, one of the few stations in the remarkable but still ill-defined dry area which stretches north from Romney Marsh. On the other hand, there were important gains, and we may mention as particularly welcome the records at Southborough, Hildenborough, and at Thong, near Gravesend. In Berkshire the distribution of the gauges in the valley of the Kennet has been much improved.

Middlesex has been disappointing on account of the four losses, and it is quite inadequately represented when the various ridges and valleys are considered. The growth of the rainfall system in Hertfordshire is gratifying, and Oxfordshire shows some improvement, though both in the east and in the west of that county more Observers would be welcome. Northamptonshire has greatly improved, and Huntingdon, hitherto something of a black sheep in the rain-observing flock, has not lost a station and has gained three.

Essex remains with an even balance of loss and gain; but Suffolk and Norfolk show an unaccountable falling off; between them they have 9 losses and only 2 gains.

The distribution in South Devon has much improved and we particularly welcome two new private records on Dartmoor, Huccaby House and the Sanatorium at Chagford. North Devon has, however, gone backward; but Somerset has improved greatly, especially as regards the interesting region of Exmoor.

In Lincolnshire we have to deplore the same retrogression as in Suffolk and Norfolk, though Nottinghamshire and Derbyshire show a notable advance. The main increase in Lancashire is due to the new gauges of the Bolton Water Works.

In the northern division of the West Riding of Yorkshire we have to regret the loss of the West End and Washburn Dale groups of gauges belonging to the Leeds Water Works, and to deplore the cessation of four important gauges near Slaidburn, in a part of the country where they will be particularly missed. The East Riding has suffered no loss this year, but there is only one gain; the North Riding, however, has been considerably improved, and so has the south of Durham. In Cumberland a notable addition is Wasdale Head, on the windward side of the pass leading to Seathwaite.

Two new stations in Carmarthen, one in Pembroke and one in Cardigan, without a loss in any of the three counties, places the south-west of Wales in a better position than before. In Carnarvon there are also several additions, two of them being records of some standing discovered by the Editor in the course of a lecturing tour in February.

We have already referred to the revival of rainfall work in Scotland. The border counties have notably improved, especially Roxburghshire, where there are four new stations. Argyllshire unfortunately has gone backward, the valuable old record at Stonefield, Tarbert, has stopped, and so has that at Minard Castle on Loch Fyne, as well as Bragleenbeg, and Ardsheal. A new record at Carse may to some extent take the place of Stonefield, but there is no compensation for the other losses.

In West Inverness we welcome the return of Mr. Colin Livingstone's record at Fort William, which was of value before the Ben Nevis Observatories were started, and is now more valuable still since they have ceased to work. A new record in Skye is something to be thankful for, as that island, which was once remarkably well furnished with rain gauges, has now lost all or nearly all of the old records, and very few new ones have risen in their place. Melvich, on the north coast of Sutherland, is an important addition, but stations in the interior, as in all parts of the highlands, are greatly needed. In this matter sporting tenants could render a notable service to science. We have to thank Dr. Buchan for two new records from Shetland.

In Ireland there has been much talk of improving rainfall observations, but so far there has been but little result. We have a net gain of three gauges, and the list of desiderata to stop the ugliest gaps in the rainfall system which we have given above, contains nearly a hundred names. Dublin is the only county which with no losses has more than one gain, and in the south-west we are glad to find Dunmanway once more, though from a new Observer. Mangerton, in Kerry, Timolin Vicarage, in Kildare, and Recess Hotel and Kylemore Castle in Galway, are perhaps the most serious losses.

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

Years.	England.	Wales.	Scotland.	Ireland.	Gross Total.	Increase over previous year.
1860...	163	5	—	—	168	—
1861...	334	9	109	20	472	—
1871...	1038	88	311	67	1504	—
1881...	1548	131	313	153	2145	—
1891...	2091	168	359	181	2799	23
1892...	2113	178	367	192	2850	51
1893...	2205	193	389	200	2987	137
1894...	2269	184	395	195	3043	56
1895...	2304	196	398	186	3084	41
1896...	2427	209	402	181	3219	135
1897...	2492	223	419	184	3318	99
1898...	2545	237	436	186	3404	86
1899...	2615	252	446	188	3501	97
1900...	2612	248	437	196	3493	—
1901...	2616	253	442	195	3506	13
1902...	2712	248	472	204	3636	130
1903...	2847	265	502	215	3829	193
1904...	2932	321	508	221	3982	153
1905...	3016	328	528	224	4096	114
Difference from 1904—						
Increase	84	7	20	3	114	—
Decrease	—	—	—	—	—	—

Rainfall Records, Losses and Gains.

COUNTY.	RECORDS TERMINATED, OR ABSENT.	NEW RECORDS, OR OLD ONES RE-APPEARING.
<i>London (69)</i>	<i>City of London (Guildhall). 2 ft. 6 in. gauge.</i>	Westminster (Kensington Gard.)
	Greenwich (Blackheath) Eastcombe Villas	„ (St. James's Park).
	Woolwich, Eltham (Cliefden).	„ (<i>Spring Gard.</i>) No. 2
	„ „ (<i>Court Rd.</i>)	<i>Hampstead (Kidderpore Res.)</i>
		„ (Bathing Pond).
		St. Pancras (St. Augustine's Rd.)
		Islington (Hilldrop Road).
		Holborn (Stone Yard).
		Stepney (Nature Study Museum).
		Bermondsey (Southwark Park).
		Lambeth (Brockwell Park).
		Battersea (Battersea Park).
		Streatham (Southwark W.W.)
		Clapham Common (The Chase).
		Camberwell, E. Dulwich (Grove Vale).
		Deptford (Telegraph Hill).
		Lewisham (Forest Hill Cemetery)

<i>West Surrey</i> (76)	—	Hambleton (Mervel Hill). <i>Bramley</i> (<i>Grafham Grange</i>). Guildford (Wherwell Road). Wisley.
<i>East Surrey</i> (95)	Ashtead (Oakfield Road). Addington (Park Farm). Sutton (Water Works). Croydon (Windmill Road). " (Ashburton Road). Upper Norwood (Fox Hill Grdns).	South Nutfield (Hale Edge). Caterham Reservoir. Warlingham (Redvers Road). Banstead (Burgh Heath Res.) M Epsom (Ashley Road). Weybridge (Burcote). Purley (Riddlesdown Road). " (Pumping Station). " (Peak's Hill). Wallington (Cotswold) 8 in. g. <i>New Malden Sewage Works</i> . " " (Edenfield).
<i>West Kent</i> (103)	Tenterden (Little Westwell). Tunbridge Wells (Ivy Chimneys) Speldhurst (Harwarton). Chiddingstone Rectory. Ashford (Westwell Vicarage). Keston (Forest Lodge). Bromley (Widmore Road). Sidcup (Hatherley Road).	Hawkhurst. <i>Biddenden</i> (<i>Sandpit Wood</i>). Tunbridge Wells (Mount Ephraim Ho.) " " (Beulah Road). Southborough. Hildenborough (Hollanden Ho.) Bromley (Orchard Road). Shortlands (The Gables). Gravesend (Thong). Frindsbury (Stonehouse). <i>Greenhithe</i> (<i>H.M.S. Worcester</i>).
<i>East Kent</i> (53)	Littlestone-on-Sea. <i>Hythe</i> (<i>Seabrook</i>). Ickham. Broadstairs.	Brookland. Ashford (Willesborough Recty.) Wingham (Margate W.W.) Selling (Luton). Littlebourne House. Broadstairs (Providence House). Sheppey (Old Rides, Eastchurch)
<i>West Sussex</i> (42)	Arundel (Warningcamp). <i>Goodwood House</i> .	<i>Arundel</i> (<i>Yapton</i>). Sutton (Coldharbour). <i>Horsham</i> (<i>Leonardslee</i>).
<i>East Sussex</i> (88)	East Dean (Hill Side). Eastbourne (Trevella). Bexhill (The Grange). Lewes (Fairhall, Southover). Burgess Hill (Silverdale Road). Balcombe (Highley Manor).	Brighton (Roedean School). Hastings (Cemetery). <i>Isfield Place</i> . 2 gauges. Lindfield (Massetts Place). <i>Etchingham</i> (<i>Shoyswell Manor</i>) Wadhurst (The Olives). Forest Row (Wych Cross). Frant (Highfield). Cozleigh [Groombridge].

<i>Hampshire</i> (106)	Christchurch (Southbourne-on-Sea). North Hayling. Horndean (St. Catherines). West Liss (Berry Grove). <i>Aldershot</i> . Farnborough (The School). Strathfield Turgiss.	Shanklin. <i>Ryde (Town Hall)</i> . Milton (Wootton Hill). <i>Netley (Roy. Victoria Hospital)</i> . Kilmeston Manor. Maplederwell.
<i>Berkshire</i> (52)	Newbury (Welford Park). o.g. Yattenden Court.	Newbury (Greenham Common). Sulhampstead (Firlands). Reading. Lambourn (Clarionville). Abingdon (The Square House).
<i>Middlesex</i> (49)	Finchley (Etchingam Park). 8in. g. Friern Barnet (Sewage Works). Enfield (Chace Court). Risegate [Hadley, Barnet].	Northwood (Haslemere). ,, (The Grange).
<i>Hertfordshire</i> (66)	Watford (Frogmore). Berkhampstead (Gt. Gaddesden).	Barnet (Grammar School). <i>Chipperfield (Little Callipers)</i> . Northaw (Newgate Street). Haileybury College. Buntingford (Westmill). Royston (Barley).
<i>Buckingham- shire</i> (32)	Wooburn (The Chestnuts).	Beaconsfield (Gerrard's Cross) M. Chalfont St. Giles (The Stone). M. Olney (Emberton Manor).
<i>Oxfordshire</i> (46)	Dorchester (Manor House). Oxford (Magdalen Coll.) 34ft. g. Chipping Norton (Kingham).	Abingdon (Culham School Ho.) Great Haseley (Manor House). Woodstock (Freeland Lodge). Bicester. <i>Steeple Aston (Hill House)</i> .
<i>Northampton- shire</i> (66)	Rockingham Castle.	Daventry. Raunds (Day School). Kettering (Workhouse). Rothwell (Loddington). Thrapston (Drayton House). Oundle (Water Works). Peterborough (Minster Close).
<i>Huntingdon- shire</i> (13)	—	Buckden (Stirtloe House). Houghton Grange. Somersham Vicarage.
<i>Bedfordshire</i> (23)	—	Bedford (Bromham House).
<i>Cambridgeshire</i> (50)	Gamlingay (Old Woodbury).	Cambridge (Southacre). ,, (Chesterton). Willingham Rectory. <i>Mepal Engine</i> .

<i>Essex</i> (88)	<p>Southend. " (York Road). Bradwell-on-Sea (Down Hall). <i>Abess Roding Rectory.</i> Great Leighs (Hole Farm). Layer Breton Rectory. Harwich (The Mill).</p>	<p>East Ham. Southend (Broadway). Theydon Bois (Thriffs Hall). Ingatstone (Fryerning, Furze Hall) No. 2 <i>Clacton-on-Sea (Jay Wick).</i> Great Bromley. Manningtree (Lawford Rectory).</p>
<i>Suffolk</i> (51)	<p><i>Hadleigh (Polstead Rectory).</i> Hollesley Bay. Cavendish. Bury St. Edmunds (The Acacias) Southwold (Walberswick).</p>	<i>Framlingham College.</i>
<i>Norfolk</i> (53)	<p><i>Denver.</i> Norwich (Newmarket Road). Grimston (Manor House). Cawston Rectory.</p>	Drayton.
<i>Wiltshire</i> (55)	<p>Orcheston (Elston Hill). Trowbridge (Wingfield). Ramsbury (Littlecote). <i>Malmesbury (Charlton).</i></p>	<p>Salisbury (London Road). Stratford-sub-Castle (The Manor Ho.) Market Lavington. Pewsey (Stowell Park).</p>
<i>Dorsetshire</i> (53)	<p>Corfe Castle (Smedmore). Stoke Wake Rectory. Bourton (Chaffeymoor).</p>	<p>Weymouth (Massandra). Wareham (Stoborough). Abbotsbury (Littlebredy). <i>Wimborne (Park Homer).</i> Sturminster Newton Rectory.</p>
<i>South Devon</i> (106)	<p>Plymouth (Thorncot, Hooe). Kingsteignton (Teignbridge Ho.) Dawlish (Mamhead Rectory). Chudleigh (Tottiford). Budleigh Salterton (Syon House). <i>Coryton.</i> Exeter (Manston Terrace). 2 g.</p>	<p>Ermington (Strode). Princetown (Huccaby House). Marytavy Rectory. Exmouth (Manor Grounds). East Budleigh (Otterton Vic.) Chagford (Dartmoor Sanatorium) Seaton. Upton Pyne (The Parsonage). Crediton (Okefield).</p>
<i>North Devon</i> (39)	<p>Chittlehamholt Vicarage. Westward Ho! (Ferndale). Barnstaple (Arlington Court) No. 2</p>	—
<i>Cornwall</i> (60)	<p>Liskeard (Oak Park). Bude.</p>	<p><i>St. Ives.</i> St. Austell (Bunney Mine). Newquay Reservoir. <i>Newquay.</i> Roche (Glencoe). St. Wenn (Trewollack).</p>

<i>South Somerset</i> (41)	Milverton. Bridgwater (Fiddington). Williton (Aller). Bridgwater (Pawlett). 2 gauges.	Ilminster (Laurel Bank). Yeovil (Sew. Works, Pen Mill). ,, (Kingston). Rimpton. Maperton Rectory. <i>Simonsbath</i> . Cannington (Brymore). Quantockshead (St. Audrie's Rect.)
<i>North Somerset</i> (65)	<i>Axbridge (The Down, Winscombe) M</i>	Wells (Blue School). Frome (Beckington). Temple Cloud. Blagdon. Failand School [Bristol].
<i>West Gloucestershire</i> (69)	Mitcheldean (Blaisdon). M. Gloucester (Churcham).	Clifton (Stoke Bishop, Pitch and Pay). Winterbourne (Kendleshire). Pen Moel [Chepstow]. Longney Vicarage.
<i>East Gloucestershire</i> (21)	Fairford (Horcott). ,, (Hatherop Rectory).	Cirencester (Dollarward House), 8 in. g. Fairford (Hatherop Castle). <i>Great Barrington</i> .
<i>Herefordshire</i> (37)	Fownhope (Morney Cross). Woolhope (Wessington Court).	Ledbury (Wellington Heath). Ocle Pychard (Ocle Court). Brilley Vicarage. Bromyard (Rowden Abbey) 2nd g.
<i>Shropshire</i> (41)	Church Stretton.	Market Drayton (Marley Mount)
<i>Staffordshire</i> (44)	Kingswinford. Walsall. <i>Rudyard Reservoir</i> .	Lichfield (St. John Street). Brocton (Brocton Lodge). Hanbury Hall. Mayfield House [Ashbourne].
<i>Worcestershire</i> (43)	Gt. Malvern (British Camp Res. S.) ,, (Madresfield Rec.) <i>Bromsgrove (Upwood, Barnt Green)</i> . <i>Northfield (Longbridge)</i> . King's Heath (Cambridge Road)	Evesham (Eastwick). Shipston (Talton). Shelsley Walsh. Redditch (Hewell Gardens). <i>Bromsgrove (Barnt Green)</i> . Halesowen (Frankley).
<i>Warwickshire</i> (35)	Burton Dassett Vicarage.	<i>Snitterfield</i> . Coventry (Holyhead Road). Coleshill (Maxstoke). Birmingham (Gravelly Hill).
<i>Leicestershire</i> (28)	Thurcaston Rectory.	<i>Lutterworth (Walcote)</i> . Rearsby Rectory. <i>Waltham-on-the-Wolds</i> .
<i>Rutland</i> (6)	—	Liddington (Uppingham W.W.)

<i>South Lincolnshire</i> (24)	Grantham (Denton Manor). Horbling (The Hall). <i>Lincoln (Boultham).</i>	Holywell Hall.
<i>North Lincolnshire</i> (43)	Kirkstead. Spilsby (Dalby Grange). Lincoln (St. Catherine's). ,, (Monk's Road). Aisthorpe Hall. <i>Gainsborough.</i>	Lincoln (Sessions House). Riby.
<i>Nottinghamshire</i> (50)	<i>Newark (Averham Rectory).</i>	<i>Kingston (Midland Agric. Inst.)</i> Nottingham (Huskinson Street). Mansfield (West Bank). Worksop (Hodsock Priory) (R). <i>The Gardens [Bawtry Hall].</i>
<i>Derbyshire</i> (67)	—	Derby (Duffield Road). M Kirk Langley (Langley Hall). <i>Grassmoor Colliery.</i> Eyam (Eyam View).
<i>Cheshire</i> (65)	<i>Chester (The Nurseries).</i> ,, (Hoole Lodge). Northwich (Highfield).	Congleton (Sewage Works). <i>Thurstaston (Dawpool).</i>
<i>South Lancashire</i> (101)	Manchester (Withington). ,, (Cheetham Hill).	<i>Warrington (Howley).</i> Liverpool (Monument Place). West Derby (Grove House). Manchester (Sackville St.) <i>Eccles (Worsley Old Hall).</i> Bury (Parson's Lane). Bolton (Belmont, Longworth). ,, (Hordern). ,, (Slater Lane). <i>Rochdale (Nayden Dean). o.g.</i> Ramsbottom (Higher Hill). Entwistle (Old Lyons). ,, (Wayoh). ,, (Broadhead).
<i>Central Lancashire</i> (73)	Chorley (Crooke Hall).	Wigan (The Mariebonne). Over Darwen (Sewage Works).
<i>North Lancashire</i> (63)	Cartmel (Broughton Hall).	St. Annes-on-the-Sea. Carnforth (Over Killet). Coniston Water (Water Park).
<i>Yorkshire.</i> <i>West Riding,</i> <i>Southern</i> (58)	Bolsterstone (Waldershaigh).	<i>Dinnington Hall.</i> Sheffield (Dale Dyke Reservoir).

<i>West Riding, Central</i> (122)	Chapelthorpe (Crigglestone). Halifax (Bermerside Observty.) Leeds (<i>Elmet Hall, Roundhay</i>). Shipley (<i>West Point</i>).	Halifax (<i>Salterhebble</i>). Skipton (<i>Silsden Reservoir</i>).
<i>West Riding, Northern</i> (106)	Otley (Farnley Hall Gardens). York (<i>Burton Croft</i>). M. Skipton (<i>Counter Hill</i>). Fewston (Spinksburn). Harrogate (Wonderful House). Slaidburn (Croasdale Fell). " (Lamb Fell). " (Halstead). " (Crutchember Fell). West End (Hard Ing). " (Meagill Lane). " (Garden). " (Thruscross). 2 g. " (Lane Head). Washburn Dale (Ray Bank). " " (High House). " Head. Low Bentham. Masham Moor (Benjy Guide).	Birstwith (Swareliffe). Ripon (Studley Royal Gardens).
<i>East Riding</i> (22)	—	Deighton Grove [York].
<i>North Riding</i> (52)	<i>Alne</i> . Baldersby. Thirsk (Sowerby). Mickleton.	<i>Malton</i> (<i>Longster's Garden</i>). Thirsk (Dalton). " (Mount St. John) Snow g. " (Cliff Head, Boltby). Northallerton (Thornton-le-Moor). Cowton (Pepper Arden). Richmond (Gilling West). <i>Whitby</i> (<i>Royal Crescent</i>). Stokesley (Seamer). Saltburn-by-the-Sea.
<i>Durham</i> (43)	—	Gainford. Hurworth Burn (Crookfoot). West Hartlepool. <i>Hartlepool</i> (<i>Hart Reservoir</i>).
<i>Northumberland</i> (52)	Rededale (Horsley). Redewater (Blakehope). Kirknewton (Hethpool).	Ryal Cottage (Newcastle W.W.) Glanton (Glanton Pyke Gardens). Holy Island (St. Aidans).
<i>Cumberland</i> (70)	The Sty. A. Keswick (Barrow House). Matterdale (Bank House). Cockermouth (Higham). Melmerby Rectory.	Beckfoot. Gosforth (Ellerslie). Wasdale Head Vicarage. <i>Frizington</i> (<i>Parkside Mines</i>). Hutton John. Udale (Chapel House Reservoir).

<i>Westmorland</i> (41)	Shap Vicarage.	<i>Ambleside (Lesketh How).</i> <i>Rydal (The Stepping Stones). M.</i> <i>Loughrigg (Silverthwaite). 2nd g.</i> <i>Grizedale (Ruthwaite Lodge).</i>
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MONMOUTH, WALES AND THE ISLANDS.

<i>Monmouth</i> (27).	<i>Pandy (Trewyn).</i>	Caerleon (Llanwern House). Pontypool (Cwm-Afon Res.).
<i>Glamorgan</i> (53)	Caerphilly (The Court House). Blaenrhondda (Craig Carn Mosyn).	Porthcawl. Swansea (New Dock Works).
<i>Carmarthen</i> (10)	—	Llangynog (Coomb). Llanddarog (Lletherllestry).
<i>Pembroke</i> (9)	—	Fishguard (Dwrbach).
<i>Cardigan</i> (9)	—	Nantneuadd (Llanlear).
<i>Brecon</i> (67)	Torpantau Mountain. Talybont (Bryn). Brecon (Pen Milan). Criekhowell (Pentir). Llanfihangel Nant-Bran (Nant-y-garw). Llanwrtyd Wells (Bwlchau).	Ebbw Vale W.W. (Carno, E.). Torpantau Station. 2nd gauge. Bwch (Buckland Gardens). ,, (Treberfydd). Cathedine Rectory.
<i>Radnor</i> (18)	Glasbury (Glanhenwye). Llanbadarnfynydd (Crochran).	Bettws Disserth.
<i>Montgomery</i> (25)	Llangurig (Pant-mawr). Meifod (Tan-y-fron).	—
<i>Flint</i> (10)	—	Cilcain.
<i>Denbigh</i> (26)	Llanddulas (Arnold House).	<i>Wrexham (Cae Llwyd Res.) 8in g.</i>
<i>Merioneth</i> (10)	Towyn (Peniarth). 2nd gauge.	Dolgelly (Bryntirion).
<i>Carnarvon</i> (38)	Tal-y-cafn (Bodhyfryd).	Criccieth (Cefn-Maen). Portmadoc (Wern Gardens). Nantlle (Cwm-silyn Lakes). Llanberis (Pen-y-pass). Penmaenmawr (Mountain Res.). ,, (Council Offices).
<i>Anglesea</i> (5)	—	—
<i>Ile of Man</i> (10)	—	—
<i>Isles of Scilly</i> (2)	—	—

<i>Jersey</i> (2)	—	—
<i>Guernsey</i> (7)	Cobo.	St. Martins (Oberland).

SCOTLAND.

<i>Wigton</i> (9)	—	Port William (Blairbuie).
<i>Kirkcudbright</i> (17)	<i>Kirkcudbright (Balmae).</i>	—
<i>Dumfries</i> (16)	Moffat (Ericstane). M	<i>Langholm (Ewes School).</i> Beattock (Kinnelhead).
<i>Roxburgh</i> (15)	—	Hawick. St. Boswell's (Monksford). " (Fens). Kelso (Maxwellheugh). " (Springwood Park).
<i>Selkirk</i> (5)	—	—
<i>Peebles</i> (17)	—	Stobo (Dawyck Gardens).
<i>Berwick</i> (9)	—	—
<i>Haddington</i> (8)	<i>North Berwick (Fidra).</i> " " (Bass Rock).	<i>Haddington (District Asylum).</i>
<i>Midlothian</i> (26)	Stow (Burnhouse).	Edinburgh (Streatham House).
<i>Linlithgow</i> (10)	—	Linlithgow Academy. 2 gauges.
<i>Lanark</i> (21)	<i>Bothwell Castle.</i> <i>Glasgow (Bellahouston Park).</i>	Lamington. <i>Roughrig Res. [Slamannan].</i>
<i>Ayr</i> (25)	<i>Dunlop (Dunlop House).</i>	<i>Maybole (Knockdon, Glenhead).</i> Saltecoats. Dalry (Camphill).
<i>Renfrew</i> (34)	—	Dougliehill Res. (Port Glasgow W. W.) Auchendores Res. (")
<i>Dumbarton</i> (6)	—	—
<i>Stirling</i> (27)	<i>Kilsyth (Kirkintilloch W. W.)</i> <i>Strathblane (Blane field).</i>	Killearn (Achnagowen). Loch Arklet (Corriehichon). " " (Corriearklet).
<i>Bute</i> (4)	—	Rothesay (Glenburn).

<i>Argyll, Mainland</i> (29)	<i>Kintyre, Mull of.</i> ,, (Stonefield, Tarbert). Minard Castle. <i>Lochgilphead (Poltalloch).</i> M Oban (Kilninver, Bragleenbeg). Ballachulish (Ardsheal).	Kintyre (Campbeltown, The Rectory). ,, (Carse, Tarbert). <i>Dunoon (Grammar School).</i>
<i>Argyll, Insular</i> (19)	—	<i>Islay (McArthurshead).</i> Mull (Kinlochspelvie).
<i>Clackmannan</i> (4)	—	—
<i>Kinross</i> (3)	—	—
<i>Fife</i> (15)	<i>Kilmarny (Mountquhanie).</i>	<i>Inchkeith.</i> Boarhills (Kenley Green).
<i>Perth</i> (33)	<i>Dunblane (Kippenross).</i> Lanrick Castle. <i>Glenfarg.</i>	<i>Balquhiddier (Blaircreich).</i> Perth (Craigie Road). Aberfeldy (Dunros).
<i>Forfar</i> (33)	Inverarity Manse.	Kirriemuir (Eskhill).
<i>Kincardine</i> (13)	—	—
<i>Aberdeen</i> (19)	—	<i>Buchanness.</i>
<i>Banff</i> (7).	—	Dufftown (Dullan Brae).
<i>Elgin or Moray</i> (5)	Carron (Bridgend Cottage).	Archiestown (Benview).
<i>Nairn</i> (6)	—	—
<i>West Inverness</i> (23)	—	<i>Fort William (Ardtraigh).</i> Skye (Drynoch, Loch Harport). <i>Barra (Barrahead).</i>
<i>East Inverness</i> (10)	—	—
<i>West Ross and Cromarty</i> (15)	<i>Braemore (Foich Lodge).</i> <i>Stornoway.</i>	—
<i>East Ross and Cromarty</i> (7)	<i>Cromarty.</i>	—
<i>Sutherland</i> (10)	—	Melvich.
<i>Caithness</i> (8)	—	—
<i>Orkney</i> (11)	—	<i>Hoy (Cantickhead).</i>
<i>Shetland</i> (9)	—	Northmavine (Lochend). Unst (Halligarth).

IRELAND.

<i>Cork</i> (12)	Cork (Wellesley Terrace). Charleville Park.	Dunmanway (The Rectory). Middleton (Ballynacurra). Cork (College Road). Mitchelstown Castle.
<i>Kerry</i> (10)	Mangerton.	Brandon Bay (Fermoye).
<i>Waterford</i> (11)	Lismore (Ballygally).	<i>Knockaderry. No. 1.</i>
<i>Tipperary</i> (8)	Ballingarry (Hazelfort).	Roscrea (Timoney Park). Ballingarry (Gurteen).
<i>Limerick</i> (4)	Limerick (Corbally).	Limerick (St. Michaels).
<i>Clare</i> (11)	—	<i>Inagh (Mount Callan).</i>
<i>Wexford</i> (10)	—	—
<i>Kilkenny</i> (6)	Piltown (Bessborough). Kilkenny (Sion Villa). 2 gauges.	<i>Inistioge (Woodstock). 2 g.</i>
<i>Wicklow</i> (9)	—	—
<i>Carlow</i> (3)	—	—
<i>Queens Co.</i> (3)	—	Mountrath (Castletown).
<i>Kings Co.</i> (5)	<i>Victoria Lock [Meelick].</i> Geashill.	Edenderry.
<i>Kildare</i> (4)	Timolin Vicarage.	Kilcock (Knockanally).
<i>Dublin</i> (20)	—	Stillorgan (White Cross). Kingstown (Harbour Yard). Dublin (Leeson Park).
<i>Meath</i> (6)	<i>Drumconrath (Corstown Ho.)</i>	—
<i>Westmeath</i> (5)	—	—
<i>Louth</i> (5)	—	—
<i>Longford</i> (3)	—	—
<i>Galway</i> (10)	Recess Hotel. Clifden (Kylemore Castle)	—
<i>Roscommon</i> (2)	—	—
<i>Mayo</i> (9)	—	—

<i>Sligo</i> (5)	—	—
<i>Leitrim</i> (3)	—	—
<i>Cavan</i> (5)	—	<i>Cavan (Water Works).</i>
<i>Fermanagh</i> (2)	—	—
<i>Monaghan</i> (2)	—	—
<i>Armagh</i> (5)	Portadown (West Street).	—
<i>Down</i> (10)	—	Moyallon [Portadown].
<i>Antrim</i> (17)	Ballynure (Ballyboley).	—
<i>Londonderry</i> (5)	—	—
<i>Tyrone</i> (3)	—	—
<i>Donegal</i> (11)	<i>Killybegs.</i>	<i>Rathmullan.</i>

OBITUARY.

WITH over 4,000 Observers it is reasonable to expect an annual death-roll of between seventy and eighty, for the larger number have passed middle life, and a considerable proportion are well advanced in years. It is our aim to put on record the name of every Observer who has died since the issue of the previous volume, with a note of the services rendered to the Rainfall Organization, and such biographical facts of interest as we are able to ascertain. In this we have been much helped by surviving friends, and we take this opportunity of asking our readers to be good enough to forward any information regarding late Observers which they think likely to interest survivors, and not to assume that someone else has performed this service.

Amongst the 62 names which fill the Obituary list this year, thirteen Observers had kept observations for thirty years or more, either in one place or at various places in different parts of the country.

Records of Thirty Years and upwards.

NAME.	LAST PLACE OF OBSERVATION.	
*Mr. T. M. Symons	Coryton.....	45 years.
Rev. B. S. Malden	Sheldwich.....	38 „
*Mr. G. B. Buckton	Weycombe, Haslemere	37 „
Mr. T. Arkell	Lechlade	36 „
*Mr. H. E. Gurney	Nutwood, Reigate	36 „
*Mr. E. Chapman	Oxford	35 „
*Rev. R. Elmhirst.....	Farnham, Knaresborough...	35 „
Sir Wilfrid Lawson, Bt.	Brayton.....	33 „
*Sir Pryse Pryse, Bart...	Gogerddan	33 „
*Mr. J. King	Withington	32 „
Mr. F. Slade.....	Beckford	32 „
*Mr. J. A. Hempson.....	Erwarton	30 „
*Mr. F. H. Plumtre ...	Kingsteignton	30 „

The ages of just half of those mentioned in the Obituary are known to us, and of these the seven named in the following list exceeded the fourscore years.

* Continuous records in one place.

Observers in the Obituary list who attained the age of 80 years or more :—

Mr. T. Arkell	95 years.
Mr. G. B. Buckton.....	88 „
Rev. H. H. D’Ombrain	87 „
Mr. G. Jevons	87 „
Mr. H. E. Gurney	84 „
Mr. F. Slade	81 „
Mr. C. H. Burbidge-Hambly ...	80 „

In referring with special detail to a few of our old collaborators, it must not be supposed that we have made a selection of the better known or more distinguished, as on that account more worthy of recognition and gratitude for their service in this small department of science than the many who are passed over without remark. It is often difficult at short notice to obtain the information we would like to give, as it would be inconsiderate in many cases to write to relatives for particulars, which at the time of a death might appear to the survivors of but slight importance.

MR. G. B. BUCKTON, F.R.S., who died in September, 1905, at the age of 88, was a chemist and a distinguished entomologist. He kept up a rainfall record at Weycombe, Haslemere, without intermission from 1867, and it is, we are happy to believe, likely to be continued.

MR. EDWARD CHAPMAN, of Hill End, Mottram in Longdendale, who died very suddenly in July, 1906, was a University man, a Fellow of Magdalen College, Oxford, and country gentleman interested in every department of public life. He was a director of the South-Eastern Railway Company, the Deputy Chairman of the Great Central Railway Company, and took a leading part in all public affairs in the counties of Lancaster and Chester. From 1900 to 1905 he was Member of Parliament for the Hyde Division of Cheshire. Mr. Chapman was a collector of paintings, and possessed many valuable pictures. His chief recreation was the turning-lathe; but he found time to take a keen personal interest in meteorological observations, and had been a rainfall observer and a good friend of the Rainfall Organization for 35 years. In 1869, Mr. Chapman became Lecturer on Physical Science, and subsequently Tutor at Magdalen College, retaining this appointment till 1894, and doing much for the improvement of physical study in the University of Oxford. When he took over the charge of the Daubeny Laboratory at Magdalen College in 1869, he became responsible for the meteorological observations, which he much improved, presenting new

instruments and planning a new book for recording the observations. To the end Mr. Chapman continued to receive and forward for *British Rainfall* the records kept at Magdalen, and the help and encouragement he gave the Editor will be greatly missed.

PROFESSOR RALPH COPELAND, Astronomer Royal for Scotland, and Professor of Practical Astronomy in the University of Edinburgh, was an Astronomer who had seen much of the world on Eclipse expeditions and as an Arctic explorer. The peculiar circumstances of his appointment were made the occasion of a powerful criticism by Lord Crawford of the treatment of men of science by the Government, and the letter giving expression to the complaint was quoted by Prof. Ray Lankester in his Presidential Address to the British Association at York. Since 1889 he was responsible for the rainfall observations at the Edinburgh Royal Observatory, first on the Calton Hill and afterwards on Blackford Hill. Professor Copeland was always ready to help and advise, and we gratefully remember many kindnesses on his part.

REV. H. H. D'OMBRAIN, who completed a rainfall record of a quarter of a century, was one of the many who have been attracted to meteorology by their love of horticulture. He was well known as an enthusiastic rose-grower.

REV. R. ELMHIRST, of Farnham, Knaresborough, completed a rainfall record of 35 years, and was a frequent contributor to *Symons's Meteorological Magazine* as well as to *British Rainfall*. He was an enthusiastic gardener, and every year we have had the privilege of publishing phenological notes from his pen. Born at Barnsley in 1835, he started life in business in Liverpool; but his mind turning to study he entered St. Aidan's College, and was ordained Deacon in 1861, and Priest in 1863, and after holding several curacies he lived as Vicar of Brearton, near Knaresborough, for 40 years. He had travelled in the East, and was a keen student of nature in every aspect.

MR. H. E. GURNEY, of Nutwood, Reigate, carried on observations of rainfall for 35 years at the same place, a notable service, the effect of which will be multiplied if it is found possible to continue the record.

REV. H. B. HEBERDEN was the last representative but one amongst the observers for *British Rainfall* of the famous Heberden family, whose activity in meteorological investigations for three generations

was made the subject of a special article in *British Rainfall*, 1896. His observations extended over a period of 26 years, and included records from three parishes in Hants and Gloucestershire, of which he successively held the livings.

LADY VICTORIA HOWARD, daughter of the 17th Earl of Suffolk, and one of the bridesmaids of Queen Alexandra, kept up a record of rainfall at Charlton Cottage, near Malmesbury, for 22 years, and took a great personal interest in the work.

SIR WILFRID LAWSON, BART., M.P., known equally for his enthusiasm in the cause of temperance and for his genial humour in public and private life, took a strong interest in the work of *British Rainfall*, and maintained a record almost continuously since 1862 in the gardens of his residence at Brayton, in Cumberland. As a specimen of the playful rhymes with which Sir Wilfrid delighted both friends and opponents, and as an illustration of the pleasure with which he associated himself with water in all its forms, we may cite the following, written on the occasion of his return for a Cornish constituency :—

From Cumberland to Cornwall brought,
A kind of miracle was wrought ;
They put aside the man of tin
And let the watery Cumbrian in ;
From pole to pole it thus would seem
The power of water is supreme.

THE REV. N. MACDOUGALL contributed some interesting records from various stations in the western islands of Scotland. He was one of the recipients of a gauge from the Nunes' bequest, and it is a pleasure once again to acknowledge our indebtedness to this fund (the solitary token of interest in the work surviving the lifetime of the benefactor) for much information as to the rainfall conditions of the remoter parts of the kingdom.

THE REV. B. S. MALDEN, after a few years' observation in the neighbourhood of Wolverhampton in the sixties, was appointed to the living of Sheldwich, in Kent, and contributed practically a continuous record from that place since 1871. The station is situated on the northern slope of the Downs and its loss would be a serious one to the representation in that part of the county. It is therefore to be hoped that the new incumbent may continue the record.

SIR PRYSE PRYSE, BART., of Gogerddan, near Aberystwyth, kept up for many years a particularly valuable rainfall record in a part of

the country where there are very few rain gauges. The continuance of this record by his successor will, we trust, be secured, as without it the west of Wales would be poorly represented indeed.

MR. FREDERICK SLADE died on December 1st, 1905, in his 82nd year. In 1847 he commenced work with a firm of contractors engaged in railway construction and gained his experience during the exciting period of most rapid railway development in this country. He had been a meteorological observer for the greater part of his life, and kept up his interest in the work to the end. Mr. Slade was an exact, methodical, painstaking and trustworthy observer, and took pride in the completeness and perfection of his records, over which he spent much time, expressing the results in beautifully executed diagrams as well as in figures. His rainfall record commenced at Barrow-in-Furness in 1873 and continued there until 1879, at Kenilworth from 1880 to 1883, and subsequently at Beckford, near Tewkesbury, where it was carried on without intermission to the end. Mr. Slade was a singularly healthy man, never knowing ill-health until within a few months of his death. He was keenly interested in local affairs, taking part in the work of the various local councils.

MR. T. M. SYMONS was one of the very few surviving Observers whose activity spanned the period of the existence of the British Rainfall Organization, and his fine record of 45 years refers to one place, Coryton, in Devon. Although the register for 1905 is imperfect, it is gratifying to hear that there is some probability of the observations being continued by a neighbour interested in the work.

Observers Deceased to July, 1906.

NAMES AND STATIONS.	PERIOD OF OBSERVATION.	
	DATE.	Complete Yearly Records
Ainsworth, D., The Flosh, Cleator	1883-1905	23
Arkell, T. { Draycott Folliatt, Swindon	C 1866-1875	} 36
{ Lechlade	C 1879 imp-1905 c ...	
Arthur, J., Bude	C 1880 imp-1904 T ...	24
Barlow, Rev. Canon, Lawford Rectory, Manningtree	1905	1
Borrowman, John, Hambledon, Surrey	1890-1905	16
Buckton, G. B., F.R.S., Weycombe, Haslemere ...	C 1867 imp-1904 c ...	37
Burbidge-Hambly, C. H. { Hazlewood, Derby.....	C 1885 imp-1896 T ...	} 17
{ Weston, Bath.....	C 1897 imp-1903 T ..	

Observers Deceased to July, 1906—(continued).

NAMES AND STATIONS.	PERIOD OF OBSERVATION.		
	DATE.	Complete Yearly Record.	
Buxton, H. E., Fritton, Great Yarmouth	C 1892 imp-1904 c ...	12	
Campbell-Davys, R. { Neuadd-fawr, Llandoverly	C 1898-1900	} 3	
{ Dolecoed Hotel, Llanwrtyd Wells	1900.....		
Chapman, E., Magdalen College, Oxford	1871-1905 c	35	
Christopherson, Mrs. A., Colton House, Ulverston	1902-1905 T	4	
Copeland, Dr. R. { Royal Observatory, Edinburgh..	1889-1895 c	} 17	
{ " Hill, Edinburgh	C 1896-1905 c		
Courtauld, Mrs., Bocking Place, Braintree	1900-1903 c	4	
Crabtree, W. H. { Thrybergh, Rotherham	1887-1904 c	} 18	
	{ Firsby, Doncaster		1887-1904 c
	{ Doncaster Pumping Station		1887-1904 c
Crafer, C. A., Warningcamp, Arundel	1902-1904 T	3	
Crawley, Rev. R. T., North Ockendon, Essex	1879-1904 T	26	
Curtin, W. H., Monks Road, Lincoln	1904 T	1	
D'Ombraïn, Rev. H. H., Westwell, Ashford	1881-1904 T	24	
Elmhirst, Rev. R., Farnham, Knaresborough	1871-1905 T	35	
Foley, R., Ballygally, Lismore, co. Waterford	1901-1904 T	4	
Glanusk, Lord, Glanusk Park, Crickhowell.....	1892-1905	14	
Greenwood, Dr. G. S., Ossett, Wakefield	1893-1904 c	12	
Gurney, H. E., Nutwood, Reigate.....	1869 imp-1905	36	
Hall, L. H. { Newland, Coleford	1887-1891 imp T ...	} 17	
	{ Churcham, Gloucester		1892-1904
Heberden, Rev. H. { Litchfield, Hants.....	C 1873 imp-76 imp T	} 26	
	{ Stapleton, Bristol.....		C 1879 imp-1890 impT
	{ Oddington, Stow-on-the-Wold		C 1891 imp-1905
Hempson, J. A., Erwarnton Hall, Suffolk	1876-1905	30	
Hollingworth, H. G., Minafon, Llanbedr, Merioneth	C 1898-1905	8	
Horton, J. W., Brayford Wharf, Lincoln	C 1880-1905 T	26	
Howard, Lady Victoria, Charlton Cottage Malmesbury	1882 - 1897, 1899-1904 c.....	22	
Jackson, W., Drove Road, Langholm	C 1896 imp-1905	9	
Jevons, G. { St. Michael's Hamlet, Liverpool.....	1879-83 T	} 26	
	{ Hope Street, Liverpool.....		1884 - 1895 imp, 1896-1905 T
King, J., Withington, Manchester	1873-1904 c	32	
Langdon, W., Midland Railway, Derby	C 1883-1902 c	20	
Lawson, Sir Wilfrid, Bart., M.P., Brayton Hall, Cumberland	1867-70, 1872-86	} 33	
	1890 imp-1902		
	1904-1905 c		
Little, J., Thorncot, Hooe, Plymstock.....	1899-1904 T	6	
MacDougall, Rev. N. { Manse of Coll, N.B.	1882 imp - 89 imp,	} 14	
	1892-94		
	{ Kilerivagh, Benbecula		C 1898-99 T
{ Ardvasar, Skye.....	1901-1903 T		
Malden, Rev. B. S. { Patlingham, Wolverhampton	1855-69 T	} 38	
	{ Sheldwich Vicarage, Kent ...		1872-81 imp, 1882-1905

Observers Deceased to July, 1906—(continued).

NAMES AND STATIONS.	PERIOD OF OBSERVATION.		
	DATE.	Complete Yearly Record.	
Munn, Rev. G. S., Madresfield Rectory, Gt. Malvern	1877-1904 T ...	28	
O'Connell, J. {	Inch House, Kilkenny	1891 imp-93 imp T	
	Sion Villa, Kilkenny.....	C 1893 imp -1904 T...	13
Orr, Miss K. A., Burlington Place, Eastbourne.....	1895-1903 T	9	
Phipps, T., Kingham, Chipping Norton	1900-1904 T	5	
Plenderleath, Rev. W. C., Mamhead Rec., Dawlish	C 1891 imp-1905 imp T	13	
Plumptre, F. H., Teignbridge House, Kingsteignton	1875-1904 T	30	
Pringle, C. S. {	Foxgrove Road, Beckenham	1876 - 1880, 1888 -	
	Whitekirk, Southbourne, Hants.....	1893 imp T ...	13
Pryse, Sir Pryse, Bt. {	Gogerddan, Aberystwyth...	C 1901 imp-1904 T ...	
	Waenbwl, Machynlleth	C 1872 - 1883 imp, 1884-1905 c ...	33
Rawlings, E., Richmond House, Wimbledon Common	1876 - 1881 imp, 1882-1883		
Roxby, Rev. W., Thornford Rectory, Yeovil.....	1894-1905.....	12	
Sharp, Rev. J. P., Long Stowe Rectory, Cambs. ...	1898 T	1	
Slade, F. {	Cavendish Park, Barrow-in-Furness	C 1895 imp -1905 T...	10
	Lynton Villa, Kenilworth	1873-1879	
	Beckford, Tewkesbury.....	1880-1883 imp T ...	32
Smith, Clifford {	The Staithe, Beccles	1884-1905 T	
	Waveney House, Beccles	1889-1902.....	17
Sowerby, W., Royal Botanic Gardens, Regents Park	1903-1905		
Sparrow, C. B., Preen Manor, Church Stretton.....	C 1870 imp-1894 c ...	24	
Stevenson, Rev. P., Inverarity Manse, Forfar	1898-1905	8	
Stirling, J., Garden House, Kippen, N.B.	C 1891 imp -1904 T...	13	
Stubs, Peter {	Statham Lodge, Lymm, Cheshire ...	1893-1904	12
	Blaisdon, Mitcheldean, Glos.	1877-1891 T	
Symons, T. M., Coryton, Devon	C 1892-1905	29	
Tanner, Rev. J. Selwood, Ashford, Ludlow	1860-1904	45	
Terrill, F., Boutham, Lincoln	1884-86 imp, 1887	19	
	-1903 T		
Thurgood, H. J., East Budleigh, Devon	1881-1905 imp c ...	24	
Watters, D., Bridgend Cottage, Carron, N.B.	1902-1904 c	3	
Whyte, Maj.-Gen. H., Lough Eske Castle, co. Donegal	1900 imp -1904 T...	4	
Wright, J. H., Dalby Grange, Spilsby.....	1903-1905	3	
	1898-1904	7	

NOTE.—C indicates commencement of record; c its continuation; T its termination; imp means that the record for that year was imperfect.

RAINFALL AND METEOROLOGY

OF

1905.

EXPLANATION.

THE Observers' Notes on the Days and Months and on the Year as a whole are given as far as possible in the words of the Observers themselves, and the signature of the Observer is added to each Note on the Year. It is understood that the Notes refer to extreme or exceptional rather than to normal phenomena. The Notes on the Days and on the Months are occasionally supplemented by short extracts from the newspaper press. The completeness or incompleteness of this picture of the weather of the year depends upon the interest which the Rainfall Observers of each district take in the meteorological incidents of their locality, and on their willingness to communicate the outcome of their observations in a suitable form. The Notes supplement, but do not supersede, those published monthly in *Symons's Meteorological Magazine*.

The various discussions of the Rainfall of the Year as regards heavy falls in short periods and on rainfall days, droughts, and wet spells, and the general distribution of Rainfall over the British Isles for each month and for the year, are prepared by the Editor after considering all sources of information which have been published or are available for publication.

In order to save space by avoiding frequent repetitions, the names of the Counties are omitted in the Monthly and Daily Notes, and those of the Divisions are omitted in the Daily Notes, the numerals only being retained. The following abbreviations are employed:—

Bar.	-	-	-	Barometer.
E.	-	-	-	East.
H	-	-	-	Hail.
Max.	-	-	-	Maximum (temperature).
<i>Met. Mag.</i>	-	-	-	<i>Symons's Meteorological Magazine.</i>
Min.	-	-	-	Minimum (temperature).
N.	-	-	-	North.
L	-	-	-	Lightning.
R	-	-	-	Rain, Rainfall.
S	-	-	-	Snow.
S.	-	-	-	South.
T	-	-	-	Thunder.
Temp.	-	-	-	Temperature.
TS	-	-	-	Thunderstorm.
TSS	-	-	-	Thunderstorms.
W.	-	-	-	West.

ON THE METEOROLOGY OF 1905,

With Notes on some of the Principal Phenomena.

NOTES ON THE DAYS OF 1905.

These Notes should be read in conjunction with those on Heavy Rains in 1905.

JANUARY.

6th.—*Cirencester* (VI). Severe N.W. gale all evening and night.—*Huntington Court* (VI). High N.W. wind; trees blown down.

6th and 7th.—*Yarmouth* (IV). Severe gale and high tide, doing great damage.—*Scarborough* (IX). Severe gale and heavy seas. The north promenade pier was carried away.

7th.—*Burgh Castle* (IV). A great sea, or tidal flood, almost unequalled for many years. Much damage along shores.

9th.—*Chelford* (VIII). Great storm from W. in the afternoon and evening, with sleet and H.—*Edinburgh* (XIII). Severe gale, with sleet, S and finally hard frost. The S-storm was general over Scotland.

11th.—*Tighnabruaich* (XV). T and L.—*Inveraray* (XV). T, L and H. *Cork* (XX). Torrential R and H; in 15 minutes .25 in. of R fell.

13th—16th.—*Towyn* (XI). Gale, causing much damage to trees.

14th and 15th.—*Wellington* (V). Very violent E.S.E. or S.E. gale.

14th—16th.—*Drumnadrochit* (XVIII). Great continuous gale from S.E. Much destruction of trees and overturning of stacks.

15th.—*Huddersfield* (IX). Coldest day in ten years. Max. temp. 26°.2.

15th and 16th.—*Woolstaston* (VI). Blizzard.—*Chelford* (VIII). Violent gale from S.E., with great cold on 16th.

16th.—*Fulham, Edith Road* (I). Up to 6 p.m. temp. did not exceed 26°, but then rose rapidly and by midnight reached 44°.5.—*St. Pancras, Camden Square* (I). The temp. did not rise above 23° until the evening, when there was a driving shower of icy sleet followed by

glazed frost and heavy R. Many accidents in the London streets were reported.

“Horses floundered about and fell in all directions, and their drivers in many instances sought in vain to give them a foothold to rise again. The snow had taken the authorities unawares. Sand and gravel were not to be obtained, and the first sufferers fared badly. At the foot of the bridges the condition of the roads was at its worst. Traffic was hung up for some time along the whole length of Waterloo Bridge, the steep descent on the Surrey side being more than the horses could negotiate with safety. On the Surrey side of Westminster Bridge at six o'clock the block of vehicular traffic extended to below Parliament-street, and progress, with many halts and stoppages, was extremely slow. Many drivers of carts got down and extemporised shoes for their horses out of sacks, odd strips of canvas, even thick wrappings of paper being utilised, with a view to improving the horses' hold on the ice. The North Metropolitan horse-tramway service was completely disorganised for some hours. In East London trams were stopped altogether. Electric trams fared better, and on the whole kept their time well.”—*Daily Telegraph*.

Epsom (II). Blizzard between 6 and 7 p.m., developing into very heavy R at 8 p.m.—*Wallington* (II). An inch of S, followed by heavy R.—*Sevenoaks* (II). The temp. during the day was never above 27°, with a strong wind from between N.E. and S.E., and at 4.30 p.m. there was no sign of an approaching change. At 5 p.m. lumps of ice, evidently frozen R, began to fall, with the temp. at 20° R at 5.30 p.m. with temp. 29°, and at 10 p.m. heavy R and temp. 43°. At 9 a.m. the bar. stood at 29.15 in., when it began to fall sharply and by midnight was 28.60 in. It began to rise again at 4 a.m. on 17th.—*Christchurch* (II). S an inch and a half deep, followed by .68 in. of R in a few hours.—*Slough* (III). Blizzard.—*Winslow* (III). The temp. did not rise above 23° till the evening, when it reached 30° at 10 p.m.—*Swerford* (III). Between 4.45 and 8 p.m. S fell to the depth of about three inches.—*Alderbury* (V). Two inches of S, which remained in patches till 25th.—*Stroud* (VI). About two inches of S, drifting much before a S.E. gale.—*Leygore Manor* (VI). Two inches of S.—*Droitwich* (VI). S storm at 6 p.m., three inches falling.—*Nottingham* (VII). The coldest day ever remembered. At midday the temp. was only 25°·5 with a stiff E. wind, and at about 6.30 p.m. powdery S fell in a perfect blizzard, so that the ground was thickly covered in half an hour.—*Broughton-in-Furness* (VIII). Very strong and bitter E. wind with S for four hours, amounting to a blizzard. The S was like minute particles of ice and the wind drove it through the smallest crevices. Depth two inches.—*Tredunnock* (XI). S yielding .30 in.—*Llangyhanfal* (XI). Blizzard.—*Llandudno* (XI). Heavy S.

Rathmines (XXI.) Blizzard of R, S and sleet.—*Banbridge* (XXIII). Blizzard. A boy was found insensible in a drift.

16th and 17th.—*Furnace* (XV). The highest wind experienced for many years. During the strongest gusts the pressure reached 27 lbs. per square foot.

19th.—*Stoke Bishop* (VI). Fog—*Grimsby* (VII). An ice accident resulted in the death of four men by drowning.—*Hull* (IX). Dense fog.

20th.—*St. Agnes* (V). Slight Earth-tremor at 2 a.m.

27th—29th.*—*Hitchin* (III). Bar. readings, 30·85 in., 30·85 in. and 30·90 in., readings unprecedented since October 29th, 1849.—*Tavistock* (V). From 9 p.m. on 27th to noon on 29th the bar. exceeded 31 in.

28th.*—*Bournemouth* (II). Highest pressure by standard bar., 31·02 in. (corr.) at 11.30 p.m.—*Rousdon* (V). Bar. 31·020 in., the highest reading since observations commenced in 1883.—*Bandon* (XX). Bar. 31·03 in., the highest reading in this district for 9 years.—*Cork* (XX). Bar. 31·04 in.

29th.*—*Fulham, Edith Road* (I). Bar. reduced to sea level, 30·940 in., the highest ever recorded here.—*Meltham* (IX). Bar. 30·923 in. from 9 a.m. to 10 a.m.

30th.—*Drumnadrochit* (XVIII). S.W. gales, and trees blown down.

FEBRUARY.

2nd.—*Colmonell* (XIV). T and L.

6th.—*Ballingarry* (XX). Primroses in bloom.

10th.—*Polapit Tamar* (V). Very thick fog till 10 a.m.

13th.—*Crathes* (XVII). S three inches deep.—*Waterford* (XX). Wild strawberries in bloom.

15th.—*Burgh Castle* (IV). Heavy fog.

18th.—*Colmonell* (XIV). T and L.

19th.—*Liskeard* (V). An inch and a half of S.—*Chelford* (VIII). Gale from N.W. with H and sleet at times.—*Waterford* (XX). Black-thorn in bloom.

24th.—*London* (I). Intense darkness without fog prevailed in the City from 8.30 a.m. to near noon on account of a pall of smoke which a dead calm permitted to gather.

25th.†—*Arrochar House* (XV). From 3 to 5 p.m. 1·45 in. of R fell.

* See also *Met. Mag.* February, 1905, p. 2.

† See also *Met. Mag.*, April, 1905, p. 41.

26th.*—*St. Pancras, Camden Square* (I). Violent squalls with H.

26th—27th.—*Chelford* (VIII). W. gale, with S, sleet and R-storms all night and day, and T and L at 6.30 p.m.

27th.—*Leicester* (VII). Water supply restricted on account of the continued low R.

28th.—*Shu le-crow* (X). TS.

MARCH.

1st.—*Huntington Court* (VI). Heavy H-storms and S.—*Chelford* (VIII). At 0.50 p.m. a black pall came down and the place was in darkness for ten minutes.

2nd.—*Tavistock* (V). Aurora borealis.—*Grange-over-Sands* (VIII). Aurora borealis.

7th.—*Stoke Bishop* (VI). T, L and H.—*Cirencester* (VI). T and L. *Burton-on-Trent* (VI). T and L.—*Mayfield House [Ashbourne]* (VI). TS.

9th.—*Shu-le-crow* (X). TS.—*Tighnabruaich* (XV). T and L.—*Hurdlestown* (XX). H, R, S, T and L all day.

10th.—*Tavistock* (V). TS at 5.22 a.m. S an inch deep at 8 a.m.—*Miltown Malbay* (XX). T and L.—*Markree* (XXII). T and L.

11th.—*Haslemere* (II). TS from 10 to 11 p.m.—*Totland Bay* (II). TS and H.—*Emsworth* (II). Violent gale. T and L from 8 to 10 p.m.—*Alderbury* (V). TS at 8 p.m.—*Winterbourne Steepleton* (V). TS at 7.30 p.m.—*Penzance* (V). T, L and H.—*Stroud* (VI). During a furious H-storm between 6.30 and 7 a.m. an elm and a poplar were struck by L about a mile S.E. of here.—*Cirencester* (VI). T, L and H.—*Thirvendale* (IX). Hurricane about noon.—*Pickering* (IX). TS.—*Waterford* (XX). H, L and T.—*Clonmel* (XX). T and L.—*Ballindoney* (XXI). Terrific H-storms and vivid L and T. The H-stones at 9 p.m. were as large as small gooseberries.

11th and 12th.†—*Maidenhead* (II). TSS.—*Gloucester* (VI). Terrific hurricane from W.

11th—14th.†—*Stoke Bishop* (VI). T, L, H and strong winds.

12th.†—*Farnham* (II). T, L and S.W. gale.—*Epsom* (II). TS at 3.30 p.m., .11 in. of R falling in 10 minutes.—*Christchurch* (II). H storm with T and L.—*Tavistock* (V). TS.—*Polapit Tamar* (V). T with violent H and wind.—*Carmarthen* (XI). TS.—*Lincluden House* (XII). TS in early morning.—*Dumfries* (XII). T and L at 5 p.m.

14th.—*St. Pancras, Camden Square* (I). Slight TS at 11 p.m.—

* See also *Met. Mag.*, April, 1905, p. 41.

† 12th and 15th. See also *Met. Mag.*, April, 1905, p. 52.

Farnham Royal (III). Severe H storm.—*Swerford* (III). T and vivid L in afternoon.—*Colchester* (IV). S.W. gale and TS with H. The TS was very sharp though of brief duration. In parts of Colchester two or three houses were damaged.—*Copdock* (IV). T, L and H.—*Penzance* (V). T and L.—*Gloucester* (VI). Hurricane from S.W.—*Huntington Court* (VI). T and heavy H with wind storms at about 3 a.m.—*Chelford* (VIII). Heavy storms of H and R from S.W.—*Corstorphine* (XIII). T, L and H.—*Waterford* (XX). H, L and T.

14th and 15th.*—*Chedington Court* (V). T, L and H.—*Findern* (VII). TSS and great storm of wind.—*Ballindoney* (XXI). A hurricane began at 10 p.m. on 14th accompanied by T, L, H and 78 in. of R. An immense number of trees were blown down, and damage was done to houses.

15th.*—*Haslemere* (II). T and L at 9 p.m.—*Farnham* (II). T, L and S.W. gale.—*Weybridge* (II). The clock on the tower of St. James' Church and the steeple of the Congregational Chapel were struck by L.—*Epsom* (II). TS at 10.15 p.m.—*Wallington* (II). TS at 11 p.m.—*Dover* (II). Terrific gale, causing much damage.—*Erith, Crossness* (II). Heavy TS.—*Totland Bay* (II). TS and H.—*Christchurch* (II). T, L and H.—*Emsworth* (II). T, L and frozen R.—*Maidenhead* (II). TS and heavy R.—*St. Albans* (III). Hurricane, during which much damage was done to roofs, and a heavy cart-shed was lifted and hurled against the back of some cottages.—*Bishops Cannings* (V). T and L at 10 p.m.—*Weymouth* (V). TS.—*Winterbourne Steepleton* (V). TSS with H at 2 a.m. and 8.30 p.m.—*Bridport* (V). Severe gale in which a woman named Ashby had a remarkable escape. The roof of her house was blown in and the bed on which she lay buried. She was pinned to the bed and lay there all night, and when released was practically uninjured.—*Teignmouth* (V). Remarkable H-storm at 7.15 p.m. lasting about 20 minutes with T and L. The stones were as large as ordinary marbles, and many measured 2½ inches in circumference. Thousands of panes of glass were broken in the town and the ground was quite white for some time after, in spite of some R, whilst some stones were found at 8 a.m. next morning. The storm was quite local and more violent in one part of Teignmouth than another.—*Tavistock* (V). TSS.—*Rousdon* (V). Great gales with vivid L, heavy T and the largest H-stones seen for many years.—*St. Agnes* (V). Church spire shattered by L during a squall of H and R at noon.—*Bishops Castle* (VI). TS and S.—*Nottingham* (VII). TS.—*Chelford*

* 12th and 15th. See also *Met. Mag.*, April, 1905, p. 52.

(VIII). Violent gale in the night from S., continued during the day with R and H storms and a severe TS at 11 a.m.—*Shu-le-crow* (X). Bar. reached 28·33 in. after having been below 29·00 in. since 10th.—*Towyn* (XI). TSS.—*Bandon* (XX). Bar. 28·07 in., the lowest reading in this district for 27 years.—*Cork* (XX). Bar. 28·14 in.—*Lahinch* (XX). At 1 a.m. during a gale and storm of R the bar. went down to 27·90 in. and barographs ceased to register.

16th.—*Chelmsford* (IV). T and L at 11 a.m.

16th and 17th.—*Burton-on-Trent* (VI). T and L.—*Mayfield House* [*Ashbourne*] (VI). TSS.

17th.—*Erith, Crossness* (II). Heavy TS.—*Maidenhead* (II). TS, H and heavy R.—*Copdock* (IV). T, L and H.—*Blakeney* (IV). Heavy TS.

19th.—*Marlow* (III). The Thames at Temple Lock was 1 ft. 1 in. above summer level.

22nd.—*Polapit Tamar* (V). Thick fog.—*Hull* (IX). Dense fog.

23rd.—*Wolsingham* (X). TS.—*Balruddery* (XVI). Heavy TS.

25th.—*Langholm* (XII). TS and extraordinary darkness.

30th.—*Dumfries* (XII). T and L at 4 p.m.

APRIL.

4th—9th.—*Melvich* (XIX). S daily.

5th.—*Chelford* (VIII). Heavy storms of wind, R and H.—*Alford* (XVII). Two and a half inches of S.

6th.—*Grange-over-Sands* (VIII). Heavy fall of S.—*Adel* (IX). S yielding ·35 in.—*Goldsborough Hall* (IX). Heavy fall of S.—*Keswick* (X). S yielding ·34 in.—*Dumfries* (XII). S two inches deep.—*Lilliesleaf* (XII). Deep S.—*Colmonell* (XIV). Two inches of S.—*Lochgoilhead* (XV). Heavy S at night.

6th and 7th.—*Blakeney* (IV). Heavy falls of S.

7th.—*Betchworth, The Holmes* (II). In 6 minutes ·20 in. of R fell.—*Rendlesham Hall* (IV). About three inches of S.—*Mayfield House* [*Ashbourne*] (VI). Heavy S in the early morning, three inches deep. Mean temp. 34° and min. temp. on grass 18°·2.—*Nottingham* (VII). About an inch and a half of S.—*Southport* (VIII). S 2·8 inches deep.—*Huddersfield* (IX). Five inches of S on the ground, being the thickest in April for 20 years.—*Eskdale* (X). Two inches of S.

8th.—*Cirencester* (VI). One inch of S.—*Alford* (XVII). An inch and a half of S.

9th—11th.—*Cirencester* (VI). Continuous R for 54 hours, ending at 6 p.m. on 11th.

10th.—*Sudbury* (IV). Deep S in the early morning.

13th.—*Eskdale* (X). Heavy TS during the evening, lasting an hour and a half.

14th.—*Broughton-in-Furness* (VIII). Heavy TS with vivid L, travelling to N.W.—*Shu-le-crow* (X). Sharp TS.

15th.—*Wolsingham* (X). A mock sun was observed at about 4.30 p.m., remaining visible for the greater part of an hour.

16th.—*Wallington* (II). TS at 2.15 p.m. House struck in Stafford Road, and two men injured.—*Farnham Royal* (III). Heavy TS at 3 p.m., during which .10 in. of R was recorded in 7 minutes.—*Clifton* (VI). Heavy T and L.—*Upton-on-Severn* (VI). Heavy TS.—*East Layton* (IX). About seven inches of S.

17th.—*Lilliesleaf* (XII). S an inch deep.

23rd.—*Irby-on-Humber* (VII). Earthquake shock felt at 1.40 a.m.—*Findern* (VII). Earthquake at 1.35 a.m.—*Doncaster* (IX). Earthquake distinctly felt at 1.38 a.m.

24th.—*Newport* (XXII). In 10 minutes .25 in. of R fell.

MAY.

3rd.—*Bere Regis, Longthorns* (V). Heavy H storm.—*Sturminster Marshall* (V). Tremendous storm of H and R. The ground was white with H, and from 0.15 to 1 p.m. .52 in. of R fell. This was very local.

21st and 22nd.—*Frome* (V). Frost injured fruit blossom.—*Mayfield House* [*Ashbourne*] (VI). Severe frost. Min. temp. in screen 25°·1, on grass 21°·4.—*Worcester* (VI). Sharp frost. Min. temp. on grass 24°. Much harm done to vegetation.

22nd.—*Crowborough* (II). A disastrous frost did much damage to vegetation on the low ground.—*Upton-on-Severn* (VI). Severe frost, doing serious damage to fruit trees which were in bloom.—*Chelford* (VIII). Min. temp. 27°; many plants were cut by frost.—*Langholm* (XII). Min. temp. 25°.

22nd and 23rd.—*Culham* (III). Sharp frost.—*Cirencester* (VI). Frosts, which were very local in effect. In places oak, beech and larch were cut as high as 60 feet, whilst in others even ground vegetables were uninjured.—*Chipping Campden* (VI). Hard frost. Min. temp. 25°.—*Blaby* (VII). Frost destroyed all fruit blossom.

23rd.—*Guildford* (II). Min. temp. 27°, the frost cutting down potatoes where exposed, and practically ruining the apple and strawberry crop.—*Halstead* (II). Very disastrous frost, but partial in its

effects, owing, it is believed, to light showers falling in places shortly before.—*Winslow* (III). A considerable amount of damage was done by sharp frost.—*Blisworth* (III). Severe frost on the ground, cutting off potatoes, strawberry blossom, &c.—*Little Saxham* (IV). Sharp frost caught the early potatoes and beans during the night.—*Marlborough* (V). Min. temp. 26°.—*North Cadbury* (V). Very disastrous frost, causing much destruction to potatoes, &c.—*Towyn* (XI). Heavy hoar frost, doing considerable damage to garden crops.—*Waterford* (XX). Min. temp. 30°. The frost burnt potatoes, beans, dahlias, evergreens, ivy and bracken.

23rd and 24th.—*Epsom* (II). Sharp frosts were experienced and vegetation suffered considerably.

24th.—*Warfield* (II). A sharp frost cut most of the fruit blossom and made it a bad fruit year.

25th.—*Abinger Hall* (II). A most disastrous frost, greatly damaging trees, fruit and ivy.

26th.—*Gillingham* (V). Hard frost.—*Polapit Tamar* (V). Very thick fog till 5.30 a.m.

30th.—*Fulham, Edith Road* (I). Heavy TS from 3.45 to 4.15 p.m.—*St. Pancras, Camden Square* (I). TS of moderate severity.—*Epsom* (II). Sharp TS from 3.27 to 3.50 p.m. with a deluge of R, .66 in. falling in 23 minutes.—*Wallington* (II). TS between 3 and 4 p.m.—*Reading* (II). Between 4.10 and 5.30 p.m. an inch of R fell, with distant T.—*Broxbourne* (III). Heavy TS, 1.34 in. of R falling in less than three hours.—*Great Berkhamstead, Rosebank* (III). In 10 minutes .20 in. of R fell.—*Langley* (III). Severe TS, during which a carman named Howse, who was delivering coals, was struck by L and his arm broken. His horse was instantly killed.

JUNE.

1st.—*Great Berkhamstead, Rosebank* (III). In 3 minutes .10 in. of R fell.

5th.—*Sevenoaks* (II). The heavy R destroyed great numbers of young partridges.—*Wootton, Fernhill* (II). Exceptionally heavy R, about an inch falling in a little over an hour.—*Emsworth* (II). Continuous R for twenty-four hours, yielding 1.79 in.—*Wickham* (II). R 3.13 in., the largest fall ever recorded in 24 hours. R began at 7 a.m. on 5th and continued, it is believed without intermission, till 11 a.m. on 6th, 3.48 in. falling in the 28 hours.

5th and 6th.*—*Haslemere* (II). Forty-eight hours' R.

6th.—*Portsmouth* (II). Heavy R, 2·35 in. falling in 24 hours, flooded various parts of the town, and telegraphic communication was suspended for a time in consequence of the underground channel carrying the wires from the post office to the railway station being filled with water.

10th.—*Fulham, Edith Road* (I). T and L, with heavy R, from 3 to 5 p.m.—*St. Pancras, Camden Square* (I). TS and heavy R at 3.30 p.m.—*Epsom* (II). Sharp TS from 2.30 to 6.30 p.m.

12th.*—*Haslemere, Lower Street* (II). In 1 hour 5 minutes 1·75 in. of R fell, out of a total of 2·48 in. This R was particularly heavy from 4 to 5.30 p.m.—*Haslemere, Jesses* (II). TS from 4 to 6 p.m., with 2·00 in. of R.—*Haslemere, Hazelhurst* (II). TS, with 1·57 in. of R, of which 1·30 in. fell in 2 hours.—*Witley* (II). Two waterspouts were seen about 2½ miles away.

14th.—*Tyn-y-wawn* (XI). T, L and heavy R.

16th.—*St. Austell, Bunney Mine* (V). R 1·43 in., of which 1·25 in. fell between 4.10 and 5.45 p.m.—*Meltham* (IX). Partial drought for 45 days with ·39 in. of R ended. This was the longest drought here for more than 24 years.—*Hurworth Grange* (X). Absolute drought for 15 days ended.

17th.—*Witney* (III). Between 3 p.m. and 3.25 p.m. ·81 in. of R fell, flooding the High Street to a depth of 18 inches. This was presumably a waterspout.—*Oxford, Banbury Road* (III). From 4 to 4.30 p.m. ·54 in. of R fell. Something like a waterspout appeared over Hinksey; it may, however, have been only a low trailing cloud.—*Burgh Castle* (IV). Sharp TS, lasting two hours.—*Brundall* (IV). Severe TS from 7.30 to 8 p.m.—*Blakeney* (IV). Heavy TS.—*Shu-le-crow* (X). TS yielding ·97 in. of R.—*Dalry* (XII). In half-an-hour from 3 to 3.30 p.m. ·60 in. of R fell.

18th.—*Wakefield* (IX). TSS, followed by 1·18 in. of R.—*Edenderry* (XXI). From 4.10 p.m. to 6.30 p.m. 1·51 in. of R fell.

19th.—*Harptree Court* (V). Between 7.20 and 8.15 p.m. ·55 in. of R fell.—*Meltham* (IX). Slight TS at 3.10 p.m. and ·10 in. of R in 4 minutes.

20th.—*Cartmel Fell Vicarage* (VIII). Heavy T-shower for half-an-hour, which deposited over half-an-inch of R.

21st and 22nd.—*Waterford* (XX). Thick fog.

25th.—*Tulloch* (XVI). TS with torrential R, rendering a stretch of

* See also *Met. Mag.* July, 1905, p. 101.

3 miles of the West Highland Railway impassable by washing away embankments and destroying culverts and bridges. The station itself was under water for some time.—*Glenquoich* (XVIII). Serious flood in which a house in a lonely pass, occupied by a gamekeeper and some workmen, was practically buried beneath the debris brought down. One of the workmen was swept away when the flood struck the house, and was drowned.

27th.—*Loddington* (III). Heavy TS.—*Great Barford* (III). TS and 1.05 in. of R.—*Darsham, Sibton* (IV). TS which produced .85 in. in a little over 40 minutes.—*Brundall* (IV). Severe TSS, H and heavy R.—*Salt Vicarage* (VI). In one hour 1.52 in. of R fell, accompanied by severe T and L and large H-stones. Much damage was done to crops and several trees were struck.—*Goldsborough Hall* (IX). Heavy TS.—*East Layton Hall* (IX). Heavy TS.—*Scots Gap, Wallington* (X). TS of great violence.—*Hawick* (XII). TS with heavy R, causing a flood in the Slatrig Valley and sending a huge stream of water through the Whitrope Tunnel on the Waverley route, blocking the line with debris.—*Corstorphine* (XIII). T and L. Cattle and trees were struck within two miles of here.—*Musselburgh* (XIII). TS and heavy R.—*Forfar* (XVI). In a TS .57 in. of R fell in 20 minutes.

28th.—*Irby-upon-Humber* (VII). Between 11.42 and 11.56 a.m. .53 in. of R fell.—*Grimsby* (VII). Heavy TS.—*Wilmslow, Parksyde*. (VIII). TS and H, .60 in. of R falling from 0.35 to 1.5 p.m.—*Northwich* (VIII). At noon, after a TS with H, a whirlwind did much damage, unroofing houses and workshops, driving in gables of three houses, and sucking up nearly a ton of hay, carried it for nearly a quarter of a mile. A bookstall in the station was denuded of its contents, and a porter's cap was carried into a football field three hundred yards distant, where also were discovered some hundreds of postcards from the bookstall.

30th.—*Ashley* (II). R .92 in., the bulk of which fell between 9 and 10 p.m.—*Winscombe* (V). TS and 1.51 in. of R.

JULY.

1st.—*Fulham, Edith Road* (I). R measured at 9 a.m. 1.13 in., nearly all of which fell between 6 and 8 a.m.—*Rochford* (VI). Between 9 a.m. and noon .75 in. of R fell.

2nd.—*Cartmel Fell Vicarage* (VIII). Heavy TS for 20 minutes with more than .50 in. of R.—*Musselburgh* (XIII). Severe H-storm and T.—*Aberdeen* (XVII). Heavy TS.—*Castletown* (XIX). In one hour .40 in. of R fell.

3rd.—*Coldstream, The Hirsal* (XIII). 1·70 in. of R fell in 4 hours.

8th.—*Falkirk, Laurieston* (XV). The most severe TS of the year broke over the district about 6 p.m., accompanied by a heavy down-pour of R, ·70 in. falling in 20 minutes.

9th.*—*St. Pancras, Camden Square* (I). TSS at noon, 1.30 p.m. and 5 p.m. and T nearly all day.—*Hampstead* (I). During a TS on Hampstead Heath Mr. H. W. Watkins and his little daughter were struck by L and instantaneously killed.—*Erith, Crossness* (II). TS and tropical R, ·86 in. falling in 45 minutes.—*East Garston* (II). Heavy TSS.—*Didcot* (II). Short but heavy TS.—*Wealdstone House* (III). R 2·21 in., the heaviest since the record commenced. This fall was very local, as at Northwood, five miles away, only ·50 in. fell.—*North Finchley* (III). Terrible H-storm; much glass broken and plants damaged. At Whetstone, one mile from here, a florist suffered to the extent of over £1000.—*Mill Hill* (III). Severe TSS from 11 a.m. to 1 p.m. and at about 5 p.m., with almost continuous T from 11 a.m. to 6 p.m. Serious floods occurred in low-lying places, and considerable damage was done to trees by wind and H.—*Enfield, Carisbrooke* (III). TS with 2·44 in. of R in 50 minutes.—*Trent Park [New Barnet]* (III). Exceptionally heavy TS, accompanied by 2·42 in. of R and the largest H-stones ever remembered; this did great damage to all crops, spoiling hardy fruits and cutting young shoots clean off.—*Berkhampstead, Rosebank* (III). In 5 minutes ·15 in. of R fell, and later ·14 in. in 5 minutes.—*Haileybury* (III). In 50 minutes from 1.20 to 2.10 p.m. 1·23 in. of R fell.—*Kensworth* (III). TS; trees struck.—*Newport Pagnell* (III). Extremely violent TS and serious H.—*Steeple Aston* (III). The worst TS for many years. Two trees were struck in the village.—*Swerford* (III). Two heavy TSS.—*Banbury* (III). TS and 1·43 in. of R.—*Blisworth* (III). Heavy T, L and R from noon till 2.30 p.m. From 0.5 to 0.20 p.m. ·31 in. of R fell.—*Loddington* (III). Very heavy TS, with over 1·00 in. of R in an hour.—*Milton Bryant* (III). In 25 minutes ·49 in. of R fell with T.—*Havering-atte-Bower* (IV). Very violent TS.—*Buckhurst Hill, Ardmore* (IV). R 1·48 in., of which 1·20 in. fell in 30 minutes.—*Shenfield* (IV). Very heavy TS, during which 1·73 in. of R fell from 2 to 2.45 p.m. A tree within a few feet of the gauge was struck.—*Great Leighs* (IV). In about 30 minutes ·98 in. of R fell.—*Barnstaple* (V). In 45 minutes ·50 in. of R fell.—*North Cadbury* (V). In 15 minutes ·25 in. of R fell. No T or L here.—*Stroud* (VI). T and L in the morning and heavy

* See also *Met. Mag.*, July, 1905, p. 102.

TSS all round. A house in the course of construction was struck about a mile to the W. of this.—*Lichfield, St. John Street* (VI). R 1·71 in., of which 1·63 in. fell in an hour and a half during a TS.—*Mayfield House [Ashbourne]* (VI). TS from 3.8 to 7.20 p.m. with 1·66 in. of R.—*Hoar Cross* (VI.) T, L and 1·52 in. of R. The storm began at 2.15 p.m. and lasted an hour.—*Leamington, Radford House* (VI). In less than an hour ·72 in. of R fell.—*Warwick* (VI). Severe TS, during which at 1 p.m. 24 cattle, which were sheltering under a tree in Lord Warwick's park, were struck by L and killed.—*Birmingham, Gravelly Hill* (VI). Heavy local TS.—*Nottingham* (VII). Heavy TS.—*Rochdale, Fieldhead* (VIII). In 30 minutes ·85 in. of R fell and in 2 hours 1·11 in.—*Meltham* (IX). Severe TS, with 1·54 in. of R, most of which fell between 5 and 7.30 p.m.—*Deganwy, Y Berlfa* (XI). In 35 minutes ·63 in. of R fell.—*Stobo, Dawyck* (XIII). The heaviest TS experienced for several years, continued for 4½ hours.

10th.—*Hamilton, Laighstone Hall* (XIV). The heaviest R of the year, amounting to 1·62 in., almost all in one hour.

13th.—*Waterford* (XX). Thick fog.

21st.—*Abinger* (II). The shade temp. reached 90° at 11 a.m.

26th.—*Collyweston* (III). Heavy TS.

27th.—*Caterham Valley* (II). A chimney was struck by L. There was a single sharp explosion with a blue flame and some smoke. The result was more like a blow from an aerolite, as a hole was made near the base and the top was not injured.—*Ulcombe* (II). In less than 30 minutes ·52 in. of R fell with T and L.—*Maidstone, Langley* (II). The TS, which has now become annual, occurred. It was very violent, lasting an hour; R fell for half-an-hour, yielding ·64 in.—*Maidstone, Long Rede, Barming* (II). Heavy TS at 5 p.m., and ·61 in. of R in an hour and a quarter.—*Sevenoaks Rectory* (II). During the afternoon 1·66 in. of R fell in about 40 minutes.—*Ightham* (II). In 20 minutes ·72 in. of R fell.—*East Liss* (II). In about 20 minutes ·94 in. of R fell.—*Great Berkhamstead, Rosebank* (III). In 4 minutes ·10 in. of R fell.—*Kensworth* (III). TS, in which ·28 in. of R fell in 40 minutes.—*Great Leighs, Lyons Hall* (IV). In 30 minutes ·95 in. of R fell.—*Castletown* (XIX). TS with ·70 in. of R in 3 hours.

AUGUST.

3rd.—*St. Anne's-on-Sea* (VIII). Severe TS from 6.40 to 7.15 p.m., —*Upper Midhope* (IX). From 6 a.m. to 6 p.m. 1·00 in. of R fell. —*Newport* (XXII). In 17 minutes ·21 in. of R fell.

4th.—*Fulham, Edith Road* (I). Strong S.W. gale.—*Blisworth* (III). Terrific S.W. gale all day; much ripe standing corn was laid, and fruit blown off.—*Worcester* (VI). Strong S.W. gale, which did much damage to hops and fruit trees.

5th.—*Ightham* (II). In 30 minutes .28 in. of R fell.

10th.—*Buddon* (XVI). TS with H as large as marbles and lying so thickly on the ground that the men in Buddon Camp started "snowballing."

14th.—*Waterford* (XX). Dense fog.

15th.*—*Bishops Cannings* (V). R 1.52 in., nearly all of which fell from 8 to 10 p.m. with T.—*Ashburton* (V). TS from 11 p.m., lasting all night with torrents of R.—*Starcross, Cofton* (V). Remarkable TS, 3.98 in. of R falling after 9 p.m.—*Exmouth* (V). In 8 hours 30 minutes 2.47 in. of R fell.—*Exeter* (V) Severe TS.—*Okehampton* (V). In a TS 1.72 in. of R fell in about 2 hours.—*Wellington* (V). Violent TS at night.—*Milverton* (V). R 2.18 in.; this fall was preceded and accompanied by a violent TS, which did much damage to stock and buildings in the neighbourhood. The centre of the storm (so far as R is concerned) appeared to lie to E. or N.E. of this place.—*Bridgwater* (V). Violent TS.—*Holford* (V). Severe TS.—*Cirencester* (VI). Heavy TS from 7 to 11 p.m.

15th and 16th.*—*Teignmouth* (V). Heavy TS, lasting from 9.15 p.m. on 15th to 3.30 a.m. on 16th.—*Uffculme* (V). Severe TS from 10 p.m. on 15th to 2 a.m. on 16th.

16th.—*Taunton* (V). Very severe TS from 11 p.m. on 15th to about 2 a.m. For some time there was no R, but at length it came down in torrents, easing off later to a steady downpour.

18th.—*Rochdale, Fieldhead* (VIII). In 7½ minutes .10 in. of R fell.

22nd.—*Liskeard* (V). T and .47 in. of R in an hour at 3 p.m.

23rd.—*Bamburgh* (X). Heavy TS in the early morning.

24th and 25th.† —*Ballindoney* (XXI). R began at 2.30 p.m. on 24th, and at 9 a.m. on 25th .65 in. had fallen. The storm continued all day, and almost ceased at 5 p.m., when 1.09 in. had fallen in 8 hours. Between 5 and 8 p.m. .48 in. fell, but most of this was in a tremendous shower lasting from 7.20 to 7.55 p.m. The total fall for the 24 hours from 9 a.m. to 9 a.m. was 1.57 in. The sky cleared here at 8 p.m. (at which time the storm was at its worst round Dublin and Bray),

* See also *Met. Mag.*, September, 1905, p. 142.

† See frontispiece, also *Met. Mag.*, September, 1905, p. 143; and, *Quarterly Journal R. Met. Soc.*, Vol. 32, p. 1.

and no further R fell during the night.—*Castledermot* (XXI). Nearly 30 hours' continuous R. Total, 2·63 in.—*Dublin* (XXI). R began at 9 p.m. on 24th and lasted 34 hours. Total, 3·95 in.

24th—26th.*—*Ballingarry* (XX). Continuous R for 36 hours from 8 p.m. on 24th, yielding 2·81 in.—*Glen-na-Smoel* (XXI). R commenced at about 8.30 p.m. on 24th and continued without ceasing till 0.15 a.m. on 26th, a period of 27 $\frac{3}{4}$ hours. The readings of the gauge were as follows :—

25th.	9 am.....	·52 in.
„	3 p.m.	·72 „
„	9 p.m.	2·88 „
„	midnight	2·02 „
26th.	9 am.....	·09 „
Total		6·23 in.

This gives 6·23 in. in 27 $\frac{3}{4}$ hours, 5·71 in. in 15 $\frac{1}{4}$ hours, 4·90 in. in 9 hours, and 2·02 in. in 3 hours. The R at the head of the valley, from 1 to 2 miles above the gauge, was of a much heavier description, and from calculations could not have been less than 8 inches in the 24 hours. This caused great damage to roads and culverts, and washed away a county bridge, a weir across the river, and portions of a built watercourse, 40 feet wide by 4 feet deep, which receives the drainage from 4000 acres.—*Carrickmines* (XXI). Great R and floods.—*Ballybrack* (XXI). Continuous R from 8 p.m. on 24th till 2 a.m. on 26th, producing 3·74 in., of which 3·20 in. fell on 25th. This was the greatest fall recorded here since the record commenced in 1877. In 17 hours 3·20 in. fell and during the last 9 hours 2·40 in. Some cottages were flooded.—*Balbriggan* (XXI). The R on 25th, 3·12 in., was the greatest ever recorded here on any day in the 13 years, 1893—1905. R began to fall at 9 p.m. on 24th, and continued until 5 a.m. on 26th, a period of 32 hours, during which 3·53 in. fell. This amount was exceeded during the great storm of November 11th-12th, 1901, when over 4 inches of R fell in 30 hours. On 25th, from 9 a.m. to 6 p.m., 1·00 in. fell ; from 6 p.m. to 5 a.m. on 26th, 2·12 in.—*Oldcastle* (XXI). Continuous R for 40 hours from 8 p.m. on 24th. Total, 3·51 in.—*Moate* (XXI). Continuous R from 7 p.m. on 24th to 7 a.m. on 26th, 2·86 in. falling in 36 hours.

25th.*—*Bray* (XXI). Tremendous R, measuring 4·45 in., which caused great destruction of property, and the loss of one life, by

* See frontispiece, also *Met. Mag.*, September, 1905, p. 143 ; and, *Quarterly Journal R. Met. Soc.*, Vol. 32, p. 1.

floods.—*Rathmines* (XXI). Tremendous storm from E. and N. Total, 3.46 in., by far the heaviest recorded since observations commenced in 1882, and unprecedented so far as records go in Dublin.

25th and 26th.*—*Moyallon* (XXIII). R fell for 36 hours without stopping.—*Belfast* (XXIII). R commenced at 4 a.m. on 25th and continued for 39 hours, measuring 3.25 in. This was the greatest R in such a time for 39 years.

26th.—*Mull, Quinish* (XV). Earthquake shock at 11 p.m. There was a sound as of heavy furniture being moved overhead, followed by the house shaking. It was over in about 5 seconds.

27th.—*Fulham, Edith Road* (I). Heavy TS.—*Haslemere* (II). TS and heavy R.—*Tonbridge* (II). During a TS at Leigh two men seeking for work in the hop fields took shelter under an oak tree, which was struck by L; one man was killed, and the other stunned.—*Leysdown* (II). TSS.—*Hitchin* (III). Heavy TS, during which farm buildings at Weston, near Stevenage, and at a farm called "The Bury," were struck and consumed. The house and a few sheds, together with the stacks were preserved, owing probably to the heavy R. The storm came from nearly due W. to E.—*Clifton Bury* (III). During a very local TS, 1.13 in. of R fell between 1 and 3 p.m. *Whitwell Vicarage* (IV). In one hour .72 in. of R fell.—*Aberdeen* (XVII). Thick fog all day.

27th and 28th.—*Battersea* (I). TSS.—*Copdock* (IV). TSS.

27th—29th.—*Purley* (II). In 48 hours 2.83 in. of R fell.—*Epsom* (II). TSS.

28th.—*Abinger* (II). Sharp TSS all round at intervals.—*Tottingworth Park* (II). A fierce TS raged all round Tottingworth, but never came overhead, and no R fell here.—*Crowborough, Steel Cross House* (II). TS from 0.15 to 0.45 p.m., accompanied by heavy R and H, .72 in. falling almost entirely in half-an-hour.—*Great Berkhamstead, Rosebank* (III). In 5 minutes .08 in. of R fell.—*Farnham Royal* (III). Severe TS.—*Hawkedon* (IV). Heavy H-storm.—*Burgh Castle* (IV). Extremely stormy, with L, T, H and R. Between 7 a.m. and 4 p.m. 2.63 in. of R fell, the greater part between 2.45 and 3.45 p.m.—*Stroud* (VI). T and L at 11.30 a.m.—*Burton-on-Stather* (VII). In 25 minutes .84 in. of R fell.—*Broughton-in-Furness* (VIII). TS in the afternoon, with 1.08 in. of R in 1 hour 5 minutes. This was the heaviest fall in so short time since July, 1897.—*Huddersfield, Cemetery* (IX). From 5.20 to 5.50 p.m. 1.54 in. of R fell.

* See also *Met. Mag.*, September, 1905, p. 143.

29th.—*Clapham Park* (I). TS and 1·22 in. of R.—*Oxshott* (II). Short but severe TS, with H yielding ·22 in. in 4 minutes. Two trees in the vicinity were struck by L.—*Marlow* (III). Heavy TS, with the loudest T and most vivid L remembered during 16 years. A large oak tree in the park was split, the bark being completely peeled off and scattered in all directions.—*Witney* (III). In three hours 1·18 in. of R fell.—*Sturminster Marshall* (V). Sharp TS at 6.30 p.m.

SEPTEMBER.

6th.—*Oxford* (III). At 4 p.m. ·12 in. of R fell in 10 minutes.

7th.—*Ardingly* (II). Between 0.25 and 0.31 p.m. ·20 in. of R fell.—*Great Berkhamstead, Rosebank* (III). In 3 minutes ·09 in. of R fell.—*Woburn, Ridgmount* (III). In 16 minutes ·20 in. of R fell.

7th—9th.—*Douglas* (XI). Severe gale from S.S.W.

10th.—*Seathwaite* (X). TS at 9 p.m.

15th.—*Winslow* (III). A sharp frost blackened dahlias and vegetable marrows, but at several places in the neighbourhood they were not touched.

21st and 22nd.—*Darrynane Abbey* (XX). In about 21 hours 1·60 in. of R fell.—*Kenmare, Derreen* (XX). From 3 p.m. on 21st, when R commenced, to 3 p.m. on 22nd 4·88 in. fell, constituting a record.

24th and 25th.—*Great Glemham* (IV). Between 5 p.m. on 24th and 8 a.m. on 25th 2·00 in. of R fell, and between 8 a.m. and 5 p.m. on 25th 1·22 in., making 3·22 in. in 24 hours.

29th.—*Eastbourne* (II). TS at 3 a.m.—*Osborne* (II). TS at 1 p.m.

OCTOBER.

4th.—*Great Berkhamstead, Rosebank* (III). In 5 minutes ·09 in. of R fell.—*Oxford* (III). In 20 minutes at 11.30 a.m. ·27 in. of R fell.—*Upper Midhope* (IX). T, L and heavy H-storm between 11 a.m. and noon.

5th.—*Woburn, Ridgmount* (III). From 11.35 to 11.44 a.m. ·23 in. of R fell.

9th.—*Moate* (XXI). Heavy fog at night.

14th.—*Wearhead* (X). First S fell.

15th—25th.*—*Hampson-in-Ellel* (VIII). Frost on 11 consecutive days.

16th and 17th.* *Botley* (II). Min. temp. 20° and 24° respectively.—*Upton-on-Severn* (VI). Severe frost, killing all flowers in gardens.—*Chelford* (VIII). Min. temp. 25° and 22°.

* See also *Met. Mag.*, November, 1905, p. 177, December, 1905, p. 198.

17th.*—*Maidstone* (II). Min. temp. 20°, this being the sharpest frost in October for 7 years.—*Totland Bay* (II). Min. temp. in screen 28°·8, being 7 days earlier than the record frost and 5 weeks earlier than the average earliest.—*Shu-le-crow* (X). First S on Skiddaw and the high fells.

19th.*—*Blair Atholl* (XVI). Ice half-an-inch thick in the morning.

20th.*—*Buchlyvie* (XV). Min. temp. in screen 21°·0.

25th.—*Manchester* (VIII). A depressing fog hung over the city.

29th.—*Criccieth* (XI). TS and 1·05 in. of R.—*Lahinch* (XX). Abnormally high tide.

30th.—*Ulcombe* (II). T, L and H at 6.30 p.m.—*Horsham* (II). L and T between 5 and 6 p.m.—*Eastbourne* (II). H in afternoon, T and L at 7 p.m. and TS at night.—*Lewes* (II). TS, with heavy R, H and wind.—*Tottingworth Park* (II). T, L, H and 1·22 in. of R.—*Totland Bay* (II). TS.—*Ryde* (II). T, L and H.—*Alton* (II). Sharp TS.—*Forfar* (XVI). Slight Earth-tremor at 8.15 p.m.

31st.—*Lytchet Minster* (V). Heavy H-storm for about 10 minutes.

NOVEMBER.

1st.—*Hull* (IX). Dense fog.

2nd.—*Aberdeen* (XVII). Heavy TS between 5 and 6 a.m.—*Ardross* (XVIII). In one and a half hours 1·09 in. of R fell and some damage was done by floods.

3rd.—*Totland Bay* (II). Fog, H, T and L.—*Bournemouth* (II). T and L at 5.30 p.m.—*Bere Regis, Longthorns* (V). Heavy T, L and H.

4th.—*Winslow* (III). Thick fog.—*Grimsby* (VII). Thick fog.—*St. Anne's-on-the-Sea* (VIII). Thick fog.—*Hull* (IX). Dense fog.

6th.—*St. Agnes* (V). Waterspout seen to burst at sea near the coast.—*Taunton* (V). At 1.30 p.m. a whirlwind suddenly sprang up, carrying leaves from the trees high into the air. The storm lasted 10 minutes.—*Gloucester* (VI). Thick fog.

6th and 7th.—*Maidenhead* (II). Dense fog.

7th.—*Oxford* (III). Thick fog.

8th.—*Douglas* (XI). Brilliant aurora between 6 and 7 p.m.

9th and 10th.—*Gloucester* (VI). Thick fog.

11th.—*Strathdon* (XVII). R 2·25 in., the wettest day, as November was the wettest month, in the record.—*Coolatore* (XXI). Heavy fog.

13th.—*Hastings* (II). Very heavy storm, doing much damage.

13th and 14th.—*Grimsby* (VII). Thick fog.

* See also *Met. Mag.*, November, 1905, p. 177, December, 1905, p. 198.

15th.*—*New Malden* (II). Aurora borealis in N.N.E. to N.N.W. at 8.55 p.m. The sky was blood-red and crimson.—*Shu-le-crow* (X). Vivid display of aurora borealis from 7 to 9 p.m., for most part a vivid rose-colour.—*Lochgoilhead* (XV). At 6.30 p.m. there began an extraordinary display of northern lights. The white lights shot up high into the heavens and fell, rising again, while a red colour, like blood and water, rose in a broad sheet on the E. and W. of the white lights. A white corona stretched from E. to W. at the same time. This continued for about an hour and then faded, beginning again at about 9 p.m. when the red lights rose until they formed a corona, the white corona having faded out. There was a clear sky on both occasions and the lights rose behind hills ranging up to 2,000 feet.—*Pitlochry* (XVI). Remarkable display of aurora borealis. Towards 6 p.m. the lights scintillated over the northern hills with unwonted brilliancy, having the effect of magnificent search-lights playing over the heavens. An unusual feature was the deepening of the varied tints, a remarkable phenomenon, which was seen here for the first time within living memory.—Displays of aurora borealis on this date were also reported from:—*Haslemere* (II). 6 to 6.30 p.m. and 8 to 9.30 p.m.—*Epsom* (II). 7.30 to 9.30 p.m.—*Totland Bay* (II). 9 p.m.—*Maidenhead* (II). 6.20 and 8.30 p.m.—*Haileybury* (III). 9.5 to 9.25 p.m.—*Slough* (III).—*Collyweston* (III).—*Shenfield* (IV).—*Chelmsford* (IV). 9.30 p.m.—*Sudbury* (IV).—*Little Saxham* (IV).—*Ashburton* (V). 7.30 to 9 p.m.—*Tavistock* (V). 6.20 to 6.40 p.m. and 8.40 to 9.40 p.m.—*Rousdon* (V).—*Instow* (V).—*Lynmouth* (V).—*St. Agnes* (V). 6 to 10 p.m.—*Liskeard* (V).—*Wellington* (V).—*Ross* (VI).—*Bishops Castle* (VI).—*Barnt Green* (VI). 8.55 to 9.10 p.m.—*Findern* (VII).—*Southport* (VIII). 5.55 to 6.5 p.m.—*Grange-over-Sands* (VIII).—*Broughton-in-Furness* (VIII). 8 to 9 p.m.—*Llandudno* (XI).—*Downe* (XVI). Extraordinarily fine from 6.30 to 9.30 p.m.—*Perth* (XVI). 9.30 p.m.—*Blair-Atholl* (XVI).—*Montrose* (XVI).—*Castletown* (XIX).—*Fetlar* (XIX). Extremely brilliant.—*Ballindoney* (XXI).—*Rathmines* (XXI).—*Ballinasloe* (XXII).

17th.—*Maidenhead* (II). Thick fog.—*Wareham* (V). The first S since February, 1902.—*Chedington Court* (V). About two inches of S.

17th and 18th.—*Bere Regis, Longthorns* (V). S storms.

18th.—*Sturminster Marshall* (V). Ground white with S.—*Ashburton* (V). About two inches of S.—*Grimsby* (VII). Dense fog.—*Hull* (IX). Dense fog.

* See also *Met. Mag.*, December, 1905, p. 196.

19th.—*Hampson-in-Ellel* (VIII). The first **S** of the winter fell. On the previous day roses, violets and primroses were in full bloom, an indication of the mildness of the autumn.—*Ruthin* (XI). Fog.

21st.—*London* (I). Severe frost and dense fog, in consequence of which a van, being driven along the side of the Albert Dock, plunged into the water and a man and boy were drowned.—*Hull* (IX). Fog.

22nd.—*Hassness* (X). R 3·42 in., causing a flood.

25th.—*Maidenhead* (II). Thick fog.

26th.—*Norwich, Ipswich Road* (IV). In 7 minutes ·25 in. of R fell, the most rapid fall ever registered here.—*Chelford* (VIII). Violent gale from S.W.

27th.—*Broughton-in-Furness* (VIII). 1·52 in. of R fell in 6 hours.

29th.—*Ballachulish House* (XV). In 9 hours 1·57 in. of R fell.

DECEMBER.

1st.—*Bournemouth* (II). Thick fog.—*Stoke Bishop* (VI). Dense fog.

1st and 2nd.—*Gloucester* (VI). Thick fog.

2nd.—*Pitsford* (III). Thick fog.

2nd—8th.—*Dumfries* (XII). The average min. temp. exceeded that of June 2nd to 8th by 4°·6.

3rd.—*Maidenhead* (II). Thick fog.—*Oxford* (III). Thick fog.—*Stourport* (VI). Very foggy.

4th.—*Winslow* (III). Thick fog all day.—*Gloucester* (VI). Fog.

10th and 11th.*—*St. Pancras, Camden Square* (I). Dense fogs interfering greatly with traffic in N. London.

10th—13th.*—*Maidenhead* (II). Dense fog daily.

11th—13th.*—*Gloucester* (VI). Thick fog.

12th.*—*Chelford* (VIII). Thick fog all day.—*St. Anne's-on-Sea* (VIII). Dense fog.—*Meltham* (IX). Bar. 30·937 in. at 10.30 a.m.—*Cork* (XX). Dense fog.

12th and 13th.*—*Epsom* (II). Fog.—*Stoke Bishop* (VI). Dense fog.

13th.—*Oxford* (III). Thick fog clearing suddenly at 10 a.m.—*Ross* (VI). Dense fog.

17th and 18th.—*Stoke Bishop* (VI). Thick fog.

25th and 27th.—*Maidenhead* (II). Thick fog.

27th and 28th.—*Crowborough* (II). Fog all day.

29th.—*Grimby* (VII). Thick fog all day.—*Cork* (XX). Dense fog.

30th and 31st.—*Miltown Malbay* (XX). S.E. gale, heavy on 31st.—*Ballingarry* (XX). S.E. gale, very strong at times.

* See also *Met. Mag.*, January, 1906, p. 226.

OBSERVERS' NOTES ON THE MONTHS.

JANUARY.*

ENGLAND AND WALES.

I. LONDON.—*Fulham, Edith Road.* A dry month, with exactly average temperature and many fine and sunny days.—*St. Pancras, Camden Square.* The first 10 days were inclement, with little sunshine but no great amount of R. From 10th fine dry weather set in, changing to severe frost which culminated on 16th. The latter part was fine, and beautiful sunny weather accompanied the remarkably high barometer of the last week. Duration of sunshine 38·7 hours and of R 29·1 hours. Mean temp. 38°·0, or 0°·1 below the average.

II. SOUTH EASTERN COUNTIES.—*Abinger Hall.* Cold and very changeable, with N.E, to N.W. winds during the greater part. Very heavy R on 16th, but otherwise dry. Vegetation suffered much.—*Farnham.* Very fine with frequent frost, but no extreme cold except on 16th.—*Epsom.* On the whole fine, several days being cloudless throughout, and the mean amount of cloud only 4·9. S fell on 1st, 2nd and 16th. Mean temp. 37°·5.—*Wallington.* Duration of sunshine 87·8 hours, the highest total for January on record. On 29th the amount was 7·7 hours, also the highest on record. Mean temp. 38°·3, being 0°·5 above the average.—*Tilmanstone, Danefield.* Mild and fine with the exception of a few days when there was severe frost. Hardly any S.—*Bolney Vicarage.* Very fine and dry, with more frost than for some years.—*Crowborough, Beechcroft.* Very fine and dry, with much brilliant sunshine. Mean temp. 37°·0.—*Osborne.* Dry generally, the R being only about 40 per cent. of the average of 47 years.—*Christchurch.* A beautiful winter month, with 12 days of unclouded sun and 21 days of westerly wind. Max. temp. on 7th, 54°·5. Remarkable fall of bar. from 30·51 in. to 29·01 in. from 13th to 16th, followed by an equally rapid rise to 30·40 in. on 19th. On 29th the bar. rose to 31·02 in. with frost. Frost on four days.—*West Dean.* Remarkably fine and sunny, with sharp frosts and mild days. Very little wind. Temp. slightly under the average.—*Maidenhead.* Overcast

* See also *Met. Mag.*, February, 1905, pp. 2, 18, and March, 1905, p. 26.

and squally till 15th followed by a whole gale and blizzard on 16th. Bright and frosty from 25th to 31st.

III. SOUTH MIDLAND COUNTIES.—*Muswell Hill*. R .75 in. below the average of 29 years.—*Farnham Royal*. Dry with much sunshine and only a little S.—*Oxford*. Fine and cold, with an unusual amount of sunshine.—*Pitsford*. R .82 in. below the average. Mean temp. 35°·8.

IV. EASTERN COUNTIES.—*Copdock*. A brilliant month with 91·3 hours of sunshine. Anticyclonic conditions prevailed, but there was no extreme cold. In spite of the small R it was curiously damp. Mean temp. 37°·7.—*Blakeney*. Remarkable for the small R, the total being .86 in. below the average of 10 years.

V. SOUTH WESTERN COUNTIES.—*Bishops Cannings*. R 1·50 in. and rain days 6 below the average.—*Ashburton, Druid House*. R 3·16 in. below the average of 40 years.—*Tavistock, Whitchurch*. Dry and rather cold. R less than half the average. The mean daily temp. varied from 45°·5 on 6th to 32°·5 on 22nd. N.W. winds were most frequent. S on 4 and H on 3 days.—*Christow, Kennick*. R 1·95 in. below the average of 21 years.—*Crewkerne*. Unusually dry. Very mild in the early part, but on the whole about normal temp.—*Harptree Court*. R only .99 in. ; the driest January since the record started.

VI. WEST MIDLAND COUNTIES.—*Stoke Bishop*. A month of extremes ; very warm at first, afterwards cold. Extraordinarily small R and high bar.—*Cirencester*. Mild till 12th, then frost every night till 30th. There were only 6 days without sunshine and it was unusually dry. R 2·00 in. below the average of 60 years.—*Bishops Castle*. The 1904 type of weather—droughts broken by violent short storms—prevailed. R 1·92 in. below the average of 10 years. All springs were very low.—*Mayfield House [Ashbourne]*. Mild at the beginning, but very cold from 12th to 20th, and mild again at the close. Several days of continuous bright sunshine.—*Rochford*. A very fine month. Sharp frosts from 13th to 25th. R 1·79 in. below the average.

VII. NORTH MIDLAND COUNTIES.—*Spilsby*. R 1·43 in. below the average of 10 years and the lowest recorded since 1875 except in 1880. — *Worksop, Hodsock Priory*. Dry and bright, with high pressure. Mild at first, frosty during the latter half, but with no severe cold.

VIII. NORTH WESTERN COUNTIES.—*Chatburn, Middlewood*. R 1·32 in. below the average of 16 years.—*Broughton-in-Furness*. The first 12 days were dull and showery, followed by two brilliantly

sunny days. Blizzard on 16th, but afterwards mild and dry, with a few frosty nights.

IX. YORKSHIRE.—*Upper Midhope*. Very stormy and changeable. Stormy on 16 days. R 2·25 in. below the average of 10 years.—*Middlesbrough, Ormesby*. Extremely dry, only ·36 in. of R falling. Lockwood Beck Reservoir was never known to be so low before, and anxiety was caused as to water supply for steam engines for mines.—*Hull*. With little exception very dull and cold, with light R. S on 1st and 16th, and H and sleet on 9th. Duration of sunshine 21·3 hours.

X. NORTHERN COUNTIES.—*Wearhead*. S in the early part, and hard frosts with fog from 11th onward.—*Ilderton*. Remarkable for the light R. The weather was bright and fine, with strong winds and little frost.

XI. WALES.—*Llandudno*. Open and mild, and vegetation much advanced. S on 16th, followed by frost, which soon gave way.

SCOTLAND.

XIII. SOUTH EASTERN COUNTIES.—*Musselburgh, Levenhall*. Very dry, with a great deal of wind; chiefly S. and S.W. till 11th, from 14th to 18th S.E., and S. and S.W. again from 25th. Mean temp. 36°·9.

XVI. EAST MIDLAND COUNTIES.—*St. Andrews*. Unusually fine, mild and dry, with many pleasant sunny days. High winds prevailed, and the 16th was cold and stormy.—*Dundee, Balruddery*. Exceedingly dry, with a great deal of strong wind and not much frost. Duration of sunshine 55·3 hours.—*Kirriemuir, Eskhill*. Fine generally. Mean temp. 36°·6.

XIX. NORTHERN COUNTIES.—*Altnaharra*. Exceptionally severe and continuous storms and heavy falls of S, which heavy R prevented from lying long.—*Bettyhill*. Frequent gales.

IRELAND.

XX. MUNSTER.—*Charleville Park*. Except from 10th to 17th, the weather was balmy and springlike. Spring flowers were blossoming and growth was generally forward.—*Nenagh, Castle Lough*. The first part was wet, and the whole of the month very mild with scarcely any frost. Thrushes were singing continuously.

XXI. LEINSTER.—*Ballybrack*. Singularly fine, with warmth and sunshine. R ·11 in. below the average of 20 years.—*Rathmines*. Another of the long succession of mild Januaries, the mean temp.

being $41^{\circ}7$. There was practically no frost, but the temp. exceeded 50° on four days only. R and rain days below the average. No T, L or H and hardly any fog. A winter month only in name.

XXIII. ULSTER.—*Banbridge, Milltown*. R $\cdot 63$ in. below the average of 40 years.

FEBRUARY.*

ENGLAND AND WALES.

I. LONDON.—*Fulham, Edith Road*. Dry and warm. R less than half the average and temp. $3^{\circ}3$ above the average.—*St. Pancras, Camden Square*. Mild and dry; showery in the latter half. There was a notable absence of frost. Duration of sunshine $68\cdot 1$ hours, and of R $22\cdot 4$ hours. Mean temp. $42^{\circ}2$, or $2^{\circ}4$ above the average.

II. SOUTH EASTERN COUNTIES.—*Abinger Hall*. Mild and dry; excellent for all out-door work. R was much needed in some places.—*Caterham Valley*. Sunshine was very irregular, and N. and N.W. winds were frequent. Cold N.E. winds prevailed during the last ten days. Frost on 10 nights.—*Epsom*. Fairly fine, but no absolutely cloudless day, although only 5 were totally overcast. Mean temp. $41^{\circ}6$. Gales on 3 days, S on 3, and H on one day.—*Wallington*. R $\cdot 39$ in. below, and rainy days 3 above, the average. Mean temp. $42^{\circ}3$, being $3^{\circ}9$ above the average of 15 years. Duration of sunshine $85\cdot 1$ hours, or $23\cdot 0$ hours above the average.—*Tilmanstone*. Mild and dry with no S and not much hard frost.—*Lewes, Saxonbury*. A dry, calm month. Partial drought from January 16th to February 25th.—*Crowborough, Beechcroft*. Fine, dry and quiet for the first three weeks, followed by cold and boisterous winds accompanied by falls of S and R and some fog. Mean temp. 40° .—*Christchurch*. Mild and pleasant, with only $\cdot 86$ in. of R. Frost towards the close. Spring flowers abundant.—*Emsworth*. R $1\cdot 19$ in. below the average of 21 years.—*West Dean*. Remarkably fine and warm, with high bar., brilliant sunshine and almost entire absence of wind.—*East Garston*. Very fine, but with a serious shortage of R.—*Wantage, Ardington*. Extraordinarily mild and dry till 19th; then cold. Water famine threatened unless relieved by heavy R, wells and streams being very low.

III. SOUTH MIDLAND COUNTIES.—*Muswell Hill*. R $1\cdot 09$ in. below the average of 29 years.—*Harrow Weald*. R $\cdot 68$ in. below the average of 15 years.—*St. Albans*. Exceedingly mild, the mean temp.

* See also *Met. Mag.* March, 1905, pp. 26, 38.

being more than 4° above the average, and with little, though frequent R.—*Slough, Upton*. R about half the usual amount, and sunshine 50 per cent. above the average.—*Farnham Royal*. Very dry. On the 6th a period of 21 days with only $\cdot 07$ in. of R ended.—*Culham*. Very dry; the continued drought becoming serious as regards water supply.

IV. EASTERN COUNTIES.—*Copdock*. Mean temp. $40^{\circ}\cdot 2$. Vegetation was a little more forward than usual. Duration of sunshine 93·7 hours.—*Burgh Castle*. Changeable weather and heavy fogs with, as in January, serious deficiency of R.

V. SOUTH WESTERN COUNTIES.—*Bishops Cannings*. R 1·51 in., and rainy days 1, below the average.—*Ashburton, Druid House*. R 3·09 in. below the average of 40 years.—*Tavistock, Whitchurch*. Showery, with about average temp. and high bar. R about half the average. The daily mean temp. varied from $47^{\circ}\cdot 0$ on 14th to $34^{\circ}\cdot 2$ on 23rd. N.W. and W. winds were most prevalent. S on 7 days and H on 7.—*Christow, Kennick*. R 1·88 in. below the average of 21 years.

VI. WEST MIDLAND COUNTIES.—*Stroud*. Want of water was felt in many villages in the neighbourhood.—*Cirencester, Further Barton*. Dull, damp, mild and windy till 19th, then, after a hard gale till the evening of the 23rd, cold and rough to the end. Although R or S fell on 25 days, it was only measurable on 13 and the total was 1·17 in. below the average of 60 years.—*Bishops Castle*. The first part was dry and warm, but from 19th to the end S and H showers were frequent with strong N. and N.E. winds.—*Mayfield House* [*Ashbourne*]. Although frequent the R was small until the last four days. Temp. throughout very changeable, but a large amount of sunshine. S on 11th, 19th and at the end.—*Rochford*. R 1·13 in. below the average.

VII.—NORTH MIDLAND COUNTIES.—*Grimsby*. Generally fine and clear, with no fogs and much sunshine.—*Nottingham*. Mild on the whole, except in the last week, with fairly frequent but light R. Quiet, but no fog; little frost or S.—*Worksop, Hodsock Priory*. Mild and windy, but very dry, being the sixth dry month in succession.

VIII. NORTH WESTERN COUNTIES.—*Chatburn, Middlewood*. R $\cdot 67$ in. below the average of 16 years.

IX. YORKSHIRE.—*Hull*. Frequently dull with cold nights, but with bright intervals. Moderate R. Duration of sunshine 52 hours.—*East Layton Hall*. The early part was mild and springlike, a few

days being like summer. Colder and damper towards the end. R was much needed, as springs were never known so low at the time of year.

XI. WALES. *Llanfrechfa Grange*. Very little R, which was much wanted. Mild on the whole, but low temp. from 19th. Vegetation forward.—*Gogerddan*. Wet and mild with very little frost. Rough N.W. and E. winds in the latter part and a few H storms.—*Towyn*. On the whole fair, with small R but many rainy days. Mean temp. 42°·5. T on 27th.

SCOTLAND.

XII. SOUTHERN COUNTIES. — *Clenerie*. Seasonable throughout except the last three days, which were very stormy, with a good deal of S on the hills.

XIII. SOUTH EASTERN COUNTIES.—*Musselburgh*. Up to 20th bright on the whole, but colder and dull from 21st. The wind was high and variable throughout. Mean temp. 38°·1.

XVI. EAST MIDLAND COUNTIES.—*St. Andrews*. Fine, dry and rather windy, with many pleasant sunny days. R was badly wanted for the water supply, and during the early part of the month farmers complained that the ground was too dry to plough.

XVII. NORTH EASTERN COUNTIES.—*Crathes*. On the whole fine, and R still very deficient. Springs were low and many quite dry. Duration of sunshine 91·1 hours. S on 11 days.—*Aberdeen, Cranford*. Mild, with westerly winds and very little S or frost.

XVIII. NORTH WESTERN COUNTIES.—*Inverpolly Lodge*. From 1st to 7th wet and stormy, 8th and 9th mild, from 10th to 20th windy and wet, from 22nd to 25th calm and frosty, and from 26th to the end wet and cold.

IRELAND.

XX. MUNSTER.—*Cork*. R 2·02 in. below the average. Mean temp. 41°·6.

XXI. LEINSTER.—*Castledermot*. Fine and mild except on the last five days, which were cold with occasional S.—*Ballybrack*. Singularly fine, mild and dry. Colder in the last 10 days. R 1·56 in. below the average of 20 years.—*Rathmines*. Remarkably quiet and mild until 18th, with persistently high bar. Then after a sudden fall of temp. it remained cold and harsh, at first dry with N. and E. winds, then rough and showery with N.W. winds and moderate gales. Mean temp. 41°·4, or slightly above the average. Complete absence of fog.

MARCH.*

ENGLAND AND WALES.

I. LONDON.—*Fulham, Edith Road.* Wet, warm and unsettled, with R 1·32 in. above the average and temp. 3°·5 above the average.—*St. Pancras, Camden Square.* Unsettled and rainy weather prevailed until 17th, with slight frosts on the first few days, and rough S. to W. winds during the second week. On 19th a change to more genial conditions took place and the latter part of the month was on the whole fine and dry. Duration of sunshine 86·0 hours and of R 67·0 hours. Mean temp. 45°·2, or 3°·1 above the average.

II. SOUTH EASTERN COUNTIES.—*Wallington.* R 1·40 in. above the average. Duration of sunshine 141·4 hours, being 26·4 hours above the average.—*Tilmanstone.* Mild and wet, with a good deal of wind.—*Lewes, Saxonbury.* Wet and mild, with the heaviest R since 1888. The Winterbourne stream began to flow on 15th.—*Crowborough, Beechcroft.* The first fortnight was unsettled, with much R and gales and boisterous winds; the second half was dry and quiet, with much bright sunshine. Mean temp. 43°·0.—*Totland Bay.* The wettest March during 19 years' observations. Humidity and sunshine about the average.—*Christchurch.* A wet, stormy month, with 4·18 in. of R and low temp. Gales, succeeded by fine, mild spring weather at the end of the month. Complete sunshine on 4 days and partial on 21.—*West Dean.* Warm and stormy, with an almost entire absence of E. or N. winds. R and temp. both much above the average. TSS and H on 4 days.—*Wantage, Ardington.* Wet and generally mild, with much wind, especially from 9th to 16th.

III. SOUTH MIDLAND COUNTIES.—*Muswell Hill.* R 1·90 in. above the average of 29 years.—*Harrow Weald.* R 1·37 in. above the average of 15 years.—*St. Albans.* Very mild, the mean temp. being more than 3° above the average, and wet, with R daily from 7th to 18th amounting to 2·84 in.—*Oxford.* Wet and stormy in the first half. Mild after the first few days.—*Pitsford.* The first part was wet, the latter fine and warm. R ·65 in. above the average. Mean temp. 44°·0.

IV. EASTERN COUNTIES.—*Copdock.* An odd month, combining a large number of wet days and R above the average with as much as 162 hours of sunshine. The temp. was considerably above the average and there was little frost, but no high maxima. The month was free from the usual E. winds. Flowers were forward, but hedges and trees

* See also *Met. Mag.*, April, 1905, p. 58.

late.—*Brundall*. A fine growing time and vegetation much earlier than in 1904, but not so early as in 1903. No S. Mean temp. $4^{\circ}5$ above the average.

V. SOUTH WESTERN COUNTIES.—*Bishops Cannings*. R 2·47 in., and rain days 6, above the average.—*Winterbourne Steepleton*. The wettest March since the record began in 1893. Mean temp. $2^{\circ}0$ above the average of 12 years.—*Ashburton, Druid House*. R 5·14 in. above the average of 40 years, and the largest in that period.—*Tavistock, Whitchurch*. Warm, damp and very wet, the R being more than double the average and the greatest in March for at least 34 years. In 15 days ending on 18th 7·12 in. fell, of which 5·80 in. fell in 7 days from 8th to 14th. The daily mean temp. varied from $37^{\circ}9$ on 1st to $51^{\circ}5$ on 21st. S.W. winds were most prevalent.—*Christow, Kennick*. R 2·58 in. above the average of 21 years.—*Crewkerne*. Wind chiefly W., only S.E. for a few days, but total absence of the usual E. winds. Mean temp. $45^{\circ}9$.

VI. WEST MIDLAND COUNTIES.—*Stoke Bishop*. A warm month with excessive R, heavy winds, much H, many TSS and sunshine much above the average.—*Cirencester, Further Barton*. Wet and unsettled throughout except from 19th to 22nd, and exceedingly wild and rough from 10th to 16th. R 2·50 in. above the average of 60 years.—*Mayfield House [Ashbourne]*. Wet and stormy, 21 consecutive rain days ending on 17th. Very strong winds at the beginning. Fairly mild, being coldest at the beginning, about the 20th and at the close.—*Rochford*. A stormy month with fine and bright intervals. R 1·73 in. above the average.

VII. NORTH MIDLAND COUNTIES.—*Nottingham*. Mild, wet and sunny, with practically no frost and no S. Very rough at times. Fine and summerlike from 18th to 24th.—*Worksop, Hodsock Priory*. A showery month and very mild, especially in the daytime. Vegetation forward.

VIII. NORTH WESTERN COUNTIES.—*Southport*. Characterised by an unusual prevalence of S.W. winds. Very mild and sunny, but rather wet. Duration of sunshine 34 hours above the average and R ·83 in. above the average. Mean temp. $2^{\circ}9$ above the average. Underground water level again unprecedentedly low.—*Chatburn, Middlewood*. R ·33 in. below the average of 16 years.—*Broughton-in-Furness*. A mild month, the mean temp. being $1^{\circ}0$ above the average. More W. wind and less E. than usual. R ·74 in. below, and rain days 4 above, the average of 10 years.

IX. YORKSHIRE.—*Upper Midhope*. Mild, wet and open.—*Goldsborough Hall*. Dull and unsettled from 1st to 17th, with R on every day but one during that time. From 17th to 23rd was fine, from 23rd to 28th showery, then fine to the end.

X. NORTHERN COUNTIES.—*Natland Vicarage*. Continuously wet except during the week ending on 23rd. Even then the ground continued cold and damp, making agriculture and horticulture behind-hand. There were no severe frosts.

XI. WALES.—*Llanfrechfa Grange*. Unusually wet and mild, with great prevalence of S.W. wind.—*Carmarthen*. Generally cold, wet and stormy. Vegetation retarded.—*Gogerddan*. Fearfully wet, but not cold and little frost. S. and S.W. winds.

SCOTLAND.

XII. SOUTHERN COUNTIES.—*Cargen [Dumfries]*. Wet, windy and unpleasant. Agricultural operations were seriously hindered. An unusual number of TSS.

XIII. SOUTH EASTERN COUNTIES.—*Musselburgh*. Till 18th and after 28th there was almost constant high wind, and on 14th and 15th a gale from S.S.E. Mean temp. 41°·1.

XV. WEST MIDLAND COUNTIES.—*Furnace*. Remarkable for the number of days on which R fell, there being only 4 dry days.—*Mull, Quinish*. Farm work was at a standstill, owing to the wet ground.

XVI. EAST MIDLAND COUNTIES.—*St. Andrews*. An unusually pleasant March, with many sunny days. Much less frost than usual. High cold winds during the last week.

XIX. NORTHERN COUNTIES.—*Dunrobin Castle*. Mostly mild weather, with more than average R.—*Watten*. Cloudy and wet, with gales and mild intervals. Very changeable and much too wet for seed time.

IRELAND.

XXI. LEINSTER.—*Ballybrack*. R 1·36 in. above the average of 20 years.—*Rathmines*. Very changeable, with all varieties of weather and R above the average. The amount of sunshine was large, however, and practically no frost occurred, so that vegetation made rapid progress. Very little E. wind.—*Ballymahon*. A very wet March, with not a "peck of March dust" in the whole of it.

XXIII. ULSTER.—*Banbridge, Milltown*. R 1·36 in. above the average of 40 years.—*Belfast, Springfield*. An unfavourable month for the farmer, leaving a heavy task for April.

APRIL.*

ENGLAND AND WALES.

I. LONDON.—*Fulham, Edith Road.* A month of exactly average temp. and R, with no extremes.—*St. Pancras, Camden Square.* Typical April weather, with frequent changes and no period of settled conditions. There was a spell of cold N. and E. winds from 16th, lasting more or less till 25th, with low temp. and only slight R. Duration of sunshine 91·3 hours and of R 57·3 hours. Mean temp. 47°·6, or 0°·5 below the average.

II. SOUTH EASTERN COUNTIES.—*Epsom.* Fine, but rather cloudy, the average amount being 7·3. Cold N. to E. winds were experienced from 16th to 22nd. S on 4 days and fog on 3rd.—*Wallington.* Mean temp. 47°·2, or 0°·1 below the average of 15 years. Duration of sunshine 114·7 hours, being 45·2 hours below the average. It was the cloudiest April in 20 years and the windiest since 1889.—*Lewes, Saxonbury.* Mild and showery to 16th, then cold with N.E. winds till 22nd and afterwards mild and showery again.—*Bolney.* Cold and stormy with little sun.—*Crowborough, Steel Cross House.* Not a normal month. Although there was an absence of severe frost, the temp. was generally low and vegetation was somewhat retarded.—*Christchurch.* Not a pleasant month, being windy, dusty and cloudy. There were only 3 days with bright sunshine throughout and 13 partially bright. Frost on 8th and 9th, and again from 22nd to 25th.—*Emsworth.* Violent winds and variable temp. Vegetation and bird-life were backward.—*West Dean.* Generally cold and stormy, with low max. temp. and severe grass frosts. R ·25 in. below the average. Heavy gales on 5 days.—*Maidenhead.* From 1st to 21st it was overcast and gloomy, with squalls and R. The weather improved from 22nd, but with strong gale and storm at the end. TS on 16th.—*Wantage, Ardington.* Very cold till 26th; then mild with high S.W. wind, culminating in a S.W. gale on 29th and 30th.

III. SOUTH MIDLAND COUNTIES.—*Muswell Hill.* R ·54 in. above the average of 29 years.—*Kensworth.* Cold, wet and windy. Springs still sinking.—*Oxford.* Cold and rather wet, with many rainy days. Vegetation was well advanced at the beginning, but retarded by cold winds after the middle. Mean temp. 44°·6, being 0°·1 lower than in March.—*Pitsford.* R ·20 in. below the average. Mean temp. 45°·7.

IV. EASTERN COUNTIES.—*Colchester, Lexden.* Unsettled and cold,

* See also *Met. Mag.*, May, 1905, pp. 68, 74.

with N. or E. winds prevailing. Mild from 11th to 13th and for the last week.—*Copdock*. A most unpleasant April, cold, wet and dull, with a great deal of northerly and easterly wind. Vegetation was retarded, although there was no frost severe enough to do much damage. Mean temp. $45^{\circ}\cdot9$, or only $0^{\circ}\cdot8$ above that for March. Duration of sunshine 140 hours against 162 in March.—*Bury St. Edmunds, Westley*. Wet till 11th; afterwards R on many days in small quantities. Cold from 15th to 26th, but without frost.—*Burgh Castle*. Ungenial, with great and frequent changes of temp.

V. SOUTH WESTERN COUNTIES.—*Bishops Cannings*. R 1·24 in., and rain days 4, above the average.—*Ashburton, Druid House*. R ·67 in. above the average of 40 years.—*Tavistock, Whitchurch*. Damp, cloudy and rather wet and cold. The daily mean temp. varied from $51^{\circ}\cdot6$ on 13th to $39^{\circ}\cdot6$ on 19th. S.W. winds were most prevalent.—*Christow, Kennick*. R 1·32 in. above the average of 21 years.—*Wellington*. The first half was wet and the total R about half-an-inch above the average. Temp. generally low.

VI. WEST MIDLAND COUNTIES. — *Cirencester, Further Barton*. Remarkably sunless and unpleasant, with scarcely one genial day. Vegetation was much retarded and few spring migratory birds were in evidence. R ·66 in. above the average of 60 years.—*Bishops Castle*. The R was slightly, and the number of rain days greatly, above the average. The temp. was below the average.—*Rochford*. Cold, unsettled and stormy. R ·76 in. above the average.

VII. NORTH MIDLAND COUNTIES.—*Nottingham*. Cold and ungenial with frequent R and sleet, the total fall being a little below the average.—*Workshop, Hodsock Priory*. Cloudy and showery, with mild nights but no warm days.

VIII. NORTH WESTERN COUNTIES. — *Chatburn, Middlewood*. R 1·00 in. above the average of 16 years.—*Broughton-in-Furness*. The first half was showery, with some heavy R. After S on 7th and severe frost on 8th, the showery weather ended with a violent TS on 14th. Fine, cold weather followed with strong E. winds, and the last five days were very wet. It was the wettest April since 1872 and the first month to exceed the average since July, 1904.

X. NORTHERN COUNTIES.—*Wearhead*. Very cold, with E. and N.E. winds, S, sleet and H.—*Eskdale, Beckfoot*. Dry and cold for the most part, without much R till near the end.

XI. WALES.—*Carmarthen*. Cold, dull and gloomy. The last six days were very wet.—*Aberystwyth*. Cold and sunless. Very wet at the beginning and end. Little growth took place.

SCOTLAND.

XII. SOUTHERN COUNTIES.—*Cargen [Dumfries]*. Dry, cold E. winds, lasting from 15th to 25th, severely checked vegetation, which until the former date was decidedly forward. Heavy R came most opportunely at the close.—*Langholm*. R 1·62 in. above the average of 29 years.

XIII. SOUTH EASTERN COUNTIES.—*Musselburgh*. Unseasonable, with cold winds and little sunshine. N. and E. winds were prevalent and there was a good deal of mist, but hardly any brilliant sunshine. Mean temp. 42°·9.

XVI. EAST MIDLAND COUNTIES.—*St. Andrews*. A disagreeable month with cold winds, not much sun and backward vegetation.—*Dundee, Balruddery*. Cold and backward. Duration of sunshine 137·2 hours.

XVII. NORTH EASTERN COUNTIES.—*Aberdeen, Cranford*. Wet and cold. From 5th to 8th S and severe frost did much harm to spring flowers.—*Lynturk Manse*. Wet and, till near the end, cold. Spring work was much delayed.

XIX. NORTHERN COUNTIES.—*Altnaharra*. Very cold throughout, with bright, warm days occasionally. The heaviest S of the year took place in the first half.

IRELAND.

XX. MUNSTER.—*Cork*. Changeable, and more remarkable for showers than sunshine. R ·30 in. above the average. Mean temp. 46°·4, or 1°·5 below the average.

XXI. LEINSTER.—*Ballybrack*. Damp and cold, retarding vegetation. R ·60 in. above the average of 20 years.—*Rathmines*. Cold, wet, cloudy and generally unpleasant. The temp. never reached 60°, and on no fewer than 11 days it failed to reach 50°, the mean max. being 0°·6 lower than that of March. There were sharp frosts on the first 10 days, and bitterly cold N.E. winds with H, S and sleet in the third week.

XXIII. ULSTER.—*Banbridge, Milltown*. R ·50 in. above the average of 40 years.

MAY.*

ENGLAND AND WALES.

I. LONDON.—*Fulham, Edith Road*. A dry and sunny month, nearly all the R falling on the last two days. Temp. slightly above the

See also *Met. Mag.*, June, 1905, pp. 77, 81-83, 94.

average.—*St. Pancras, Camden Square.* Particularly fine and pleasant. R fell on the first three and the last two days, leaving the remainder of the month practically rainless. Duration of sunshine 222·2 hours, and of R 10·0 hours. Mean temp. 55°·1, or 1°·1 above the average.

II. SOUTH EASTERN COUNTIES.—*Epsom.* Very fine, the mean amount of cloud being only 3·6. Prevailing winds N. and N.E. Mean temp. 53°·1.—*Wallington.* The mean max., 65°·0, and mean temp., 54°·1, were the highest since 1895, whilst the hourly wind force 2·8, and the duration of sunshine, 257·9 hours, were the highest on record. There was a fair show of all fruit except pears.—*Tilmanstone.* Cold on the whole, with a good deal of N.E. wind all the first half. The last week was hot and fine.—*Lewes, Saxonbury.* Cold and dry, but warm after 24th. Absolute drought for 15 days from 17th, and partial drought for 29 days from 3rd.—*Magham Down.* Cold though sunny, with N.E. wind until 24th, when warmer weather set in.—*Crowborough, Beechcroft.* Fine and dry, with variable temp. and small R. Mean temp. 52°·0.—*Totland Bay.* Unusual dryness and a large amount of bright sunshine. Cool nights and warm days, with wind chiefly from N. and N.E.—*Ryde.* Beautiful warm weather with the exception of a cold spell from 21st to 23rd. A partial drought lasted from 2nd to 31st, only ·20 in. of R falling on 30 days.—*Christchurch.* A dry, cold, breezy month, with strong N. winds, with only ·37 in. of R on 5 days. Amount of sunshine considerable, there being only 2 cloudy days, and very hot sun, which was, however, greatly discounted by the sharpness of the wind. The usual disastrous frosts were absent, and the close of the month was delightfully warm.—*West Dean.* Dry and very cold, with temp. below the average almost every day till the 27th, and R much below the average. The cold spell from 22nd to 25th wrought tremendous damage to vegetation.—*East Garston.* Very dry, with a great deal of cold N.E. and E. wind and some sharp frosts.—*Maidenhead.* From 2nd to 28th there were cold N.E. and E. winds with bright sunshine and very dry air.—*Wantage, Ardington.* Dry and cold till 23rd, with frosts on 22nd and 23rd which were disastrous to fruit and potatoes. Afterwards the temp. rose rapidly and became high for the season.

III. SOUTH MIDLAND COUNTIES.—*Muswell Hill.* R ·49 in. below the average of 29 years.—*Harrow Weald.* R ·76 in. below the average of 15 years.—*Watford, Weetwood.* Very dry. For the 25 days 4th to 28th only 0·12 in. of R fell, on 4 days.—*Farnham Royal.* Only 7 days with R and only 2 without sunshine. A very fine month, but late

frosts injured much of the bloom on fruit trees.—*Oxford*. Cold and dry on the whole, but characterised by great extremes of temp. within a short time.—*Blisworth*. Exceptionally dry, only .02 in. of R falling from 2nd to 29th. There was much cold N.E. wind and dust. Much needed R came on 30th with T and L.—*Scaldwell*. R .19 in. below the average of 14 years. Great damage was done by the long dry, cold winds and frosts, especially to the ash and oak trees; some of the former were apparently killed and many of them were much damaged, as the frost caught them just as the leaves were breaking out, the foliage generally of the ash trees being unusually poor. The oaks on the low-lying ground appeared to have their lower branches quite blasted and the young leaves killed, while the upper parts of the trees did not appear to be injured.

IV. EASTERN COUNTIES.—*Copdock*. A brilliant month with 254.5 hours of sunshine. Northerly winds throughout except on 3 or 4 days. R was much wanted and vegetation showed signs of being sadly parched. Mean temp. 52°·3.—*Burgh Castle*. After two wet days the month proved unusually dry. Some frosts and cold winds cut down the prospects of fruit, and it was a trying month for crops generally.

V. SOUTH WESTERN COUNTIES.—*Bishops Cannings*. R 1.34 in., and rain days 6.5, below the average.—*Langley Burrell*. R only .10 in. The driest month ever recorded.—*Ashburton, Druid House*. R 1.81 in. below the average of 40 years.—*Tavistock, Whitchurch*. Fine, sunny and very dry, with high bar. and average temp., but great daily range. The R was only about one-third of the average and the least in any month since July, 1898. The daily mean temp. ranged from 43°·3 on 3rd to 59°·6 on 20th. Max. temp. at or above 70° on one day only. N.E. to N.W. winds were the most prevalent.—*Christow, Kennick*. R 1.59 in. below the average of 21 years.—*Okehampton*. Rather cold and remarkably dry, 27 days being without R.—*Crewkerne*. A very dry month. The wind was mainly from N.W. to N.E. till towards the end, when it backed to W., and from 25th to 28th, when it was S.E. to S.W.—*Bridgwater*. Very dry, with absolute drought from 3rd to 30th and partial drought from May 1st to June 4th, inclusive.—*Harptree Court*. The lightest R registered for May, and, except in February, 1891, when there was no R, and April, 1893, when, as in this month, there was .11 in., the lightest since observations commenced in 1882.

VI. WEST MIDLAND COUNTIES. — *Cirencester, Further Barton*. Remarkably dry and very sunny and windy. The R, equally with

that of 1896, was the lowest in 60 years, being two inches below the average.—*Bishops Castle*. Cold and dry, with N. to E. winds from 4th to 25th. The R was the least since 1895, only .17 in. falling from 4th to 30th.—*Mayfield House* [*Ashbourne*]. Very dry, with absolute drought from 15th to 30th. There was a spell of continuous N.E. winds from 13th to 22nd, when the direction shifted to S.W.—*Worcester, Boughton*. Exceptionally dry, with absolute drought for 19 days from 12th. The cold night winds of the first three weeks, coupled with the almost total absence of R, had a bad effect on vegetation, and the sharp frosts of 21st and 22nd did much harm. There was an exceptional amount of sunshine and great daily range of temp.—*Rochford*. Remarkably dry, but cold and unseasonable. R 1.50 in. below the average.—*Bedworth*. The driest month since July, 1897.

VII. NORTH MIDLAND COUNTIES.—*Grimby*. Dry, with much sunshine. There was an exceptionally cold snap with keen N. to N.E. winds from 15th to 22nd.—*Nottingham*. Dry and sunny, with cold nights but generally warm days.—*Worksop, Hodsock Priory*. Very dry, with a cold snap in the third week and a few warm days near the end. A sharp frost on the 23rd did much damage. R less than in any of previous 30 years.

VIII. NORTH WESTERN COUNTIES.—*Macclesfield*. R was 1.57 in. below the average and the lowest in May, with three exceptions, since 1850.—*Chatburn, Middlewood*. R 1.96 in. below the average of 16 years, and equally with that of May, 1896, the least in that period.

IX. YORKSHIRE—*Hull*. Apart from low night temp. in the early part and severe frost on 22nd, fine weather prevailed, with small R. Duration of sunshine 135 hours.—*East Layton Hall*. May “blew both hot and cold,” having some very cold N. winds, reaching a storm about 21st, whilst on 28th summer-like weather prevailed.—*Middlesbrough*. A seasonable month with small R, and night frosts at the beginning and end with N.E. and E. winds.

X. NORTHERN COUNTIES.—*West Hartlepool*. Moderately fine, with much N.E. to N.W. wind. Vegetation was backward. Mean temp. 50°.4.—*Wearhead*. The R was the least yet recorded in any month. It was dry, warm and sunny during the day, but cold and sometimes frosty at night.—*Eskdale, Beckfoot*. Bright sunshine on 27 days, with cold, dry wind as a rule and very little fog. No sharp frosts.

XI. WALES.—*Llanfrynach, Tymawr*. The smallest R for any month since May, 1896, when .24 in. fell on 6 days.

SCOTLAND.

XII. SOUTHERN COUNTIES.—*Cargen [Dumfries]*. Exceptionally dry, but a fall of 1·44 in. on 28th brought great relief to agriculturists, whose crops, both grain and green, were suffering severely from drought. The min. temp. was exceptionally high and there was only one frost in the screen.—*Clenerie*. Dry, fine and seasonable throughout, although there were some cold days.

XIII. SOUTH EASTERN COUNTIES.—*Musselburgh*. A dry month. Cold winds prevailed at the beginning and again from 19th to 23rd. There was a fair amount of sunshine. Mean temp. 51°·2.

XV. WEST MIDLAND COUNTIES.—*Inveraray*. The earlier and latter parts were cold, but there was a hot week from 14th to 21st. R followed and was very acceptable.

XVI. EAST MIDLAND COUNTIES.—*St. Andrews*. Unusually protracted drought, no R falling for 19 consecutive days. There were some cold winds, but fewer frosts than usual. Vegetation was well advanced.—*Dundee, Balruddery*. Very dry until the last week; then heavy TSS and H storms. Duration of sunshine 164·7 hours.

XIX. NORTHERN COUNTIES.—*Watten*. Dry, cloudy and cold, with northerly winds and some fine days.—*Castletown*. From 1st to 12th was cold, damp and sunless. Thence to 25th dry, with cloudy skies and warm, though foggy over the sea. The last few days were warm and wet.

IRELAND.

XX. MUNSTER.—*Miltown Malbay*. Fine, dry and sunny, with copious sunshine and night dews.

XXI. LEINSTER.—*Ballybrack*. R ·31 in. below the average of 20 years.—*Rathmines*. The finest and warmest May since 1896, many days resembling late June or July. Except for heavy R on 1st it would have been one of the driest Mays on record. No R from 11th to 24th, when brilliant sunshine prevailed with light E. winds. Cold snap from 20th to 22nd.

XXIII. ULSTER. — *Banbridge, Milltown*. R ·89 in. below the average of 40 years.

JUNE.*

ENGLAND AND WALES.

I. LONDON.—*Fulham, Edith Road*. The wettest month in 22 years, except June, 1903, the total fall being more than three times the

* See also *Met. Mag.*, July, 1905, pp. 101, 110.

average amount. The R was mostly of a thundery type, although there was only one slight TS. The temp. was on the whole normal, but the mean min., $54^{\circ}5$, was exceeded in 1896 only, by $0^{\circ}3$.—*St. Pancras, Camden Square*. In spite of the persistent heavy R of the first half and the last two days of the month, there was a considerable amount of pleasant weather and brilliant sunshine. It was, however, seldom hot, the shade temp. reaching 80° on two days only. Duration of sunshine 157.6 hours and of R 77.9 hours, the latter being 49.8 hours above the average. Mean temp. $61^{\circ}4$, or $1^{\circ}0$ above the average.

II. SOUTH EASTERN COUNTIES.—*Haslemere*. The wettest June on record, the previous wettest having 4.85 in. in 1903.—*Witley*. The first fortnight was very cold, with wind N.E. till 12th, when it became S.E., followed by 9 consecutive days' R.—*Abinger Hall*. The windows of heaven were truly opened and R fell in the kindest way, so that everyone was thankful. It added much to the hay crops, and potatoes were much improved.—*Bagshot*. The R delayed the hay-making at the close of the month. Many strawberries also were spoiled.—*Epsom*. Very wet, with only one cloudless day. There was a cold period from 5th to 11th, during which the max. temp. was only slightly above 50° . Mean temp. $60^{\circ}3$. N.E. winds were prevalent.—*Wallington*. R 3.99 in. above the average. Mean temp. $59^{\circ}5$, or $0^{\circ}3$ below the average. Duration of sunshine 165.9 hours, or 40.1 hours below the average. The relative humidity, 80 per cent., and the min. temp. on grass, $51^{\circ}0$, were the highest June values on record.—*Ulcombe*. Heavy R of a steady, soaking character, never torrential or in TSS, so that the land had the full benefit.—*Crowborough, Beechcroft*. R and gloom until 13th, after which bright weather generally prevailed until 28th, finishing with R and gloom again. Mean temp. $57^{\circ}5$.—*Crowborough, Steel Cross House*. The R came too late to promote growth of grass, but corn and other crops were benefited.—*Christchurch*. A bright, warm month. There were ten cloudy days and five of complete sunshine. It was not a very good Whitsuntide, being showery and cool. The hay harvest was up to average.—*West Dean*. Stormy and unsettled, with heavy R, the total being the highest in June for 15 years.—*Maidenhead*. Overcast, with heavy R from 1st to 18th. Bright and sunny from 20th to 28th, and heavy R again on the last two days.

III. SOUTH MIDLAND COUNTIES.—*Muswell Hill*. R 1.87 in. above the average.—*Harrow Weald*. R 1.08 in. above the average of 15 years.—*Watford*. Very wet, chiefly owing to heavy falls of R on 5th, 6th and 30th, accounting for more than half the total fall.—

Culham. Rather wet and unsettled. Cold at the beginning and warm during the last fortnight.—*Pitsford*. Warm and pleasant. R 1·39 in. above the average. Mean temp. 59°·1.

IV. EASTERN COUNTIES.—*Colchester, Lexden*. The first half was cool with variable R, but there were some hot and close days after 22nd. Easterly winds prevailed.—*Copdock*. A curious month, with even more R than June, 1903, and yet 213 hours of sunshine, while the mean temp. was 60°·3. There were no extreme temp. readings. R was badly needed, and though much came, it did no harm.

V. SOUTH WESTERN COUNTIES.—*Bishops Cannings*. R 1·85 in., and rain days 4, above the average.—*Ashburton, Druid House*. R 1·15 in. above the average of 40 years.—*Tavistock, Whitchurch*. Showery, damp and cloudy, with about average temp. and R slightly below the normal. The daily mean temp. varied from 50°·4 on 6th to 65°·7 on 26th. N.E. and S.E. winds were prevalent.—*Christow, Kennick*. R 1·42 in. above the average of 21 years.—*Crewkerne*. The first three weeks were wet and unsettled, but from 21st to 28th it was brilliantly fine and warm. Thence to the end it was sultry and close, with heavy R mainly at night. Mean temp. 60°·2.

VI. WEST MIDLAND COUNTIES.—*Cirencester, Further Barton*. The long drought ended on 5th, and it was squally with cold E. winds to 19th. Then, after soft R for two days, there was a spell of great heat to 29th, followed by heavy R on 30th.—*Ross*. There was a spell of gloomy and cold weather lasting for 80 hours, from 5th to 8th, a period unprecedented in June. The week ending on 19th and the last two days were wet, but it was otherwise a fine and enjoyable month.—*Bishops Castle*. The first part was cold and dull and the latter fine. N., N.E. or E. winds blew on 21 days. R normal.—*Worcester, Boughton Park*. Generally fine and warm, with a colder period between 5th and 10th. Welcome R fell on 6th and 16th and heavy R on 30th. The temp. was considerably above the average, reaching 80° on 7 days.—*Rochford*. Bright as a whole, with some very fine days and a great deal of E. wind. R ·72 in. above the average.

VII. NORTH MIDLAND COUNTIES.—*Grimsby*. An eccentric June, with the winds and temp. of March interspersed with beautiful summer weather.—*Nottingham*. Generally fine, sunny and warm, with much E. wind. It would have been very dry but for a fall of 1·71 in. on 17th.

VIII. NORTH WESTERN COUNTIES.—*Chatburn, Middlewood*. R 1·00 in. above the average of 16 years.—*Broughton-in-Furness*. Dry on the whole, nearly all the R falling on four days. Easterly winds prevailed

from 5th to 17th and from 23rd to 27th, the wind being westerly on the other days. No T or L.

IX. YORKSHIRE.—*Goldsborough Hall*. A dry month. Cold during the first half, with strong N. and F. winds from 8th to 14th.—*Hull, Pearson Park*. Some fine and occasionally hot weather with light R until near the end, when T, L and copious R fell. Duration of sunshine 177 hours.—*Middlesbrough*. Very fine and on the whole warm. Small R, with absolute drought for 15 days.

X. NORTHERN COUNTIES.—*West Hartlepool*. Continued dry, bright weather, with N., N.E. and N.W. winds and sea mists, with plenty of sunshine. The mean daily wind movement was 127·8 miles. Mean temp. 54°·9. Duration of sunshine 236·2 hours (Jordan).—*Wearhead*. Fine and warm throughout, with little or no wind. Heavy dews.

XI. WALES, &c.—*Towyn*. Remarkably dry, and, although the R from 11th to 13th improved the hay crops, a large number of grazing fields were badly scorched.—*Douglas*. With the exception of five days, from 16th to 20th, with very heavy R, it was both fine and warm. From 22nd to 27th was brilliantly fine and cloudless with unusually high temp., exceeding 70° each day. The amount of sunshine was much in excess of the average and R was wanted.

SCOTLAND.

XII. SOUTHERN COUNTIES.—*Cargen [Dumfries]*.—The high temp. and dryness were exceptional, and the latter proved serious to agriculturists.—*Clenerie*. Warm throughout and dry, except for TSS from 17th to 20th.

XIII. SOUTH EASTERN COUNTIES.—*Musselburgh*. The dry spell up to 19th, following the slight R of May, was felt severely by farmers. There was a great deal of sunshine, and at the same time cold N. and E. winds. Mean temp. 55°·8.

XV. WEST MIDLAND COUNTIES.—*Drimnin*. The driest month ever observed since the gauge was erected 14 years ago.

XVI. EAST MIDLAND COUNTIES.—*St. Andrews*. Much more E. wind and fog than usual. R was badly wanted.

XVII. NORTH EASTERN COUNTIES.—*Monymusk*. Very trying for crops, owing to want of R.

XVIII. NORTH WESTERN COUNTIES.—*Lochmaddy*. The driest and warmest month in the Outer Hebrides for many years.—*Inverpolly*. Exceptionally hot. Lochs and rivers were lower than for 25 years.

XIX. NORTHERN COUNTIES.—*Watten*. Dry, bright, mild and fine.

Notable for having only 6 rain days, very few for this district.—*Castletown*. Very dry throughout, with south-easterly winds. Considerable fog during the latter part.

IRELAND.

XXI. LEINSTER.—*Ballybrack*. The first week was dry, cold and ungenial; summerlike from 8th to 17th, showers from 18th to 20th. Fine haymaking weather from 21st to 27th; broken from 28th to 30th. R .50 in. below the average of 20 years.—*Rathmines*. After several cold and unseasonable Junes, this month was fine, summerlike and warm. The mean temp., $57^{\circ}7$, was the highest since 1900. Easterly winds were unusually prevalent. The first week was cold and harsh, but the third was remarkably brilliant with hot sun. Moderate R fell between 15th and 18th and was very useful, as the ground was in a parched condition. T on one day only.—*Killeagh*. The entire month was most unusually warm and dry.

XXIII. ULSTER. — *Banbridge, Milltown*. R .46 in. above the average of 40 years.

JULY.*

ENGLAND AND WALES.

I. LONDON.—*Fulham, Edith Road*. Very fine and dry. Temp. $3^{\circ}4$ above, and R 1.52 in. below, the average. Much sun and no excessive heat.—*St. Pancras, Camden Square*. Although the temp. at no time reached an abnormally high point, the most characteristic feature of the month was the marked heat. On every day the mean temp. was well above the average, and the mean for the month was as high as $67^{\circ}4$, exceeding the average by $4^{\circ}1$. This was exceeded in July on only four previous occasions since the record started in 1858, and in no other month; the mean min., $57^{\circ}7$, was only once exceeded, reaching $58^{\circ}4$ in July, 1859. Owing to the comparative absence of TSS, the R was considerably in defect. Duration of sunshine 214.8 hours, and of R only 10.2 hours.

II. SOUTH EASTERN COUNTIES. — *Bagshot*. Hay was gathered in good condition, but aftermath was scarce owing to lack of R, and vegetables suffered from the same cause.—*Caterham Valley*. The air was frequently sultry and close, but R did not fall and TSS passed over the district, except on 27th.—*Epsom*. Fine and warm. Max. temp. of 80° or above was recorded on 12 days, and on several nights

* See also *Met. Mag.*, August, 1905, p. 130.

the min. did not fall below 60°. Mean temp. 66°·7.—*Wallington*. Except in 1897 and 1899, the R was the lowest July value on record. Mean temp. 65°·8, or 3°·3 above the average. Duration of sunshine 245·2 hours, or 35·1 hours above the average.—*Sellinge*. Ideal summer weather prevailed throughout, being warm but seldom oppressive. Mean temp. 63°·3.—*Lewes, Saxonbury*. Dry, hot and calm, causing an early harvest, although previously it had promised to be late.—*Crowborough, Beechcroft*. Fine and dry, with many days of brilliant sunshine. Mean temp. 63°·6.—*Totland Bay*. The driest July yet recorded here, and with three exceptions the driest month. The mean max. temp., 70°·8, was the highest in July since 1887; the mean min., 57°·6, and the mean temp., 64°·2, were the highest ever recorded. Duration of sunshine just above the average.—*Christchurch*. A beautifully brilliant and hot summer month. Only 4 cloudy days. The R was trifling, amounting to only ·30 in., falling on 7 days. Grass burnt up.—*Maidenhead*. Hot and dry, with a large amount of bright sunshine.

III. SOUTH MIDLAND COUNTIES.—*Muswell Hill*. R 1·76 in. below the average of 29 years.—*St. Albans*. Very warm, the mean temp. being nearly 5° above the average, and with but little R.—*Oxford*. Hot and fine. There was a partial drought for 31 days with ·09 in., but no absolute drought.

IV. EASTERN COUNTIES.—*Copdock*. A wonderful month, but vegetation was sadly burnt up and water short everywhere. Curiously enough, there was no great amount of sunshine, but the mean temp., 66°·7, was the highest yet recorded. The mean max. was 77°·1, and the temp. rose over 80° on 11 days. Very light winds, the northerly type prevailing.—*Bury St. Edmunds, Westley*. The temp. exceeded 80° in the shade on 10 days and exceeded 71° on 30 days. The intense heat brought on the harvest very early.—*Burgh Castle*. The R was 1·84 in. below the average. Large trees and shrubs seemed likely to perish, and the harvest was premature, though fair, except in the case of fruit, which was scarce.

V. SOUTH WESTERN COUNTIES.—*Bishops Cannings*. R ·94 in., and rain days 3, below the average. The harvest was a full week earlier than usual.—*Ashburton, Druid House*. R 2·60 in. below the average of 40 years.—*Tavistock, Whitchurch*. Dry and rather warm and cloudy. The R was the least in any month since July, 1898, and only about a quarter of the average. The daily mean temp. varied from 69°·0 on 26th to 57°·1 on 29th, and the max. rose to or above 70° on 12

days. N.W. wind was most frequent.—*Christow, Kennick*. R 2·38 in. below the average of 21 years.

VI. WEST MIDLAND COUNTIES.—*Clifton, Stoke Bishop*. Hot and dry, with warm nights and a total absence of TSS.—*Cirencester, Further Barton*. A beautiful summer month, with dry, hot weather. R 2·16 in. below the average of 60 years.—*Mayfield House [Ashbourne]*. A fine summer month. W. winds nearly throughout, being easterly on 3 days only. Cold nights during the first week and at the end. Mean temp. 61°·3.

VII. NORTH MIDLAND COUNTIES. — *Spilsby*. R 1·41 in. below the average of 10 years, and the lowest recorded since 1875 except in 1885 and 1897.—*Grimsby*. Very hot and an almost ideal summer month. Nearly unbroken sunshine up to 21st.—*Nottingham*. Brilliantly fine and sunny, with sustained but not abnormal warmth.—*Worksop, Hodsock Priory*. Warm, bright and dry. Harvest was in full swing in the last week.

VIII. NORTH WESTERN COUNTIES.—*Chatburn, Middlewood*. R ·66 in. below the average of 16 years.—*Broughton-in-Furness*. Beautifully sunny, but without excessive heat. The wind was always westerly and never strong.

IX. YORKSHIRE.—*Goldsborough Hall*. During the first three weeks it was very hot and dry. The heaviest fall took place on 22nd, and from that date to the end it was cooler.—*Hull*. Fine weather generally, with hot periods and frequently sultry. Duration of sunshine 155 hours.

SCOTLAND.

XII. SOUTHERN COUNTIES.—*Cargen [Dumfries]*. Exceptionally dry and warm. There was great need of R for green crops; grain crops ripened too fast and were very light. Hay was light but well got in.

XIII. SOUTH EASTERN COUNTIES.—*Musselburgh*. Fine and warm, with a good deal of sunshine. From 13th strong S. and W. winds were general. Mean temp. 60°·7.

XVI. EAST MIDLAND COUNTIES.—*St. Andrews*. A pleasant month, and the warmest July for some years.

XIX. NORTHERN COUNTIES. — *Altnaharra*. Exceptionally fine throughout. R fell mostly in the morning or evening.

IRELAND.

XXI. LEINSTER.—*Ballybrack*. The heat was much greater than usual, but was tempered by pleasant breezes. R 1·80 in. below the

average of 20 years.—*Rathmines*. The driest July since the record commenced in 1882, but the number of rain days was above the average. The mean temp. was $62^{\circ}4$, and, but for a few cool days in the middle and end, it would have been the warmest July on record. The temp. exceeded 70° on 17 days, and, except that the amount of cloud was at times large, it was an ideal summer month. No T or L.

AUGUST.*

ENGLAND AND WALES.

I. LONDON.—*Fulham, Edith Road*. Wet and rather cool, with no hot days. R 1·11 in. above the average.—*St. Pancras, Camden Square*. Rather cool and cloudy. On no day did the max. temp. in shade reach 80° , but the mean temp., $61^{\circ}9$, was only $0^{\circ}2$ below the average. Sunshine was deficient, the total duration being only 148·4 hours. A feature of the month was the number of beautiful evenings, often following stormy days. Strong winds about the middle. Duration of R 40·1 hours.

II. SOUTH EASTERN COUNTIES.—*Bagshot*. Vegetation was much improved by the R, and little harvesting remained to be done at the close of the month.—*Sellinge*. Unsettled for the most part, with strong winds and low temp. Frequent TSS and heavy R showers, especially in the last week. Mean temp. $60^{\circ}3$.—*Crowborough, Steel Cross House*. A favourable month for the harvest, with heavy R towards the close which was much required and did good to root crops and gardens.—*Christchurch*. Unsettled at the beginning and end. The ground was too hard for the R of 2nd and 3rd to penetrate, and cellars were in danger of being flooded. T occurred on three occasions, but there was no bad storm. Gales in the middle and end of the month with showers. Eclipse of the sun on 30th was seen fairly well and could be watched through a telescope, the clouds allowing the passage of the moon over the sun-spots to be distinctly seen.—*West Dean*. Stormy, wet and cold throughout. The R was in excess, and the temp. much below the average, the max. and min. being both low.—*Maidenhead*, From 1st to 10th was showery, and from 11th to 17th bright. From 18th to the end it was again showery and squally with TSS, gales and heavy R.

III. SOUTH MIDLAND COUNTIES.—*Muswell Hill*. R ·20 in. above the average of 29 years.—*Harrow Weald*. R ·14 in. below the average of 15 years.—*Pitsford*. The early part was fine and favourable for

* See also *Met. Mag.*, September, 1905, pp. 142, 150.

the harvest, which was early, and in many places finished before the end of the month. R 1·15 in. above the average. Mean temp. 59°·2.

IV. EASTERN COUNTIES.—*Copdock*. A poor sort of August, but there was no R to alleviate the drought until after the end of the harvest. It was cold and sunless as a whole, with northerly winds. Duration of sunshine 177·8 hours. Mean temp. 60°·8.—*Brundall*. The mean temp. was equal to the average and there were no very hot days or cold nights.—*Blakeney*. For the greater part heavy gales prevailed, but at intervals there were hot and close days. The R of the last 4 days brought the total up to the normal amount.

V. SOUTH WESTERN COUNTIES.—*Ashburton, Druid House*. R·85 in. above the average of 40 years.—*Tavistock, Whitchurch*. Wet, cold and cloudy. The daily mean temp. varied from 62°·7 on 17th to 54°·1 on 22nd and 29th. S.W. and N.W. winds were most frequent.—*Christow, Kennick*. R 1·55 in. above the average of 21 years.—*Lynmouth*. A cold month and the wettest yet recorded.—*Crewkerne*. The first week was wet, nearly two inches of R falling from 8 p.m. on 2nd to 10.30 a.m. on 3rd. This was succeeded by about 10 days of fine harvest weather, but the remainder was unsettled and stormy.

VI. WEST MIDLAND COUNTIES.—*Clifton*. R·39 in. above the average.—*Cirencester, Further Barton*. Cool and unsettled throughout, and especially wet from 25th to 29th. R 1·50 in. above the average of 60 years.—*Bishops Castle*. Wet and cold, with the usual gales about 4th. Temp. much below the average. During the whole summer it was remarkable that there was not a single TS, but only occasionally distant L.—*Mayfield House [Ashbourne]*. A wet month, with a fine week from 10th to 16th.

VII. NORTH MIDLAND COUNTIES. — *Nottingham*. Cool and unsettled, but with a fair amount of sunshine. Mean temp. 1°·5 below the average. Wind mainly W. and S. — *Worksop, Hodsock Priory*. Showery, with normal temp. and sunshine, but no hot days.

VIII. NORTH WESTERN COUNTIES.—*Chatburn, Middlewood*. R·65 in. below the average of 16 years.—*Broughton-in-Furness*. Fine from 11th to 16th, but the rest was showery with no two fine days together. Cool on the whole, the mean temp. being 2°·0 below the average.

IX. YORKSHIRE.—*Hull*. Changeable, with frequent R and occasional storms but many bright intervals. Duration of sunshine 131·7 hours.

X. NORTHERN COUNTIES.—*Wearhead*. At first warm and sultry,

but with no T. Colder later, with N.W. wind and slight night frosts. Showery throughout.

XI. WALES.—*Carmarthen*. Wet and gloomy. As a rule the days were cold, with little or none of the usual hot weather.

SCOTLAND.

XII. SOUTHERN COUNTIES.—*Langholm*. R 0·79 in. above the average of 29 years.

XIII. SOUTH EASTERN COUNTIES.—*Musselburgh*. Usually variable or dull. There was constant high wind: at the beginning from S., in the middle from W., and towards the end from E. Mean temp. 56°·3.

XVI. EAST MIDLAND COUNTIES.—*St. Andrews*. Very unsettled. Crops were good and a fair amount of corn was cut, but the showery weather prevented much from being taken in.

IRELAND.

XXI. LEINSTER.—*Ballybrack*. R 3·82 in. above the average of 20 years and the greatest in any month in that period.—*Killiney, Cloneevin*. The R, 6·72 in. on 22 days, was the highest recorded in any month with the single exception of July, 1896.—*Rathmines*. The wettest month since the record commenced in 1882. The month was thoroughly unpleasant, being almost completely overcast, windy and cool. The temp. reached 70° on one day only and there were only two really fine days. The mean temp., 57°·1, was below the average, but was lower in 1902 and 1903.

SEPTEMBER.*

ENGLAND AND WALES.

I. LONDON.—*Fulham, Edith Road*. Rather dry and cool, the temp. reaching 70° on one day only.—*St. Pancras, Camden Square*. Varied weather until 11th, with not infrequent R, but no deficiency in sunshine. On 12th more settled conditions set in, with lower night temp. and much sunshine. The last week was dull and rainy, with greatly reduced range of temp. After the first 10 days of the month there was a conspicuous absence of wind movement. Duration of sunshine 104·1 hours, and of R 31·7 hours; of the latter 11·9 hours occurred on 25th. Mean temp. 57°·1, or 0°·6 below the average.

II. SOUTH EASTERN COUNTIES.—*Haslemere*. Fine and warm from 1st to 6th and dry from 12th to 20th. Moderate winds, southerly

* See also *Met. Mag.*, October, 1905, p. 170.

from 1st to 11th, then northerly to the end. R equal to the average. Mean temp. $53^{\circ}2$, or $2^{\circ}3$ below the average.—*Epsom*. Cloudy and cool; the day temp. as a rule was low and the night temp. subject to considerable fluctuation, varying from $60^{\circ}4$ on 6th to $34^{\circ}9$. From 14th N. and E. winds prevailed. Mean temp. $55^{\circ}8$.—*Wallington*. R $\cdot 43$ in., and rain days 7, above the average. Mean temp. $55^{\circ}6$, or $2^{\circ}2$ below the average. Duration of sunshine $114\cdot 2$ hours, being $46\cdot 0$ hours, or 13 per cent., below the average.—*Sellinge*. Unpleasant for the most part, with frequent R and prevalence of cold strong winds. There was, however, no frost to affect vegetation.—*Crowborough, Steel Cross House*. The month commenced with fine and seasonable weather, but from 5th to 11th $2\cdot 11$ in. of R fell. The remainder was fair on the whole but rather cool, the prevailing winds being from N. Dense mists were experienced on one or two days towards the close.—*Totland Bay*. Dull, with shortage of sunshine and of R, abundance of cloud, and dry atmosphere.—*Christchurch*. A bright fortnight in the middle of the month, but for the rest changeable and uncertain weather. Remarkably sudden storms sprang up on 3rd at 5 and 7 p.m. The temp. fell rapidly towards the close of the month and fires were required by 11th.—*Maidenhead*. Overcast and rainy till 13th; cold and dry, with N.E. and E. winds, from 14th to 21st, and overcast and gloomy, with R, from 22nd to 30th.

III. SOUTH MIDLAND COUNTIES.—*Muswell Hill*. R $\cdot 29$ in. below the average of 29 years.—*Culham*. Fine and dry on the whole, with moderate temp.

IV. EASTERN COUNTIES.—*Colchester, Lexden*. Mild and pleasant, though generally overcast except for some bright mornings. The wind was often easterly in the latter half. Frequent heavy dews.—*Copdock*. An uneventful month. There was no frost, but it was cold, the mean temp. being $56^{\circ}6$. On 5 days only did southerly wind occur. Cloudy weather prevailed and the duration of sunshine was only 129 hours.

V. SOUTH WESTERN COUNTIES.—*Bishops Cannings*. R $\cdot 90$ in., and rain days 2, below the average.—*Ashburton, Druid House*. R $1\cdot 71$ in. below the average of 40 years.—*Tavistock*. Cold and rather showery, but dry, the R being only about half the average. The temp. was very equable, the daily mean ranging from $61^{\circ}4$ on 3rd to $50^{\circ}3$ on 26th. N. wind was most common.—*Christow, Kennick*. R $\cdot 50$ in. below the average of 21 years.—*Crewkerne*. The weather was fine and dry after 9th, with light winds generally, but low temp. and little sunshine. Mean temp. $56^{\circ}1$.—*Wellington*. A beautiful autumn month, although

stormy and wet from 5th to 11th and cool at the close. R about $\cdot 60$ in. below the average.

VI. WEST MIDLAND COUNTIES.—*Clifton, Stoke Bishop*. The first week was wet and the remainder dry with unusually cold N.E. winds.—*Cirencester, Further Barton* Mild, wet and unsettled till 9th, then dry and unusually cold till the end. Trees assumed autumn tints fast.—*Bishops Castle*. Cool and dry. The R was below the average, no appreciable quantity falling after 9th. N.W. to N.E. and E. winds were prevalent, causing much cloud, and there was very little sunshine.—*Mayfield House [Ashbourne]*, The first fortnight was wet, with W. winds, and then the weather was fair, with E. winds, till the end, with occasional showers.

VII. NORTH MIDLAND COUNTIES.—*Grimsbly*. Fine, with light R, falling generally at night. There were strong winds at the beginning and end, but from 10th to 23rd bright, sunny weather.—*Worksop, Hodsock Priory*. Rather cool and dull, with a good deal of N.E. wind; showery at first and dry later.

VIII. NORTH WESTERN COUNTIES.—*Chatburn, Middlewood*. R $\cdot 10$ in. above the average of 16 years.—*Hampson-in-Ellel*. R fell daily from 1st to 9th, the total being $3\cdot 21$ in. Only 6 of the remaining 21 days had rain, and on them only $\cdot 26$ in. fell.—*Broughton-in-Furness*. The first half was showery on every day but two, but the latter half particularly fine and sunny with E. winds. Mean temp. nearly $2^{\circ}0$ above the average. No frost.

IX. YORKSHIRE.—*Upper Midhope*. From 1st to 10th it was stormy and showery and at times wet; from 11th to 26th very fine, and from 27th to 30th unsettled. Fog occurred on 11 days and during 8 nights.—*Goldsborough Hall*. Showery and unsettled during the early part, but from 11th to 21st fine and dry. Thereafter dull and showery.

X. NORTHERN COUNTIES.—*Wearhead*. Showery, with wind varying from N. to E. Very cold, with night frosts.

XI. WALES, &c.—*Towyn*. Rainy till 14th, and dry and cold from 15th to 29th. Cold easterly winds from 18th to end.—*Douglas, Woodville*. The R was below the average and practically all fell in the first 12 days. The remainder was dry, somewhat cold and good harvest weather.

SCOTLAND.

XII. SOUTHERN COUNTIES.—*Clenerie*. The first half was rather wet, but the latter was all that could be desired for harvest work.

XIII. SOUTH EASTERN COUNTIES.—*Musselburgh*. Up to 25th there was a fair amount of sunshine, but from 25th to 30th the days were dull, with a good deal of R. For the first half the wind blew chiefly from S.W. and S., after 21st from E. and N.E., and on 30th N.W.

XIX. NORTHERN COUNTIES.—*Bettyhill*. There was a considerable amount of R, which, however, was dried up by the constant breezes and thus did not harm the crops.—*Castletown*. The first few days were wet, but on the whole there was good harvesting weather.

IRELAND.

XXI. LEINSTER.—*Ballybrack*. Fine, but dull and cool. R 1·27 in. below the average of 20 years.—*Rathmines*. Fair and dry, but thoroughly autumnal. The mean temp., 52°·6, was the lowest since 1894. The uniformity of max. temp. from 14th to 27th was remarkable, the range being from 60°·6 to 56°·8; the min., on the contrary, varied excessively. A rather unusual feature was the prevalence of strong N.E. winds in the last week.

OCTOBER.*

ENGLAND AND WALES.

I. LONDON.—*Fulham, Edith Road*. Singularly fine, with many sunny days. Very cold, the mean temp. being 3°·5 below the average. R 1·44 in. below the average; nearly all of this fell on the last four days.—*St. Pancras, Camden Square*. Fine as a rule, with many exceptionally beautiful days, particularly in the middle. The first half was rather sunless and the latter half decidedly cold, with many frosty nights. Mean temp. 45°·8, or 4°·0 below the average. Duration of sunshine 93·9 hours and of R 16·3 hours.

II. SOUTH EASTERN COUNTIES.—*Caterham Valley*. From 1st to 23rd was very dry, then wet sea fogs, and frost on the ground every night till 28th, with wind always N. to N.E. Foliage fell early and quickly.—*Epsom*. A remarkable feature was the severe frost from 17th to 23rd and 26th to 28th. The mean shade min. from 17th to 23rd was 25°·9 and the mean grass min. 23°·3. Mean temp. for the month 44°·3.—*Wallington*. Very cold, the mean temp. 44°·9 being the lowest October value for over 20 years. The duration of sunshine was only 90·5 hours (Jordan) and there were only 5 Octobers with less in 20 years. The R was the least, except for 1897, in the record.—*New Malden*. Little R till 28th, when squally conditions set in from S.W. Sudden and

* See also *Met. Mag.*, November, 1905, pp. 177, 183, 190.

sharp frosts from 16th to 26th. Ozone on 3 days.—*Sellindge*. Severe cold for October, and unusually dry until the last few days, more than half the R for the month falling on 30th.—*Lewes, Saxonbury*. Cold and dry, with very low temp., bright days and frosty nights till 30th, when the dry weather broke up.—*Hailsham, Magham Down*. Drought until near the end and abundant sunshine. Cold wind mainly from N.W. and frequent night frosts.—*Bolney*. With the exception of the last four days, it was dry and fine, with little wind but cold frosty nights.—*Crowborough, Beechcroft*. Cloudy and dull, with little sunshine till 13th, followed by many days of brilliant sunshine till 28th, when rainy conditions prevailed. Mean temp. $43^{\circ}5$.—*Totland Bay*. The coldest October with the driest atmosphere for 19 years.—*Ryde*. Dry until the last four days, when it became squally and wild. Very cold from 14th to 26th.—*Bournemouth*. Fine, dry and exceptionally cold, but stormy on the last three days, when 1.75 in. of R fell. Unusually cold 16th to 26th. Wind chiefly northerly.—*Christchurch*. A cold, bright month, with 9 successive white frosts from 17th to 25th inclusive, unusually severe for the date.—*West Dean*. Cold and dry, with only .20 in. of R till 28th, when a mild and wet period set in. The mean temp. was the lowest ever observed here. Wind N.E. on 14 days.—*Maidenhead*. From 1st to 16th showers and sunshine alternated; from 16th to 24th there were bright days and frosty nights, and from 26th to 31st it was overcast and gloomy, with heavy R.—*Wantage, Ardington*. The earlier part was dry, bright and cold, with sharp frosts, the temp. falling to 18° on 4 nights. The character of the weather changed on 26th, becoming mild and damp, with bright days and R at night.

III. SOUTH MIDLAND COUNTIES.—*Muswell Hill*. R 1.22 in. below the average of 29 years.—*Harrow Weald*. R 1.91 in. below the average of 15 years.—*Slough, Upton*. A bleak month, with keen northerly winds, but sunshine in excess of the normal. The dry period continued until nearly the close, and it was the fourth successive month with R under the average.—*Winslow, Addington Manor*. A dry, cold month, with frost on more nights than in any October on record, except in 1888.—*Culham*. Dry, with severe frosts from 19th to 25th.—*Oxford*. The mean temp., $42^{\circ}7$, the shade min., 21° on 22nd, and the number of frosts, 16, were all beyond any previous records.

IV. EASTERN COUNTIES.—*Colchester, Lexden*. Cold and dry weather, with persistent N. or N.W. wind till 28th, except for W. gale on 4th and 5th.—*Copdock*. Wretchedly cold, with wind from a northerly

direction almost continuously, as in September, and ground frost on 11 successive days. Duration of sunshine 117·5 hours.

V. SOUTH WESTERN COUNTIES.—*Bishops Cannings*. R 1·92 in., and rain days 2·5, below the average.—*Ashburton, Druid House*. R 2·47 in. below the average of 40 years.—*Tavistock, Whitchurch*. Dry, fine and cold. The daily mean temp. varied from 53°·7 on 3rd to 37°·6 on 21st. The first air frost occurred on 17th. N.W. and N. winds were most frequent.—*Christow, Kennick*. R 2·47 in. below the average of 21 years.—*Okehampton*. Dry, with white frost on 14 days. The last few days were rainy.—*Crewkerne*. With the exception of showers on 4th and a wet evening on 7th, it was exceptionally fine and dry till the last four days, with sharp frosts from 20th to 26th.—*Wellington*. Remarkably fine, dry and cold, especially from 16th to 25th.

VI. WEST MIDLAND COUNTIES.—*Cirencester, Further Barton*. The northerly wind, which set in on September 11th, continued until October 26th, and the month was remarkably cold and dry. From September 9th to October 28th only one inch of R fell. Every night from 16th to 26th sharp frosts occurred, which browned pastures and extensively killed the foliage of trees. Many of these had suffered in the same way from the late spring frosts only as recently as May 23rd.—*Huntington Court*. Generally dry, except on the last four days. Cold weather, with sharp frosts at night for a week from 15th.—*Bishops Castle*. Cold and cloudy, with R below the average. Northerly winds prevailed on 22 days.—*Mayfield House [Ashbourne]*. A variable month; wet at the beginning; fine and sunny, with cold nights, from 16th to 26th, when frost occurred in the screen on 11 consecutive nights. N.W. winds prevailed until the last week. Mean temp. 43°·1.—*Worcester, Boughton Park*. Dry and cold; up to 25th only ·59 in. of R fell. Sharp frosts continued from 15th to 25th, and on the grass till 29th, but owing to an unusual amount of sunshine the day temp. remained over 50°.

VII. NORTH MIDLAND COUNTIES.—*Nottingham*. The coldest October since 1892, the mean temp. being 44°·5, or 3° below the average. It was sunny except in the second week. Prevailing winds W. to N.—*Worksop, Hodsock Priory*. Cold and dry, with much N.W. wind.

VIII. NORTH WESTERN COUNTIES.—*Chatburn, Middlewood*. R 1·04 in. below the average of 16 years.—*Broughton-in-Furness*. R half-an-inch, and rain days 4, below the average. There was some exceptionally fine weather from 15th to 25th, with frosty nights.

IX. YORKSHIRE.—*Upper Midhope*. One of the coldest Octobers in

recent years, especially from 13th to 25th. R \cdot 81 in. below the average.—*Hull*. Somewhat unsettled, with frequent R. Wind chiefly northerly, and some cold nights.

X. NORTHERN COUNTIES.—*West Hartlepool*. Much colder and more rainy than usual on the N.E. coast. Northerly winds on 19 days. Duration of sunshine 127·0 hours.

XI. WALES.—*Carmarthen*. The ground was very dry for three quarters of the month, and R was badly wanted for agricultural purposes.—*Towyn*. The first fortnight was rough, but from 17th to 24th calm, with cold nights. R and S.W. winds from 28th to the end. Mean temp. 46° ·4.

SCOTLAND.

XII. SOUTHERN COUNTIES.—*Clenerie*. An ideal October. Very dry except on three days. There was a spell of hard frost at night for about a week, but fine weather during the day.

XIII. SOUTH EASTERN COUNTIES.—*Musselburgh*. The wettest month of the year, but at the same time there was a good deal of sunshine. During the spell of frost from 15th to 22nd the forenoons were brilliant. Variable winds. Mean temp. 40° ·6.

XVI. EAST MIDLAND COUNTIES.—*St. Andrews*. More severe frosts than usual in October, northerly winds predominating instead of the S.W. gales common in this month. There were, however, some bright days and remarkably fine sunsets. Water supply deficient.

XVII. NORTH EASTERN COUNTIES.—*Aberdeen, Cranford*. Wet and cold, with strong N. and N.W. winds, heavy clouds and little sunshine.—*Monymusk*. An unfavourable month, rendering the harvest season a difficult and an anxious time.

IRELAND.

XX. MUNSTER.—*Broadford*. Very fine and cold. Water was short in many places.—*Miltown Malbay*. The finest October for years, being bright, sunny and dry. There were some light hoar frosts.

XXI. LEINSTER.—*Ballindoney*. A lovely month and the driest October remembered, the R being 3·13 in. less than the average. From 1st to 25th only \cdot 19 in. fell on 7 days. The latter part was cold, with hard frosts on 15 consecutive nights.—*Ballybrack*. Exceptionally cold, the temp. being at or below 32° on 13 days between 15th and 31st. R 2·28 in. below the average of 20 years.—*Rathmines*. Another dry October following a dry September. Unlike the dry October of 1904, it was very cold, the mean temp., 45° ·8, being the lowest since 1896.

The temp. exceeded 60° on one day only, and on no fewer than 12 days failed to reach 50° . It was a fine and quiet month, with several brilliant days, but a few damp and disagreeable days at the beginning and end. Light N.W. and N. winds prevailed.—*Athlone, Twyford*. The lowest R in October since 1880.

XXIII. ULSTER.—*Banbridge, Milltown*. R 1·83 in. below the average of 40 years.—*Belfast, Springfield*. The R was greatly below the average. There was some frost in the middle, but it was not severe.

NOVEMBER.*

ENGLAND AND WALES.

I. LONDON.—*Fulham, Edith Road*. A cold month, the mean temp. being $2^{\circ}6$ below the average, but there were many fine days and little fog. R ·78 in. above the average.—*St. Pancras, Camden Square*. The most prominent features of an ungenial month were the large amount of gloomy weather with frequent R, and the excessive humidity. There were a few clear, cold days in the third week with two sharp frosts, but otherwise no two consecutive days without measurable precipitation. Duration of sunshine 33·5 hours and of R 68·9 hours; 16 sunless days. Mean relative humidity 92·2 per cent. Mean temp. $41^{\circ}7$, or $1^{\circ}3$ below the average.

II. SOUTH EASTERN COUNTIES.—*Haslemere*. Stormy, wet and cold.—*Farnham, Short Heath Lodge*. As in September and October, there was a remarkable prevalence of northerly winds and none from S.W. Cold, frosty weather from 15th to 21st.—*Epsom*. Considerable fluctuations both of temp. and pressure were a marked feature of the month. There was a fair amount of sunshine, 7 cloudless days being recorded. Mean temp. $40^{\circ}8$.—*Wallington*. A wet and cold month. R 1·10 in. above the average. Mean temp. $41^{\circ}6$, or $2^{\circ}9$ below the average. Duration of sunshine 54·4 hours, being 3·1 hours above the average.—*Hailsham, Magham Down*. A wet month and cold, particularly from 13th to 24th, when the wind was northerly except on one day, and frost occurred nearly every night. Gales on 18th, 23rd, 25th and 26th.—*Crowborough, Steel Cross House*. Continuous R from 1st to 15th and from 22nd to 30th. In the interval fine weather was accompanied by low temp. and white frost.—*Totland Bay*. The atmosphere was the driest in November for twenty years. Mean bar. (corr.) 29·733 in., the lowest in the same period. Duration of sunshine 87·8 hours;

* See also *Met. Mag.*, December, 1905, p. 214.

10 sunless days.—*Christchurch*. A wet and changeable month, with the heaviest monthly R in the year: 4·44 in. Very wet from 1st to 4th, registering 1·79 in. Sharp frosts and brilliant days from 15th to 21st.—*West Dean*. Cold and wet, with a great deal of fog and frost, the temp. throughout being below the average. Following a cold September and October, this made an abnormally cold autumn.

III. SOUTH MIDLAND COUNTIES.—*Muswell Hill*. R ·76 in. above the average of 29 years.—*Harrow Weald*. R ·55 in. above the average of 15 years.—*Culham*. Rainy and unsettled, with changeable temp., but the R was only ·56 in. above the average.

IV. EASTERN COUNTIES.—*Buckhurst Hill*. Marked changes of temp. There was a rise of 19° from 22nd to 23rd and a fall of 13° from 23rd to 24th.—*Copdock*. A typical November: dull and cheerless, and very still throughout, except for gales on 26th and 27th and strong winds on 1st and 11th. The prevailing wind was still northerly. Duration of sunshine 69·1 hours. Mean temp. only 40°·7. Cold snap from 16th to 22nd.

V. SOUTH WESTERN COUNTIES.—*Bishops Cannings*. R ·11 in. above, and rain days 4 below, the average.—*Ashburton, Druid House*. R 1·31 in. above the average of 40 years.—*Teignmouth*. R 5·22 in., the greatest in the last 31 years.—*Tavistock, Whitchurch*. Cold, wet and damp, but less cloudy than usual. The daily mean temp. varied from 48°·6 on 11th to 33°·2 on 17th; frosts from 16th to 21st. S.E. winds were most prevalent.—*Dawlish*. Wet and warm, with wind mostly from W. and S.W.—*Rousdon*. Most of the R fell during the night, a fact corroborated by the duration of sunshine being 34 hours above the average. Hence the curious anomaly that this was the wettest November in ten years and had also the most bright sunshine.—*Christow, Kennick*. R 1·08 in. above the average of 21 years.—*St. Keverne*. Springs were unusually low early in the month.

VI. WEST MIDLAND COUNTIES.—*Stoke Bishop*. Cold and windy, with many rain days but R below the average.—*Cirencester, Further Barton*. Very cold throughout and, except from 16th to 21st, wet. R 1·20 in. above the average.—*Mayfield House [Ashbourne]*. A wet month, with a dry cold spell from 15th to 22nd. Mean temp. 38°·8.—*Worcester, Boughton Park*. Hardly any fog. The R came mostly at night and there was a fair amount of bright sunshine, the 24th being a glorious day. Sharp frosts, except on one day, from 15th to 24th.

VII. NORTH MIDLAND COUNTIES.—*Grimbsby*. A typical November, with fog, strong winds, frost and continued R, though there were no

heavy falls.—*Nottingham*. Wet and cold at times. Not much fog or wind. Temp. $1^{\circ}0$ below the average.—*Worksop, Hodsock Priory*. An unsettled month: rather dull and cold, with some sharp white frosts in the third week and a moderate excess of R.

VIII. NORTH WESTERN COUNTIES.—*Chatburn, Middlewood*. R $\cdot 86$ in. above the average of 16 years.—*Broughton-in-Furness*. Particularly fine up to 20th, especially during the third week. Violent wind and R on 26th. Scarcely any fog. Mean temp. $1^{\circ}5$ below the average.

IX. YORKSHIRE.—*East Layton Hall*. Heavy R generally, which was much required to replenish the exhausted springs, which had never been normal for over two years.—*Middlesbrough*. Cold, with heavy R and S, and bad gales and fogs.

XI. WALES.—*Llanfrechfa Grange*. The R fell chiefly at night and there were many warm days but ground frosts at night.

SCOTLAND.

XII. SOUTHERN COUNTIES.—*Clenerie*. Rather wet, except from 14th to 21st, when there was hard frost with bright, clear weather.

XIII. SOUTH EASTERN COUNTIES.—*Musselburgh*. A fair amount of sunshine, but a good deal of morning haze. Mean temp. $37^{\circ}5$.

XVI. EAST MIDLAND COUNTIES.—*St. Andrews*. More and severer frosts than usual in November, but many bright, sunny days.

XIX. NORTHERN COUNTIES.—*Altnaharra*. Wet, stormy and cold, with sudden changes.—*Bettyhill*. Cold, very wet and stormy.—*Watten*. Wet, often stormy and sometimes boisterous. Sharp frosts of short duration.

IRELAND.

XXI. LEINSTER.—*Ballybrack*. Damp and sunless, with an occasional bright day. The third week was very cold. R $1\cdot04$ in. below the average of 20 years.—*Rathmines*. Cold, wet and inclement, with many sudden changes. The mean temp., $40^{\circ}4$, was the lowest for November since 1887. The most remarkable feature was the frost of 18th and 19th, both the max., $32^{\circ}3$, on 18th and the min., $19^{\circ}8$, on 19th, being unprecedented in November. Fogs were more frequent than usual, particularly in the first week.

XXII. CONNAUGHT.—*Markree*. Wet and very mild. Hoar frost from 14th to 19th, followed by fog and R, with gales at times.

DECEMBER.*

ENGLAND AND WALES.

I. LONDON.—*Fulham, Edith Road.* A dull month, with high pressure, but not much fog. Temp. above the average, and R only .58 in., the smallest ever recorded.—*St. Pancras, Camden Square.* Mild, with fairly uniform temp. and great deficiency of both sunshine and R. Although the prevailing type of weather was anticyclonic, there was practically no frost and the mean temp. was $41^{\circ}0$, or $1^{\circ}8$ above the average. Dense fogs occurred in London on 10th and 11th, but the month was otherwise free from them. Duration of sunshine 12.4 hours and of R 28.4 hours. Absolute drought from 9th to 26th.

II. SOUTH EASTERN COUNTIES.—*Abinger Hall.* Remarkably dry and open. Winter aconite and helleborus niger were in bloom, and thrushes singing.—*Caterham Valley.* Much wet fog, and often sunless. The temp. was low throughout, but never below 28° .—*Epsom.* Dry but cloudy, with 16 overcast days and only one day with clear blue sky. Fog occurred on 5 days. Mean temp. $40^{\circ}0$.—*Wallington.* The mean bar., 30.236 in. (corr.) was the highest, and the R, .55 in., the lowest in December in the record. Mean temp. $40^{\circ}5$, being $1^{\circ}5$ above the average, owing to high night temp. Duration of sunshine 35.3 hours, or 3.6 hours below the average.—*New Malden.* A dry month, having anticyclonic conditions with dead calm in the middle and 18 days with only .02 in. of R. It was completely overcast on 14 days.—*Sellindge.* Unpleasant on the whole and very humid, with low R and a few very mild days.—*Lewes, Saxonbury.* Dry, mild and calm, with fog and cloud.—*Bolney.* Calm, mild and dry, but with little sunshine.—*Crowborough.* Mild on the whole, with many dull days and a good deal of mist at times, but a few sunny days. The R was low and there were no high winds. Prevailing direction westerly.—*Totland Bay.* The mean bar. was 30.278 in. and the R the least in any December recorded. Duration of sunshine 50.8 hours.—*Bournemouth.* Very dry and rather mild, with a good many dull days after 13th. The mean relative humidity was 89 per cent., though the total R was only .73 in.—*Christchurch.* A mild, dry, sunless, very calm month. Remarkable variations of bar.—*West Dean.* Very foggy and sunless, with a great absence of wind. Temp. about the average and R much below the average.—*East Garston.* Wonderfully mild, with slight though fairly frequent falls of R and a great deal of dull, sunless

* See also *Met. Mag.*, January, 1906, p. 238.

weather.—*Wantage, Ardington*. Very dry, with some fog and much cloud. Generally mild, but with sharp frost on 30th.

III. SOUTH MIDLAND COUNTIES.—*Muswell Hill*. R 1·48 in. below the average of 29 years.—*Harrow Weald*. R 1·45 in. below the average of 15 years.—*Watford*. Very dry; after 8th only ·40 in. of R fell.—*St. Albans*. Mild and very dry, only ·40 in. of R falling after 8th.—*Throcking*. Only one December in 25 years had a smaller R—namely, in 1890—when ·60 in. fell on 9 days.—*Goring*. Darkness, mist and fog reigned almost throughout.—*Steeple Aston*. Exceedingly damp and foggy, with more consecutive fogs than ever registered before, but not much R.—*Swerford*. Dry and mild. R 1·67 in. below the average of 11 years and the least in that period. There were 15 sunless days and fog on 13 days.—*Pitsford*. R 1·34 in. below the average. Mean temp. 40°·6.

IV. EASTERN COUNTIES.—*Shenfield*. There was a period of 18 consecutive days without R, but during a great part of this drought the weather was damp, foggy and exceedingly gloomy.—*Copdock*. A dismal month, with damp cold days and a good deal of mist, but not much fog in spite of almost entire absence of wind. Duration of sunshine 49·8 hours on 13 days. The R was deficient and water low everywhere.—*Rendlesham Hall*. Bright from 1st to 5th, with foggy nights, then mild to 8th and dull and cloudy from 9th.

V. SOUTH WESTERN COUNTIES.—*Ashburton, Druid House*. R 4·55 in. below the average of 40 years.—*Teignmouth*. R ·82 in., the smallest amount recorded in 31 years.—*Tavistock, Whitchurch*. Dry and rather warm, with high bar. and less than half the average R. The daily mean temp. varied from 51°·3 on 7th to 38°·5 on 10th and 12th. S.E. wind was most frequent.—*Christow, Kennick*. R 3·63 in. below the average of 21 years.—*Hartland Abbey*. The ground was dry and the springs much lower than usual.—*Bath*. The driest December since 1883, the R being 2·06 in. below the average of 40 years.

VI. WEST MIDLAND COUNTIES.—*Cirencester, Further Barton*. Very gloomy and foggy and extremely quiet, with equable temp. and little R.—*Mayfield House [Ashbourne]*. A remarkably mild month, the mean temp. being 38°·9, or 4°·0 higher than in 1904. The R was slight and it was generally dull, with numerous foggy days.—*Worcester, Boughton Park*. Generally fine, with a good deal of sunshine and little R. No severe or continuous frost.—*Long Compton, Weston Park*. The driest December yet known.

VII. NORTH MIDLAND COUNTIES.—*Spilsby*. R 1·79 in. below the

average of 10 years and the lowest since 1875. Absolute drought from 11th to 27th.—*Grimsby*. Exceptionally dry and fine, with no high winds and comparatively little fog.—*Nottingham*. Dry, fairly mild and generally cloudy. Mean temp. $39^{\circ}2$, or $1^{\circ}2$ above the average. Fogs were fairly frequent but slight.—*Worksop, Hodsock Priory*. Mild and very dry, with high pressure. R less than any of the previous 30 years, though December, 1892, had very little more.

VIII. NORTH WESTERN COUNTIES.—*Wilmslow*. The driest December on record, and only paralleled in any month in 28 years by February, 1891, with $\cdot19$ in., and February, 1895, with $\cdot30$ in.—*Disley*. The driest December since the gauge was erected in 1863, except possibly in 1890, when frost prevented registration.—*Chatburn, Middlewood*. R $2\cdot95$ in. below the average of 16 years.—*Broughton-in-Furness*. Mild and dull on the whole, with some sunny days at intervals. The R was $3\cdot87$ in. below the average of 10 years and with one exception the lowest since 1872.

IX. YORKSHIRE.—*Thixendale*. Mild and in general much dull and dark weather, but little R.—*East Layton Hall*. A month of charming weather, mostly dry and clear. All sorts of out-of-door work were well forward.—*Middlesbrough*. Extremely dry, with drought for 18 days.

XI. WALES.—*Gogerddan*. Open, dry and mild, but with keen frosts about the middle.—*Towyn*. Mild and comparatively dry; in 18 consecutive days only $\cdot16$ in. of R fell. The last two days were stormy.

SCOTLAND.

XII. SOUTHERN COUNTIES.—*Clenerie*. Dark and rainy throughout. There was a complete absence of frost and S.

XIII. SOUTH EASTERN COUNTIES.—*Musselburgh*. As a rule the days were bright and clear, with a good deal of sunshine after 23rd. Strong winds from S. and S.W. were prevalent. Keen frost after 26th.

XVI. EAST MIDLAND COUNTIES.—*Blair Atholl*. S.W. wind prevailed, with abnormally high temp. Bees were seen flying frequently.

IRELAND.

XXI. LEINSTER.—*Ballindoney*. A fine, very mild month, with R much below the average. No R from 8th to 16th. The year ended wet and stormy.—*Ballybrack*. Exceptionally mild, with R $\cdot65$ in. below the average of 20 years.—*Rathmines*. The feature of the month was the unprecedented mildness. Neither S nor sleet was observed and there was frost on one morning only. The temp. was uniform, the range being one of the smallest on record.

OBSERVERS' NOTES ON THE YEAR 1905.

[When an average is referred to in these Notes without a statement of the number of years on which it is based the figure should not be accepted as comparable with the average at any other station.]

ENGLAND AND WALES,

DIVISION I.—LONDON.

PADDINGTON, WESTBOURNE GROVE.—An equable year, with generally seasonable weather and average R. An absolute drought lasted from January 17th to February 3rd.—*A. P. Baker.*

FULHAM, EDITH ROAD.—Except for the heavy R in June and the fine and hot July, it was a year with no very marked features, both temp. and R being nearly the average. There were two absolute droughts—viz., from January 17th to February 5th, 20 days, and December 9th to 26th, 18 days. No partial droughts.—*G. von U. Searle.*

ST. PANCRAS, CAMDEN SQUARE.—Another year of persistently, but not greatly, deficient R. Four months—March, April, June and November—had R in excess, and of these, June with 4·39 in., or 2·20 in. above the average of 30 years, was the only month appreciably exceeding 3·00 in. The cumulative divergence from the average showed a slight deficiency until the end of May, which was counterbalanced by the wet June, but from August the aggregate fall was always in defect, and the total for the year was 2·02 in. below the average. One of the most noticeable features of the year was the rareness of TSS or heavy falls of R; on two days only did ·75 in. or more fall in 24 hours and the greatest daily amount was ·87 in. on June 5th. A remarkable spell of rainless weather lasted from December 9th to 26th inclusive. The number of rain days was fairly normal throughout and the total was 2 above the average. The total duration of R during the year amounted to 456·4 hours, being 44·0 hours above the average of 20 years. The greatest excess took place in June, when R fell for 77·9 hours, or 49·1 hours above the average, whilst in May the duration was only 10 hours and in July 10·2 hours. The longest duration within 24 hours was 18·0 hours

on April 9th, followed by 17·3 hours on June 5th and 16·6 on June 6th; with these exceptions, no day had more than 12 hours with R. The temp. was on the whole above the average until the middle of the summer, the mean showing an excess of 3°·1 in March and 4°·1 in July, and a slight deficiency during the early autumn. In October, however, a spell of severe wintry weather set in, the mean temp. for that month being 4°·0 below the average and the lowest with three exceptions in 49 years; the mean shade min., 38°·7, was the lowest ever experienced in October. The cold weather extended into November, but December was comparatively warm. The mean for the year was 50°·4, or 0°·6 above the average. The duration of sunshine was 1271·0 hours, and there were 84 sunless days. May and July each contributed more than 200 hours, but December was exceedingly deficient, having only 12·4 hours and 23 sunless days.—*Hugh Robert Mill.*

DIVISION II.—SOUTH EASTERN COUNTIES.

SURREY.

HASLEMERE, LOWER STREET.—R 3·36 in. below the average of 33 years.—*J. W. Penfold.*

HASLEMERE, JESSES.—The winter was mild, fair and dry, but March was wet, with mean temp. 43°·9. April, May and June were cool, with record R in June; July very warm and dry, and August and September warm and showery. The last three months were dry, with great cold in October and November, making the coldest autumn yet recorded.—*A. F. Parbury.*

HASLEMERE, HAZELHURST.—The greatest amount of sunshine occurred in May, with 278 hours, whilst June was very deficient, having only 160 hours. The max. temp. reached 80° once only. Skating was possible for 7 days in January, and November was cold, but there was practically no S. Total R 4·50 in. below the average.—*T. P. Newman.*

FARNHAM, THE BOURNE VICARAGE.—January, February, July, and December had each less than an inch of R, the total for these four months being 3·19 in., or 5·71 in. below the average. March, June, August and November had 15·98 in., or 7·05 in. above the average. The fall for the year was ·95 in. below the average of 25 years.—*T. W. Sidebotham.*

GUILDFORD, PICCARD'S ROUGH.—The usual dry May occurred just when R was most wanted, and there was a disastrous frost on

21st of that month; otherwise it was a prosperous spring and summer. After mid-August there was a comparative absence of sunshine, with low temp.—*Herbert A. Powell.*

GUILDFORD, MERROW.—June was very wet, but February, May, July and December were dry months, and the total R for the year was 1·37 in. below the average of 10 years.—*Ellen S. Lomer.*

WOKING.—R 1·50 in. below, and rain days 18 above, the average of 12 years. “February fill-dyke” again proved one of the driest months.—*F. Wilson.*

CHERTSEY, OTTERSHAW.—Another year of deficient R, less than an inch falling in January, February, May, July and December. There was, however, a considerable excess in March and June. It was a mild and equable year on the whole, with more than the average amount of sunshine.—*R. H. Otter.*

EPSOM, ASHLEY ROAD.—June was the wettest month, with 4·92 in. of R, and December the driest with ·58 in. There were only two falls exceeding an inch during the year. The number of days with ·05 in. or above was 103. The highest shade temp. was 86°·2 on July 14th, and the lowest 17°·0 on January 2nd; 65 frosts were recorded in the screen and 104 on the grass. Vegetation after prospering during the first four months, received a severe check soon after the middle of May, owing to sharp night frosts, and cold N. to N.E. winds. The fruit crop although at first bidding fair proved very light. The latter part of May was marked by a temporary heat wave. N. to N.E. winds were very prevalent in June. There were nine TSS, the most severe being on June 10th and August 29th. On August 27th, 28th and 29th, three storms took place in succession. T occurred on 13 days, L on 16, H on 5, and S on 12, but neither of the latter were of much consequence. Fog occurred on 17 days, the worst period being from December 11th to 14th. The cloudiest month was April, with an average of 7·3, May being the least so with an average of 3·6. There was a week of severe weather from October 17th to 23rd, frost prevailing continuously, and the average shade minimum for the period being 25°·9. Sharp, but temporary spells of winter occurred also in November and December. On December 31st there was a “black frost,” the max. shade temp. on this date rising no higher than 31°·4. The wind reached or exceeded the force of a gale on 18 days.—*Spencer C. Russell.*

WALLINGTON, COTSWOLD.—R ·63 in., and rain days 17, above the

average. Mean temp. $49^{\circ}6$, or $0^{\circ}1$ above the average. Duration of sunshine 1582.5 hours, or 37.5 hours above the average.—*F. Campbell Bayard.*

THAMES DITTON, WESTON GREEN.—R .71 in. below, and rain days 5 above, their respective averages.—*H. T. Potter.*

KENT.

TENTERDEN, SUMMERHILL.—A mild year with no extreme temp., a marked absence of TSS, and very few gales. R an inch below the average. Fruit, except apples, was of average quantity, and hops were heavy and good.—*Mary Wilkin.*

TENTERDEN.—The R was .50 in. above the average of 20 years, but an inch below the 40 years' average. March and November were wet, and June exceptionally so, with 5.26 in., being by far the wettest for 45 years. January, February and December were deficient in R, but none of them cold months. S fell on only two days in January and two in February. March was warm; April cold, dull and rather wet; May dry after the first week, and the sunniest month of the year; much damage was done by frost on 23rd. June was not so cold as the wet June of 1903, but had less sunshine and 50 per cent. more R. July was very dry and warm, but with less sunshine than in 1904. August rather cold, and the wet period August 26th to September 11th with over 3 inches of R made things unpleasant for hop-pickers. Autumn was cold, with six weeks of polar winds, and severe frosts in October. But for the heavy R on 29th and 30th, October would have been exceptionally dry. Gales as usual towards end of November. Deficiency of sunshine, of rain, and of severe frost made December remarkable. January 1st, 2nd and 16th, and December 31st, were the only days with max. temp. below freezing point. Duration of sunshine (Jordan Recorder) 1639 hours.—*J. Ellis Mace.*

GOUDHURST VICARAGE.—On the whole a mild and pleasant year. Pear blossom set well, and apples were a failure, but other fruit crops were average.—*James S. Clarke.*

TUNBRIDGE WELLS, BEULAH ROAD.—The R was very unequally distributed. The greater part fell in seven brief periods, March 10th to 17th, April 7th to 10th, April 30th to May 2nd, June 4th to 12th, September 5th to 11th, October 28th to November 4th (2.88 in.), and November 10th to 15th (1.99 in.). Long periods with little or no R occurred from January 17th to February 24th, May

3rd to 30th, during July, from September 29th to October 27th, and from December 9th to 27th.—*T. H. Fitzpatrick.*

MAIDSTONE, LANGLEY.—The R was fairly regularly distributed, and although not large came often enough during the summer to prevent scarcity of water. S fell on five days only.—*W. J. Gould.*

ROCHESTER, HOO ST. MARY.—The very short R during July, together with the hot, dry, sunny weather, prematurely ripened nearly all growing crops, and the yields were therefore not so good as had been anticipated. The quality of the barley was inferior and oats were very light.—*Henry Pye.*

DYMCHURCH.—Fine weather prevailed for 12 hours on 303 days, for 9 hours on 30, for 6 hours on 18, and 14 were wet throughout. Of the nights 265 were fine, and the remaining 100 wet, with 16·82 in. of R.—*Charles E. Plater.*

TILMANSTONE, DANEFIELD.—The winter was mild and the spring fine, warm and fairly early. June was wet and cold, July and August hot and dry. The autumn months were wet, October and November being cold, and December was mild and dry. The hay crop was good and got in in fine weather.—*Adela M. Rice.*

OSPRINGE, LORENDEN.—R ·33 in. above the average of 40 years. The max. fall in 24 hours, 2·13 in., was the greatest during that period, though equalled on October 28th, 1882.—*Walter C. Stunt.*

RECVLVER.—Although the wet period in March was trying to those fields that had not been cropped during the fine February, vegetation made good progress during April. It was somewhat checked during the dry weather of May, but advanced rapidly in June. The droughty July, however, prevented cereal crops from maturing into what at one time appeared likely to be a record harvest. The fine autumn and December enabled land to be well ploughed and cropped.—*Allington Collard.*

MARGATE, WESTLANDS.—R 1·69 in. below the average of 25 years. Mean temp. 50°·6. There was a disastrous break in the fine weather in early September.—*John Stokes.*

SUSSEX.

CHICHESTER, WESTGATE.—R 5·13 in. below the average of 65 years. The year was chiefly remarkable for five long periods of dry weather: from January 16th to March 8th, May 1st to June 5th, June 16th to August 2nd, September 11th to October 28th, and the whole of December.—*G. Ashley Tyacke.*

CHICHESTER, FOREST SIDE VICARAGE.—R 4·66 in. below the average of 16 years. Only two drier years have occurred since 1889.—*Mary B. Parson.*

CHICHESTER, CHILGROVE.—R 3·11 in. below the average of 70 years.—*J. W. Woods.*

WEST BOURNE [EMSWORTH].—R 3·58 in. below the average of 21 years. March was the wettest and July and December were the driest in that period. The mean temp., 49°·9, was 1°·9 above the average, and the highest yet registered.—*L. B. Birkett.*

FUNTINGTON.—The artesian well ceased to flow about September 2nd, two months earlier than in 1904, and had not overflowed again by December 31st.—*J. Anderton Greenwood.*

FALMER.—On the whole a pleasant year. R 4·91 in. below the average of 36 years. Springs were generally very low at the end.—*R. R. Verrall.*

LEWES, SAXONBURY.—R ·02 in. above the average of 14 years.—*Aubrey Hillman.*

HASTINGS, GUESTLING RECTORY.—The R, about the average, was inequally distributed, February and July having each less than half the average, and March, usually one of the driest months, being almost the wettest. The bar. was worthy of note; from January 26th to 30th the readings were unusually high, reaching 30·96 in. on 29th. A similar but less remarkable period of high pressure occurred from December 10th to 14th.—*E. N. Bloomfield.*

CLAYTON RECTORY.—Remarkable for the extremely small falls of R in May and July and the heavy falls of March and November. The absence of TSS in the summer months was also noteworthy.—*T. H. R. Shand.*

CROWBOROUGH, UCKFIELD LODGE.—The year will be remembered for its many pleasant and genial months, with unusually mild weather, January, May (with persistent N.E. winds), and October being exceptions. December though mild was gloomy, with much mist. The R was 2·84 in. below the average of 34 years. S fell on only 8 days during the first four months, and on one day in November. Frost occurred on several days and nights in January, but did not last, the longest frosty period being four days, from January 13th to 16th. There was a little frost in November, and scarcely any in December till the last day of the year. Several H storms took place during last week of February, but in the other months there was very little H. Gales and storms occurred chiefly in

February, March, October and November. The severest was from 7 p.m. on March 10th to the evening of 15th, accompanied at intervals by T, L and H.—*J. J. S. Driberg.*

CROWBOROUGH, STEEL CROSS HOUSE.—Cool, with small R and absence of S or gales. March and April were rainy and mild, except for a week of the latter. May was cold, making vegetation backward, followed by a warm June with much R. July was dry and cool, and August and September were cool and wet, but with a fair amount of sunshine. The temp. continued low throughout October, especially in the third week, and from the close of that month wet weather prevailed till the middle of November. The year closed with a dry and mild month, except that on the last few days hard frost set in.—*J. C. Stenning.*

HAMPSHIRE.

TOTLAND BAY, ASTON HOUSE.—The driest year since 1889. The R was 3·17 in., or 12 per cent. below, and rain days 6 per cent. below, the average of 20 years.—*John Dover.*

RYDE, BELDORNIE TOWER.—Partial droughts lasted from January 17th to February 25th, 40 days, with ·20 in. of R, from May 2nd to May 31st, 30 days, with ·20 in., and from June 27th to August 1st, 36 days, with ·29 in.—*P. Craven Hall.*

OSBORNE, NEWBARN COTTAGE.—R about 8 per cent. below the average of 48 years.—*R. Scott.*

BOURNEMOUTH, KEMPSEY.—A dry year with a partial drought from January 17th to February 24th. The R in most months was well below the normal, and in four considerably above it. March and November were the two wettest, May and July the two driest, each with less than half-an-inch. S was only twice seen lying on the ground, on January 16th and February 28th, yielding ·05 in. on each occasion.—*E. L. M. Colvile.*

MILFORD-ON-SEA, KEYHAVEN.—A bad year for the garden, all the R coming at once, and May, June and July being one long drought, except for 2·10 in. on June 6th. April brought cold E. winds and no sunshine. The total for July, ·28 in., was the lowest fall yet recorded, and so was the year's total.—*A. C. G. Heygate.*

CHRISTCHURCH, WINKTON LODGE.—R 2·69 in. below the average of 10 years. A cold, dry and brilliant spring, and a hot, bright July, but the summer temp. was not high as a whole. There were

many white frosts in October. No TSS or S occurred during the year.—*Jane Lassell.*

EMSWORTH, REDLANDS.—R 4·29 in. below the average of 21 years, resulting in a deficient hay crop. Fair average crops of wheat and oats. Practically no S.—*F. Jacomb Hood.*

WICKHAM, THE CROFT.—R 2·90 in. below the average of 10 years. (In the first three days of 1906, 2·87 in. fell).—*Constance L. Rashleigh.*

BISHOPS WALTHAM, HILL PLACE.—R 5·11 in. below the average of 30 years, practically the whole of this deficiency taking place during the latter half of the year. Four months had falls of less than ·80 in.—*W. A. Daubeny.*

PETERSFIELD, FAIRLEY.—R 5·58 in. below the average of 15 years, and the least in that period. The falls in January and December were lower, and in March and June higher, than any previous records. Also May, July and October have only once had so low a fall.—*A. W. Leachman.*

GRAYSHOTT [HINDHEAD].—In a percolation gauge, 3 feet deep, composed of natural earth (green-sand and peat), with short heather on the surface, 16·34 in. of R passed through.—*Charlotte Lyndon.*

SWARRATON RECTORY.—On January 1st the water level in the same well referred to in previous years stood at 24 ft. 8 in. from the well mouth, 300 feet above sea-level. The water fell until the first week in March, after which it rose to its maximum in the middle of May, afterwards decreasing all through the summer and autumn. The first week in November it was at its lowest, 25 ft. 5 in., after which time the water began to rise, and at the end of December was an inch higher than when the year began.—*W. L. W. Eyre.*

HARTLEY WINTNEY.—Another beautiful year characterised by sunshine and equable temp. R 3·72 in. below the average. There were several TSS in the spring, but on no day did an inch of R fall.—*W. G. Machin.*

BERKSHIRE.

WINDSOR, ROYAL GARDENS.—R 3·53 in. below the average.—*T. Edwards.*

MAIDENHEAD, CASTLE HILL.—Dry on the whole, the summer being very fine, with much sunshine. The latter part of November was very cold, and December had some of the thickest fogs ever seen in Maidenhead.—*J. W. Duncan.*

DIVISION III.—SOUTH MIDLAND COUNTIES.

MIDDLESEX.

ACTON, NEWBURGH ROAD.—R 1·87 in. below the average of 14 years.—*Beatrice M. Baker.*

MUSWELL HILL, COLNEY HATCH LANE.—R 1·69 in. below the average of 29 years.—*Susan Abethell.*

HARROW WEALD, HILL HOUSE.—R 2·49 in. below the average of 15 years.—*Alex. Crossman.*

HERTFORDSHIRE.

ST. ALBANS, COUNTY MUSEUM.—A dry and rather warm year, the R, although more frequent than usual, being about 3·50 in. below the average. The mean temp. was 0°·5 above the average, owing entirely to the warmth of the nights. The winter of 1904–5 was very mild with average R; the spring was of average temp. and rather wet; the summer was warm with average R and the autumn very cold and dry, having 2·50 in. less than the average.—*John Hopkinson.*

BENNINGTON, EILEEN COTTAGE.—The best distribution of R for garden purposes ever remembered.—*A. B. Legard.*

BUCKINGHAMSHIRE.

FARNHAM ROYAL, BROOMLANDS.—On the whole, favourable weather, with a great deal of sunshine till the autumn, though in August the summer seemed to come to an abrupt end. The spring was fine and dry. The cold spell in October came very suddenly. R about four inches below the average, with no heavy falls to speak of, and hardly any TSS.—*F. C. Moscrop-Young.*

HEDSOR.—Dry and mild until March, which was wet with westerly winds and copious R, vegetation being very forward at the close. The latter parts of April and May were cold and dry, with destructive frosts at times, especially about May 24th. The summer was cool, with average R very unevenly distributed, and unsettled and windy weather prevailed during August. The autumn was dry and quiet, with exceptionally low night temp. in October. Partial drought from January 17th to February 18th, with ·30 in. of R. R 71 in. above the average of 1890–99.—*Boston.*

OXFORDSHIRE.

DORCHESTER, BISHOPS COURT.—The R was small, and although there was no actual drought, the water supply was very short. December was the driest ever recorded.—*Thomas Latham.*

ABINGDON, CULHAM VICARAGE.—The R was 5·50 in. below the average and there was an unusual absence of heavy falls. The water supply became very low and failing plenty of R in the first three months of 1906 the outlook threatened to become serious.—*F. C. Clutterbuck.*

ADDERBURY.—The R was 1·38 in. below the local average and springs in the neighbourhood were abnormally dry.—*George H. Norris.*

NORTHAMPTONSHIRE.

BLISWORTH, CRIEFF HOUSE,—R 1·77 in. below, and rain days 31 above, the average of 10 years.—*A. Westley.*

SYWELL HALL.—A beautiful year on the whole as regards weather, with deficient R but a fair number of rain days.—*T. A. Dickson.*

SCALDWELL.—Another dry year, the R being 1·57 in. below the average of 14 years, and springs and ponds lower than ever. Corn crops were good, but it was a poor grazing year.—*R. Soames.*

BURTON LATIMER RECTORY.—R 4·11 in. below the average of 10 years. The fall though slight came at an opportune time for farmers, whose crops were excellent and well got in. The winter months were exceptionally dry.—*W. B. Jacques.*

OUNDLE, HEMINGTON VICARAGE.—There was a great scarcity of water throughout the year, establishing a record in this respect.—*F. C. Newbery.*

CORBY, WELDON GRANGE.—The “spring-filling” months, January, February and December, had 3·48 in. less than the average R for 10 years. The remaining months had 1·33 in. more than the average, the net shortage for the year being 2·15 in.—*J. Rooke.*

STAMFORD, ST. MARTIN’S.—All springs in the neighbourhood were abnormally low, owing to the small R.—*Thomas Booth.*

DIVISION IV.—EASTERN COUNTIES.

ESSEX.

HAVERING GRANGE.—January was foggy and dark, but the winter mild. Spring was cold, April being particularly cold and backward, with frosts, constant S, sleet and H, T and L, and great changes of temp. After July it was warm and sunny, but with no excessive heat. Autumn was dark, cold, and extremely damp.—*G. P. Hope.*

WITHAM, TERLING VICARAGE.—R 4·00 in. below the average of 12 years.—*H. C. Boutflower.*

COLCHESTER, HILL HOUSE, LEXDEN.—The driest year since observations commenced in 1889. There were no rainy spells. Absolute drought from December 12th to 26th.—*S. F. Hurnard*.

BRAINTREE, BOCKING, FENNES.—The driest year since 1864. March, April and June alone had more than the average R.—*Henry S. Tabor*.

EARLS COLNE, CHALKNEY HOUSE.—The smallest R registered in 28 years' observations. The nearest approach was in 1884, when 17·29 in. fell.—*H. F. Hills*.

BULMER LODGE, [SUDBURY].—Water was scarce everywhere in the neighbourhood; in some villages it had to be fetched from a distance for drinking purposes, and in this place we were obliged to carry it in carts for the cattle. There were only two short and sharp TSS during the year.—*M. Burke*.

SUFFOLK.

IPSWICH, COPDOCK.—The features of the year were undoubtedly the extraordinary brilliancy of the first six months, and the persistent prevalence of northerly winds throughout. The R was very irregularly distributed, and particularly deficient in the months when it was most wanted. Except in June it fell in small amounts, so that the number of rain days was the largest yet recorded. The wonderful heat and drought in July will be long remembered; it did much to spoil the promise of a fine harvest, especially on the light land. October was abnormally cold.—*F. L. Bland*.

SUDBURY, NEWTON ROAD.—The smallest R recorded in 18 years.—*J. Alexander*.

BOYTON RECTORY.—A bad year for agriculture and gardens on account of the deficiency of R, and the mildness of January and February, followed by cold and biting winds in April and May. There was a great show of bloom on fruit trees, but the crop was generally destroyed. Springs, ponds and wells were very low at the end of the year.—*A. Washington*.

COCKFIELD RECTORY.—Wells and ponds never properly filled up and were low at the end of the year.—*Edwin Hill*.

ASH BOCKING VICARAGE.—Great difficulty was experienced with the water supply, and constant fetching of supplies by horse carting for stock and home use was necessary. The Vicarage pond, 9 feet deep, was quite empty for two-thirds of the year, with dry earth at

the bottom. Springs did not run at all for the greater part of the year.—*M. B. Cowell.*

BURY ST. EDMUNDS, WESTLEY.—Remarkable for the number of days on which small quantities of R fell. The month of June, with 4·24 in., from an agricultural point of view, saved the year, but rivers, ponds and deep wells became very low.—*Robert Burrell.*

NORFOLK.

EAST DEREHAM.—R about 2·00 in. below the average. The winter was mild and the summer splendid, with no TSS, but autumn wet. December was dull, calm and foggy throughout.—*G. Halcot Cooper.*

STALHAM, EAST RUSTON GRANGE.—The spring months were cold and backward; June very wet and haysel difficult, but July fine and warm. October and November were wet and cold, but December fine and mild.—*W. S. Horn.*

BLAKENEY.—R ·90 in. below, and rain days 15 above, the average of 12 years.—*C. I. Temple Lynes.*

DIVISION V.—SOUTH WESTERN COUNTIES.

WILTSHIRE.

SALISBURY, BROWN STREET.—A good year on the whole from an agricultural point of view. The R was irregularly distributed, five months having less than an inch each and four having excessive R. The autumn was remarkably fine.—*T. H. Baker.*

MERE VICARAGE.—The R was 6·01 in. below the average of 10 years and the lowest since 1892. That of July was the lowest, and August the highest, in 14 years' observations.—*J. A. Lloyd.*

WARMINSTER, RYE HILL.—A rather remarkable year, having five exceptionally dry months and three exceptionally wet. Vegetation, however, was at no time materially injured by drought. The heavy R of early June made up for the dry May and that on the last day provided for the dry July. Of the rain days registered as many as 28 were due to condensed fog, chiefly in the winter months.—*Stiles E. Jefferys.*

SALISBURY PLAIN, SHREWTON.—A year of extremes. March and June were the wettest and January and July the driest ever recorded here, whilst February and May also had each less than an inch of R. A very dry period of seven weeks in September and October made the land too dry for sowing. It was, however, a good farming year, though with a poor fruit crop. The R was quite 10 per cent. below the average.—*F. J. Wardale.*

BISHOPS CANNINGS.—R 2·07 in., and rain days 14, below the average.—*C. W. Honey.*

DORSETSHIRE.

DORCHESTER, WOLLASTON HOUSE.—R 6·05 in. below the computed average.—*John Acland.*

BEAMINSTER VICARAGE.—R 8·32 in. below the average of 32 years, and the lowest with three exceptions in that period.—*A. A. Leonard.*

DEVONSHIRE.

KINGSKERSWELL, BARTON HALL.—A good year for farmers but bad for salmon fishermen.—*H. Langford Brown.*

KINGSKERSWELL, SOUTH HILL.—R 4·97 in., and rain days 16, below the average of 10 years.—*E. A. Foster.*

ASHBURTON, DRUID HOUSE.—R 10·17 in. below the average of 40 years.—*Fabyan Amery.*

TEIGNMOUTH.—R 6·11 in. below the average of 30 years.—*G. Rossiter.*

TAVISTOCK, WHITCHURCH.—A rather cold and damp year. The longest rainy spells were 17 days ending on November 13th, with 6·34 in. of R, and 15 days ending on March 18th, with 7·12 in.; the longest period without R was 12 days ending on March 15th. March, April, August and November were the only wet months. The mean temp. for the year was 48°·5; the shade max. rose to or above 70° on 22 days. TSS occurred on six days, and fog on 48.—*Edwin E. Glyde.*

CHUDLEIGH, IDEFORD RECTORY.—R 5·68 in., and rain days 6, below the average of 18 years. The longest consecutive wet period was 14 days ending March 17th, and the longest rainless period 12 days ending on July 26th, these being respectively 2 and 6 days below the average. There were five periods with seven or more consecutive rain days, and a similar number with seven or more rainless days. The fall for December was 3·23 in. below the average, and the lowest yet recorded.—*Gerard J. Ford.*

LIFTON, KELLY HOUSE.—An exceptionally dry and beautiful year. No inconvenience was however caused by drought, except in October, when springs became low. They soon broke out again with the heavy R of November, and water was abundant afterwards, although December was dry. August was wet, and the ingathering of the harvest was interfered with, but otherwise it was a good year for the land.—*Maitland Kelly.*

CHUDLEIGH, TRUSHAM.—R 8·73 in. below the average of 18 years.—*Offley H. Cary.*

POLAPIT TAMAR [LAUNCESTON].—R 6·25 in. below the average. Exceptionally small R in May, and much below the average in February, July, October and December. The fall in August was considerably above the average.—*R. C. Coode.*

CHRISTOW, KENNICK.—R 6·45 in. below the average of 21 years.—*S. C. Chapman.*

CREDITON, STOCKLEIGH POMEROY.—A characteristic feature was the large number of rain days with a small amount of R. The mean fall per rain day was ·15 in. or ·05 in. less than the average, and the total number of days with R had been exceeded once only in 10 years.—*T. H. Philpott.*

OKEHAMPTON, OAKLANDS.—With two exceptions the smallest annual fall for 35 years.—*E. H. Holley.*

PETROCKSTOW, HEANTON SATCHVILLE.—R 6·08 in. below the average of 15 years.—*A. Eames.*

INSTOW.—An exceptionally dry year, particularly in February, May and December, May being almost rainless. August, however, was unseasonably wet. There were two periods of cold, from October 17th to 26th, and from November 14th to 23rd.—*Mary J. Lock.*

CORNWALL.

REDRUTH, TREWIRGIE.—R 7·82 in., or 17·2 per cent. below the average of 26 years. Partial drought for 40 days with ·39 in. of R ended on June 11th.—*Arthur P. Jenkin.*

TALLAND, POLPERRO.—Dry on the whole, especially in December. Springs everywhere were remarkably low until November.—*Herbert E. Butler.*

EMPACOMBE [DEVONPORT].—R 3·28 in. below the average of 16 years. It was a prosperous year for agriculture in this district, although more R would have been an advantage.—*J. Sandercock.*

ST. MABYN, PENCARROW.—A record year for dryness, the total R being nearly 9 inches below the average. May had the lowest R of which there is any record here.—*A. C. Bartlett.*

ALTARNON.—The winter months were cool and showery and April frosty, but not dry. May made amends by being the driest yet known, but there were unusually late frosts which destroyed much fruit. Warm showers in June followed by forcing weather in July gave good hay. Mangolds and potatoes did well but turnips

badly. Early corn and late oats were good. The autumn till November 22nd had much frost, but was all that could be desired for dryness, so that roots were well harvested and good crops of most kinds got in.—*C. U. Tripp.*

SOMERSET.

NORTH CADBURY RECTORY.—R 5·05 in. below the average of 9 years, and the least in that period. The pond was extremely low throughout the year, but there was never any need of the watering pot in the garden. Partial drought lasted from May 2nd to June 4th, with ·21 in. of R. Grass was never covered with S.—*H. A. Boys.*

WINSFORD VICARAGE.—R 11·90 in. below the average of 15 years and the lowest for at least that period.—*W. P. Anderson.*

EXFORD, NORTH LEY.—Springs along the hillside became low in May and did not recover by the end of the year.—*F. G. Heal.*

HOLFORD, WOODLANDS HOUSE.—The first two months were generally mild and dry, March mild and rainy, and April generally cold, especially in the latter part when vegetation was backward. May was very fine and dry though somewhat cold except towards the end, and there was much fine and warm weather in June and July. August was very wet, and September began wet and ended fine and sunny. October was dry and unusually cold till the last few days, and the last two months were mild and dull, November being wet.—*I. L. Joseph.*

SHEPTON MALLET, CHARLTON.—The R was the lowest in the last 12 years, but the number of rain days was only twice larger in that time.—*C. E. Burnell.*

DOWNSIDE ABBEY.—The driest year since records commenced in 1881.—*F. P. Whiteside.*

CHEWTON MENDIP, THE PRIORY.—R the least since observations commenced in 1887.—*Waldegrave.*

STON EASTON.—R 9·42 in below the average of 37 years.—*Henry E. Hippisley.*

EAST HARPTREE, HARPTREE COURT.—The R was the lowest since observations began in 1882, being about 7 inches below the average of 23 years.—*W. W. Kettlewell.*

RADSTOCK, CAMERTON COURT.—R 5·98 in. below the average of 11 years.—*W. Jarrett.*

HIGH LITTLETON VICARAGE.—R 6·28 in. below the average of 12 years and the lowest in that time.—*A. M. Foster.*

BRUTON, MARKSDANES.—A year marked by comparatively few large depressions and only one TS of any severity. With the exception of March, June and August, the R of every month was either normal or in defect.—*Courtney C. George.*

DIVISION VI.—WEST MIDLAND COUNTIES.

GLOUCESTERSHIRE.

CLIFTON, PEMBROKE ROAD.—R 9·00 in., or upwards of 25 per cent., below the average and the smallest since 1892. The fall was deficient in every month except March, April, June and August, that of May being the smallest for 50 years. The number of rain days was not deficient, but the quantity was small on unusually many days. There were no extremes of temp., except for an unusually early spell of frost in October.—*R. F. Sturge.*

FISHPONDS, THE GROVE.—With the exception of November, the autumn and winter months were marked by large deficiencies of R. July also proved dry, while less R fell in May than in any month since April, 1893. On the other hand, to find a March with greater R it is necessary to go back to 1867; June also was very wet. While, therefore, the total for the year proved very deficient, the plentiful R of the early spring and summer months provided a sufficiency of water for the growing crops.—*H. H. Harding.*

BRISTOL, ASHLEY DOWN.—In spite of a deficiency of R equal to 25 per cent. of the 50 years' average, it was a fairly good year for crops, owing chiefly to the remarkable distribution. The year contained—(1) the driest January since 1855, (2) the driest January and February combined on record except 1896, (3) the wettest March since 1867, (4) the driest May on record for at least 50 years, (5) the wettest June since 1879, and (6) the driest December since 1876.—*Percy W. May.*

BIRDLIP HILL.—A year of deficient R and great contrasts. February, May, July and December had all light falls, and March, April, June, August and November falls considerably in excess of the normal.—*A. S. Helps.*

GLOUCESTER, BELGRAVE ROAD.—R ·23 in. below the average of 21 years. Absolute drought from May 12th, to 30th, and partial drought from May 1st to June 4th, 35 days with ·33 in. of R.—*W. Piffe Brown.*

CIRENCESTER, DOLLARWARD HOUSE.—R 4·20 in. below the average of 16 years and very inequally distributed. March, April,

June, August and November were wet, the remainder dry, January, February, May, July and December being particularly so. Had the wells not been filled in March and April, water would have been very scarce.—*Charles P. Hooker.*

CIRENCESTER, FURTHER BARTON.—An unusually pleasant January, dry and quiet with only six days without sunshine was followed by dull, mild and windy weather, till February 19th, when a cold rough period set in and March was mild and wet, save for four summerlike days from 19th to 22nd. April was also sunless and wet, but was followed by drought in May and great heat in June and July. The autumn was unusually cold with N. winds, but December was mild and still. Extremes of drought and wetness, heat and cold alternated, but the ruling features were rather cloud than sun and rather wind than calm. Five months had less than an inch of R and the total for the year was 4·25 in. below the average of 60 years.—*J. E. A. Brown.*

HEREFORD.

HEREFORD, HOLMER HALL.—In spite of the great deficiency of R crops were good, hops extraordinarily so. The heavy R of June and April was most beneficial.—*Michael Hopton.*

CREDENHILL.—A dry year, the ground becoming quite dry within a foot or two of the surface, and the springs lower than ever known before during 35 years' residence.—*Richard M. Whiting.*

PEMBRIDGE, BURTON COURT.—Summer would have been beautiful, but for too much R in August. R, however, was wanted at the end of the year, wells and springs being dry in many places.—*P. L. Clowes.*

SHROPSHIRE.

LUDLOW, ASHFORD HOUSE.—R about two inches below the average, January, February, May and December producing only 3·17 in. between them. March, June, August and November were wet, yielding 16·33 in.—*W. D. Hall.*

BISHOPS CASTLE, CASTLE STREET.—The year almost established a record, inasmuch as the R in what are usually the dry months, March and August, exceeded any fall recorded for these months since 1874, and the falls in the months usually wet, January, February and December, were below the minima for some years.—*E. Griffiths.*

PONTESBURY, SOMERVILLE.—R 1·77 in. below the 20 years' average. The year was remarkable for the dry autumn, and December.—*William Croft.*

NEWPORT, AGRICULTURAL COLLEGE.—R 5·10 in. below the average of 10 years.—*P. Hedworth Foulkes.*

STAFFORDSHIRE.

BURTON, RANGEMORE.—R about six inches below the average of 30 years. Only three months, March, August and November had more than the average fall, and May was the driest ever recorded except in 1896.—*W. Bennett.*

WORCESTERSHIRE.

UPTON-ON-SEVERN, THE EADES.—A seriously dry year during the months when R could affect springs. Wells were in consequence very short.—*E. W. Tennant.*

TENBURY, ROCHFORD.—R 5·03 in. below the average of 10 years.—*J. Tomson.*

KING'S HEATH, BRANDWOOD HOUSE.—R 4·54 in. below the average of 20 years, and with three exceptions the smallest for 31 years. February and May were the driest since 1896, and December the driest for over 30 years.—*G. F. Lyndon.*

WARWICKSHIRE.

ATHERSTONE-ON-STOUR.—A dry year, especially in the winter months. From October 1st, 1904, to February 28th, 1905, only 4·26 in. of R fell, and consequently no water got into the springs, and a water famine resulted. There was practically no water in the wells.—*F. Smith.*

STRATFORD-ON-AVON, AVONFIELD.—The water supply on the Avon was shorter than ever known in 34 years' experience.—*G. W. Everard.*

RUGBY, BILTON GRANGE.—The summer was very dry, except for August and one good fall in June, and this with the dry autumn resulted in scarcity of water and threatened water famine. There was a marked absence of TSS.—*W. Southcomb.*

DIVISION VII.—NORTH MIDLAND COUNTIES.

LEICESTERSHIRE.

WISTOW HALL GARDENS.—January and February were unusually dry, and R was much needed during May, June and July, springs being lower than for many years. The R of August falling upon the abnormally warm soil produced remarkable activity in vegetation through the autumn.—*Frank J. Clark.*

BELVOIR CASTLE.—The total R was 4·34 in. below the average. Total sunshine 1578 hours 10 minutes, or 76 hours 57 minutes above the average ; there were 50 sunless days.—*W. H. Divers.*

LINCOLNSHIRE.

LEADENHAM RECTORY.—R insufficient, especially in winter, and springs low in consequence.—*V. E. Skrine.*

WILLINGHAM-BY-STOW.—Abominably dry. At the close ponds were not yet half full, shallow wells were at their lowest ebb, many dry, and springs were in the same condition.—*R. C. Bacon.*

LOUTH, WESTGATE.—R 8·20 in. below the average and the least in 34 years except in 1884, when ·30 in. less fell.—*F. Fawsett.*

HORKSTOW.—A good cereal year except for oats, but roots were under the average owing to drought in June and July, and hay crops light on account of the dry May.—*E. J. Turton.*

NOTTINGHAMSHIRE.

PLUMTREE, NORMANTON-ON-THE-WOLDS.—R 3·73 in. below the average of 14 years. Absolute drought from May 16th to 30th and partial drought from May 2nd to 30th, ·14 in. of R falling on 29 days.—*Thomas A. Hill.*

CROPWELL BISHOP, CROPWELL GROVE.—R 4·69 in. below the average of 33 years. In 14 years 1900 and 1903 alone reached the average.—*Henry Smith.*

BINGHAM, WHATTON MANOR.—R 2·85 in. below the average of 14 years.—*Montague H. Hall.*

WORKSOP, HODSOCK PRIORY.—The dry period which commenced in the spring of 1904 lasted throughout 1905, and the total R for the latter year was considerably less than that of any of the previous 29 years except 1887. The number of rain days was also less than in any previous year, and there was very little S. The year was a warm one, with no hard frost, March and July being especially warm months. Harvest was unusually early, straw rather short, but the yield of corn fair, barley being the best crop ; hay was a small crop, roots rather patchy but of a good size. Fruit of all kinds very scarce.—*H. Mellish.*

DERBYSHIRE.

MELBOURNE VICARAGE.—A dry spring, early summer and wet August. All plants suffered first from drought and heat and afterwards from wet and absence of warmth.—*J. J. Singleton.*

CHELLASTON.—With the exception of March, June, August and November, which had somewhat above the average R, every month was dry, February, May, July and December being particularly so. Moderate temp. prevailed during the early part of the year. May was cold and July hot. Some sharp frosts occurred in October, but the last two months were on the whole mild.—*Humphrey Chambers.*

BREADSALL LODGE.—R 5·40 in. below the average of 17 years and the least in that period except for 1893.—*W. B. Woodforde.*

DARLEY DALE, WHITWORTH INSTITUTE.—The driest year for a long period. Springs dried up which had not been known to fail before.—*J. H. Dawson.*

DIVISION VIII.—NORTH WESTERN COUNTIES.

CHESHIRE.

CHESTER, CHRISTLETON HALL.—The third driest year since 1880. The winter was not severe, February and March, though cold, being generally dry. Spring was dry with frequent cold winds, but summer commenced hot, bright and dry; the latter part was cooler and showery. The autumn was fine, dry, mild and open generally, and December the driest month since May, 1896.—*John Weaver.*

CHELFORD, ASTLE HALL.—An unusually dry year, the R being 5·53 in. below the average of 20 years and the smallest since 1893 except 1904.—*George Dixon.*

LANCASHIRE.

GARSTON, GRASSENDALE PARK.—In a record of 28 years, only one, 1887, had less R.—*E. C. Abraham.*

AIGBURTH, KELTON.—R 6·08 in. below the average of 30 years. In both May and December less than half-an-inch fell.—*Joshua Sing.*

BLUNDELLSANDS, PARK CORNER.—The driest year since a record was started here in 1876.—*T. Mellard Reade.*

BOLTON, THE PARK.—The R was slightly below the average, the deficiency being chiefly in the early months and in December. No great damage was done to crops in this neighbourhood by the shortage, owing to the heavy subsoil.—*Thomas Midgley.*

CHATBURN, MIDDLEWOOD.—R 6·23 in. below the average of 17 years.—*W. King Wilkinson.*

ST. MICHAEL'S-ON-WYRE VICARAGE.—The driest year since 1887, the R being 7·03 in. below the average of 30 years.—*Phipps J. Hornby.*

HAMPSON-IN-ELLEL.—R 5·33 in. below the average, the deficiency being chiefly in the winter months. Mild weather continued till the second half of November, roses, violets and primroses being in bloom till 18th.—*W. G. Welch.*

LANCASTER, GREG OBSERVATORY.—R 9·20 in. below the average.—*W. French.*

ARKHOLME, STORRS HALL.—The R was about six inches below the average, but better distributed than in 1904, the considerable fall from August to November preventing any drying up of springs in this district.—*F. Fenwick Pearson.*

BROUGHTON-IN-FURNESS.—A comparatively dry year, R being six inches below the average of 10 years. The three driest months were May, June and July, but the fall of the first half of the year was normal and the deficiency occurred in the second half. The average ratio between the two halves of the year for 30 years is 2 : 3, whereas this year it was 4 : 5. The number of rain days was 9 below the average.—*Charles P. Chambers.*

DIVISION IX.—YORKSHIRE.

WEST RIDING.

SWINTON.—Owing to the dryness of the season the traffic at the upper end of the Dearne and Dove Canal was stopped for months, and at the lower end a full cargo could not be taken.—*R. Fowler.*

WATH-UPON-DEARNE, CHAPEL STREET.—The year as a whole was pleasant, sunny and dry, with almost entire absence of severe gales and TSS. The R was five inches below the average. Duration of sunshine 1448 hours ; 80 sunless days.—*F. J. Burman.*

HEMSWORTH HALL.—R 5·75 in. below the average of 13 years.—*F. G. Leatham.*

MELTHAM, HAREWOOD LODGE.—The R was about 13 per cent. below the average, May, the first half of June, and December being exceptionally dry, whilst March was decidedly wet. The temp. was slightly above the average, March, July and December being warm and October and November cold. With the exception of one severe TS on July 9th, there was hardly any T or L. The duration of sunshine was about the average, the first six months being cloudy and the latter bright.—*C. L. Brook.*

WAKEFIELD, WALTON HALL.—R 7·66 in. below the average of 30 years, the falls for May and December being unprecedentedly

low. Absolute droughts from May 15th to 31st and December 12th to 26th, inclusive.—*E. Simpson.*

HUDDERSFIELD, DALTON.—R 9·34 in. below the average of 40 years, making 1905 the driest year except 1887.—*J. W. Robson.*

SOWERBY BRIDGE, HAUGH END.—R 8·41 in. below the average of 13 years. From May 1st to July 21st R fell on 19 days only.—*J. Selwyn Rawson.*

HALIFAX, NORLAND.—R 12·34 in. less than the average of 22 years and the lowest recorded except 1887.—*J. Selwyn Rawson.*

HALIFAX, SOUTH OWRAM.—R 8·09 in. below the average of 15 years, it being the driest year since the record commenced in 1890. Absolute drought from May 16th to 30th.—*George E. Aspinall.*

HALIFAX, THORPE.—R 10·49 in. below the average of 35 years and the least since the gauge was fixed in 1869 except in 1887.—*J. Selwyn Rawson.*

ILKLEY, EATON ROAD.—A fine year, the months of May, June, July and December being especially so. A partial drought lasted from May 3rd to June 16th inclusive, the fall being only ·32 in.—*Albert Wilson.*

PANNAL, KIRKBY OVERBLOW.—May, June and July were terribly dry just here and as a result the crops were much below those six or eight miles away.—*Alfred Rowntree.*

SLAIDBURN, WHITEHOLME.—R 8·80 in. below the average of 32 years.—*W. King Wilkinson.*

HARROGATE, HARLOW HILL.—R 5·24 in. below the average of 22 years.—*G. Paul.*

EAST RIDING.

MARKET WEIGHTON, DALTON HALL.—There was more than the average amount of sunshine and fine weather and less than the average R. Apples were a poor crop, owing to frost and cold winds when the trees were in flower.—*J. Allsop.*

WETWANG.—R 10 inches below the average of 21 years and the lowest yet recorded. From May 4th to June 16th only ·12 in. fell. December was the driest on record.—*E. Maule Cole.*

THIXENDALE.—Springs were low throughout the year and the water supply, whether from R or spring, was often scanty. Harvest began unusually early, but was retarded by unsettled weather soon after the commencement on August 31st. Apples were plentiful, but other fruit somewhat scarce.—*W. H. Fox.*

NORTH RIDING.

LEYBURN, BOLTON HALL.—R 7·46 in. below the average of 29 years, May, June and July being extremely dry. Vegetation suffered generally and crops were very light.—*F. Scrivener.*

INGLEBY MANOR.—The R was 5 inches below the average of 20 years, the months of January, May, June, July and December being all extraordinarily dry. November was, however, the wettest on record. The wheat crop was above the average, barley good, oats poor, and roots a failure.—*De L'Isle.*

KILDALE HALL.—On the whole dry, but from August to November there were few fine days and farm work was much hampered. The ground was, however, never really softened until November was half over.—*Robert B. Turton.*

BIRSTWITH, SWARCLIFFE.—A dry year following a dry winter caused the country to be burnt up by the end of July. December was very dry.—*C. S. Greenwood.*

MIDDLESBROUGH, ORMESBY.—A dry and fine year, with temp., R and rain days all below the average. Droughts occurred in June and December; June was very dry and November very wet. Springs and streams were low until the end of November, and there was shortage of water in many parts, but the ground was sodden at the end of the year.—*W. Stewart Tailyour.*

DIVISION X.—NORTHERN COUNTIES.

DURHAM.

HURWORTH GRANGE.—An absolute drought of 15 days, lasting from June 2nd to 16th, was included in a partial drought of 44 days, during which only ·23 in. of R fell.—*Elizabeth B. Backhouse.*

DARLINGTON, CLEVELAND PARADE.—R 4 inches below the average. More than one-third of the year's R fell in the two months August and November, while no less than 5 months had less than 1 inch each, amongst them being January and December with less than half-an-inch. An absolute drought of 15 days ended on June 16th.—*W. W. Willmott.*

EASTGATE VICARAGE.—The driest year since 1895, except 1902, R being 7·56 in. below the 11 years' average. The drought during June and July burnt up the country so that hay crops were not above half the average.—*J. G. B. Knight.*

SUNDERLAND, WEST HENDON HOUSE.—The R was 6·22 in. below the arithmetical average, and 5·90 in. below the geometrical mean, for the 46 years 1860-1905. A smaller amount in the year has occurred only twice in the record since 1860 inclusive, namely : 1884, 19·12 in., and 1893, 19·58 in. On six occasions in the year the amount registered for the month was below 1 inch, a result not previously experienced here. On no day in the year did the fall reach 1 inch, the highest amount for the 24 hours being ·63 in., on November 1st. This was the smallest maximum daily fall registered for any year since 1859. Partial drought from December 16th, 1904, to January 31st, 1905, with ·42 in. of R ; from May 3rd to June 17th, with ·34 in., and from December 1st to 31st, with ·30 in. Some R, S, or H fell on 235 days in the year, reaching a measurable amount on 166. S fell on 21 days in the year, and reached its maximum depth of 2 inches on April 7th. The duration of time that rain fell was much below the average, the deficiencies being most marked in January, March and December, chiefly the first and last. There was a marked excess in April, and a still more marked excess in November. There were striking excesses of W. and N.W. winds during the year, and striking deficiencies of the easterly winds, including N. and S. Easterly winds were deficient nearly all the year, except in September. The most noticeable monthly excess was that of N.W. in October. The E. wind was the wettest in proportion to the time it blew, and the W., as usual, the driest, but the proportional R with each of the winds was below the average, chiefly so in the case of the N.E., E., and S.E. winds. Owing to the prevalent fine weather, the number of days on which the alternation of sea and land breezes took place was much above the average. The excesses were most remarkable in May and October ; on 11 days of observation in May there were six such cases, and in 27 days in October there were eight. The wind force was above the average for the year, with a very marked excess in January, and less marked excesses in February and April. The amount of cloud was slightly above the average, and fog was slightly above the average for the year, with a very marked excess in June. No other month deviated greatly from the average. The number of days on which there was either T or L was much below the average, there being only six occasions, or one-third of the average. Solar halos were very deficient, the number of days on which they were seen being less than half the average.—*Thomas W. Backhouse.*

RYTON-ON-TYNE.—The driest year since records commenced in 1897, the R being 6·32 in. below the 8 years' average. The falls of January and December were remarkably small.—*John P. Dalton.*

NORTHUMBERLAND.

NEWCASTLE, DEAF AND DUMB INSTITUTE.—R 6·26 in. below the 38 years' average, and the lowest in that period with the exception of 1873, when only 20·35 in. fell. The number of rain days however was 19 above the average.—*Andrew Wright.*

ANGERTON HALL.—Only one fall of R in the year exceeded 1·00 in. As a coincidence it may be mentioned that R fell on the 1st of every month, except October.—*Robert Elliott.*

ROTHBURY, CRAGSIDE.—1543 hours of bright sunshine were recorded in the year.—*W. Bertram.*

PAWSTON [COLDSTREAM].—Another dry year, especially so in the early months and in December. The corn crops were very light on account of drought in May and June. During one month, from 14th October to 13th November, however, 6·92 in. of R fell.—*B. P. Selby.*

CUMBERLAND.

MILLOM, LEYFIELD.—R 5·87 in. below the average of the previous 15 years, but rain days 5 above the average.—*Cedric Vaughan.*

SEASCALE.—R 4·82 in. below the average of 16 years, and during that period only 1901 and 1902, had less R.—*Robert Hellon.*

KESWICK, SHU-LE-CROW.—R 11·22 in. below, and rain days 6 above, the average for 33 years. S only fell on 2 days in January and 2 in April. It was completely absent on low ground in the later months of the year.—*A. Mitchell Dawson.*

ULLOCK.—R 6·35 in. below the average of 11 years. January had the least R of any month of the year, but the total fall of the first seven months was nearly equal to the average. The remaining months were deficient; but the summer was fine on the whole with little drought, and the harvest was much spoiled by close rainy weather in the first half of September.—*John H. Walker.*

COCKERMOUTH, BROUGHTON GRANGE.—The R was 6·79 in. below the average of 32 years, and there were few heavy falls.—*G. S. Wilson.*

GREYSTOKE, BELLE VUE.—R 6·42 in. below, and rain days 2 above, the average of 13 years.—*M. Rowe.*

PENRITH, NUNWICK HALL.—R 7 inches below the average of 25 years, and that of May the least in the record.—*A. L. Heywood Thompson.*

WESTMORLAND.

RYDAL, THE STEPPING STONES.—There were few very wet days in the first 5½ months. Very little S fell, and there was none in the last 6 months. The longest periods without R were May 11th—23rd, June 3rd—16th, and September 16th—25th, inclusive.—*Gordon G. Wordsworth.*

DIVISION XI.—MONMOUTH, WALES AND THE ISLANDS.

GLAMORGAN.

COWBRIDGE, FONMON CASTLE.—R 10 inches below the average of 21 years, and the smallest since 1887. May was practically rainless, having only one shower of .02 in. January and February together were the driest ever recorded, but March and June were unusually wet.—*O. H. Jones.*

LOWER PENARTH.—From February 25th to March 18th and from October 26th to November 14th, inclusive, R fell every day. The longest rainless period was from May 11th to 30th, inclusive.—*Edgar J. Evans.*

PORT TALBOT, MARGAM.—R 10 inches below the average, but resulting in no serious drought. The small amount of the winter R, was the most marked feature.—*Godfrey Lipscomb.*

NEATH, FAIRY LAND.—R 10·31 in. below the average of 20 years, and the driest recorded in more than that period.—*E. Ll. Green.*

CARMARTHEN.

LLANWRDA, DOLAUCOTHY.—The R was normal and the year was favourable for hay, corn and potatoes, but not for roots. But for a few heavy falls, May, June and July were dry and warm. Almost every month had some heavy falls, and a number of days of slight fall. The open weather in November and December enabled the farmers to keep their cattle in the fields. The latter month was very dull, but dry.—*J. Hills-Johnes.*

PEMBROKE.

HAVERFORDWEST, HIGH STREET.—R 6·50 in. below the average of 50 years. A fine and dry year, remarkable for low temp. in the

spring, summer and autumn. May was very dry, but late frosts injured the prospects for the fruit crop. September and October were cold and fine, and November very wet. Duration of sunshine, 1502 hours (Campbell-Stokes).—*E. Picton Phillips*.

ST. DAVIDS.—The weather was generally fine and seasonable. The heavy R of March retarded agricultural work, but this was compensated for by the improvement in April, and the exceptionally fine months of May, June and July. Hay crops were abundant and well saved. The corn crops, being heavy, were badly laid by the R and wind of August, but the weather of September and October dried the grain and enabled it to be carried in good condition. Green crops were also good.—*D. P. Williams*.

BRECON.

PONT NEATH VAUGHAN [GLYN NEATH]. — R about six inches below the average. The Works here are entirely dependent on water, and the shortage during the summer months interfered considerably with business.—*W. N. Hogben*.

CRICKHOWELL, GWERNVALE.—There was a marked deficiency of R in the first two months, followed by a wet March. April had more than the average, but May was the driest month for many years. July had also much less than the average, and the fall up to the end of October was the smallest for many years. November was wet, but a dry December made the year's total over 9 inches below the average.—*E. Pirie Gordon*.

LLANFRYNACH, TYMAWR.—R 6·31 in. below the average of 10 years.—*R. D. Garnons Williams*.

BUILTH, TYN-Y-BERLLAN.—R 3·73 in. below the average. No R fell from May 3rd to 30th, inclusive, and December was also exceptionally dry. No measurable S fell during the year, and there was only one TS.—*W. W. Baldock Fry*.

DENBIGH.

DENBIGH, GARN.—The R was 3·48 in. below the average of 10 years, that in December being the smallest since 1883, when the gauge was set up. August and the early part of October were the coldest for many years.—*W. D. W. Griffith*.

ISLE OF MAN.

DOUGLAS, WOODVILLE.—Another "decidedly fine" year, the second in succession, with less R by ·70 in. than in 1904. The

wettest months were March, August and November; the driest January, February, May, July and December, each with less than 2·00 in. The R in December was the lowest recorded here for the month in 30 years. The number of rain days was much below the average, but no less than five falls exceeding 1·00 in. were observed, viz.: in March, May, June, and August. With exception of ·04 in. on 6th, no R fell from May 2nd to 25th. An unusually early frost in mid-October seriously damaged "inland" gardens, but here they entirely escaped and were full of flowers. Dahlias were especially beautiful, until destroyed by a gale on November 26th, still there were an unusual number of late flowers, which only succumbed to a violent E.S.E. gale on December 31st.—*Herbert Story.*

GUERNSEY.

ST. MARTIN'S, LES BLANCHES.—R only ·12 in. below the average of 10 years, but the number of rain days was 19 above the average. The number of days with ·01 in. only was 39, or 10 above the average. The R of November was the second heaviest in 12 years, and was followed by the driest December in the same period. Absolute drought extended from May 4th to 28th, inclusive, and partial drought from May 3rd to June 3rd, with ·10 in. of R.—*Basil T. Rowsell.*

ST. MARTIN'S, OBERLAND.—The R was unevenly distributed. There was an absolute drought for 28 days ending on May 31st, the total depth for May being only ·15 in., and for July ·58 in. On the other hand, during 16 days ending on March 2nd, there was a mean daily fall of ·17 in., and during 23 days ending on November 15th, a daily mean of ·31 in. In March 14 consecutive days ending on 18th had a mean fall of ·28 in. per diem.—*Allanson Bailey.*

SCOTLAND.

DIVISION XII.—SOUTHERN COUNTIES.

WIGTON.

WHITHORN, CUTROACH.—R the least in the 12 years of the record, but the number of rain days did not fall below the average. Half the falls were of amounts less than ·10 in., and only one fall exceeded ·76 in.—*John G. Martin.*

KIRKCUDBRIGHT.

CARGEN [DUMFRIES].—R 9·11 in. below the average of 46 years ; the only drier years since the record commenced in 1860 were 1867, 1878, 1880 (the driest in the record, 13·03 in. below the average), and 1887.—*Robert F. Dudgeon.*

DUMFRIES.

DUMFRIES, IVY BANK.—R 6·74 in. below the average of 19 years, and the least in that period.—*W. Andson.*

LOCHMABEN, ESTHWAITE. —The R of December was scarcely one-third of the average, and that of every month of the year except March, April, May and November, was below the average. It is singular that the R of 12 of the 16 months from September, 1904, was below the average, and the natural result was that at the end of 1905 reservoirs were very low, and the water supply restricted in many cases for almost three months, while wells were completely dry, and springs, never previously known to fail, ceased to flow.—*Wm. L. Halliday.*

ROXBURGH.

HAWICK, BRANXHOLME.—The year was similar in character to 1904, being favourable for pastoral farms, though arable land suffered from drought and there was a shortage of straw. The fruit crop was small and it was a bad year for honey.—*John G. Winning.*

MELROSE ASYLUM.—R 3·32 in., or 11·1 per cent., less than the average of 23 years, and rain days 12, or 3 per cent., above the average. The max. fall in 24 hours, ·94 in., was ·40 in. below the average.—*A. C. Pattman.*

DIVISION XIII.—SOUTH EASTERN COUNTIES.**BERWICK.**

COLDSTREAM, LOCHTON.—A year remarkable for spells of dry weather in January, February, May, June and December, and for the very open winter.—*John Aitchison.*

WEST FOULDEN.—Agriculture suffered severely from the small R of May and June, when only ·97 in. fell in the two months. The 12 months from July, 1904, to June, 1905, were the driest during 32 years, the total R being only 18·93 in. From October 15th to November 30th, on the other hand, it was continually wet.—*Jas. Hewat Craw.*

MIDLOTHIAN.

MUSSELBURGH, LEVENHALL.—Less than one-third of the total R was recorded in the first 5 months, while almost one-half fell in the 4 months August—November. No R fell on the 14 days June 2nd—15th.—*Margaret F. A. Husband.*

LINLITHGOW.

LINLITHGOW, NETHER PARKLEY.—Dry, with scarcely any S in the whole year. There was scarcity of water; several large reservoirs were never so empty before. The crops suffered from want of R, being scanty and light.—*Elizabeth B. Henderson.*

DIVISION XIV.—SOUTH WESTERN COUNTIES.**AYR.**

BARRHILL, DOCHROYLE.—R 7·30 in. below the average of 29 years.—*John Scott.*

GIRVAN, PINMORE.—R 1·47 in. below the average of 24 years. December was the mildest since the record began in 1874.—*Hugh Hamilton.*

DIVISION XV.—WEST MIDLAND COUNTIES.**DUMBARTON.**

ARROCHAR, THE MANSE.—A warm, dry year, with much sunshine during early summer. There were few gales, little S and very little frost.—*D. Macfarlane.*

STIRLING.

FALKIRK, LAURIESTON.—A year of good weather, with abundant sunshine, no severe storms, a minimum of E. winds, and moderate R.—*W. Ballantine.*

BUCHLYVIE, THE MANSE.—R 3·52 in. below, and rain days 18 above, the average of 16 years. The deficiency was thus not caused so much by tracts of dry weather, as by the general lightness of the R. On only 2 days did the fall reach 1 inch. Continuous R in March and April saturated the soil and greatly delayed sowing. Summer was fine; S appeared on the hills on October 15th, but December was damp and mild.—*John A. Macdonald.*

DIVISION XVI.—EAST MIDLAND COUNTIES.

KINROSS.

KINROSS, GELLYBANK.—After a mild winter, with an almost entire absence of frost, spring was cold and dry. Grain crops were light in straw, but harvest was early and got in in fine order.—*George Henderson.*

FIFE.

ST. ANDREWS, SOUTH STREET.—A dry year, with a remarkable absence of T. June and July were unusually fine and warm. Frosts in October and November were more frequent and severe than usual. There were frequent high winds, but no bad storms. The water supply was very deficient until November.—*I. J. R. Macadam.*

PERTH.

OCHTERTYRE [STIRLING].—R 7 inches below the average of 22 years, during which period it has only three times been less.—*Colin M. Dundas.*

DOUNE, GARTINCABER.—The year was marked by small R in the early spring and summer, and by high temp. in winter, with dark, cloudy weather. Scarcity of water for farms was felt until August.—*G. Burn Murdoch.*

BRIDGE OF EARN, BALLENDRICK.—The features of the year were the excessive drought of the first half and the large amount of sunshine experienced during the summer. It was considered the finest summer ever known in Perthshire.—*Ralph Richardson.*

LOCHEARNHEAD, ARDVORLICH.—R 5·50 in. below the average. January, February, and from April to July inclusive, were all remarkably dry.—*J. Stewart.*

COUPAR ANGUS.—Notably light R. March and November had each an ample surplus, but all the other months were deficient, January and February together contributing only about a fourth of their average. It was a fairly favourable year with no extremes of temp., and all crops were well above the average.—*John Robertson.*

DIVISION XVII.—NORTH EASTERN COUNTIES.

KINCARDINE.

FETTERCAIRN, THE BURN.—The R would have been far below the average had it not been for the heavy falls of the last days of

October and of November. The latter was the wettest month since April, 1898.—*Chas. McInroy.*

ABERDEEN.

ABERDEEN, CRANFORD.—The most remarkable features were the deficiency of frost and of S, and the wet harvest. There were only 12 dry days, and some of them overcast, from September 23rd to the end of November; on the other hand, January, June and December were very dry.—*David McHardy.*

ALFORD, LYNTURK MANSE.—R not much above average, but the period of 8 weeks, from September 23rd to November 17th, had a notably heavy R (13·74 in.), and included only 4 dry days. A good deal of corn in later districts stood out through this period, and was much damaged.—*James B. Duncan.*

ELLON, MAINS OF WATERTON.—The feature of the year was the extreme wetness of October and November, the latter being the wettest November in the record. December, however, was the driest with the exception of 1879.—*Thos. F. Jamieson.*

NEW DEER.—Of the 67 days from September 23rd to November 28th, R fell on 62, amounting to 15·13 in.—*Henry Cowie.*

MORAY.

CARRON, ARCHIESTOWN.—May, June and July were exceptionally dry, but from September 23rd to November 17th 10·96 in. of R fell, and there were only 5 dry days out of 55. Crops were more damaged than in any year within the memory of the present generation.—*John Milne.*

NAIRN.

CAWDOR CASTLE.—Remarkable for want of S, for drought in early summer, and for abnormal mildness in November and December.—*Cawdor.*

DIVISION XVIII.—NORTH WESTERN COUNTIES.

WEST INVERNESS.

GLENELG, THE MANSE.—April was dry, June beautifully warm, but from July 19th to September 19th there were only 8 dry days, and harvesting was consequently much delayed.—*Alex. Mactaggart.*

LOCHMADDY.—April, May and June were dry, and the summer was the finest for many years. March and September were wet.—*T. D. Macgregor.*

EAST INVERNESS.

DRUMNADROCHIT.—R 3·55 in. below the average of 19 years, but the number of rain days was 15 above the average. The summer was unusually dry and pleasant.—*Angus Grant.*

DIVISION XIX.—NORTHERN COUNTIES.

SUTHERLAND.

ALTNAHARRA.—Dry and warm summer, with much sunshine and no frost such as has occurred in recent summers. No S fell in the later months.—*George Mackay.*

BETTYHILL.—A wet year, the first four months and the penultimate four were very wet, but May and June proved exceptionally dry.—*Evander Mackay.*

SHETLAND.

FETLAR.—A very good year for pasture. Very little T, frost or S.—*James A. Campbell.*

IRELAND.

DIVISION XX.—MUNSTER.

CORK.

MALLOW, SUMMER HILL.—R 2·14 in. below the average of 16 years.—*G. F. Williamson.*

KERRY.

DARRYNANE ABBEY.—R ·04 in. below the average of 25 years, but 3·30 in., or 6·5 per cent., above that of the last 15 years.—*D. O'Connell.*

WATERFORD.

WATERFORD, WHITFIELD COURT.—The year was characterised by long spells of practically rainless weather. From January 25th to February 23rd ·28 in. fell, from May 3rd to 24th none fell, and from September 10th to November 9th, roughly two months, only 1·14 in. fell.—*H. Chavasse.*

TIPPERARY.

NENAGH, HIGHLANDS.—The early months were mild with slight frosts. The R was light until that of August 25th, which did great injury to corn both cut and uncut. Grass crops were mostly light, but were well saved, and green crops suffered from the small R of May, June and July, causing a great want of winter food. There were a few frosty nights in November, but it was generally mild afterwards, with strong winds and favourable weather for farm work.—*John Mounsey.*

BALLINGARRY, GURTEEN.—A dry year, the R being about 6 inches below the average. Long partial droughts occurred in May, September and October, and springs all dried up or were very low throughout the summer and autumn.—*P. Bicknell.*

CLARE.

NEWMARKET-ON-FERGUS, CARRIGORAN.—The first three months were wet and unseasonably mild, the next four dry, with prevalence of easterly winds and normal temp. The remainder was seasonable but milder, notably in December.—*Alfred Barker.*

BROADFORD, HURDLESTOWN.—R 3·94 in. below, and rain days equal to, the average of 20 years.—*W. Bentley.*

MILTOWN MALBAY.—May and June were cold, with drying, sunny weather, and the summer was dry, so that grass was parched and vegetation checked. Autumn was wet, save the dry and frosty October, and December was mild with little R, but with a heavy gale at the end.—*Michael Molohan.*

LAHINCH, MOY HOUSE.—A remarkably dry year with very fine weather. August was much drier than usual, October dry with cold nights, and December the driest yet recorded.—*Isabella F. K. Bowes.*

DIVISION XXI.—LEINSTER.**WEXFORD.**

TEMPLEUDIGAN, BALLINDONEY.—R 12·02 in. below the average of 10 years. The first two months were fine and dry, with R much below the average, March and April were very wet, and from May to July fine and warm, with little R. August was wet, and September and October dry, the R for the two months being 5·08 in. below the average. November was cold, with nearly average R, and

December was fine and dry, with R 3·16 in. below the average. The R from January to June, and from July to December, was strangely equal, the first six months having 17·94 in., and the last six 17·96 in.—*Janssen Budgen*.

ENNISCORTHY, MONART RECTORY.—Unusually dry and with abnormal distribution of R, March and August being the wettest, and February and October the driest, months.—*W. F. A. Ellison*.

ENNISCORTHY, MONKSGRANGE.—R 8·83 in. below the average of 12 years, and the lowest since 1893.—*Goddard H. Orpen*.

QUEEN'S COUNTY.

ABBEY LEIX, BLANDSFORT.—R 4·58 in. less than the average of 30 years, and wells and springs very low.—*J. Loftus Bland*.

KING'S COUNTY.

TULLAMORE.—A fine year, with R much below the average, especially in May, June and July.—*R. S. Craig*.

DUBLIN.

BALLYBRACK, STREAMVILLE.—R 1·65 in. less than the average of 20 years.—*F. B. Falkiner*.

KILLINEY, CLONEEVIN.—The total R was ·34 in., and the rain days 4, below the average of 20 years. There was an absolute drought from September 13th to 26th, inclusive. Sleet or H was observed on 14 days.—*R. O'B. Furlong*.

RATHMINES, LEINSTER ROAD.—An average year, with a mild winter. The spring was wet and cold, but was followed by a brilliant and warm but short summer, with the driest July on record. August was the wettest in the record; the greatest R ever recorded in one day in Dublin falling on the 25th. The autumn was cold, the number and intensity of frosts in October being remarkable, but November was the coldest month of the year. December was abnormally mild.—*E. H. Cannon*.

BALBRIGGAN, ARDGILLAN.—R 4·44 in., and rain days 4, below the average of 12 years.—*Edward R. Taylor*.

WESTMEATH.

ATHLONE, TWYFORD.—The driest year in a record extending from 1875.—*John P. Hodson*.

LONGFORD.

BALLYMAHON, NEW CASTLE.—Unusually mild, with great deficiency of R at the time when it was most necessary. Many springs and wells were dry for a considerable period.—*W. H. King-Harman.*

DIVISION XXII.—CONNAUGHT.

GALWAY.

WOODPARK [SCARIFF].—R 7·89 in. below, but rain days 13 above, the average of 10 years, every month except March and August showing a deficiency.—*R. F. Hibbert.*

BALLINASLOE.—A dull and dark year. The R was 9·18 in., or nearly 25 per cent., below the average of 33 years, while the number of rain days exceeded the average by 16.—*W. H. Kempster.*

TUAM, GARDENFIELD.—The driest year in the last 25, except 1893 and 1902. The R was above the average in March and August, but below it in every other month.—*Henry Kirwan.*

MAYO.

CONG, THE GLEBE.—R 12·28 in. below the average of 9 years. Remarkably fine from March 28th to November 25th.—*R. Y. Lynn.*

SLIGO.

BALLYMOTE, NEW PARK.—R 4 inches below the average of 16 years. There was an early harvest, corn being ripe by the second week of August, but the potato crop was injured by the wet autumn.
R. A. Duke.

COLLOONEY, MARKREE OBSERVATORY.—The driest year since 1887 ; R nearly 2 inches below the average.—*J. R. Armstrong.*

DIVISION XXIII.—ULSTER.

CAVAN.

BALLYCONNELL HOUSE.—R 6·89 in., and rain days 19, below the average of 13 years, and consequently the year proved favourable for agricultural work.—*S. B. Roe.*

FERMANAGH.

BELLEEK.—The smallest R recorded in 26 years.—*John Beacom.*

ARMAGH.

LURGAN, BELLE VUE.—R 4·88 in., and rain days 5, below the average of 10 years, the R being the least, except that of 1887 and 1893, in 25 years. March was rather wet and August very wet, but the other months were dry, the last four with 7·18 in. being proportionally the driest part of the year.—*Samuel A. Bell.*

ANTRIM.

BELFAST, SPRINGFIELD.—R considerably below the average. S held sway until January 17th, and during February S and sleet were constantly in evidence. March and April had more than the average R; the first sign of spring was on April 25th. A long spell of fine weather occurred in May, followed by a wet June. July was fine and of great benefit to the land, but was succeeded by a very wet August, of which the 25th with 2·22 in. was the wettest day for 22 years. The two following months were both fine, but R came heavily in November and December.—*Thomas G. Firth.*

DONEGAL.

HORN HEAD.—R 5·50 in. below the average.—*Charles F. Stewart.*

HEAVY RAINS IN SHORT PERIODS.

WE never write this section without a twinge of misgiving. The observations it records are less systematic than those dealt with in any other part of *British Rainfall*; they depend largely on the chance of heavy falls of rain occurring in the hours of leisure of the observer, and thus the falls recorded in one year cannot be confidently compared with those recorded in another. We have long hoped in vain that the possessors of self-recording gauges of the necessary degree of accuracy would examine the automatic traces for the purpose of helping us in this discussion; but they do not seem disposed either to do so or to let us do it for them. There is always a spark of comfort visible in the reflection that there is no reason to suppose that the observers of 1905 were more (or less) vigilant in their work than those of earlier years. We have, however, taken a step similar to the reduction of the salary of a Minister when a parliamentary majority wish to call his attention to his duties; we have cut out the usual diagram in order to call attention to this section and in the hope of receiving suggestions for its improvement.

Eighty-three instances of timed falls in 12 hours or less have been reported for 1905, very nearly the average for 12 years.

1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	Average.
86	93	63	88	61	113	72	83	61	101	58	83	80

A fairer basis of comparison, so far as such uncertain data can be compared, is found in the cases of less than two hours' duration:—

Entries of less than Two Hours' Duration.

	No. of entries.	Average rate per hour.
Average 1892—1904	56	1·84 in.
1905	59	1·68 in.
Difference	+ 3	— ·16 in.

Of the 83 falls reported, only seven are in any way remarkable.

Date.	Div.	Station.	Amount.	Duration.		Rate per hour.
				hr.	min.	in.
July 9..	III.	Ponders End, Bylock Hall...	1·05	...	19	3·32
Aug. 28..	IX.	Huddersfield Cemetery	1·54	...	30	3·08
July 27..	II.	Sevenoaks Rectory	1·66	...	40?	2·49?
" 9..	IV.	Brentwood Shenfield Rectory	1·73	...	45	2·31
" 9..	III.	Enfield, Carisbrooke	2·44	...	50	2·93
" 9..	VII.	Market Overton	2·07	1	0?	2·07?
Aug. 25..	XXI.	Glen-na-Smoel (Water Wks.)	4·90	9	0	·54

None of these falls requires special mention, except perhaps that of 4·90 in. in 9 hours at Glen-na-Smoel, but in intensity that was exceeded in 1904 by 4·85 in. falling in 5 hours at Golcar, and far exceeded in 1890 (to take only one other instance) by 4·80 in. in 2 hours at Mellington Hall. It must not be supposed, however, that a sustained rainfall of more than half-an-inch an hour for nine consecutive hours is a common occurrence; fortunately for the country it is very rare.

Heavy Rains in Short Periods in 1905.

Date.	Div.	Station.	Amount.	Duration.	Rate per hour.
			in.	hr. min.	in.
Aug. 29 ...	II.	Oxshott.....	·22	... 4	3·30
July 9 ...	I.	St. Pancras, Camden Square..	·14	... 4	2·10
„ 9 ...	III.	Gt. Berkhamstead, Rosebank	·15	... 5	1·80
April 7 ...	II.	Betchworth, The Holmes.....	·20	... 6	2·00
Sept. 7 ...	„	Ardingly, Lynwood House ...	·20	... 6	2·00
Nov. 26 ...	IV.	Norwich, Ipswich Road.....	·25	... 7	2·14
July 9 ...	I.	St. Pancras, Camden Square..	·18	... 7	1·54
Oct. 4 ...	I.	„ „ „	·18	... 7	1·54
June 27 ...	II.	Tenterden	·24	... 8	1·80
Oct. 5 ...	III.	Woburn, Ridgmount	·23	... 9	1·53
April 24 ...	XXII.	Newport, Burrishoole House .	·25	... 10	1·50
June 28 ...	VII.	Irby-upon-Humber	·53	... 14	2·27
July 9 ...	III.	Blisworth.....	·31	... 15	1·24
„ „ ...	III.	Ponder's End, Bylock Hall ...	1·05	... 19	3·32 x
„ 27 ...	II.	East Liss, Newlands	·94	... 20?	2·82?
„ „ ...	„	Ightham, Belmont Lodge.....	·72	... 20	2·16
„ 8 ...	XV.	Falkirk, Laurieston	·70	... 20	2·10
June 27 ...	XVI.	Forfar, Lilyfield	·57	... 20	1·71
July 2 ...	VIII.	Cartmel Fell Vicarage	·50	... 20	1·50
May 30 ...	II.	Epsom, Ashley Road.....	·66	... 23	1·72
Aug. 28 ...	VII.	Burton-on-Stather	·84	... 25	2·02
June 17 ...	III.	Witney.....	·81	... 25	1·94
Aug. 28 ...	IV.	Hawkedon Rectory.....	·73	... 25	1·75
July 9 ...	III.	Woburn, Milton Bryant	·49	... 25	1·18
Aug. 28 ...	IX.	Huddersfield, Cemetery	1·54	... 30	3·08 x
July 9 ...	IV.	Buckhurst Hill, Ardmore.....	1·20	... 30	2·40
„ „ ...	„	Great Leighs, Lyons Hall.....	·98	... 30?	1·96?
„ 27 ...	„	„ „ „ „	·95	... 30	1·90
„ 9 ...	VIII.	Rochdale, Fieldhead	·85	... 30	1·70
Aug. 28 ...	II.	Crowborough, Steel Cross Ho.	·72?	... 30	1·44?
July 27 ...	„	Maidstone, Rumwood, Langley	·64	... 30	1·28
„ 9 ...	III.	Ponder's End, Bylock Hall ...	·64	... 30	1·28
June 28 ...	VIII.	Wilmslow, Parksyde.....	·60	... 30	1·20
„ 17 ...	XII.	Dalry	·60	... 30	1·20
„ „ ...	III.	Oxford, Banbury Road	·54	... 30	1·08
July 27 ...	II.	Ulcombe Place.....	·52	... 30	1·04
June 20 ...	VIII.	Cartmel Fell Vicarage	·50	... 30	1·00
July 9 ...	XI.	Deganwy, Y Berlfa.....	·63	... 35	1·08
„ 27 ...	II.	Sevenoaks, The Rectory	1·66	... 40?	2·49?x
June 27 ...	IV.	Darsham, Sibton	·85	... 40?	1·28?

Heavy Rains in Short Periods in 1905—continued.

Date.	Div.	Station.	Amount.	Duration.	Rate per hour.
			in.	hr. min.	in.
July 9 ...	VI.	Brentwood, Shenfield Rectory	1·73	... 45	2·31 x
„ „ ...	II.	Erith, Crossness	·86	... 45	1·15
„ „ ...	III.	Ponder's End, Bylock Hall ...	1·69	... 49	2·07?x
„ „ ...	„	Enfield. Carisbrooke	2·44	... 50	2·93 x
„ „ ...	„	Haileybury College.....	1·23	... 50	1·48
„ „ ...	VII.	Market Overton	2·07	1 0?	2·07 x
„ 10 ...	XIV.	Hamilton, Laighstone Hall ...	1·62?	1 0	1·62?
„ 9 ...	VI.	Hoar Cross	1·52	1 0	1·52
June 27 ...	„	Salt Vicarage	1·52	1 0	1·52
July 9 ...	VII.	Mayfield House [Ashbourne]..	1·14	1 0	1·14
„ „ ...	III.	Harrow Weald, Hill House ..	1·03	1 0	1·03
July 9 ...	III.	Loddington	1·00	1 0	1·00
June 12 ...	II.	Haslemere, Lower Street	1·75	1 5	1·62
Aug. 28 ...	VIII.	Broughton-in-Furness.....	1·08	1 5	1·00
May 30 ...	II.	Reading	1·00	1 20	·75
July 9 ...	VI.	Lichfield, St. John Street.....	1·63	1 30	1·09
Nov. 2 ...	XVIII.	Alness, Ardross Castle	1·09	1 30	·73
June 16 ...	V.	St. Austell, Bunney Mine ...	1·25	1 35	·79
July 9 ...	III.	Harrow Weald, Hill House...	1·18	1 40	·71
June 12 ...	II.	Haslemere, Jesses	2·00	2 0	1·00
Aug. 15 ...	V.	Okehampton, Oaklands.....	1·72	2 0?	·86?
„ „ ...	„	Bishops Cannings	1·52?	2 0	·76?
Feb. 25 ...	XV.	Arrochar House	1·45	2 0	·73
June 12 ...	II.	Haslemere, Hazelhurst.....	1·30	2 0	·65
Aug. 27 ...	III.	Shefford, Clifton Bury	1·13	2 0	·57
July 9 ...	VIII.	Rochdale, Fieldhead	1·11	2 0	·56
June 18 ...	XXI.	Edenderry.....	1·51	2 20	·65
Aug. 25 ...	„	Glen-na-Smoel (Water Wks.)	2·02	3 0	·67
May 30 ...	III.	Broxbourne, Stafford House...	1·34	3 0	·45
Aug. 29 ...	„	Witney.....	1·18	3 0	·39
July 3 ...	XIII.	Coldstream, The Hirsell	1·70	4 0	·43
„ 9 ...	VI.	Mayfield House [Ashbourne]..	1·66	4 12	·40
„ „ ...	III.	Harrow Weald, Hill House...	2·21	4 40	·47
Aug. 15 ...	V.	Exmouth, Nidderdale	2·89	6 0	·48
„ 25 ...	XXI.	Glen-na-Smoel (Water Wks.)	2·88	6 0	·48
Nov. 27 ...	VIII.	Broughton-in-Furness.....	1·52	6 0	·25
Aug. 15 ...	V.	Dawlish, Charlton House.....	3·38	7 20?	·46
„ „ ...	„	Exmouth	2·47	8 30	·29
„ 25 ...	XXI.	Glen-na-Smoel (Water Wks.)	4·90	9 0	·54
„ 28 ...	IV.	Burgh Castle Rectory.....	2·63	9 0	·29
„ 25&26	XXI.	Ballybrack, Streamville.....	2·40	9 0	·27
„ „ „	XXI.	Balbriggan, Ardgillan	2·12	11 0	·19
„ 15 ...	V.	Starcross, Cofton Vicarage....	3·98	12 0	·33

HEAVY FALLS ON RAINFALL DAYS IN 1905.

IN discussing the wettest days of 1904 we were able to use 3093 daily records of rainfall, but for 1905 we have had to deal with 3250. Every one of these returns we hope is correct so far as regards the wettest day in the year. This does not necessarily mean that the record is perfect, for in many cases the rain which fell on several days may have been allowed to accumulate when the amount was small, and sometimes the total number of days with rain noted in the record is much too low, without the particular wettest day being affected by the neglect. Where daily values are sent in we have been able to satisfy ourselves as to the correctness of the figures; but when the maximum fall is simply stated on the Observer's responsibility we have not the same means of checking it. The detailed study of the wettest day at each station is of double value. First and chiefly it directs attention to the severest rain storms of the year, and makes it possible to select instances for the investigation of the extent of heavy rain over the country, and the relation of the area affected to the passage of thunderstorms, or of the larger atmospheric disturbances. In the second place it enables us, often it must be confessed with difficulty, to ascertain which observers enter their readings to the wrong day, and it is often the means of discovering, and sometimes of correcting, serious errors which might not otherwise come to our notice.

It was seen at a very early stage that the printing of the whole mass of M^* would be inadvisable. No one would trouble to run over the dreary desert of figures, so a selection of the remarkable instances only is given in the Chronicle, while the mass is dealt with in a generalized form in the Abstract. For the Chronicle it has been the custom to select the remarkable falls only, and it has been assumed that 2.50 in. falling in one day is a remarkable fall in any part of the country, although in the drier regions a smaller fall may

* This convenient symbol, which may be taken as singular or plural as occasion requires, is a contraction for the Maximum Fall on any Rainfall day in the year at a particular station.

be no less worthy of attention. To meet the case of dry stations the limit of 7·5 per cent., or about $\frac{1}{13}$ of the total rain of the year has been adopted ; and thus the Chronicle which follows quotes all **M** which exceed either 2·50 in., or 7·5 per cent. of the year's rain. The number quoted this year is unusually small, and it is specially noteworthy that very few instances of such falls occurred in Scotland.

In 1905 there were few examples of very severe thunderstorms, or wide-spread heavy rains, but still there were some cases in which it was worth while to prepare maps of the day's rainfall in the manner detailed at length in last year's volume (p. [113]). Small reproductions of those maps are given, with the tracks of the associated cyclones from the monthly supplement to the *Weekly Weather Report* issued by the Meteorological Office. We only remark here that each map is an accurate representation of the distribution of heavy rain on the day in question, and embodies many hours' work.

Part I.—Chronicle.

March 10th.

The first wide-spread fall of heavy rain in the year brought **M** to about 140 stations in Wales and the south and west of England ; only three stations, however, were wet enough to quote :—

V.	Buckfastleigh (Bossell Park)	2·63 in. or 5·5 per cent.
„	Ashburton (Holne Vicarage).....	2·74 „ 5·3 „
„	„ (Druid House).....	2·60 „ 6·4 „

March 11th.

M occurred at about 20 stations in the north of Scotland giving a heavy fall in the Hebrides :—

XVIII.	S. Uist (Ushenish).....	2·50 in. or 2·9 per cent.
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April 1st.

An isolated heavy fall in the Lake District.

X.	Dungeon Ghyll	2·66 in. or 2·5 per cent.
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May 30th.

The South Midlands had a heavy fall of rain yielding **M** at about 30 stations, at two of which the percentages were large enough to quote.

II.	Finchampstead (West Court)	1·85 in. or 8·1 per cent.
„	Reading	2·02 „ 9·5 „

June 5th.

In the Channel Islands and the south and east of England there was a steady long continued rain extending in some cases without

intermission for the whole 24 hours. This was associated with a slow-moving depression, which passed in an easterly and northerly direction through France, Belgium and Holland parallel to the English Channel and North Sea. The rainfall was of the typical cyclonic kind, and it does not appear that there were any thunderstorms associated with it. The M was recorded at about 500 stations, the falls at 72 of which were large enough to be quoted below. Three of them exceeded 3·00 inches, or 12 per cent. of the year's fall. The accompanying map illustrates the distribution of the rain; the corresponding cyclone track cannot be shown as it lies too far to the south-east.

II.	Hoo St. Mary	1·56 in.	or 8·2 per cent.
„	Deal and Walmer W.W.	2·00 „	7·8 „
„	Deal (Sewage Works)	2·02 „	7·5 „
„	Tilmanstone (Danefield)	2·17 „	7·8 „
„	Wingham (Crockshard).....	2·19 „	8·2 „
„	„ (Margate W.W.).....	2·08 „	8·8 „
„	Sandwich (St. George's Golf Club).....	1·65 „	7·8 „
„	Littlebourne House	2·33 „	9·5 „
„	Canterbury (Irrigation Works)	2·31 „	10·0 „
„	Sittingbourne (Sharsted Court)	1·96 „	8·3 „
„	Canterbury (St. Thomas' Hill)	2·12 „	8·2 „
„	Ospringe (Lorenden)	2·13 „	8·2 „
„	Ramsgate (West Cliff Villas)	1·81 „	8·5 „
„	Broadstairs (Providence House)	1·77 „	8·2 „
„	Reculver	1·70 „	9·2 „
„	St. Peters	1·80 „	8·7 „
„	Margate (Westlands).....	1·80 „	8·5 „
„	Kingsgate (White Ness)	1·65 „	8·2 „
„	Sheppey (Old Rides, Eastchurch)	2·11 „	10·4 „
„	„ (Leysdown).....	2·02 „	10·2 „
„	West Thorney.....	1·59 „	7·5 „
„	Chichester (Westgate)	1·92 „	8·3 „
„	Funtington	2·01 „	8·2 „
„	West Stoke Rectory	2·12 „	8·1 „
„	Ryde (W. W. Knighton)	2·41 „	7·5 „
„	„ (New Lodge).....	2·24 „	8·0 „
„	„ (Pier Street)	2·46 „	8·0 „
„	„ (Town Hall)	2·20 „	8·0 „
„	„ (Beldornie Tower)	2·18 „	8·8 „
„	Wootton (Fernhill).....	2·43 „	7·6 „
„	Milford-on-Sea (Keyhaven)	2·10 „	8·8 „
„	Portsmouth (Fort Cumberland)	2·24 „	10·5 „
„	„ (Victoria Park).....	2·35 „	9·8 „
„	Porchester (Noel Cottage)	2·36 „	10·6 „
„	Havant (Farlington)	1·86 „	9·3 „
„	Southampton (Cadland).....	2·50 „	10·3 „
„	Netley (Lake House)	2·20 „	8·5 „
„	Cosham (Purbrook Grange)	2·21 „	8·5 „
„	Southampton (Ordnance Survey Office)...	2·48 „	9·5 „
„	„ (Thornhill Park)	2·92 „	12·4 „
„	Wickham (The Croft)	3·13 „	12·3 „

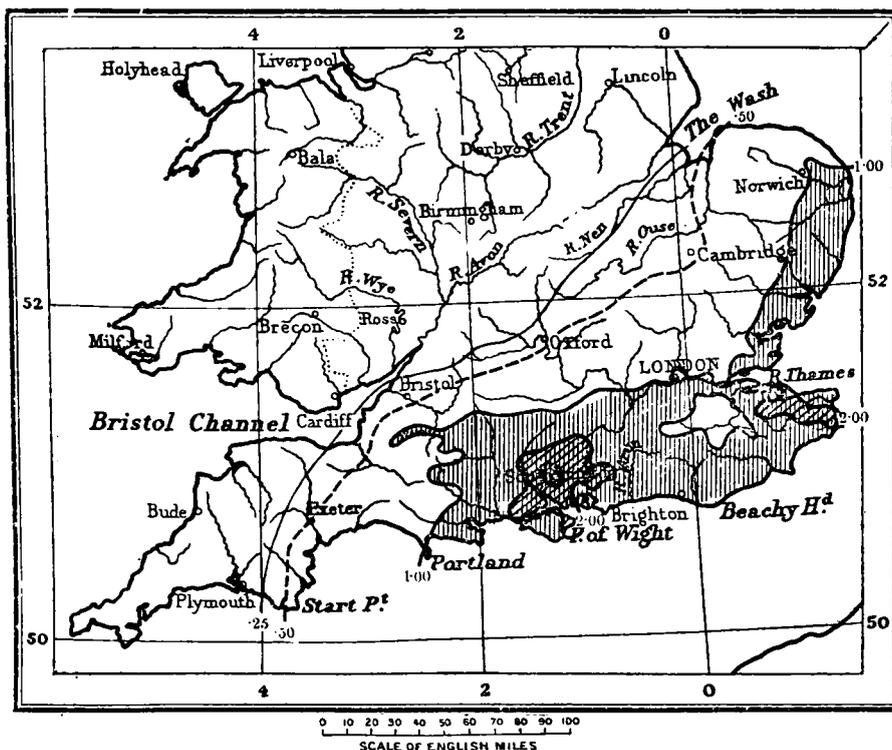
II.	Botley (Botley Hill)	3·19 in.	or 12·4 per cent.
„	„ (Beechcroft, Curdridge)	3·26 „	12·4 „
„	Hambledon (Rosecroft)... ..	2·11 „	7·6 „
„	Bishops Waltham (Swanmore House) ...	2·26 „	8·6 „
„	„ „ (Hill Place).....	2·67 „	9·9 „
„	„ „ (Northbrook House) ..	2·10 „	7·8 „
„	„ „ (Wintershill Hall).....	2·45 „	9·6 „
„	Droxford (Fir Hill).....	2·35 „	8·8 „
„	Chandlers Ford (Fryern)	2·19 „	8·5 „
„	Ampfield Vicarage	2·30 „	9·1 „
„	Otterbourne (Elderfield)	2·28 „	7·9 „
„	Romsey (Timsbury)	1·86 „	7·5 „
„	East Liss (Newlands).....	2·44 „	8·1 „
„	Alresford (Ovington Rectory)	2·61 „	9·2 „
„	West Liss (Hawkley)	2·38 „	8·0 „
„	Winchester (Wyke)	2·24 „	7·9 „
IV.	Shoeburyness	1·25 „	8·6 „
„	Foulness (The Lodge)	1·38 „	8·5 „
„	Clacton-on-Sea (Jay Wick)	1·52 „	8·0 „
„	„	1·48 „	8·9 „
„	Great Clacton (Clay Hall).....	1·65 „	9·2 „
„	Great Bromley	1·53 „	8·0 „
„	Manningtree (Bradfield Lodge)	1·57 „	7·9 „
„	Harwich (Hill House, Ramsey)	1·81 „	8·7 „
„	Felixstowe (West View)	1·65 „	8·1 „
„	Erwarton Hall [Harwich].....	1·88 „	8·3 „
„	Ipswich (Woolverstone Park)	1·75 „	8·6 „
„	„ (Orwell Park)	1·70 „	8·3 „
„	Woodbridge Abbey	1·60 „	7·7 „
„	„ „ (Melton Asylum) ...	1·75 „	8·3 „
„	Rendlesham Hall	1·60 „	7·6 „

No rain fell north of a line drawn from the Bristol Channel to the Wash; but there was more than half an inch everywhere south of a line drawn from Start Point through Exeter, Oxford, Cambridge and Lynn.

From about Weymouth, eastward, falls exceeding 1 inch prevailed over a broad strip of country measuring 40 miles back from the south coast, and from the Thames estuary to Yarmouth along a strip extending for 20 miles inland. The rain was thus restricted to the south-east of England. About 620 square miles in Hampshire and the Isle of Wight had more than 2 inches, of which about 25 square miles in the neighbourhood of Botley had more than 3 inches. Another patch of over 2 inches occupied the extreme east of Kent and measured about 220 square miles. The areal measurements are:—

	Area, sq. miles.	Average Rain, inches.	Volume of Rain, square miles x inches.
Over 3 inches.....	25	3·1	77
2-3 „	840	2·3	1932
1-2 „	7000	1·3	9100
Total.....	7865		11,109

JUNE 5TH, 1905.



This corresponds to an average rainfall of 1.4 inches over the area exceeding 1 inch.

It is worthy of notice that, as in the storm of July 26th, 1904, there was a wave-like variation of rainfall from west to east, the two patches with more than 2 inches being separated by a nearly equal patch with less than 1 inch.

June 10th.

A thunderstorm in London and its neighbourhood brought *M* to about 40 stations in a comparatively small area, and although no very great falls were recorded the low rainfall of the year brought three stations within the limit for percentage.

II.	Bromley Common (Elmfield)	2.10 in.	or	8.4 per cent.
,,	Bickley (The High Field)	1.96	,,	7.7
,,	Chislehurst (Hawkwood)	2.18	,,	9.1

June 12th.

Several small thunderstorms brought *M* to about 20 stations in the south of England; that which occurred near Haslemere seemed to have been the most intense:—

II.	Haslemere (Lower Street).....	2.48 in.	or	7.8 per cent.
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June 17th.

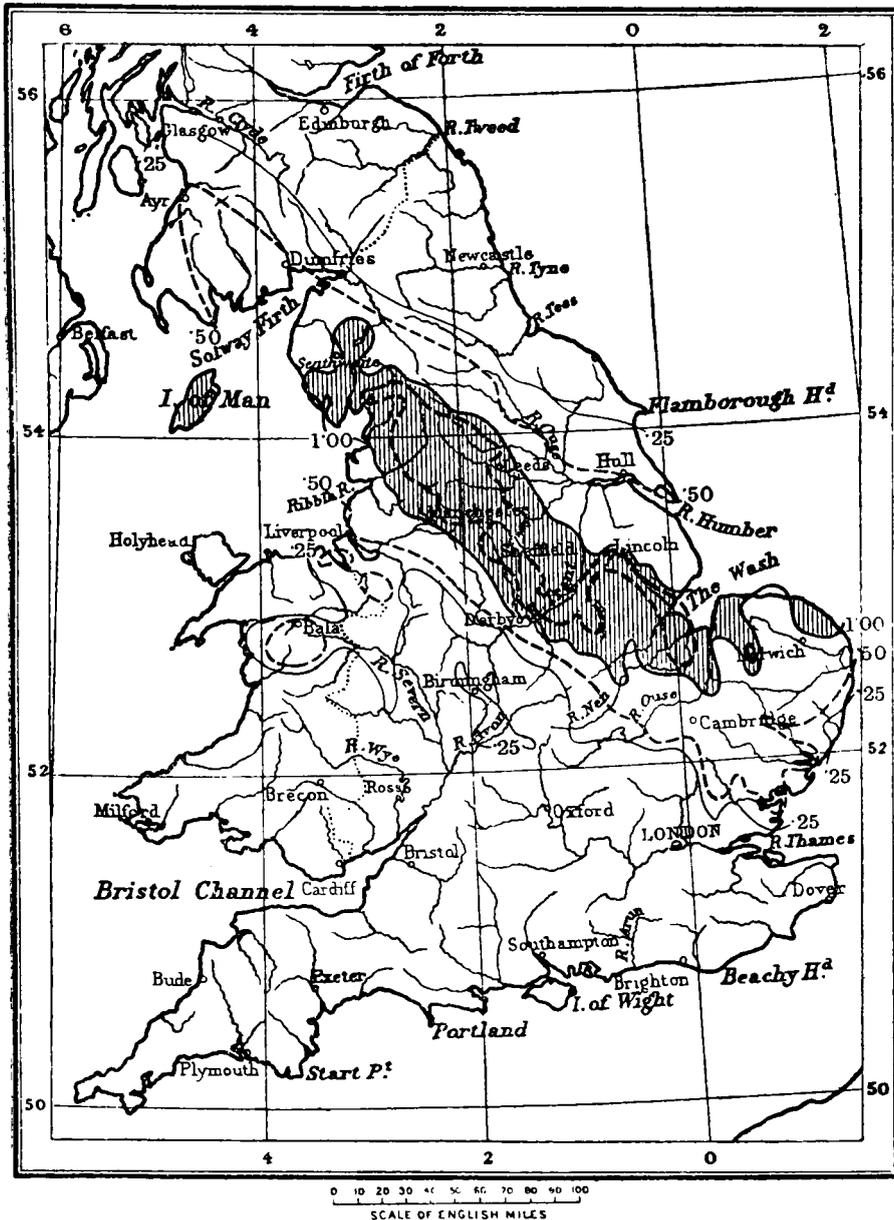
A series of thunderstorms in the east and north of England brought M to more than 300 stations, at 46 of which the percentage was high enough to secure for the day a place in the following register; but no station recorded so much as 2·50 in. As the rain occurred over a great stretch of country, a map has been prepared.

III.	Thorney (Bedford Office)	1·44 in. or	7·6 per cent.
VII.	Belvoir Castle	1·80 "	8·0 "
"	Boston (Black Sluice, Skirbeck)	1·47 "	7·5 "
"	" (Grand Sluice)	1·54 "	7·9 "
"	"	1·57 "	7·5 "
"	Sleaford (Bloxholm Hall)	1·83 "	9·6 "
"	Navenby Rectory	1·60 "	8·3 "
"	Lincoln (Branston)	1·57 "	7·9 "
"	" (Doddington Rectory)	1·85 "	9·8 "
"	" (Skellingthorpe Hall)	1·60 "	8·8 "
"	" (St. Botolphs)	1·78 "	9·1 "
"	" (Brayford Wharf)	1·46 "	8·0 "
"	Plumtree (Normanton-on-the-Wolds)	1·71 "	8·8 "
"	Bingham (Whatton Manor)	1·63 "	8·5 "
"	Nottingham (Beeston Fields)	1·70 "	8·3 "
"	" (Trent Lane)	1·69 "	9·1 "
"	" (The Castle)	1·57 "	7·9 "
"	" (Huskinson Street)	1·71 "	8·0 "
"	" (Carisbrook Ho., The Park)	1·67 "	8·1 "
"	" (Talbot Street)	1·60 "	8·2 "
"	Radcliffe-on-Trent	1·97 "	10·1 "
"	Nottingham (Stoke Bardolph)	1·90 "	10·3 "
"	" (Strelley)	1·57 "	8·1 "
"	" (Strelley Hall)	1·56 "	8·3 "
"	" (Mapperley Hill)	1·84 "	8·9 "
"	" (Basford)	1·45 "	7·9 "
"	" (Burton Joyce W.W.)	1·72 "	8·8 "
"	Bulwell (Bestwood)	1·55 "	7·6 "
"	Hucknall Torkard (Forge Mills)	1·53 "	8·3 "
"	South Scarle	1·59 "	9·1 "
"	Ollerton (Boughton W.W.)	1·54 "	7·8 "
"	" (Thoresby Gardens)	1·75 "	8·6 "
"	Codnor (Cross Hill)	1·89 "	9·0 ?
"	Grassmoor Colliery	1·78 "	10·3 "
"	Chesterfield (Gas Works)	1·76 "	8·2 "
"	" (Tapton Grove)	1·94 "	9·4 "
IX.	Rotherham (Ulley Res.)	1·26 "	7·7 "
"	Mexborough	1·60 "	9·0 "
"	Wath-upon-Deerne (Chapel Street)	1·82 "	8·9 "
"	Wakefield (Walton Hall)	1·44 "	9·0 "
"	Batley (Staincliffe Reservoir)	1·69 "	9·0 "
"	" (Woodwell Dépôt)	1·81 "	8·5 "
"	Bradford (Horton)	2·43 "	8·5 "
"	" (Chellow Dean)	1·70 "	7·6 "
"	Bingley (Gilstead Filters)	1·80 "	7·9 "
"	Skipton (<i>Craven Herald</i> Office)	1·93 "	7·7 "

No depression is shown in the Weather Charts as affecting the British Isles on this day; but one is shown as passing from S.E. to

N.W., over the western part of the continent, parallel to the rain-belt which lies (though far away) on the left of its track.

JUNE 17 TH, 1905.



The map shows a belt of country about 40 miles wide, running nearly straight for 200 miles from the Wash to the heart of the Lake District, with a rainfall exceeding 1 inch and averaging 1·4

inches. At some points the falls reached or exceeded 2 inches, but these occurred in a part of the country where there are few daily records, and it was impossible to draw the isohyetal line of 2 inches. The rainfall fell off so rapidly that none was recorded beyond about 40 miles from the northern or 50 miles from the southern isohyetal of 1 inch, except for an extension of the area with over half an inch into Wales.

The exact measurements are :—

	Area, sq. miles.	Average Rain, inches.	Volume of Rain, square miles x inches.
Over 1 inch	8170	1·4	11,438

June 27th.

Thunderstorms in the Midlands and Yorkshire brought M to about 20 stations, three of which have to be placed on record.

III. Wellingborough (Swanspool)	2·43 in. or 11·3 per cent.
(Croyland Abbey)	2·32 ,, 12·2 ,,
VI. Market Drayton (Old Springs)	2·05 ,, 7·9 ,,

June 29th—July 1st.

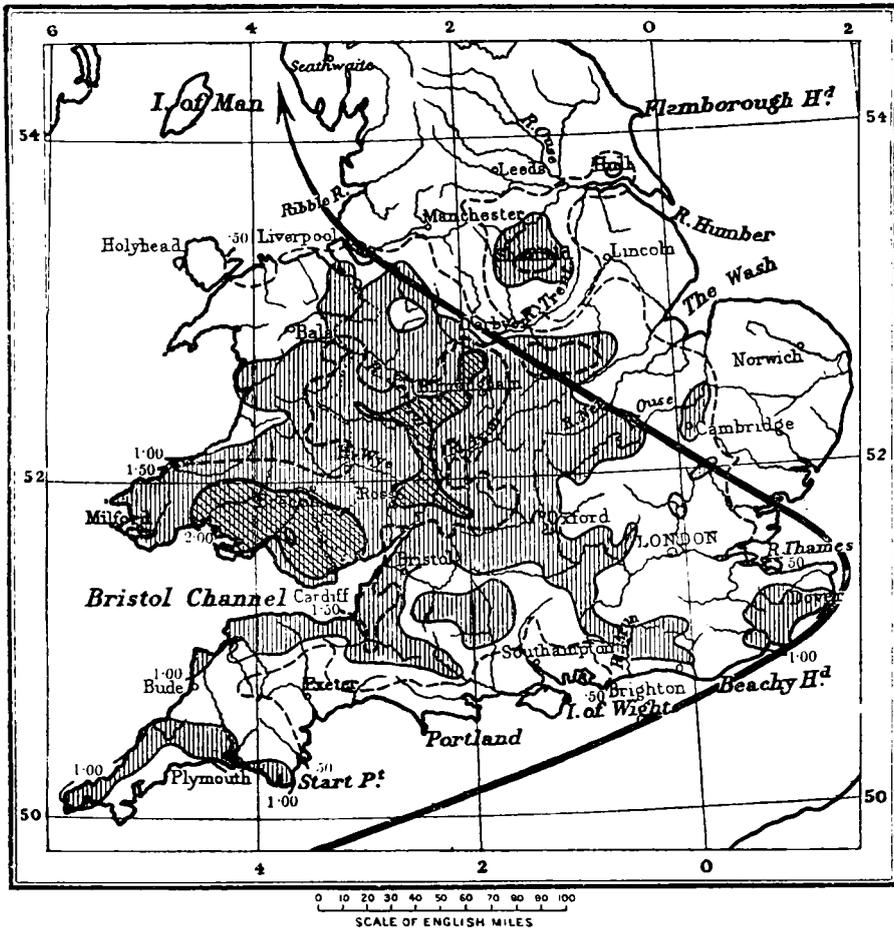
A widespread rainfall occurred, accompanied by thunderstorms in various parts of the country. It was associated with a barometric depression which followed a long and somewhat unusual path. Starting from the mouth of the English Channel on the evening of June 29th, the centre reached the coast between Beachy Head and Dungeness on the evening of the 30th, turning there to the left the centre was near Cambridge on the morning of July 1st and, still turning to the left, had reached the mouth of the Mersey by the evening, where, turning to the right, it pursued its way northward through Scotland on the 2nd. In representing the path on the accompanying map the elbow around Kent has been drawn hypothetically, as in the absence of data it seems more probable that the form was as shown than that it travelled straight from Beachy Head to Cambridge.

M occurred on June 29th at about 30 stations, on the 30th at about 230, on July 1st at about 40 and on the 2nd at about a dozen, the districts most effected being the south of England bordering on the Channel, the western Midlands, portions of Wales and the Lake District. All the M which are large enough to quote occurred on June 30th and are as follows :—

V. Highworth (Hannington Hall)	1·97 in. or 8·3 per cent.
VII. Newton Harcourt	1·50 ,, 8·1 ,,
,, Blaby	1·42 ,, 7·5 ,,
,, Glen Parva (S. Wigston Sewage Farm)...	1·40 ,, 7·6 ,,

VII.	Leicester (Town Hall)	1·33 in.	or 7·7 per cent.
„	Thurcaston (Cropston)	1·73 „	7·7 „
„	Swithland (The Brand)	1·90 „	9·1 „
„	Rearsby Rectory	1·62 „	7·9 „
„	Ratcliffe-on-Wreake College	1·54 „	8·8 „
„	Barrow-upon-Soar	1·81 „	9·6 „
„	Loughborough (Nan Pantan Reservoir)...	1·97 „	9·4 „
„	„ (The Widenings)	2·02 „	9·4 „
„	Uppingham (Ridlington)	1·89 „	8·3 „

JUNE 29TH—JULY 1ST, 1905.



A map was prepared giving the aggregate rainfall of the three days June 29th—July 1st, in order to show as clearly as possible the effects of the cyclonic system and its attendant thunderstorms; but most of the rain, it should be remembered, fell on June 30th. The large area with more than 1 inch is noteworthy, and so is the irregularity of outline, characteristic of thunderstorm rains, on the

eastern margin. The patches with more than 2 inches of rain separated by a drier zone are also characteristic; and the most interesting feature is the way in which practically the whole of the wet area lies to the left of the cyclone path both where it is directed to the north-east and where it is directed to the north-west. The measured areas are:—

	Area in sq. miles.	Average Rain, in.	Volume of Rain, sq. miles x in.
Over 3 inches.....	15	3·1	46
2—3 ,, 	2380	2·3	5474
1—2 ,, 	18905	1·45	27412
Total	21,300		32,932

This indicates that the general rainfall of the area in which more than 1 inch fell was 1·54 in.

July 3rd.

Three M were reported in the south of Scotland, one being noteworthy.

XIII. Haddington (District Asylum) 1·75 in. or 7·8 per cent.

July 9th.

M occurred at about 80 stations scattered widely over the country to which thunderstorms accompanied by much hail brought irregular falls, some of a remarkable character.

III.	Wealdstone House	2·21 in. or 10·4 per cent.
,,	Harrow Weald (Hill House)	2·21 ,, 9·4 ,,
,,	Ponders End (Bylock Hall)	1·96 ,, 8·4 ,,
,,	,, 	1·65 ,, 7·6 ,,
,,	Enfield (Old Park).....	2·03 ,, 8·6 ,,
,,	,, (Southbury Road)	2·22 ,, 9·6 ,,
,,	,, (Carisbrooke)	2·55 ,, 9·9 ,,
,,	,, (The Ridgeway)	2·35 ,, 9·6 ,,
,,	Trent Park [New Barnet].....	2·42 ,, 9·0 ,,
,,	Potters Bar (Little Heath)	2·29 ,, 9·3 ,,
,,	Elstree (Aldenham House)	1·86 ,, 7·7 ,,
,,	Barnet (Grammar School).....	2·17 ,, 8·4 ,,
,,	,, (Summerhill).....	2·47 ,, 9·3 ,,
,,	Northaw (St. Just).....	1·97 ,, 8·0 ,,
,,	Hertford (Bayfordbury).....	2·03 ,, 8·5 ,,
,,	Orton (Sandy Hill Farm)	2·40 ,, 10·6 ,,
IV.	Romford (Harold Wood)	1·86 ,, 7·8 ,,
,,	Havering Grange	2·68 ,, 10·5 ,,
,,	Havering-atte-Bower	3·00 ,, 12·6 ,,
,,	,, ,, (Fernside)	2·94 ,, 10·8 ,,
,,	Brentwood (Shenfield Rectory)	2·07 ,, 9·0 ,,
,,	Theydon Bois (Thrift's Hall)	1·77 ,, 8·1 ,,
VII.	Liddington (Uppingham W.W.).....	1·30 ,, 7·7 ,,
,,	Market Overton	2·07 ,, 8·5 ,,

August 4th.

About 60 stations, chiefly in South Wales and the west of Scotland, recorded their M; amongst them :—

- XI. Torpantau Station 2.50 in. or 4.4 per cent.
- XV. Kintyre (Largie Castle)..... 2.90 ,, 6.6 ,,

August 13th.

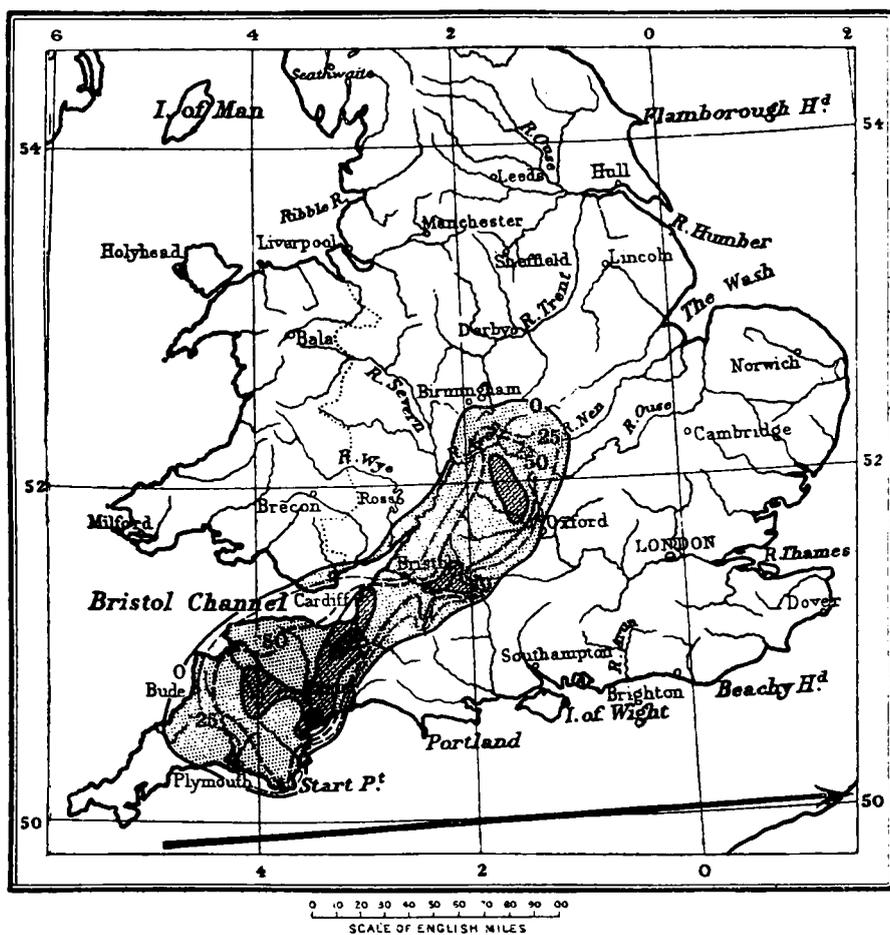
Two M, one just crossing the limit for notice were reported from the West of Scotland.

- XVIII. Ullapool (Drumruinie Lodge) 2.52 in. or 3.0 per cent.

August 15th.

A very pretty thunderstorm associated with a depression passing eastward through the English Channel, produced an exceptionally circumscribed and characteristic fall of rain in the west of England.

AUGUST 15TH, 1905.



III.	Witney (Ringwood Farm)	1·88 in.	or 7·5 per cent.
V.	Starcross (Cofton Vicarage)	3·98 "	14·9 "
"	Exmouth (Nidderdale)	2·89 "	11·5 "
"	" (Manor Grounds)	2·47 "	9·6 "
"	Lympstone (Watton)	2·15 "	8·3 "
"	Kenton (Southtown House)	2·40 "	8·3 "
"	Milverton (Spring Grove)	2·18 "	7·7 "
"	" (Olands)	2·57 "	8·7 "
"	Cothelstone House	2·40 "	8·8 "
"	Bridgwater (Ashford)	2·05 "	8·1 "

The map shows that rain fell only in a nearly rectangular area measuring 210 miles by 45, stretching northeastward from Plymouth to Coventry. Within this area there were three heavy splashes well separated from one another arranged in "line ahead," the largest and wettest in the south west. The rain lasted for little more than two hours, and occurred in the evening after 8 o'clock. About 50 M were recorded altogether, and of these the fall of 3·98 in. at Cofton Vicarage at the southern end of the most southerly wet patch was one of the most remarkable M of the year, both for amount and for the percentage it formed of the average fall.

The measurement of the isohyetal lines gave the following results.

	Area, sq. miles.	Average Rain, inches.	Volume of Rain, sq. miles x inches.
Over 3 inches	7	3·1	22
2—3 "	123	2·3	283
1—2 "	1290	1·43	1845
Total	1420		2150

This shows that the portion with more than 1 inch of rain had a general fall of 1·51 in.

August 22nd.

M occurred at about 20 stations in Wales, one of which was remarkable.

XI.	Portmadoc (Wern Gardens)	3·10 in.	or 5·5 per cent.
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August 25th.

This was the only occasion in the year on which a really heavy fall of rain occurred over a very large area. The interest centred in the east of Ireland, where more than 5·00 in. of rain were reported from several places, and most of the 250 stations recording M on the day were in Ireland. Serious floods occurred at Bray and elsewhere, and the rainfall of the period has already been discussed in some detail.* Our frontispiece shows the traces of the flood left on some

* See Sir John Moore's paper in the *Quarterly Journal* of the Royal Meteorological Society, Vol. 32, p. 1.

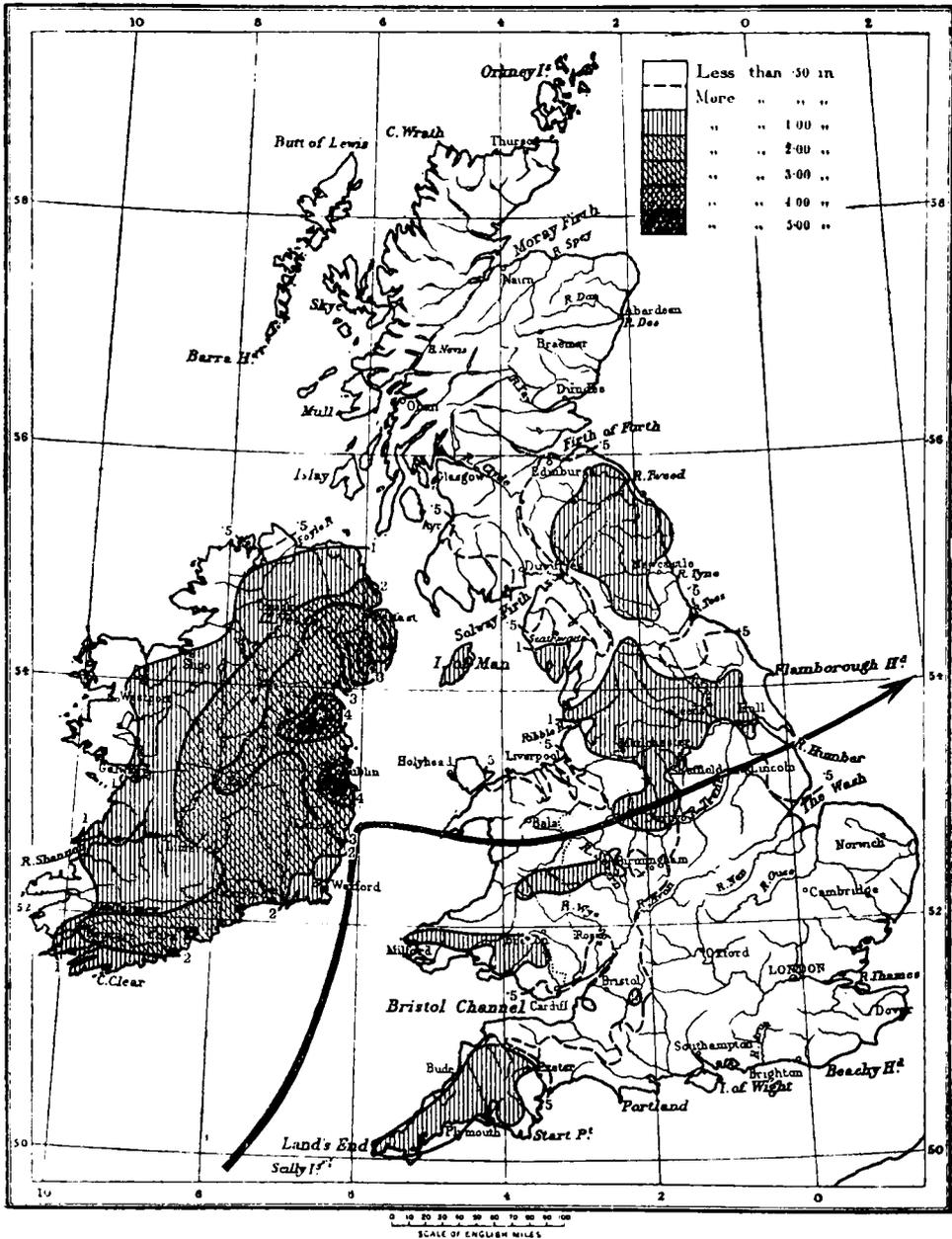
cottages in Bray after the water had subsided. The storm was associated with a cyclone, the path of which is remarkable for the very abrupt turn it makes from northwards up the Irish Sea to eastwards across North Wales and central England. All the **M** dealt with occurred on the 25th. The following list is remarkable for the number of its entries and also for the very high rainfalls reported, those exceeding 4·00 in. being—

			in.
	Newcastle (Killadreenan)	4·11	
	Bray (Fassaroe)	4·45	
	Glen-na-Smoel (Water Works).....	5·71	
	Dundrum (Lynton).....	4·04	
	Drogheda (St. James')	4·01	
XXI.	Gorey (Courtown)	2·46 in.	or 8·7 per cent.
	„ Newcastle (Killadreenan).....	4·11 „	12·7 „
	„ Greystones (Knockdolian)	3·35 „	11·6 „
	„ Bray (Fassaroe)	4·45 „	10·7 „
	„ Birr Castle	1·94 „	7·6 „
	„ Banagher	1·81 „	8·4 „
	„ Edenderry	2·28 „	8·0 „
	„ Castledermot	2·13 „	8·8 „
	„ Straffan House	2·88 „	11·2 „
	„ Glen-na-Smoel (Water Works)	5·71 „	14·0 „
	„ Ballybrack (Streamville)	3·20 „	11·0 „
	„ Killiney (Cloneevin)	3·06 „	11·1 „
	„ Foxrock (Hillside).....	3·52 „	11·3 „
	„ Stillorgan (White Cross)	3·22 „	10·7 „
	„ Dundrum (Lynton)	4·04 „	12·7 „
	„ Kingstown (People's Park)	3·13 „	12·6 „
	„ „ (Harbour Yard)	3·17 „	12·6 „
	„ Rathmines (Terenure)	3·35 „	12·9 „
	„ „ (Leinster Road)	3·46 „	13·2 „
	„ Dublin (FitzWilliam Square)	3·44 „	13·6 „
	„ „ (Leeson Park)	3·74 „	13·8 „
	„ „ (Trinity College)	3·30 „	13·7 „
	„ „ (Phoenix Park)	3·35 „	13·7 „
	„ Glasnevin (Botanic Gardens)	3·58 „	14·9 „
	„ Malahide (The Green)	3·11 „	12·2 „
	„ Balbriggan (Ardgillan)	3·12 „	12·4 „
	„ Summerhill House.....	2·85 „	10·8 „
	„ Athboy.....	3·89 „	13·0 „
	„ Kells (Headfort).....	3·18 „	11·2 „
	„ Oldcastle (Killeagh Rectory)	2·65 „	9·3 „
	„ Moynalty (Westland)	2·88 „	8·9 „
	„ Drumconrath (Aclare House)	3·94 „	12·8 „
	„ Moate (Coolatore)	2·05 „	7·8 „
	„ Mullingar (Belvedere)	2·64 „	8·3 „
	„ Drogheda (St. James')	4·01 „	14·5 „
	„ Ardee (Lissrenny)	3·11 „	10·6 „
XXII.	Carrigallen ...	3·00 „	8·2 „
XXIII.	Stradone House	3·08 „	9·2 „
	„ Dartrey [Cootehill]	2·53 „	8·2 „
	„ Armagh Observatory.....	2·64 „	8·9 „
	„ Lurgan (Belle Vue) ...	2·06 „	8·2 „

XXIII.	Newcastle (Tullymore Park)	3.00 in.	or 5.9 per cent.
„	Rathfryland (Ballynagappoge).....	2.51 „	8.0 „
„	Castlewellan (Lough Island)	2.95 „	6.7 „
„	Banbridge (Katesbridge)	2.43 „	8.8 „
„	„ (Milltown)	2.25 „	8.0 „
„	Lisburn (Ulster Provincial School).....	2.66 „	6.6 „

In charting the rainfall it was found expedient to take account of the 24th and 26th as well as the 25th, because the great rain-un-

AUGUST 24TH-26TH, 1905.



doubtedly began on the 24th in the west of Ireland, and certainly continued on the 26th in the north of England. The map thus gives a picture of the distribution of the whole amount of rain which fell as a consequence of the passage of the depression.

Considering Ireland in the first place, we see that the rainfall increased steadily from about half an inch on the west coast to 2 inches about the middle of the country, to 3 inches over a large part of the east, and culminated in three excessively wet patches in Co. Down, Co. Meath and Co. Wicklow, the two last named having several hundred square miles with more than 5 inches of rain. It is easily understood that serious floods resulted, especially in Co. Wicklow and Co. Meath. The areas with various intensities of rainfall in Ireland were:—

	Area, sq. miles.	Average Rain, inches.	Volume of Rain, sq. miles x inches.
Over 5 inches	310	5·40	1,674
4—5 „	850	4·52	3,846
3—4 „	4,790	3·50	16,765
2—3 „	10,750	2·49	26,698
1—2 „	11,020	1·51	16,685
Total above 1 inch ...	27,720	(2·37)	65,668
Less than 1 inch	5,360	·75	4,010
Total of Ireland	33,080	(2·17)	69,678

Thus the rain which fell on Ireland in this storm would have covered the whole surface of that island to a depth of 2·17 in., equivalent to 220 tons on every acre or an aggregate weight of 4,646,400,000 tons or 1,040,800 million gallons.

There are no data for estimating the rainfall which occurred over the sea, but in England the same storm brought falls exceeding 1 inch, and in some places touching 2 inches, to large tracts of country irregularly placed from Cornwall to beyond the north of Northumberland. The area was—

	Area, sq. miles.	Average Rain, inches.	Volume of Rain, sq. miles X inches.
Above 1 inch	13,870	1·32	18,268

Taking Great Britain and Ireland together, the total area covered by this storm with a rainfall greater than one inch comes out as follows:—

	Area, sq. miles.	Average Rain, inches.	Volume of Rain, sq. miles X inches.
Above 1 inch	41,590	2·02	83,936

The storm thus appears to have been one of the most remarkable

in recent years for the enormous quantity of rain precipitated upon the land.

August 27th.

Thunderstorms in various parts of England brought **M** to about 40 stations three of which come within the limits for quotation.

III.	Weston Park	2·09 in.	or 8·2 per cent.
„	Baldock (High Street)	1·91 „	8·6 „
„	Stotfold [Baldock]	1·75 „	8·4 „

August 28th.

A continuation of the thundery weather brought **M** to about 220 stations scattered over England and Wales though no very high falls were recorded.

IV.	Burgh Hall [Yarmouth]	2·29 in.	or 9·7 per cent.
XI.	Rhyl (Sewage Works)	2·22 „	10·0 „
„	Llanefydd (Plas Uchaf Reservoir)	2·85 „	9·5 „
„	„ (Glascoed Reservoir)	3·00 „	10·6 „
„	Denbigh (Garn)	2·38 „	8·2 „

September 21st.

An exceptionally limited heavy fall in the extreme west of Ireland produced one remarkable **M**.

XX.	Kenmare (Derreen).....	3·72 in.	or 5·0 per cent.
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September 24th.

M occurred at about 20 stations chiefly in Norfolk and Suffolk, two being noteworthy.

IV.	Parham (The High House)	1·83 in.	or 8·2 per cent.
„	Great Glemham	2·00 „	7·6 „

September 25th.

Moderately heavy rains in the east of England accounted for about 70 **M**, of which a considerable number claim attention. The rain was a continuation of that of the 24th, and had the whole fall happened to be included in the same rainfall day, some very high values would have been recorded.

III.	Stretham (Dimocks Cote)	1·54 in.	or 7·7 per cent.
„	„ Engine	1·42 „	8·3 „
„	„ Ferry (Elford Farm)	2·00 „	11·1 „
„	Ely (The Palace).....	2·11 „	9·7 „
„	Littleport (Highfield House)	2·17 „	11·5 „
„	Chatteris (Aylesby House)	1·88 „	9·2 „
„	„ (The Priory)	2·07 „	9·9 „
„	March	1·99 „	8·6 „
„	Upwell (Marmont Priory Lock)	2·67 „	13·9 „
„	„ (Euximoor House)	3·25 „	14·7 „
„	Wisbech (Bank House)	2·20 „	10·9 „
IV.	Stoke Ferry (Wereham)	1·97 „	7·9 „
„	Outwell Sluice.....	2·23 „	10·5 „
„	Emneth.....	2·86 „	14·4 „
„	Wiggenhall (Outlet Syphons)	2·07 „	9·7 „

October 14th.

A moderately heavy rain in the north of England and in parts of Scotland produced **M** at about 40 stations, that at Seathwaite being a very moderate figure for the locality.

IX.	Slaidburn (Brennand)	2·73 in.	or	4·3 per cent.
„	„ (Whitendale).....	2·58 „		4·2 „
X.	Borrowdale (Seathwaite)	3·45 „		3·0 „

October 25th.

An isolated **M** in a wet district.

XVIII.	Skye (Scalpay Island)	3·00 in.	or	4·1 per cent.
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November 11th.

There were moderate falls in several parts of the country, **M** being recorded at about 30 stations scattered over England and Scotland, and the percentages in the following cases were worthy of note.

II.	Hastings (Fairlight Reservoir).....	2·32 in.	or	7·7 per cent.
„	Winchelsea (The Friars)	1·96 „		7·9 „
XVII.	Crathes (Woodbank Cottage)	2·27 „		7·5 „

November 12th.

The heavy rain of the 11th continued during the 12th in the north-east of Scotland, and it is not quite certain whether the following should be credited to this or to the preceding day.

XVII.	Strachan (Bridge of Dye)	2·85 in.	or	6·2 per cent.
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November 22nd.

About 30 stations in the north of Ireland, the north-west of England and the west of Scotland recorded their **M**, and amongst them we note the following :—

X.	Buttermere (Hassness)	3·42 in.	or	3·6 per cent.
„	Borrowdale (Grange)	3·00 „		4·0 „
„	Ambleside (Skelwith Bridge)	2·85 „		3·4 „
„	Elterwater Hall	2·59 „		3·3 „

November 26th.

A solitary **M** was reported without any corroboration from surrounding stations, none of which had falls even approaching 1 inch. We made all possible enquiries in the case, and although not satisfied that the gauge had not been tampered with, we have no evidence to justify our suspicion, and quote the reading as a remarkably isolated heavy fall.

V.	South Brent (Great Aish).....	2·65 in.	or	5·1 per cent.
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Part II.—Abstract.

Having dealt with the **M** individually and according to the distribution of heavy falls over the country on particular days, we have now to consider the more general relations arranged in such a way as to facilitate comparison with previous years. It is not impossible that a better way may be found of doing this than that which has been followed in the past, and when more instances have been collected we may be able to deal with regional falls on a comparative basis; but we are not yet ready to do so, and hence there is no change in the form of this Abstract.

Table I., showing the 16 highest **M**, is almost monopolised by the great Irish rain of August 25th; the four exceptional cases dealing with an isolated Irish fall in September, two Lake District **M** which are of trifling amount for that region and the remarkable isolated **M** at Cofton Vicarage.

Table II. shows that the mean of the 16 highest **M** scarcely exceeded the average, but that their percentage of the total fall was the highest in the record. This is due to the fact that the east of Ireland has a rainfall much lower than that of the regions in which the sixteen highest falls of the year usually occur. The absolute highest is claimed by Glen-na-Smoel for the second time, the former occasion being in 1883 with a slightly lower figure. The percentage in this case has often been exceeded, because an exceedingly heavy fall occurs in a thunderstorm over a very small area as frequently in a very dry as in a very wet part of the country, though the area subject to such torrential falls is very seldom, if ever, large enough to include so many stations as to influence the first half of the Table.

Table III. presents the 16 **M** forming the highest percentages of the annual fall at the stations recording them, and Table IV. compares this with previous years. The average of the 16 percentages is a high one, having been exceeded on two occasions only, in 1901 by $\cdot 3$ and in 1890 by $\cdot 6$. The highest individual percentage was 14·9 at Cofton Vicarage, that being a fraction higher than the value at Glasnevin, though that also is represented by 14·9. This is distinctly above the average for the highest percentage, but has been exceeded on many occasions and calls for no special remark.

In Table V. we come to a somewhat surer basis of comparison in the mean of all the **M** in the year, whether these were large or small. It shows that for 3,250 stations, from which the data were available,

the wettest day of the year yielded 4·8 per cent. of the total rainfall and that this amount was 1·31 in., the percentage was ·3 above the average although the amount was ·15 in. below the average, the explanation being that the total fall as the mean of all stations came out 27 inches, or 6 inches below the average, the year being a dry one. As the observing stations are distributed very irregularly over the country, the figures do not give the general rainfall of the British Isles correctly, although, as the rate of increase of stations is roughly proportional to their total number in any locality, the last column but one affords a fair index to the total variations of rainfall from year to year. The last two columns have been re-calculated this year, as the average in the column before them has for several years remained at 33, and it seems hardly right to continue to calculate the values to the assumed standard of 34, originally adopted when the period for the average was very short. The year 1905 appears as somewhat drier than 1904 and 18 per cent. below the average. The mean *M* for 1905, expressed as a percentage of 33 inches as the average fall, comes out as 4·0, or ·4 less than the average.

Table VI. gives an interesting view of the frequency of very heavy falls. It shows that in 1905 there were 280 stations the wettest day at which had more than 2 inches of rain, and that this number was 5 less than the average for 23 years, during which the mean number of stations was only 2,273 as compared with 3,250 last year. To correct for the growing total number of stations the next column expresses the number of *M* exceeding 2 inches as a percentage of the total number for the year, and here we find that in 1905 only 8·6 per cent. of the stations had so high an *M* as 2 inches, the average being 12·3 per cent. As regards *M* of more than 3 inches, the disparity is not so great, the percentage being 1·4 as compared with an average of 1·7. It was frequently remarked while discussing the daily returns that an unusually large number of stations had *M* below 1 inch, and it may fairly be deduced that, while very high falls were nearly as common as usual, the dryness of 1905 was due to the small number of moderately high falls, or, in other words, to the absence of very widespread heavy rains.

The *M* for 1905 were discussed for the first time in such a way as to make it possible to present the following comparison of the three great divisions of the country. This throws into prominence the remarkable dearth of heavy falls in Scotland to which reference has already been made.

Summary of Maximum Falls in 1905.

	No. of Records.	Mean Percentage.	Mean Amount. in.	Falls of 2·00 in. or more.	Falls of 3·00 in. or more.
England and Wales	2719	4·9	1·28	176	12
Scotland.....	332	3·5	1·29	32	2
Ireland	199	5·9	1·88	72	31
British Isles ...	3250	4·8	1·31	280	45

TABLE I.—*Maximum Falls in 1905.*

Date.	Div.	Station.	Depth.	Per Cent.	Total.
Aug. 25 ...	XXI.	Glen-na-Smoel, W. W.	5·71 in.	14·0	40·83 in.
„ „ ...	„	Bray, Fassaroe	4·45 „	10·7	41·66 „
„ „ ...	„	Newcastle, Killadreenan ...	4·11 „	12·7	32·35 „
„ „ ...	„	Dundrum, Lynton	4·04 „	12·7	31·83 „
„ „ ...	„	Drogheda, St. James'	4·01 „	14·5	27·74 „
„ 15 ...	V.	Starcross, Cofton Vicarage.	3·98 „	14·9	26·72 „
„ 25 ...	XXI.	Drumconrath, Aclare Ho....	3·94 „	12·8	30·66 „
„ „ ...	„	Athboy	3·89 „	13·0	29·98 „
„ „ ...	„	Dublin, Leeson Park	3·74 „	13·8	27·16 „
Sept. 21 ...	XX.	Kenmare, Derreen	3·72 „	5·0	74·83 „
Aug. 25 ...	XXI.	Glasnevin, Botanic Gardens	3·58 „	14·9	24·04 „
„ „ ...	„	Foxrock, Hillside	3·52 „	11·3	31·22 „
„ „ ...	„	Rathmines, Leinster Road..	3·46 „	13·2	26·16 „
Oct. 14 ...	X.	Borrowdale, Seathwaite ...	3·45 „	3·0	116·92 „
Aug. 25 ...	XXI.	Dublin, FitzWilliam Square	3·44 „	13·6	25·28 „
Nov. 22 ...	X.	Buttermere, Hassness	3·42 „	3·6	94·27 „

TABLE III.—*Maximum Percentages in 1905.*

Date.	Div.	Station.	Per cent.	Fall.	Total.
Aug. 15 ...	V.	Starcross, Cofton Vicarage..	14·9	3·98 in.	26·72 in.
„ 25 ...	XXI.	Glasnevin, Botanic Gardens.	14·9	3·58 „	24·04 „
Sept. 25 ...	III.	Upwell, Euximoor House...	14·7	3·25 „	22·12 „
Aug. 25 ...	XXI.	Drogheda, St. James'.....	14·5	4·01 „	27·74 „
Sept. 25 ...	IV.	Emneth	14·4	2·86 „	19·89 „
Aug. 25 ...	XXI.	Glen-na-Smoel, Water Wks.	14·0	5·71 „	40·83 „
Sept. 25 ...	III.	Upwell, Marmont Priory Lock	13·9	2·67 „	19·20 „
Aug. 25 ..	XXI.	Dublin, Leeson Park	13·8	3·74 „	27·16 „
„ „ ...	„	„ Phoenix Park	13·7	3·35 „	24·46 „
„ „ ...	„	„ Trinity College	13·7	3·30 „	24·06 „
„ „ ...	„	„ FitzWilliam Square.	13·6	3·44 „	25·28 „
„ „ ...	„	Rathmines, Leinster Road..	13·2	3·46 „	26·16 „
„ „ ...	„	Athboy	13·0	3·89 „	29·98 „
„ „ ...	„	Rathmines, Terenure.....	12·9	3·35 „	25·98 „
„ „ ...	„	Drumconrath, Aclare House	12·8	3·94 „	30·66 „
„ „ ...	„	Newcastle, Killadreenan ...	12·7	4·11 „	32·35 „

TABLE II.—*Comparison of Maximum Falls with those in previous years.*

MEAN OF 16 HIGHEST.				ABSOLUTE HIGHEST.			
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 Queen's Coll.	XXII.
1888 ...	4·20	5·9	77·0	5·20	5·4	Wythburn Vic.....	X.
1889 ...	3·89	9·9	49·2	4·45	16·5	N. Ockendon.....	IV.
1890 ..	5·01	6·9	95·1	7·29	3·7	Ben Nevis Obs.....	XVIII.
1891 ...	4·38	4·7	<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, Grange	„
1900 ...	4·29	8·0	64·1	5·40	11·9	Ikley, Cherry Bank	IX.
1901 ...	4·21	9·9	53·5	5·66	5·7	Dungeon Ghyll ...	X.
1902 ...	3·79	7·9	59·4	5·92	3·8	Ben Nevis Obs. ...	XVIII.
1903 ...	4·13	7·2	84·7	4·78	2·2	„ „ „	„
1904 ...	4·02	7·4	69·5	5·62	6·0	„ „ „	„
Mean ...	3·80	6·5	71·3	5·43	7·0	.....	...
1905 ...	3·90	<i>M</i> 11·5	42·6	5·71	14·0	Glen-na-Smoel.....	XXI.
Diff. ...	+ ·10	+5·0	—28·7	+·28	—7·0	.....	...

TABLE IV.—Comparison of Max. Percentages with those in previous years.

MEAN OF 16 HIGHEST.				ABSOLUTE HIGHEST.			
Years.	Per Cent.	Depth.	Mean total fall at these Stations.	Per Cent.	Depth.	Station.	Division.
		in.	in.		in.		
1865 ..	9·9	2·62	28·4	13·0	4·40	Fleckney.....	VII.
1866 ...	8·1	2·31	29·3	10·0	2·48	Burton	VI.
1867 ...	11·0	2·85	25·3	17·7	4·78	Hartlip	II.
1868 ...	8·6	2·55	30·1	11·0	4·00	Tongue	XIX.
1869 ...	7·9	2·17	27·9	10·0	3·40	Tillydesk	XVII.
1870 ...	10·0	2·34	22·9	17·1	6·00	Tongue	XIX.
1871 ...	9·0	2·43	26·8	11·5	3·62	Warter	IX.
1872 ...	8·1	3·43	M 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	III.
1875 ...	10·2	M 3·76	37·5	13·2	3·95	Letheringsett.....	IV.
1876 ...	m 7·4	2·49	33·7	m 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 Priory 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	m 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	m 2·11	21·9	13·0	4·93	Galway, Queen's 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 ...	M 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 Asylum ...	XVI.
1892 ...	12·3	3·37	27·4	15·0	4·27	Tyntesfield	V.
1893 ...	12·0	2·81	23·4	16·2	4·48	Cranmer Hall.....	IV.
1894 ...	9·0	2·54	28·3	11·1	3·56	Sidcup.....	II.
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	m 2·40	Chatteris, H. L.....	III.
1898 ...	11·5	2·92	25·0	M 18·1	M 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.
1901 ..	14·1	3·37	24·0	17·9	4·24	Maidenhead, The Firs	II.
1902 ...	12·7	2·90	22·8	15·5	3·51	Esher Sewage Works.	„
1903 ...	10·6	M 3·76	35·6	12·8	4·41	Dartford, West Hill House	„
1904 ...	12·5	2·87	23·0	15·8	3·48	Leamington, Binswood Av.	VI.
Mean ..	10·2	2·83	28·2	13·1	3·79	.....	„
1905 ...	13·8	3·67	26·7	14·9	3·98	Cofton Vicarage	V.
Diff. ...	+ 3·6	+ ·84	- 1·5	+ 1·8	+ ·19	.....	„

TABLE V.—*Comparison of the Mean of all the Maximum Falls of 1905 with similar data for previous years.*

Years.	Number of Returns.	Mean Percentage.	Mean Amount.	Mean Total Fall in year.	Ratio taking 33=100.	Total Fall being assumed =33in. Mean Max. =
			in.	in.		
1865.....	481	5·1	1·70	33	100	5·2 per cent
1866.....	590	3·7	1·48	40	121	4·5 „
1867.....	584	4·6	1·44	31	94	4·4 „
1868.....	676	4·3	1·43	33	100	4·3 „
1869.....	637	4·2	1·42	34	103	4·3 „
1870.....	687	4·9	1·30	27	82	3·9 „
1871.....	752	4·9	1·49	30	91	4·5 „
1872.....	743	<i>m</i> 3·4	1·59	<i>M</i> 47	<i>M</i> 142	4·8 „
1873.....	809	4·6	1·35	29	88	4·1 „
1874.....	1010	4·4	1·41	32	97	4·3 „
1875.....	1081	5·0	<i>M</i> 1·83	37	112	<i>M</i> 5·5 „
1876.....	1112	3·9	1·49	38	115	4·5 „
1877.....	1180	3·8	1·56	41	124	4·7 „
1878.....	1186	4·3	1·49	35	106	4·5 „
1879.....	978	4·2	1·52	36	109	4·6 „
1880.....	1117	4·8	1·72	36	109	5·2 „
1881.....	1194	4·1	1·45	35	106	4·4 „
1882.....	1463	3·6	1·42	39	118	4·3 „
1883.....	1505	4·0	1·41	35	106	4·3 „
1884.....	1691	4·8	1·32	28	85	4·0 „
1885.....	1801	4·5	1·41	31	94	4·3 „
1886.....	1718	4·6	1·64	35	106	5·0 „
1887.....	1921	4·5	<i>m</i> 1·14	<i>m</i> 25	<i>m</i> 76	<i>m</i> 3·5 „
1888.....	1974	4·4	1·41	32	97	4·3 „
1889.....	1812	4·8	1·41	29	88	4·3 „
1890.....	2081	5·0	1·46	29	88	4·4 „
1891.....	2218	4·1	1·47	35	106	4·5 „
1892.....	2231	5·4	1·62	30	91	4·9 „
1893.....	2267	4·8	1·30	27	82	3·9 „
1894.....	2321	4·2	1·46	35	106	4·4 „
1895.....	2423	4·5	1·37	30	91	4·2 „
1896.....	2465	4·4	1·33	30	91	4·0 „
1897.....	2598	4·1	1·36	33	100	4·1 „
1898.....	2691	5·0	1·42	28	85	4·3 „
1899.....	2791	4·7	1·42	30	91	4·3 „
1900.....	2702	4·6	1·61	35	106	4·9 „
1901.....	2747	<i>M</i> 5·7	1·58	28	85	4·8 „
1902.....	2832	4·4	1·20	27	82	3·6 „
1903.....	2936	4·0	1·67	41	124	5·1 „
1904.....	3093	4·6	1·31	29	88	4·0 „
Mean ...	1677	4·5	1·46	33	100	4·4 „
1905.....	3250	4·8	1·31	27	82	4·0 „
Diff.....	+1573	+ ·3	- ·15	- 6	-18	- ·4 „

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
1	2747	497	18·1	68	2·5
2	2832	163	5·8	30	1·1
3	2936	625	21·3	83	2·8
4	3093	246	8·0	29	0·9
Mean	2273	285	12·3	41	1·7
1905	3250	280	8·6	45	1·4
Diff.	+977	-5	-3·7	+4	-3

THE DISTRIBUTION OF RAINFALL IN TIME.

IT has always been recognised that the number of days on which rain falls is a quantity which ought to be recorded no less than the amount of rain ; and the occurrence of groups of dry or of wet days has also been recognised as worthy of record. When *British Rainfall* was started in 1860 there were comparatively few stations which had records of sufficient accuracy to be used for such discussions. Year by year the quality of the observations has improved, and this improvement may be traced by the steady increase in the number of rain days reported in the last column of the General Table. There are instances in which observers report a larger number of rain days than actually occur, having regard to the definition ; but such cases are extremely rare. Perhaps half, and certainly more than a quarter, of all the records we receive, however, report fewer rain days than are really experienced. This arises mainly from two causes : (1) a misunderstanding as to the limit of rainfall which constitutes a rain day, and (2) a bad habit of not visiting the rain gauge on mornings when the observer "knows" that no rain fell in the previous 24 hours. No observer ever really does know that 24 rainless hours have elapsed unless he visits the rain gauge in order to find out ; but we know on examining his return whether he is one of those who fail to examine the gauge at the proper times. We do not always tell an observer that he has fallen into this lazy habit, for experience shows that in many cases a reminder is more apt to lead to irritation than to reform ; but suspected records are of course excluded from those out of which the stations are selected for discussing the distribution of rain in time. We believe that the records at the 73 selected stations are perfect, and that the figures can be trusted to give the correct number and the correct sequence of the rain days in each case. The stations are selected so as to represent all parts of the British Isles as uniformly as possible, and thus the arithmetical mean of the records should accord fairly with the true general conditions for the country as a whole. We have modified the arrangement of this part of the volume so as to make it more systematic ; but the familiar features will be found unchanged, though in

a slightly different order. We consider, first, the number of rain days and the daily intensity of rainfall, classifying the days on which rain fell according to the amount; then we go on to consider dry spells or droughts; and, finally, rain spells for which no more simple and expressive name has yet been found.

I.—Rain Days in 1905.

While the last column of the General Table gives the total number of rain days recorded at several thousand stations, it is only possible to discuss fully the records of a selected and tested few. The intensity of daily rainfall and the number of days with various amounts of rain at 73 stations are given in the following Table. The number of rain days in the year varied from 144 at Colchester in the south-east of England to 272 at Dungeon Ghyll in the English Lake District, and 277 at Castletown in the north of Scotland. Generally speaking, the number of rain days increased regularly from south-east to north-west, and the accompanying map shows this in a striking way. More than 250 rain days were experienced only in the western fringes of Ireland and Scotland, while less than 200 rain days were recorded in the east of Ireland, the south-east of Scotland and over the greater part of England. In the north of England the number of rain days exceeded 200 on the western side, and also in part of the East Riding of Yorkshire, diminishing to 152 in the centre near Worksop. In the south of England as many as 200 rain days did not occur beyond the Welsh border except in North Devon, and everywhere south of a line drawn from Plymouth to Yarmouth there were fewer than 175 such days. The number fell below 150 in two small areas at opposite ends of the country—in Essex, where it was to be expected, and in the neighbourhood of Torquay where it could hardly have been looked for. Both these districts had undoubtedly a remarkably small number of rain days, the figures quoted being well supported by the records of surrounding stations. The general number of days for the country as a whole was 203. The greatest daily intensity of rainfall was recorded at Dungeon Ghyll, where it was $\cdot 39$ in. per rain day,* and the least was $\cdot 10$ in. at Lowthorpe, the general intensity for the country being $\cdot 17$ in.

* At Seathwaite, which is not included amongst the 73 stations, the mean intensity of daily rainfall was $\cdot 56$ in. per rain day.

	Average 1891—1902.*			Year 1905.†			Difference from Average.		
	No. of Rain Days.	Total Fall.	Rate per Rain Day.	No. of Rain Days.	Total Fall.	Rate per Rain Day.	No. of Rain Days.	Total Fall.	Rate per Rain Day.
		in.	in.		in.	in.		in.	in.
England & Wales	181	35·57	·197	186	30·01	·161	+ 5	-5·56	-·036
Scotland	206	43·93	·213	222	43·24	·195	+16	-·69	-·018
Ireland	216	42·38	·196	221	35·85	·162	+ 5	-6·53	-·034
British Isles	197	39·63	·201	203	34·73	·171	+ 6	-4·90	-·030

* Average of 62 Stations. † Average of 73 Stations.

Expressing the differences from the average in the form of percentages, we have the following comparison of the three years for which the records are available :—

Difference from Averages of 1891—1902 expressed as percentages.

	1903.		1904.		1905.	
	Rain Days.	Total R.	Rain Days.	Total R.	Rain Days.	Total R.
England and Wales.....	+17	+26	+4	-11	+3	-16
Scotland	+18	+35	+6	- 3	+8	- 2
Ireland	+17	+21	+7	- 2	+2	-15
British Isles	+16	+26	+5	- 8	+3	-12

Except that Ireland was relatively drier in 1905, the resemblance between that year and 1904 is striking. The resemblance is still more remarkable when the relative frequency of falls of different amount is looked at. Thus we have :—

Number of Days on which various amounts fell.

	Number of Days on which various amounts fell.							
	·01	·02-·04	·05-·09	·10-·24	·25-·49	·50-·99	1·00-1·99	2·00 or over.
England & Wales, 1904	24	41	34	47	28	12	2	0
„ „ 1905	26	42	35	45	24	12	2	0
Scotland	19	42	42	58	36	18	4	0
„	19	43	40	61	37	19	3	0
Ireland	24	42	41	67	40	15	2	0
„	20	46	46	63	31	13	2	0

In 1904 falls exceeding 2·00 in. were recorded at 8 stations out of the 73 ; in 1905 such falls were recorded at 9 stations. Falls of 1·00 in. or more were much less frequent, however, no less than 23 out of the 73 stations having failed to record one instance. In this respect the comparison of the three years available is as follows :—

Falls of 1·00 in. or more.

Number of Stations reporting

	Never.	One occasion.	Twice.	Three or Four times.	Five or more times.
1903.....	1	6	13	25	27
1904.....	10	33	13	8	9
1905.....	23	19	9	12	10

In conclusion, we give a table which enables the relative intensity of daily rainfall in different parts of the country to be compared by counting the number of days on which each range of intensity occurred as a proportional part of the general number of rain days for the country—203 for 1905. Three selected stations and six groups of stations of various magnitude are given.

Frequency of Falls of Rain in 1905 reduced to 203 rain days.

	·01 in.	·02-·04 in.	·05-·09 in.	·10-·24 in.	·25-·49 in.	·50-·99 in.	1·00-1·99 in.	2·00 in. and over.
STATIONS.								
Camden Square.....	26	45	39	53	29	11	0	0
Dungeon Ghyll.....	9	39	31	40	29	29	23	3
Inveraray, Newtown	22	27	28	55	35	29	7	0
GROUPS.								
England, I.—IV....	34	47	43	47	21	10	1	0
England and Wales	29	46	38	49	26	13	2	0
Wales & Lake Dist.	18	40	34	50	32	21	7	1
Scotland.....	17	39	37	56	34	17	3	0
Ireland	18	42	42	58	29	12	2	0
British Isles	23	43	39	53	29	14	2	0

Intensity of Daily Rainfall and Number of Rain Days at 73 Stations in 1905.

Div.	STATION.	Number of Days on which various amounts of Rain fell.										No. of Rain Days.	Total Rainfall.	Amount per Rain (day).	
		in.													
		.01.	.02-.04.	.05-.09.	.10-.24.	.25-.49.	.50-.99.	1.00-1.99.	2.00 or over.	in.	in.				
ENGLAND & WALES.															
I.	St. Pancras, Camden Square.....	21	36	31	42	23	9	0	0	0	0	162	22.97	in.	.14
II.	Hythe, Hillcrest Road	27	28	42	42	20	13	3	3	0	0	175	28.85	in.	.16
"	Brighton, Old Steyne.....	17	42	34	38	19	10	2	2	0	0	162	25.30	in.	.16
"	Bournemouth, Kempsey	29	43	30	35	18	12	1	1	0	0	168	25.34	in.	.15
III.	Basingstoke, Sherborne St. John	30	36	31	36	18	15	0	0	0	0	166	25.60	in.	.15
"	Oxford, Magdalen College	32	38	25	34	23	4	0	0	0	0	156	19.05	in.	.12
"	Blisworth, Crieff House.....	39	44	38	39	16	7	1	1	0	0	184	21.23	in.	.12
IV.	Stamford, Easton	19	49	44	43	13	7	1	1	0	0	176	21.49	in.	.12
"	Colchester, Lexden.....	21	34	34	40	14	0	1	1	0	0	144	15.97	in.	.11
"	Saffron Walden	29	46	41	33	19	7	0	0	0	0	175	19.99	in.	.11
"	Geldeston [Beccles]	44	39	38	48	18	4	2	2	0	0	188	21.50	in.	.11
V.	Swaffham	25	39	44	42	18	8	0	0	0	0	176	23.44	in.	.13
"	Bishops Cannings	15	33	33	45	30	11	1	1	0	0	168	27.88	in.	.17
"	Torquay, Cary Green.....	32	24	22	35	17	16	2	2	0	0	148	27.88	in.	.19
"	Barnstaple, N. Devon Athenæum	19	59	47	52	29	13	1	1	0	0	220	31.16	in.	.14
"	St. Austell, Trevarna.....	9	41	42	42	38	17	3	3	0	0	192	39.64	in.	.21
VI.	Crewkerne, Merefield House	32	42	33	26	22	13	4	4	0	0	172	29.69	in.	.17
"	Ross, The Graig	36	43	32	35	26	9	0	0	0	0	181	23.56	in.	.13
"	Shifnal, Neachley	20	46	35	56	19	4	1	1	0	0	181	23.21	in.	.13
VII.	Caistor, Castlemeant	44	43	32	49	23	3	0	0	0	0	194	20.44	in.	.11
"	Worksop, Hodsock Priory	24	42	39	29	13	4	1	1	0	0	152	16.91	in.	.11
"	Chellaston.....	23	45	37	46	18	2	0	0	0	0	171	18.48	in.	.11
VIII.	Wilmslow, Parksyde	28	46	32	57	25	9	0	0	0	0	197	27.50	in.	.14
"	St. Michael's-on-Wyve Vicarage	36	41	32	51	32	6	2	2	0	0	200	29.22	in.	.15
IX.	Knaresborough, Farnham.....	36	43	25	37	21	6	0	0	0	0	168	19.83	in.	.12
"	Sedbergh, Akay	19	35	45	57	37	25	5	5	0	0	223	47.71	in.	.21
"	Lowthorpe, The Elms	41	56	36	46	25	2	0	0	0	0	206	20.97	in.	.10

Intensity of Daily Rainfall and Number of Rain Days at 73 Stations in 1905—(continued).

Div.	STATION.	Number of Days on which various amounts of Rain fell.										No. of Rain Days.	Total Rainfall. in.	Amount per Rain Day. in.	
		in. .01.	in. .02-.04.	in. .05-.09.	in. .10-.24.	in. .25-.49.	in. .50-.99.	in. 1.00-1.99.	in. 2.00 or over.						
	ENGLAND & WALES—(con.)														
X.	Darlington, Hurworth Grange ...	18	56	23	37	26	7	0	0	0	0	0	167	21.44	.13
"	Morpeth, Bothalhaugh ...	35	48	32	46	15	9	0	0	0	0	0	185	21.77	.12
"	Brampton, Denton House ...	22	50	37	61	18	11	1	1	1	1	0	200	27.61	.14
XI.	Dungeon Ghyll ...	12	52	41	54	39	39	31	31	4	4	0	272	104.52	.39
"	Llantrisant, Talygarn ...	28	25	38	45	33	20	5	5	0	0	0	194	41.79	.22
"	Llanwrda, Dolaucothy ...	15	36	33	67	33	31	4	4	0	0	0	219	48.80	.22
"	Haverfordwest, High Street ...	22	34	32	56	37	17	2	2	0	0	0	200	39.23	.20
"	New Radnor, Ednol ...	18	57	26	46	33	18	4	4	0	0	0	202	37.89	.19
"	Lake Vyrnwy ...	25	43	41	53	35	21	3	3	1	1	0	222	44.81	.20
"	Denbigh, Garn ...	16	50	39	49	22	10	0	0	0	0	0	187	29.18	.16
"	Bethesda, St. Ann's Vicarage ...	17	39	39	55	40	19	7	7	0	0	0	216	48.41	.22
	SCOTLAND.														
XII.	Whithorn, Cutroach ...	15	34	30	49	36	19	0	0	0	0	0	183	35.85	.20
"	Dumfries, Ivy Bank ...	30	44	26	54	34	9	2	2	0	0	0	199	30.71	.15
"	Lilliesleaf, Riddell ...	33	44	38	59	23	8	0	0	0	0	0	205	26.63	.13
XIII.	Edinburgh, Royal Observatory ...	28	47	34	43	14	7	0	0	0	0	0	173	19.43	.11
XIV.	Girvan, Finmore ...	8	40	40	72	39	21	3	3	0	0	0	223	46.89	.21
XV.	Buchlyvie, The Manse ...	36	50	42	55	46	21	3	3	0	0	0	253	47.57	.19
"	Inveraray, Newtown ...	29	36	37	72	46	38	9	9	0	0	0	267	68.53	.26
"	Strontian, Laudale ...	9	30	30	60	56	35	18	18	1	1	0	239	81.46	.34
"	Islay, Eallabus ...	2	34	59	66	53	21	2	2	1	1	0	238	51.79	.22
XVI.	Blair Atholl ...	23	37	42	47	36	9	1	1	0	0	0	195	30.33	.16
"	Forfar, Lilyfield ...	24	41	29	40	19	16	0	0	0	0	0	169	27.09	.16
XVII.	Aberdeen, Cranford ...	12	62	44	61	19	15	1	1	0	0	0	214	31.19	.15
"	Keith ...	14	40	39	70	31	13	3	3	0	0	0	210	37.42	.18
XVIII.	Fort Augustus, St. Benedicts ...	9	46	38	60	48	18	2	2	0	0	0	221	43.61	.20
"	Alvey Manse ...	15	45	62	55	24	10	1	1	0	0	0	212	28.87	.14

Intensity of Daily Rainfall and Number of Rain Days at 73 Stations in 1905—(continued).

Div	STATION.	Number of Days on which various amounts of Rain fell.										No. of Rain Days.	Total Rainfall.	Amount per Rain Day.			
		in.															
		.01.	.02-.04.	.05-.09.	.10-.24.	.25-.49.	.50-.99.	1.00-1.99.	2.00 or over	in.	in.						
XVIII.	SCOTLAND—(con.)																
	Loch Torridon, Bendamph.....	6	40	27	78	60	48	11	1					271	in.	86.57	.32
XIX.	Alness, Ardross Castle	39	55	54	60	33	13	5	0					259	in.	41.21	.16
"	Altnaharra	3	27	41	83	36	20	4	0					214	in.	45.46	.21
"	Castletown, The Clett.....	33	60	54	71	44	15	0	0					277	in.	40.88	.15
	IRELAND.																
XX.	Cork, The Palace	26	36	35	46	25	11	7	0					186	in.	36.32	.20
"	Darrynane Abbey	30	42	45	65	45	23	3	0					253	in.	50.74	.20
"	Clonmel, Bruce Villa.....	17	43	46	52	16	17	2	0					193	in.	30.89	.16
"	Limerick, Roxborough.....	9	52	46	63	32	7	0	0					209	in.	30.16	.14
XXI.	Miltown Malbay	30	58	43	56	39	14	0	0					240	in.	35.16	.15
"	Ennisecorhy, Ballyhyland.....	16	44	36	62	24	16	2	0					200	in.	33.77	.17
"	Bray, Fassaroe.....	17	36	32	44	36	14	5	1					185	in.	41.66	.23
"	Mountrath, Ballyfu	2	50	60	73	23	11	2	0					221	in.	33.31	.15
XXII.	Moynalty, Westland	23	44	46	65	24	10	0	1					213	in.	32.34	.15
"	Ballinasloe.....	42	56	49	58	30	5	1	0					241	in.	28.47	.12
"	Westport, Murrisk Abbey.....	32	44	49	74	37	17	0	0					253	in.	41.90	.17
XXIII.	Collooney, Markree Observatory	13	47	63	62	39	16	0	0					240	in.	38.98	.16
"	Banbridge, Milltown	10	49	43	57	22	8	0	1					190	in.	28.03	.15
"	Bushmills, Dundarave.....	18	47	49	68	33	10	1	0					226	in.	34.81	.15
"	Newtown Stewart, Baron's Court	17	48	41	81	34	12	0	0					233	in.	37.65	.16
"	Horn Head	21	41	59	83	29	15	1	0					249	in.	39.45	.16
	ENGLAND & WALES (Mean).....	26	42	35	45	24	12	2	0					186	in.	30.01	.16
	SCOTLAND (").....	19	43	40	61	37	19	3	0					222	in.	43.24	.19
	IRELAND (").....	20	46	46	63	31	13	2	0					221	in.	35.85	.16
	BRITISH ISLES (").....	23	43	39	53	29	14	2	0					203	in.	34.73	.17

II.—Droughts in 1905.

There are two kinds of dry spell recognized for discussion in these pages, and attention is directed to the definitions :—

An ABSOLUTE DROUGHT is a period of *more than* 14 consecutive days, no one of which is a rain day.

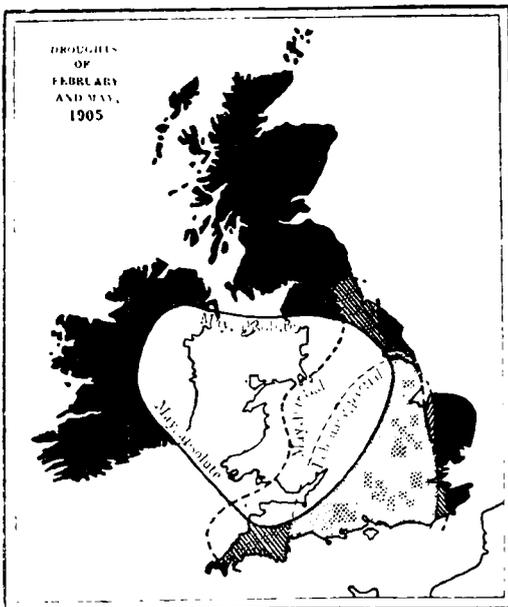
A PARTIAL DROUGHT is a period of *more than* 28 consecutive days the average rainfall of which does not exceed $\cdot 01$ in. per day.

It may be that the expression “Absolute Drought” is not quite appropriate, for very small quantities of rain (anything not greater than $\cdot 005$ in.) are not considered as constituting a rain day, the limit of which is any quantity recorded as $\cdot 01$ in. or more. The names as well as the definitions have, however, been in use for many years; they are clear and definite, and they have been proved by experience to be necessary and sufficient, so we do not propose to alter them.

The 73 stations, the names of which appear in the foregoing Table, reported 19 absolute droughts with a mean duration of 17 days, and 43 partial droughts with a mean duration of 36 days. This contrasts with the 9 absolute and 13 partial droughts of the previous year, and indicates a more irregular distribution of rainfall in time. The number of absolute droughts though twice as great as in 1904 remains extremely small when compared with previous years, and indeed in the 18 years since 1888 only three; 1902, 1903 and 1904 showed a smaller number, though 1890 had as few. No place recorded more than one absolute drought. The earliest instance in the year took place in the latter part of May, and it was the only one which could be termed widespread. It was recorded at 12 out of the 19 stations, and appears to have affected the east of Ireland, the whole of Wales and the west and centre of England. The limit assigned to an absolute drought is a severe one, and it is safe to say that the last fortnight of May had a very small rainfall indeed at the few stations within the area affected which did not actually record a drought. In the first half of June there was an absolute drought over a small area in the extreme north of England, and also a solitary instance in the extreme north of Scotland, and early in July two isolated cases occurred: one in the east of England and one in the south of Scotland. The only other absolute droughts reported occurred in the south-east of England in the somewhat unusual month of

December. Throughout almost the whole of Scotland and the greater part of Ireland there were no absolute droughts.

The year contained two long-continued dry periods, which were sufficiently rainless to be termed partial droughts, affecting a large area. The earlier of these comprised the latter part of January and nearly the whole of February, and it accounted for 14 of the 43 partial droughts reported from the 73 selected stations. The area affected included the centre and south of England, and extended, roughly speaking, from the Humber on the north to Torquay and Brighton on the south. It did not intensify itself into an absolute drought in any place. The second widespread drought occurred in May, extending from a few days to more than a fortnight into June, and this accounted for 20 out of the 43 recorded partial droughts. The area affected was the same as in February, together with an extension on the north and a broad border on the west, including half of Wales. It is interesting to notice that the area affected by the widespread absolute drought in May did not occupy a central position with regard to the area of partial drought, but lay in part outside it on the west, and did not reach to the eastward border. In other words, there were three areas in question, one of an absolute drought but no partial drought in the east of Ireland and the west of Wales, one of both absolute and partial drought in eastern Wales and west central England, and one of partial but no absolute drought



in south and east central England. The absolute drought began earliest in the west and latest in the east, and the partial drought, which began more nearly simultaneously over the country, lasted longest in the east, so much so that at Darlington it joined up with the June absolute drought which was recorded there and at Brampton.

The map illustrating the areas of the February and May droughts shows how seriously the centre of England, and especially the strip of country

from the Humber to the Bristol Channel, was affected by the coincidence of these periods of very dry weather compared with the rest of the British Isles.

The comparative Table, which shows the values for 1905 reduced to their equivalent for 50 stations as in earlier years, enables one to see at a glance that while absolute droughts were shorter and not half so numerous nor quite so widespread as in an average year, partial droughts were more numerous than in an average year, although they too were not quite so extended as usual.

Droughts in 1905.

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Lasted. Days	Began.	Ended.	Lasted. Days	Amount. in.
ENGLAND & WALES.							
St. Pancras (Camden Square) ... <i>London, North.</i>	Dec. 9	Dec. 26	18	Jan. 17	Feb. 18	33	·33
Hythe (Hillcrest Road) <i>Kent, East.</i>	None			May 3	June 3	32	·30
Brighton (Old Steyne)..... <i>Sussex, East.</i>	None			Jan. 17 May 3	Feb. 24 June 3	39 32	·38 ·12
Bournemouth (Kempsey) <i>Hampshire.</i>	None			Jan. 17 May 2	Feb. 24 June 3	39 33	·32 ·23
Basingstoke (Sherborne St. John) <i>Hampshire.</i>	None			Jan. 10 May 1	Feb. 22 May 29	44 29	·44 ·28
Oxford (Magdalen College) <i>Oxfordshire.</i>	None			Jan. 17 July 1	Feb. 25 Aug. 1	40 32	·34 ·14
Blisworth (Crieff House)..... <i>Northamptonshire.</i>	None			Jan. 17 May 1	Feb. 22 May 29	37 29	·37 ·26
Colchester (Lexden)..... <i>Essex.</i>	Dec. 12	Dec. 26	15	July 1	Aug. 1	32	·32
Geldeston [Beccles] <i>Norfolk.</i>	July 1	July 15	15	None			
Bishops Cannings..... <i>Wiltshire.</i>	None			Jan. 17 May 4	Feb. 24 June 4	39 32	·38 ·24
Torquay (Cary Green)..... <i>Devon, South.</i>	None			Jan. 17 May 2 Sept. 10	Feb. 24 June 4 Oct. 27	39 34 48	·23 ·14 ·36

Droughts in 1905—(continued).

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Lasted. Days	Began.	Ended.	Lasted. Days	Amount. in.
ENGLAND & WALES—(con.)			Days			Days	in.
Barnstaple (N. Devon Athenæum) <i>Devon, North.</i>	May 12	May 30	19	May 1	June 4	35	·32
St. Austell (Trevarna) <i>Cornwall.</i>	None			May 3	June 7	36	·36
Crewkerne (Merefield House) ... <i>Somerset, South.</i>	None			Jan. 17 May 2	Feb. 24 June 4	39 34	·23 ·18
Ross (The Graig) <i>Herefordshire.</i>	None			Jan. 17 May 3	Feb. 24 June 5	39 34	·31 ·30
Shifnal (Neachley) <i>Shropshire.</i>	May 15	May 30	16	None			
Caistor (Castlemount) <i>Lincolnshire.</i>	None			Jan. 12 May 3	Feb. 18 June 5	38 34	·37 ·32
Worksop (Hodsock Priory) <i>Nottinghamshire.</i>	May 16	May 31	16	Jan. 17 May 2	Feb. 24 June 11	39 41	·33 ·38
Chellaston <i>Derbyshire.</i>	None			Jan. 19 May 2	Feb. 24 June 2	37 32	·35 ·31
Wilmslow (Parksyde) <i>Cheshire.</i>	None			May 3	June 12	41	·41
St. Michael's-on-Wyre Vicarage. <i>Lancashire, North.</i>	May 11	May 27	17	None			
Knaresborough (Farnham) <i>Yorkshire, W.R. (N.)</i>	None			May 3 Dec. 1	June 16 Dec. 29	45 29	·44 ·28
Sedbergh (Akay) <i>Yorkshire, W.R. (N.)</i>	May 11	May 26	16	None			
Lowthorpe (The Elms) <i>Yorkshire, E.R.</i>	None			Dec. 1	Dec. 31	31	·31
Darlington (Hurworth Grange)... <i>Durham.</i>	June 2	June 16	15	May 4	June 17	45	·43
Brampton (Denton House) <i>Cumberland.</i>	June 2	June 16	15	None			
Llantrisant (Talygarn) <i>Glamorganshire.</i>	May 13	May 31	19	May 2	June 2	32	·28

Droughts in 1905—(continued).

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Amount.
ENGLAND & WALES—(con.)			Days			Days	in.
Llanwrda (Dolaucothy) <i>Carmarthenshire.</i>	May 13	May 27	15	None			
Haverfordwest (High Street) ... <i>Pembrokeshire.</i>	May 12	May 26	15	None			
New Radnor (Ednol) <i>Radnorshire.</i>	May 15	May 30	16	May 3	June 5	34	·34
Lake Vyrnwy .. <i>Montgomeryshire.</i>	None			May 2	May 30	29	·19
Denbigh (Garn) <i>Denbighshire.</i>	None			May 2	May 30	29	·23
SCOTLAND.							
Dumfries (Ivy Bank) <i>Dumfriesshire.</i>	June 21	July 10	20	None			
Edinburgh (Royal Observatory).. <i>Midlothian.</i>	None			Jan. 12	Feb. 15	35	·30
Keith <i>Banffshire.</i>	None			June 5	July 8	34	·34
Castletown (The Clett) <i>Caithness.</i>	May 31	June 14	15	None			
IRELAND.							
Cork (The Palace) <i>Cork.</i>	None			Sept.27	Oct. 25	29	·28
Clonmel (Bruce Villa) <i>Tipperary.</i>	None			Sept.20	Oct. 25	36	·36
Bray (Fassaroe)..... <i>Wicklow.</i>	May 6	May 24	19	None			
Mountrath (Ballyfin) <i>Queen's County.</i>	May 7	May 24	18	None			
Banbridge (Milltown) <i>Down.</i>	May 7	May 24	18	None			

Comparative Summary of Droughts.

	ABSOLUTE DROUGHTS.				PARTIAL DROUGHTS.			
	No. of Droughts at 50 Stations	Duration.		Stations without one.	No. of Droughts at 50 Stations	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
1901	56	17	20	10	9	37	56	42
1902	5	17	18	45	2	37	41	48
1903*	11	19	25	39	16	34	41	35
1904*	6	16	18	44	9	34	41	42
Mean	30	18	26	27	25	37	56	30
1905*	13	17	20	37	29	36	48	30
Diff.	-17	-1	-6	+10	+4	-1	-8	0

* Reduced to value of 50 stations for comparison.

III.—Rain Spells.

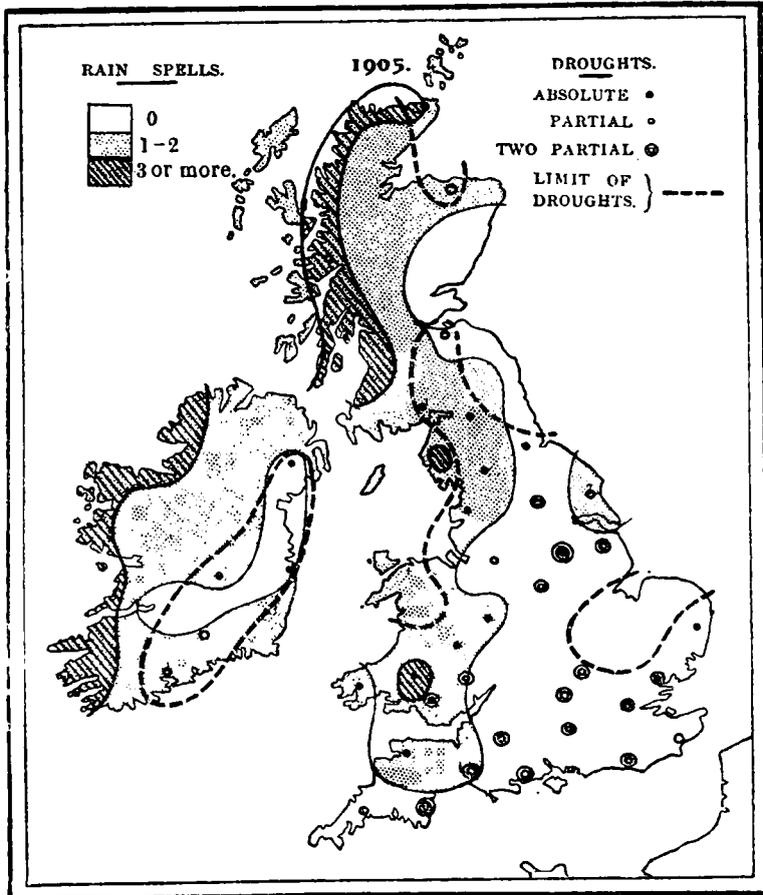
A RAIN SPELL is a period of more than 14 consecutive days every one of which is a rain day.

These periods of wet weather obviously play an important part in the distribution of rainfall, and for the last three years they have been investigated in exactly the same way as droughts.

Comparative Table of Rain Spells at 73 Stations.

Year.	No. of Rain Spells.	DURATION OF SPELLS.				STATIONS WITH			
		Average.		Greatest.		0	1 or 2.	3 or 4.	5 or more.
		days.	Mean R per day. in.	days.	Mean R per day. in.				
1903...	203	22	·28	52	·51	8	30	19	16
1904...	111	19	·22	34	·27	23	37	8	5
1905...	88	19	·24	44	·38	33	28	9	3

The little Table given above shows that 1905 was in this respect also not dissimilar to 1904, but that both years showed a very much smaller number than the very wet year 1903, when the detailed discussion of this feature was first taken up. It is too soon to consider the average condition, and all that can be done is to refer to the facts as regards the year under review.



There were 88 rain spells reported by the 73 well-distributed stations, at 33 of which none occurred. The greatest number at any one station was 8 at Inveraray. Only two of the rain spells reached the length of 40 days—both of them at Dungeon Ghyll—but five had a duration of 30 days or more.

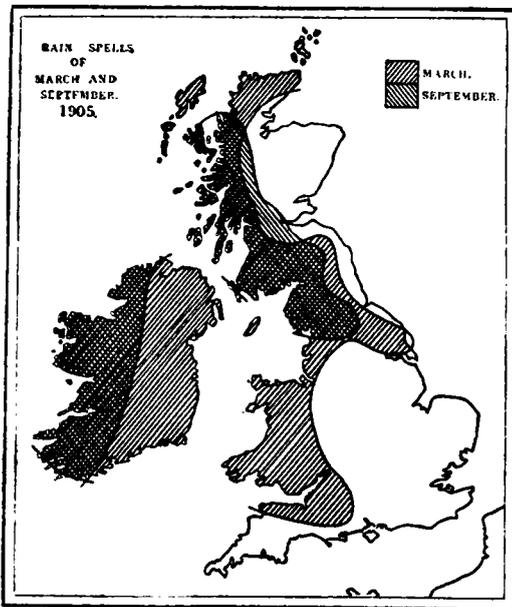
The daily intensity of rainfall in the seven cases quoted below averaged $\cdot 40$ in. per day or more, and in two instances, at Strontian and Dungeon Ghyll, the average for a rain spell reached half an inch per day.

Rain Spells of an Average Rate of .40 in. or more per day.

Div.	Station.	Began.	Ended.	Lasted.	Total Fall.	Rain per Day.		
						Max.	Min.	Mean.
X.	Dungeon Ghyll ...	Feb. 25	Mar. 18	22	11.62	1.50	.01	.53
"	" " ...	Nov. 20	Dec. 29	40	18.63	2.50	.01	.47
XV.	Strontian	Mar. 3	Mar. 20	18	7.24	1.25	.01	.40
"	"	Aug. 31	Sept. 16	17	8.52	1.45	.03	.50
XVIII.	Bendamph	Jan. 28	Feb. 20	24	10.17	1.74	.01	.42
"	"	Aug. 31	Sept. 17	18	8.44	1.10	.02	.47
"	"	Sept. 27	Oct. 12	16	6.68	1.80	.02	.42

No rain spells occurred, so far as the stations considered show, in the east of Scotland south of Aberdeen, in the east or south of England (except in the East Riding of Yorkshire), or in a portion of the east and centre of Ireland. Three or more rain spells occurred only in the extreme west of Ireland, the west of the mainland of Scotland, and in one small area of the English Lake District and of South Wales. These areas are clearly shown on the little map on the previous page, on which the occurrence of droughts is also represented. It will be noticed that in Wales and the west of England the same areas were affected both by droughts and rain spells, but that no rain spells occurred in the Midland districts where the effect of droughts was most marked.

Rain spells ended in every month of the year, but only one each in the months of May, June and July. The largest number ended in March (31), and the next largest in September (13), these accounting for half the cases reported.



They are the only instances requiring special consideration, and the limits within which they were general are indicated on the accompanying map by appropriate shadings. The area common to both spells is by this manner of representation shown with cross-shading. The March rain spell commenced on February 23rd in two cases, and terminated on

March 22nd in one instance, but in most cases it began on March 3rd and ended on March 18th. It was general over Ireland, Wales, the north-west of England and the west of Scotland. The September rain spell affected only the west of Ireland, the north-west of England and a portion of the west of Scotland. It commenced at the earliest on August 15th, and ended at the latest on September 17th, the usual duration being, however, from August 31st to September 15th or 16th.

Table of Rain Spells, 1905.

STATION & COUNTY.	Began.	Ended.	Lasted.	Total Rain.	RAIN PER DAY.			
					Max.	Min.	Mean	
ENGLAND & WALES.				Days	in.	in.	in.	in.
Barnstaple(NDevonAthenæum) <i>Devonshire, North.</i>	Oct. 28	Nov. 14	18	4·52	·75	·01	·25	
Crewkerne (Merefield House)... <i>Somerset, South.</i>	Mar. 4	Mar. 18	15	4·57	1·04	·01	·30	
Shifnal (Neachley)	Aug. 17	Aug. 31	15	2·65	·52	·01	·18	
St. Michael's-on-Wyre Vicarage <i>Lancashire, North.</i>	Mar. 3	Mar. 18	16	2·07	·33	·01	·13	
Sedbergh (Akay)	Feb. 29	Mar. 18	23	5·14	·63	·01	·22	
<i>Yorkshire, W.R. (N.)</i>	Aug. 25	Sept. 10	17	4·94	1·75	·01	·29	
Lowthorpe (The Elms)	Mar. 6	Mar. 22	17	1·10	·33	·01	·06	
<i>Yorkshire, E.R.</i>	Sep. 23	Oct. 7	15	1·17	·28	·01	·08	
Brampton (Denton House).....	Feb. 23	Mar. 18	24	2·39	·53	·01	·10	
<i>Cumberland.</i>								
Dungeon Ghyll.....	Feb. 25	Mar. 18	22	11·62	1·50	·01	·53	
<i>Westmorland.</i>	Mar. 22	May 4	44	16·50	2·66	·01	·38	
	Aug. 17	Sept. 16	31	10·41	1·34	·01	·34	
	Nov. 20	Dec. 29	40	18·63	2·50	·01	·47	
Llantrisant (Talygarn).....	Mar. 4	Mar. 19	16	5·92	1·94	·01	·37	
<i>Glamorganshire.</i>	Oct. 29	Nov. 13	16	5·43	1·47	·01	·34	
Llanwrda (Dolaucothy)	Jan. 31	Feb. 14	15	1·11	·15	·01	·07	
<i>Carmarthenshire.</i>	Mar. 4	Mar. 19	16	5·72	1·50	·04	·36	
	Apr. 3	Apr. 17	15	3·31	·80	·01	·22	
New Radnor (Ednol)	Mar. 3	Mar. 17	15	4·36	·68	·01	·29	
<i>Radnorshire.</i>								
Lake Vyrnwy	Mar. 3	Mar. 18	16	4·38	·78	·01	·27	
<i>Montgomeryshire.</i>								
Bethesda (St. Ann's Vicarage). <i>Carnarvonshire.</i>	Mar. 4	Mar. 18	15	5·15	·91	·03	·34	

Table of Rain Spells—(continued).

STATION & COUNTY.	Began.	Ended.	Lasted. Days	Total Rain. in.	RAIN PER DAY.		
					Max. in.	Min. in.	Mean in.
SCOTLAND.							
Whithorn (Cutroach) <i>Wigtownshire.</i>	Mar. 3	Mar. 17	15	2·71	·45	·02	·18
Dumfries (Ivy Bank) <i>Dumfriesshire.</i>	Mar. 3	Mar. 17	15	3·04	·48	·02	·20
Lilliesleaf (Riddell) <i>Roxburghshire.</i>	Mar. 5 Aug. 25	Mar. 19 Sept. 10	15 17	1·69 3·08	·50 ·80	·01 ·01	·11 ·18
Girvan (Pinmore) <i>Ayrshire.</i>	Jan. 29 Mar. 3 Aug. 28	Feb. 19 Mar. 17 Sept. 13	22 15 17	2·64 3·18 4·20	·38 ·62 ·90	·01 ·05 ·02	·12 ·21 ·25
Buchlyvie (The Manse) <i>Stirlingshire.</i>	Aug. 26	Sept. 13	19	3·98	·80	·01	·21
Inveraray (Newtown) <i>Argyllshire.</i>	Jan. 26 Mar. 3 Mar. 23 May 22 July 24 Aug. 31 Oct. 25 Nov. 29	Feb. 10 Mar. 21 Apr. 15 June 5 Aug. 13 Sept. 16 Nov. 8 Dec. 25	16 19 24 15 21 17 15 27	3·32 5·33 5·11 4·08 5·63 5·47 3·67 8·48	·70 ·71 1·10 ·91 1·27 ·87 1·04 1·22	·02 ·01 ·01 ·01 ·01 ·01 ·01 ·01	·21 ·28 ·21 ·27 ·27 ·32 ·24 ·31
Strontian (Laudale)..... <i>Argyllshire.</i>	Jan. 26 Mar. 3 Aug. 31 Sept. 30	Feb. 10 Mar. 20 Sept. 16 Oct. 15	16 18 17 16	3·65 7·24 8·52 4·14	·49 1·25 1·45 1·15	·03 ·01 ·03 ·02	·23 ·40 ·50 ·26
Islay (Eallabus)..... <i>Argyllshire.</i>	Jan. 1	Jan. 19	19	3·22	·54	·01	·17
Keith <i>Banffshire.</i>	Sept. 23 Oct. 12	Oct. 8 Nov. 17	16 37	3·25 12·38	·55 1·61	·04 ·01	·20 ·33
Fort Augustus (St. Benedict's) <i>Inverness, West.</i>	Oct. 20	Nov. 11	23	2·54	·76	·01	·11
Alvey Manse..... <i>Inverness, East.</i>	Oct. 10	Oct. 25	16	1·62	·47	·01	·10
Loch Torridon (Bendamph) ... <i>Ross, West.</i>	Jan. 28 Mar. 3 Aug. 31 Sept. 27 Oct. 16 Nov. 29	Feb. 20 Mar. 18 Sept. 17 Oct. 12 Nov. 2 Dec. 26	24 16 18 16 18 28	10·17 6·04 8·44 6·68 3·60 10·52	1·74 1·08 1·10 1·80 ·98 1·83	·01 ·06 ·02 ·02 ·02 ·03	·42 ·38 ·47 ·42 ·20 ·38
Alness (Ardross Castle) <i>Ross, East.</i>	Mar. 23 Oct. 21	Apr. 12 Nov. 7	21 18	3·02 6·30	·69 1·52	·01 ·01	·14 ·35
Altnaharra <i>Sutherland.</i>	Jan. 25 Mar. 3	Feb. 10 Mar. 17	17 15	4·25 3·02	·65 1·01	·02 ·02	·25 ·20

Table of Rain Spells—(continued).

STATION & COUNTY.	Began.	Ended.	Lasted.	Total Rain.	RAIN PER DAY.			
					Max.	Min.	Mean	
SCOTLAND—(con.)				Days	in.	in.	in.	in.
Castletown (The Clett) <i>Caithness.</i>	Jan. 29	Feb. 14	17	4·19	·63	·01	·25	
	Feb. 24	Mar. 18	23	2·60	·70	·01	·11	
	Mar. 28	Apr. 15	19	2·89	·58	·01	·15	
	July 19	Aug. 14	27	4·13	·70	·01	·15	
	Sept. 26	Oct. 28	33	5·28	·52	·01	·16	
	Oct. 30	Nov. 19	21	4·77	·97	·02	·23	
IRELAND.								
Cork (The Palace)..... <i>Cork.</i>	Mar. 3	Mar. 17	15	3·52	·84	·01	·23	
Darrynane Abbey..... <i>Kerry.</i>	Mar. 3	Mar. 20	18	5·98	·99	·02	·33	
	Aug. 14	Aug. 29	16	2·98	·85	·01	·19	
	Aug. 31	Sept. 15	16	1·64	·34	·01	·10	
	Nov. 19	Dec. 8	20	4·19	·78	·01	·21	
Miltown Malbay <i>Clare.</i>	Jan. 4	Jan. 19	16	2·57	·75	·01	·16	
	July 10	July 25	16	1·72	·31	·01	·11	
	Aug. 15	Sept. 8	25	5·55	·80	·01	·22	
Enniscorthy (Ballyhyland)..... <i>Wexford.</i>	Mar. 4	Mar. 20	17	3·22	·72	·02	·19	
Mountrath (Ballyfin) <i>Queen's County.</i>	Mar. 3	Mar. 20	18	4·21	·68	·02	·23	
Moynalty (Westland) <i>Meath.</i>	Mar. 3	Mar. 20	18	3·17	·48	·01	·18	
Ballinasloe <i>Galway.</i>	Mar. 3	Mar. 20	18	3·09	·70	·01	·17	
	Aug. 31	Sept. 15	16	2·01	·39	·01	·13	
Westport (Murrisk Abbey) ... <i>Mayo.</i>	Jan. 2	Jan. 18	17	3·97	·65	·02	·23	
	Mar. 3	Mar. 22	20	5·03	·75	·01	·25	
	Aug. 31	Sept. 14	15	2·56	·46	·01	·17	
Collooney (Markree Observat'ry) <i>Sligo.</i>	Mar. 3	Mar. 17	15	3·06	·46	·05	·20	
	Mar. 24	Apr. 8	16	1·29	·22	·01	·08	
	July 27	Aug. 11	16	2·38	·53	·02	·15	
Bushmills (Dundarave) <i>Antrim.</i>	Mar. 3	Mar. 17	15	1·84	·34	·01	·12	
	July 24	Aug. 13	21	3·39	1·00	·01	·16	
Newtown Stewart (Baron's Court) <i>Tyrone.</i>	Mar. 3	Mar. 17	15	2·90	·59	·03	·19	
	July 28	Aug. 11	15	2·32	·45	·01	·15	
Horn Head..... <i>Donegal.</i>	Mar. 2	Mar. 20	18	2·47	·25	·02	·14	
	July 19	Aug. 11	24	3·82	1·60	·01	·16	
	Aug. 31	Sept. 16	17	3·16	·81	·01	·19	

MONTHLY RAINFALL OF 1905.

IN presenting a discussion of monthly rainfall it is necessary to quote a large number of records, and this we do in the Table of Monthly Rainfall at 233 stations printed at the end of this article. Our readers should bear in mind that this table does not contain one-tenth of the material available for the purpose, and that want of funds, not want of facts, is the only reason for perpetuating the incompleteness of the past. However, the 233 stations are selected for proved accuracy and for uniform distribution over the country, so that they give a fair representation of the true conditions. In discussing them we have the advantage of referring to a detailed map of the rainfall of every month, on which they are all entered, and a great many more as well. These detailed maps ought also to be published, but they are not, for the usual reason.

Most persons interested in the variations of monthly rainfall concern themselves less with the actual amounts recorded than with the variation of these amounts from the average quantities. It is convenient for this purpose to represent the average rainfall at each station as 100 and to express the rainfall for the month as a ratio to that figure. Thus in the following Table giving variations from the 30 years' average at about 70 stations any figure larger than 100 shows a fall above the average, any figure smaller than 100 shows a fall below the average. If a month at any station had a fall one quarter, or 25 per cent. of the average at that station, it would be represented as 25; if it had a fall 4 times, or 400 per cent. of the average at that station, it would be represented by 400. The figures for each month are also shown on one of the small maps which accompany this section, and to throw the distribution of rainfall into greater relief the areas in which the fall exceeds the average are shaded with a depth proportional to the excess.

MONTHLY RAINFALL.

[143]

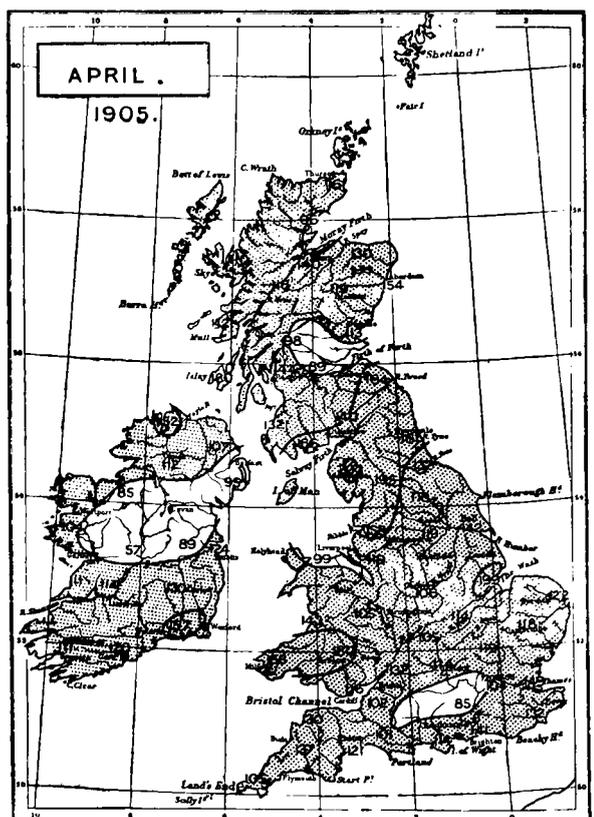
TABLE I.—Variation of Monthly Rainfall in 1905 from the Average, 1870-1899, taken as 100.

Div.	Station.	Jan.	Feb.	Mar.	Apl.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
I.	St. Pancras, Camden Square ..	71	49	185	104	69	210	39	96	91	49	126	35	91
II.	Tenterden	49	41	191	132	72	268	26	104	94	52	132	27	94
"	Arundel, Patching	55	33	234	141	21	214	14	109	77	44	137	28	85
"	Osborne, Newbarn Cottage ..	38	30	310	111	24	255	11	97	87	69	140	30	94
III.	Basingstoke, Sherborne St. John	63	29	301	85	60	218	19	126	87	60	109	32	89
"	Hitchin, Watfien	22	65	184	114	107	174	49	144	89	55	94	38	94
"	Oxford, Magdalen College	39	26	195	119	51	170	6	126	52	46	109	42	78
IV.	Kettering	55	39	172	114	41	130	41	108	84	39	102	44	79
"	Shoeburyness	47	36	118	149	45	220	13	85	74	30	81	25	74
"	Bury St. Edmunds, Westley ..	70	88	138	118	68	208	40	92	57	77	86	35	86
V.	Norwich, Brundall	56	96	110	122	81	166	24	104	79	139	72	54	90
"	Cerne Abbas, Melbury	24	25	259	101	30	130	17	139	50	60	125	26	79
"	Sidmouth, Sidmout	40	37	220	121	8	113	19	136	68	69	124	26	82
"	Northam Vicarage	51	65	181	130	37	134	27	161	41	69	145	43	85
"	Phillack Rectory	42	34	228	105	33	135	29	167	37	43	128	34	79
"	Altarnon	58	63	228	137	30	119	19	146	51	63	118	39	85
VI.	East Harptree, Sherborne Res...	16	30	214	102	3	205	22	118	46	46	90	32	72
"	Stroud, Upfield	28	38	234	132	35	186	29	157	32	61	126	28	87
"	Church Stretton, Woolstaston ..	25	59	258	105	26	129	51	131	42	48	106	26	79
VII.	Warwick, Barford Rectory	39	30	189	105	11	124	59	159	41	36	88	54	76
"	Boston	51	35	118	139	78	137	51	124	101	62	115	24	90
VIII.	Mickleover Manor	46	49	181	106	18	59	33	118	65	45	113	35	69
"	Chester	48	69	141	119	58	100	59	111	53	52	109	17	76
IX.	Blackburn, Guide Reservoir	48	66	105	158	21	102	66	92	60	73	142	15	76
"	Barnsley, Church Street	28	61	120	119	28	106	53	156	44	57	167	21	80
"	Knarborough, Farnham	33	63	118	118	46	77	46	113	67	50	159	14	74
"	Arncliffe Vicarage	53	96	113	195	29	66	33	99	89	68	123	68	84
"	Hull, Pearson Park	34	62	115	142	26	108	64	97	60	61	120	17	75
X.	Middlesbrough, Albert Park	18	56	97	132	31	45	24	114	99	79	207	15	77
"	Newcastle, Town Moor	22	58	64	161	27	59	57	82	83	104	170	17	78
"	Borrowdale, Seathwaite	62	85	106	203	113	85	54	87	65	90	100	75	88
XI.	Cardiff, Ely	43	37	215	116	5	163	48	96	46	57	99	49	77
"	Haverfordwest, High Street	53	49	200	163	52	87	62	135	54	36	128	33	82
"	Aberystwyth, Gogerddan	79	90	213	143	66	80	73	152	70	55	87	36	91
"	Brecon, Llandefaelog-fach	41	63	179	180	8	90	40	139	65	57	66	28	74

TABLE I.—Variation of Monthly Rainfall in 1905 from the Average, 1870–1899, taken as 100—(continued).

Div.	Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
XI.	Llandudno.....	86	95	159	99	23	97	85	98	44	100	114	14	84
XII.	Auchencairn, Torr House.....	38	85	115	166	114	87	22	123	47	69	92	69	81
"	Moffat, Eriestane.....	48	69	166	140	111	75	54	94	52	70	79	54	79
XIII.	Marchmont House.....	25	42	104	32	32	12	66	113	98	98	131	26	78
XIV.	Girvan, Pinmore.....	68	108	139	132	45	80	78	126	84	92	115	86	96
"	Loch Thom.....	72	106	143	144	83	43	99	112	57	82	115	92	94
XV.	Falkirk, Kerse.....	42	80	159	89	73	34	101	103	52	79	127	95	87
"	Islay, Eallabus.....	97	109	161	130	130	49	107	138	96	115	116	77	109
"	Mull, Quinish.....	73	112	188	112	117	35	86	87	109	102	90	83	98
XVI.	Balquhider, Stronvar.....	61	71	149	98	78	66	70	121	72	64	124	91	89
"	Dundee, Eastern Necropolis.....	17	38	164	113	74	40	45	112	45	70	157	46	77
XVII.	Braemar.....	55	87	202	119	72	58	76	105	60	95	174	64	98
"	Aberdeen, Cranford.....	31	84	146	154	55	36	62	113	80	118	197	28	94
"	Keith.....	92	145	195	130	51	20	50	101	90	205	248	29	114
XVIII.	Cawdor, Budgate.....	96	132	200	140	102	58	57	99	60	147	140	49	103
"	Invergary.....	114	148	143	116	96	78	65	71	83	69	104	94	100
XIX.	Applecross Gardens.....	76	141	159	110	87	38	83	103	146	124	109	56	104
"	Dunrobin Castle.....	129	156	178	96	56	40	62	119	78	116	123	49	101
"	Watten.....	114	190	169	161	61	41	86	107	90	145	146	46	111
XX.	Cork, Queen's College.....	77	44	272	120	41	96	73	176	46	26	112	128	100
"	Killarney.....	70	53	201	111	54	57	40	101	59	51	93	81	85
"	Waterford, Brook Lodge.....	67	35	219	157	75	72	71	150	60	19	112	43	85
"	Broadford, Hurdlestown.....	86	84	232	114	63	83	67	113	74	62	92	55	91
"	Miltown Malbay.....	81	54	196	111	49	60	73	86	82	43	83	57	79
XXI.	Carlów, Browne's Hill.....	76	40	174	130	70	58	45	172	58	31	106	56	84
"	Dublin, FitzWilliam Square.....	88	38	148	124	61	66	31	233	57	39	136	83	91
"	Mullingar, Belvedere.....	78	68	212	89	50	66	49	167	40	48	99	83	88
XXII.	Ballinasloe.....	65	66	174	57	48	93	31	144	67	44	69	67	77
"	Clifden, Kylemore House.....	77	84	152	104	56	58	45	90	79	57	86	67	79
"	Collooney, Markree Observatory.....	94	140	179	85	59	58	44	128	61	78	120	83	93
XXIII.	Seaforde.....	51	57	159	40	40	113	34	222	31	42	128	79	87
"	Ballymena, Harryville.....	81	114	166	107	78	92	71	148	58	66	121	61	96
"	Omagh, Edenfel.....	99	79	212	112	86	71	67	121	69	56	109	90	95
"	Buncrana, Rockfort.....	87	120	137	152	68	97	64	106	55	62	120	59	90
	ENGLAND AND WALES.....	45	54	178	131	42	138	39	120	66	61	118	33	82
	SCOTLAND.....	69	106	160	129	80	49	71	108	78	103	133	63	95
	IRELAND.....	79	72	189	111	60	76	54	144	60	48	106	72	88
	BRITISH ISLES.....	59	71	176	126	56	101	50	122	67	69	119	49	87

MAPS OF MONTHLY RAINFALL, 1905.



The figures express the relation of the Rainfall to the average of the month during 1870-99, which is taken as 100. Unshaded areas are below the average.

JANUARY.

The month was remarkably dry. The average rainfall was only exceeded in a small area in the north-east of Scotland and that to no great extent. The whole of the south of Scotland and of the centre of England had less than half the average rainfall, and less than a quarter of the average fell along the extreme east from Montrose to Flamborough Head and in a portion of the south of England, the general fall for England and Wales being only 45 per cent. of the average. Scotland had a general fall of 69 per cent. of the average and Ireland 79 per cent., while the British Isles as a whole had 59 per cent. There were practically no cyclonic storms, and for a week towards the end of the month a marked anticyclone with unprecedentedly high pressures spread over the British Isles.

FEBRUARY.

This was the sixth consecutive dry month over the greater part of the British Isles, and the Observers' Notes on the Month are eloquent of the dearth of water in many parts of the country.* The north-west of Ireland and the north-westerly half of Scotland had the full normal rainfall and in the extreme north-west even enjoyed an excess of 50 per cent., the general fall of Scotland being 106 per cent. of the average. The south-east of Ireland, the south-east of Scotland and the greater part of the south-east of England had again to experience a rainfall less than half the average, and practically the whole of England suffered from a protracted partial drought, the limits of which are referred to and mapped on p. [132]. The general fall for England and Wales was 54 per cent. of the average, for Ireland 72 per cent., and for the British Isles 71 per cent. There was again a remarkable scarcity of cyclonic storms over Ireland and England, and but for the anxiety caused to those responsible for water supplies the bright and genial weather of the month was everywhere welcomed.

**THE SIX MONTHS' RAINFALL SEPTEMBER, 1904—
FEBRUARY, 1905.**

It is so uncommon for the general rainfall of the country to remain below the average every month for six consecutive months that we make no apology for breaking a tradition and referring to the conditions of a period which spans the arbitrary division between

* See also *Met. Mag.*, March, 1905.

two years. The accompanying map is reproduced from *Symons's Meteorological Magazine* for March, 1905, where the subject is dealt



with at greater length than is possible here.* The figures represent percentages of the average rainfall for the six months, and the dis-

* See *Met. Mag.*, March, 1905, pp. 21-25.

tracts in which the period September, 1904—February, 1905, exceeded 75 per cent., or three quarters of the average, are shaded. The small area in the west of Scotland where the fall just reached the average is shaded more deeply. The remarkable features on the map are the substantial tracts of country in the east of Scotland and the Midlands of England in which the rainfall for the six months was less than 50 per cent. of the average, areas within which the ensuing summer naturally revealed a great shortage in the stored water-supplies both from reservoirs and from the natural storehouses of the rocks into which deep wells are sunk. The general percentage of the average falls over each of the great divisions of the country were as follows :—

Monthly Rainfall, Sept., 1904—Feb., 1905. Per cent. of Average.

	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	SIX MONTHS.
England and Wales.	67	40	64	89	47	57	... 60
Scotland	88	56	67	82	75	106	... 78
Ireland	99	59	73	76	78	69	... 75
British Isles.....	80	48	67	84	62	73	... 68

Taking a more natural line of division for Great Britain and leaving Ireland out of account, we get a sharp contrast between the east and west. The meridian of 4° W. is taken as the dividing line, but the portions of Sutherland and Caithness east of that line are classed with the west :—

Monthly Rainfall, Sept., 1904—Feb. 1905. Per cent. of Average.

	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	SIX MONTHS.
Western Division ...	101	64	81	90	85	114	... 88
Eastern Division ...	64	38	61	85	46	59	... 58

MARCH.

This was the first wet month since August, 1904, and over the whole country, with the exception of Northumberland and Durham, the average was greatly exceeded. An extraordinary number of cyclonic depressions passed north-eastward off the west coasts of Ireland and Scotland, and several passed across the extreme north of Scotland and across or along the coast of the extreme south of England, though none crossed the central portion of our islands. The rain fell both heavily and with persistence, the only widespread rain spell of the year occurring over Ireland, Wales and the west of England and Scotland from about the 2nd to the 20th. The excess of rainfall was greatest in the south of England, the greater part of Hampshire receiving more than three times the average amount for

the month, while over almost the whole country south-west of a line drawn from Beachy Head to Carnarvon the fall was more than twice the average. A similarly large excess occurred in the south and centre of Ireland and in a small part of the north-east of Scotland. The general rainfalls of England and Wales, Scotland and Ireland were respectively 178, 160 and 189 per cent. of the average, that for the British Isles being 176 per cent. These heavy falls came most opportunely, as a seventh dry month would have had a disastrous effect on agriculture as well as on water-supply. The following are a few of the most remarkable readings, several of them unprecedented in long records, in the area within which the fall for this month exceeded 300 per cent. of the average :—

Div.	in.	Div.	in.
II. Ryde (Pier Street)	6·88	II. Kilmeston Manor	5·82
„ Netley (Roy. Victoria Hosp.)	6·32	„ Winchester (Gwynfa)	5·80
„ Alton (Ashdell)	6·28	„ Newport (Grammar School)	5·79
„ Wootton (Fernhill)	6·14	„ Petersfield (Fairley)	5·79
„ Alresford (Ovington Rect.)	5·97	„ Otterbourne (Elderfield) ..	5·77
„ Alton (Shalden Manor) ...	5·96	„ Newbury (Welford Park)..	5·77
„ Chichester (Chilgrove).. ...	5·91	„ Colmer Rectory	5·74
„ Midhurst (Borden Wood)..	5·91	„ Southampton (Tatchbury Manor)	5·73
„ Andover (The Knoll)	5·91	„ Greatham (Manor House)..	5·72
„ Ryde (W. W., Knighton)..	5·89	V. Salisbury (Wilton House)..	5·72
„ Carisbrooke (Rowborough)	5·83		

THE RAINFALL OF THE SIX WINTER MONTHS.

The rain which falls in the winter half-year, during the rest-time of vegetation, is of comparatively little concern to the farmer, but it is of critical importance to the water-works engineer. During those months, when evaporation also is at a minimum, all the water that falls upon the land is available for filling reservoirs on the surface or for replenishing the natural storage in water-bearing rocks from which springs and wells are supplied. The wetness of March did something to redeem the winter six months from the extreme dryness of the six from September to February; but even so, the winter months for England and Wales showed a general fall equal to only 78 per cent. of the average, for Scotland and Ireland it was 90 per cent., and for the British Isles as a whole 84 per cent. At individual stations, as the following list shows, the deficiencies were considerable and suggested a dearth of water in summer, which did not fail to manifest itself.

Six Months' Winter Rainfall: October, 1904—March, 1905.

Div.	STATIONS.	Average, 1870-1899.	Rainfall, Oct., 1904, to Mar., 1905.	Per cent. of Average.	Div.	STATIONS.	Average, 1870-1899.	Rainfall, Oct., 1904, to Mar., 1905.	Per cent. of Average.
		in.	in.				in.	in.	
I.	Camden Square	12.55	10.18	81	XI.	Llandudno	16.92	13.34	79
II.	Tenterden	15.66	13.11	84	XII.	Cargen	24.74	18.72	76
III.	Hartley Wintney	14.88	10.84	73		Lilliesteaf	17.12	10.26	60
IV.	Hitchin	12.21	9.55	78	XIV.	Colmonell	22.70	22.70	87
	Winslow	13.19	8.71	66		Glasgow	18.48	14.75	80
	Bury St. Edmunds	12.16	9.26	76	XV.	Inveraray	36.61	41.00	112
V.	Brundall	12.63	9.93	79		Islay, Eallabus	28.00	29.00	104
"	Alderbury	16.07	12.71	79	"	Mull, Quinish	33.58	31.48	94
"	WinterbourneSteepleton	22.70	17.25	76	XVI.	Dundee	14.32	7.40	52
"	Torquay	19.77	13.93	71	XVII.	Braemar	19.17	13.41	70
"	Polapit Tamar	22.77	20.46	90	"	Aberdeen.....	17.22	11.57	67
"	Bath.....	15.62	9.59	61	"	Cawdor	14.19	14.08	99
VI.	Stroud	15.02	10.09	67	XVIII.	Invergarry	34.54	35.94	104
"	Woolstaston	17.18	11.67	68		Bendamp	50.71	53.00	104
"	Bromsgrove.....	11.67	7.99	68	XIX.	Dunrobin.....	17.45	17.99	103
VII.	Boston	11.05	6.40	58	XX.	Killarney.....	34.58	27.76	80
"	Worksop	11.76	5.73	49	"	Waterford	22.13	17.10	77
"	Derby	12.43	7.17	58		Broadford	17.02	18.45	108
VIII.	Bolton	21.75	18.81	86	XXI.	Carlow	18.10	12.64	70
IX.	Wetherby	12.97	9.20	71	"	Dublin	14.06	8.41	60
"	Arnccliffe	35.06	28.12	80	"	Mullingar	18.33	16.05	88
X.	Hull	13.52	7.27	54	XXII.	Ballinasloe	19.10	17.10	90
"	Newcastle	13.87	8.59	62	"	Clifden.....	44.78	37.09	83
"	Seathwaite	78.82	66.53	84	"	Crossmolina	29.44	28.20	96
XI.	Cardiff	23.27	18.36	79	XXIII.	Seaforde	20.56	13.29	65
"	Haverfordwest	28.12	21.49	76	"	Londonderry	22.30	20.65	93
"	Aberystwyth	24.58	23.20	94	"	Omagh.....	19.32	20.27	105

APRIL.

The month was moderately wet on the whole, though the distribution of rainfall was somewhat irregular. The driest part with regard to deficiency from the average was the centre of the north of Ireland, and several smaller patches of country in England, Wales and Scotland fell short of the average by a little. The shading of the map throws these comparatively dry areas into a relief that is almost too strong. At two points only did the fall approach twice the average; but the general fall of England and Wales reached 131 per cent., of Scotland 129 per cent., of Ireland 111 per cent., and of the whole British Isles 126 per cent.

MAY.

The two wettest months of the year were followed by one which was very dry, and in some parts of the country it proved to be the driest May on record; though for England as a whole May, 1896, had less rain. A map of the actual rainfall of the month has been published.* It shows that over the whole diagonal belt of England from the Severn to the Humber the total fall for the month was less than half-an-inch, while on both sides more than an inch of rain fell, yet in few places did the total exceed two inches. We quote at the end of this section a number of cases where extremely light falls were recorded. The weather was for most of the month under the influence of a succession of anticyclones, frequently lying to the north and producing an unusual predominance of easterly winds, which accounts for the rainfall in England and Wales being greater on the east coast than on the west. The widespread droughts of the month are referred to elsewhere. As usual in rainfall matters, Ireland shows gentler extremes than the sister island; no part had average rainfall, and a comparatively small part of the island had even a little below 50 per cent; the general fall was 60 per cent. of the average. Scotland was crossed from Islay to near the Moray Firth by a narrow belt where the rainfall was slightly above the average, and there was another small area of average rainfall in the south-west. Only in the south-east did half of the average fall prevail, and the general rainfall reached 80 per cent. of the average. England was banded from north-west to south-east by alternate stripes of comparatively wet and dry. The Lake District had a trifle above the average, and a spot of average rainfall appeared near Hitchin, in the middle of the patch of more than 50 per cent.

* See *Met. Mag.*, June, 1905, p. 78.

MAPS OF MONTHLY RAINFALL, 1905.



The figures express the relation of the Rainfall to the average of the month during 1870-99, which is taken as 100. Unshaded areas are below the average.

rainfall which filled East Anglia and extended to the south-west of London. Between these moister extremes the rainfall fell to less than 25 per cent. between the Bristol Channel and Hull, and all round the Bristol Channel from Barnstaple to Gower the rainfall was less than 10 per cent. of the average, a degree of dryness which is very rarely recorded. England and Wales had a general rainfall of 42 per cent. and the British Isles as a whole 56 per cent. of the average. The driest stations were—

Div.	in.	Div.	in.
V. Bath (Kingswood School) ...	·02	VI. ChippingSodbury(StanshawesCourt)	·07
XI. Cowbridge (Fonmon Castle)..	·02	V. Flax Bourton (Tyntesfield)...	·08
V. Braunton (Light House)	·03	„ Abbots Leigh	·08
„ Bath (Combe Park)	·04	VI. Bristol (Telephone Avenue)...	·08
„ StocklandBristolManorHouse	·05	XI. Barry	·08
„ Bristol (Coronation Road) ...	·05	„ Cardiff (Lisvane Reservoir)...	·08
„ Braunton (Saunton)	·06	V. Exford (North Ley)	·09
VI. Clifton (Stoke Bishop).....	·06	„ Hutton Rectory	·09
„ Winterbourne (Kendleshire)..	·06	„ Pensford (Sutton Court)	·09
V. E. Harptree (Sherborne Res.)	·07	„ „ Vicarage	·09
„ Bath (Henrietta Park).....	·07	„ Bath (Statutory Hospital) ...	·09
VI. Clifton (Harley Place)	·07	VI. Bristol (Ashley Down).....	·09
„ „ College	·07	XI. Caldicot Level (Porton)	·09
„ Avonmouth (Bristol Docks)..	·07	„ Llandaff (Howell's School) ...	·09

JUNE.

The month was dry in the north and west, a large part of Scotland receiving less than one inch of rain, and none of it so much as five inches. It was remarkably wet in the south on account of thunderstorms, and falls exceeding five inches were recorded over the greater part of the counties south of the Thames. The result was that most of Scotland had less than half the average rainfall, the general fall being only 49 per cent. Ireland, Wales and the north of England had less than the average, while the whole of the south-east of England had more than twice the average amount. The distribution is thus not unlike that which prevailed in a more intense degree in June, 1903. The general fall of England and Wales was 138 per cent. of the average, greater in fact than in any month but March; that of Ireland was 76 per cent., and that of the British Isles as a whole was practically normal.

JULY.

A very dry month in all parts of the country, the average rainfall being touched only in a small area in central Scotland, while the whole centre of England from north to south and more than half of Ireland had less than half the average fall, and all the south of England from Cornwall to Kent had less than a quarter of the

average. The want of rain was most marked during this month in Hampshire, Berkshire and Oxfordshire, where some very low readings were recorded. This was almost the driest month in the year for the British Isles as a whole, the general fall being just half the average; England and Wales only received 39 per cent. of the average fall; but Scotland had 71 per cent. and Ireland 54.

AUGUST.

The month was generally wet and the atmospheric conditions extremely unsettled. Practically no part of the British Isles had less than two inches of rain, and the area with more than five inches was very large. As severe thunderstorms were the most frequent causes of heavy rain, the distribution is naturally irregular. A band across the middle of the Highlands in Scotland, a broad belt of the north of England and a strip in the Eastern Counties escaped the severest thunderstorms and had rather less than the average rainfall. The extreme west of Ireland also had less than the average fall, but in the east a considerable area had more than double the average in consequence of the heavy storm of the 25th. England and Wales had 120 per cent. of the average fall, Scotland 108, Ireland as much as 144, and the British Isles taken as a whole 122.

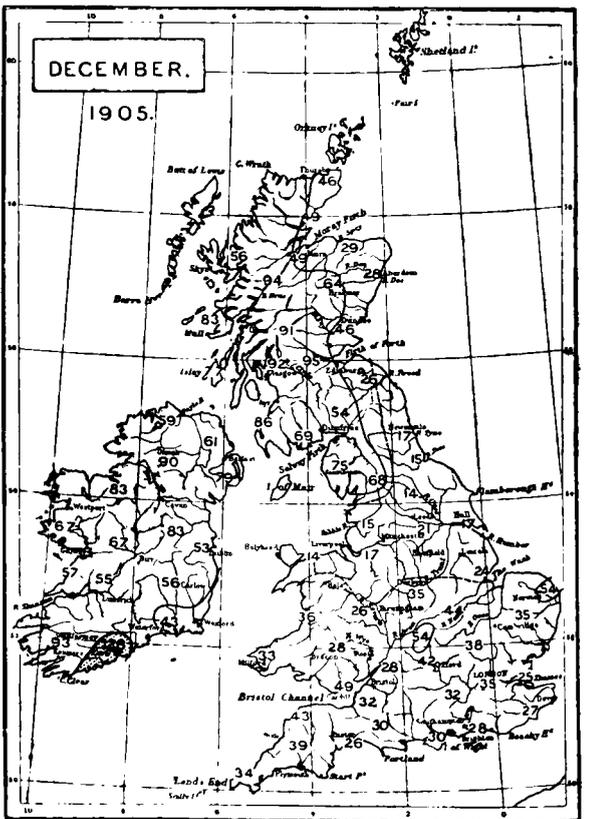
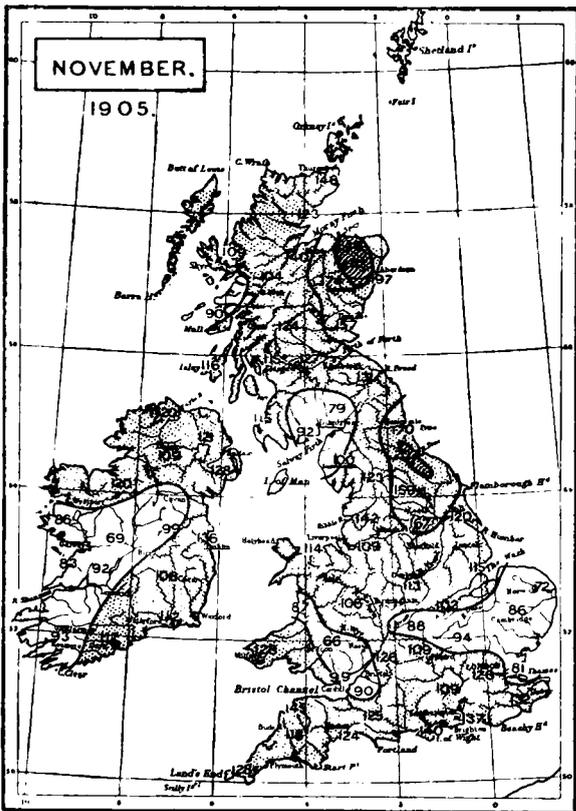
SEPTEMBER.

This was a dry month over the whole country except for a strip along the west coast of Scotland, where more than the average amount of rain fell. Less than half the average amount fell over the greater part of Wales and of western and central England. The general rainfall of the British Isles was 67 per cent. of the average; Ireland was the driest of the three kingdoms, with 60 per cent., and Scotland the wettest with 78.

OCTOBER.

On the whole it was again a dry month. The only exceptional district was the north of Scotland and especially the north-east corner, where widespread, long-continued rains did much damage, and the amount that fell was more than twice the average, making the general fall for Scotland 103 per cent. of the average. Heavy falls also occurred in the north-east of Norfolk, but otherwise the rainfall of England was below the average, the general fall being 61 per cent., and the central portions, including the valleys of the Severn and Trent, had once more less than half the average. All Ireland was dry, especially in the extreme south-east, where less than one quarter of the average amount fell, and with 48 per cent.

MAPS OF MONTHLY RAINFALL, 1905.



The figures express the relation of the Rainfall to the average of the month during 1870-99, which is taken as 100. Unshaded areas are below the average.

of the average, the general fall was the lowest in the year. The month was remarkably free from storms, and northerly winds predominated, producing weather which, although dry, was much colder than is usual at the season.

NOVEMBER.

The month was wet on the whole. The only part of the country which was very wet was the north-eastern corner of Scotland, where the same region which had twice the average in October was again almost equally wet. The general rainfall of Scotland was 133 per cent. of the average, the greatest except in March. The rainfall of October and November together was so remarkable in those districts as to be worthy of illustration by quoting the figures of several stations:—

Div.	STATION.	Oct. in.	Nov. in.	Total 2 months in.	Total year. in.	2 month's % of year.
XVII.	Strachan (Bridge of Dye)..	3·21	12·53	15·74	45·79	34
„	Keith Station	7·59	8·11	15·70	37·42	42
„	Durris House [Drumoak].	3·82	11·54	15·36	36·24	42
„	Dufftown	7·28	6·83	14·11	38·04	37
„	New Deer Schoolhouse ...	6·84	7·07	13·91	37·05	38
„	Crathes (Woodbank Cott.)	3·88	9·34	13·22	30·27	44
„	„ (Pinewood).....	3·76	9·41	13·17	30·92	43

A second but smaller region of very heavy rainfall lay in the north-east of England, especially in the neighbourhood of Hartlepool. Over by far the greater part of the country the rainfall differed little from the average, but the general fall for England and Wales was 118 per cent., for Ireland 106, and for the British Isles 119.

DECEMBER.

The year, which was characterized by frequent alternations of dry and wet months, ended with a remarkably dry one, in the course of which an absolute drought occurred, a circumstance which is by no means common. Only one of the selected stations showed a rainfall in excess of the average, and in the north of England and south-east of Scotland a wide section of country, stretching from Carnarvonshire and the borders of the Lake District on the west to the Firth of Forth and the Wash on the east, had less than one quarter of the average fall. As regards England, the extreme north-west was the only part of the country with so much as half the average. The general fall for the British Isles in fact came out as 49 per cent. of the average, but as 1 per cent. is too small an amount to take into account in dealing with monthly rainfall, we may accept July and December as equally dry. In England and Wales, however, with a general fall of only 33 per cent., or one-third of the average, December counts as the driest month of the year.

MONTHLY RAINFALL AT 233 STATIONS IN THE BRITISH ISLES DURING 1905.

ENGLAND AND WALES.

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
I.	London	St. Pancras (Camden Square)	1.34	.79	3.00	1.75	1.19	4.39	.96	2.24	2.09	1.40	3.08	.74	22.97
II.	Surrey	Guildford (Epsom Road)	1.24	.71	4.25	1.55	.57	5.44	.62	3.36	2.37	1.95	3.97	.69	26.72
"	Kent, West	Tenterden	1.15	.76	3.62	2.33	1.24	5.26	.59	2.47	2.47	1.88	4.24	.73	26.74
"	"	Sevenoaks (Riverhead)	1.20	1.05	3.93	2.08	1.01	5.16	1.52	2.18	2.54	.70	5.54	2.68	29.59
"	"	Hythe (Hillcrest Road)	1.15	.73	3.86	3.02	1.08	4.31	1.04	2.12	3.76	2.32	4.68	.78	28.85
"	"	Ospringe (Lorenden)	.90	.95	2.97	2.41	1.24	6.52	.66	1.96	2.20	1.82	4.00	.53	25.93
"	"	Arundel (Patching)	1.50	.74	4.41	2.22	.36	4.07	.36	2.69	2.20	1.82	5.08	.79	26.24
"	Sussex, West	Uckfield (Sheffield Park)	1.33	.72	3.96	2.72	.83	4.01	.64	3.09	2.32	1.72	5.12	.77	27.23
"	"	Totland Bay (Aston House)	.98	.71	5.20	1.72	.49	2.86	.25	3.03	1.76	2.76	4.24	.65	24.65
"	"	Hants, I. of W.	1.02	.63	4.92	1.49	.61	3.40	.39	3.37	2.50	1.86	4.90	1.07	26.16
"	"	Bps. Waltham (Swanmore Ho.)	.58	.64	5.50	1.53	1.12	4.30	.50	2.96	2.21	1.99	3.44	.83	25.60
"	"	Basingstoke (Sherborne S.J.)	.67	1.01	5.77	2.49	.66	4.74	.97	3.55	1.80	2.42	4.72	1.34	30.14
III.	Berks	Newbury (Welford Park)	1.41	1.10	3.04	1.95	1.25	3.25	2.41	2.60	1.53	1.34	3.04	.85	23.77
"	Herts	Hertford (Bayfordbury)	1.19	1.25	2.32	2.13	1.17	3.58	.89	2.90	2.16	1.35	2.26	.99	22.19
"	"	Royston (Therfield Rectory)	.85	.73	3.50	1.81	.94	3.93	.40	2.27	1.33	1.17	2.50	.87	20.30
"	"	Slough (Upton)	.70	.68	4.45	2.06	1.65	3.94	.56	2.57	1.59	1.45	3.43	1.20	24.28
"	"	Greenlands [Henley-on-Thames]	.67	.67	2.89	2.06	.86	3.63	.77	3.20	1.60	1.17	3.08	.92	21.52
"	"	Buckingham (Adstock)	.74	.43	2.69	1.90	.88	3.51	.14	2.91	1.16	1.28	2.57	.84	19.05
"	Oxford	Oxford (Magdalen College)	1.18	.79	2.48	1.73	1.03	5.28	.65	2.36	1.51	1.11	2.45	.86	21.43
"	Northampton	Wellingborough (Swanspool)	.69	.90	2.33	1.59	1.79	3.58	1.27	2.71	1.56	1.29	2.02	.80	20.58
"	Bedford	Shillington	.93	1.00	1.61	1.49	1.33	2.43	.77	2.14	2.17	1.07	1.40	.75	17.09
"	Cambridge	Stretham Engine	.98	1.09	2.02	1.52	1.02	3.59	.91	1.76	3.40	1.41	1.85	.68	20.23
IV.	"	Wisbech (Bank House)	1.29	.87	2.81	1.94	1.01	2.76	1.74	2.54	2.21	1.26	2.72	.83	21.98
"	Essex	Loughton (High Beech)	1.13	.78	3.37	1.98	.92	2.51	.67	1.77	1.28	1.25	2.71	.77	19.19
"	"	Chelmsford (High Street)	.97	.72	2.36	1.69	.71	2.83	.65	3.13	1.56	1.01	2.24	.71	18.58
"	"	Braintree (Bocking Place)	.75	.81	1.60	2.17	1.24	4.41	.25	2.02	1.51	1.83	2.63	1.01	20.23
"	Suffolk	Ipswich (Woolverstone Pk.)	1.28	1.19	2.14	1.85	1.35	2.74	.84	2.38	1.52	1.35	2.03	.81	19.48
"	"	Haverhill (Great Thurlow)	.83	.83	1.75	2.24	1.11	3.41	.74	2.23	2.49	2.02	2.03	1.16	20.93
"	"	Aldborough (Aldringham Ho.)	.92	1.12	1.44	1.81	1.25	3.50	.44	2.72	1.86	3.40	1.92	1.21	21.50
"	Norfolk	Geldeston [Beccles]	.83	1.04	2.65	1.91	1.42	2.81	.66	2.84	2.83	3.02	2.31	.92	23.44
"	"	Swaffham	.91	1.16	1.75	1.42	.84	3.98	1.42	2.46	2.70	3.85	2.22	.90	23.61
"	"	Holt													

ENGLAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
V.	Wilts	Alderbury	.61	.72	5.30	1.78	2.39	4.23	.30	3.06	1.31	1.74	3.56	.78	25.78
"	"	Trowbridge (W. W. Biss)	.40	.85	4.61	2.39	.33	5.24	.30	4.49	2.11	2.33	3.83	.91	27.79
"	"	Marlborough (Mildenhall)	.52	.75	4.34	2.54	.35	4.55	.65	3.24	1.52	2.04	3.70	1.18	25.38
"	Dorset	Beaminster Vicarage	.73	.70	5.70	2.51	.85	2.41	.61	4.61	2.06	2.66	6.30	.98	30.12
"	"	Wimborne (Horton Vic.)	.87	.63	5.48	1.90	.55	1.99	.26	3.56	1.52	2.33	4.56	.71	24.36
"	"	Buckhorn Weston	.66	.63	4.09	1.92	.34	3.19	.24	3.42	1.42	1.59	3.61	.73	21.84
"	Devon, South	Buckfastleigh (Bossell Pk.)	2.81	1.76	11.85	4.02	1.23	3.51	.51	5.09	2.68	3.08	7.85	3.64	48.03
"	"	Dartmoor (Lowery)	2.85	2.04	8.38	3.87	1.07	2.92	1.13	6.83	2.40	2.90	7.03	2.51	43.93
"	"	(Lullington)	1.31	1.23	4.80	2.60	.29	3.28	.48	5.07	1.59	2.69	3.54	1.17	28.05
"	"	Okehampton (Oaklands)	2.74	2.38	7.31	3.54	.43	2.61	.50	6.05	1.71	3.47	5.23	1.85	37.82
"	"	South Molton (Castle Hill Sch)	2.21	2.48	5.39	2.78	.15	2.46	2.42	5.87	2.14	3.90	5.16	2.03	36.99
"	Corwall	Penzance (Penlee)	2.28	1.53	6.14	2.57	1.19	2.48	1.46	5.12	1.59	2.99	5.71	2.04	35.10
"	"	St. Agnes	1.99	1.12	5.56	2.52	.53	2.12	1.22	4.58	1.06	2.14	5.65	1.43	29.92
"	"	Stratton (Ponghill)	1.94	1.55	4.87	2.89	.23	2.70	1.77	3.22	1.57	2.95	4.92	2.05	30.66
"	Somerset, South.	Crewkerne (Bincombe Ho.)	.82	.69	4.64	2.72	.42	3.45	.34	4.32	1.82	2.28	5.55	.95	28.00
"	"	Holford (Woodlands House)	1.06	1.19	4.20	2.65	.22	3.50	1.53	5.46	1.57	2.17	3.26	1.09	27.90
"	"	Street	.97	.87	3.39	2.94	.19	4.18	1.04	5.19	1.50	1.67	3.98	1.00	26.92
VI.	Gloucester, West.	Clifton (Pembroke Road)	.68	.86	4.74	3.16	.11	4.28	.91	4.11	1.33	2.03	3.02	1.13	26.36
"	"	Stroud (Uppfield)	.68	.80	4.36	2.70	.74	4.15	.83	4.43	.88	1.90	3.77	.70	25.94
"	"	Fairford (Hatherop Castle)	.81	.74	3.78	2.31	.40	3.51	1.81	4.66	1.23	1.00	3.69	1.23	25.92
"	"	Moreton-in-Marsh (Longboro')	1.07	.97	3.66	2.67	.42	4.54	.38	5.26	1.18	1.59	3.82	1.11	26.67
"	Hereford	Ross (The Graig)	1.23	.77	3.41	2.59	.36	3.69	.67	3.55	1.47	1.57	3.69	.56	23.56
"	"	Leominster (Farm)	.69	.65	3.53	2.27	.42	2.96	1.41	4.17	.97	1.73	2.90	.64	22.34
"	Shropshire	Ch. Stretton (Woolstaston)	.70	1.35	5.19	2.25	.67	3.18	1.36	4.25	1.15	1.93	3.37	.76	26.16
"	"	Much Wenlock (Willey Pk.)	.94	.88	3.91	2.08	.62	2.81	1.53	6.34	1.31	1.62	3.06	.67	25.77
"	"	Shrewsbury (Highfield)	.56	.75	3.15	1.48	.91	2.37	1.22	3.78	1.07	1.26	2.32	.65	19.52
"	"	Oswestry (The Mount Res.)	.83	1.31	4.88	1.82	1.67	1.99	2.19	4.62	1.94	2.23	3.61	1.18	28.27
"	Stafford	Penkridge (Rodbaston)	.96	.74	3.20	2.08	.54	2.24	1.85	4.79	1.17	1.52	2.57	.63	22.29
"	"	Burton (Shobnall)	1.00	.74	2.48	1.74	.33	1.85	1.17	4.04	1.19	1.58	2.54	.78	19.44
"	"	Market Drayton (Old Springs)	.75	.61	3.70	1.67	.78	4.11	1.72	6.03	1.37	1.70	3.03	.45	25.92
"	Worcester	Worcester (Belmont Road)	.86	.86	3.16	1.86	.38	3.53	1.30	4.94	.66	1.34	2.53	.73	22.15
"	"	Stourbridge (Pedmore)	1.08	.85	3.71	1.88	.46	2.63	1.87	5.37	1.20	1.49	3.16	.74	24.44
"	Warwick	Leamington (Cubbington)	.81	.53	2.46	1.67	.94	3.30	.78	4.56	1.82	1.22	2.26	.81	21.16
"	"	Bedworth Cemetery	.71	.75	2.77	1.71	.24	3.53	1.05	4.24	1.55	.97	2.57	.84	20.93
VII.	Leicester	Loughboro' (Nan Pantan Res)	.95	.74	2.85	1.59	.39	3.55	1.12	3.43	1.59	1.17	2.81	.78	20.97
"	"	Belvoir Castle	.75	.90	2.04	2.17	.63	3.29	1.74	3.11	2.95	1.55	2.60	.79	22.52

ENGLAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	Mar.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
VII.	Rutland	Market Overton	.94	.74	2.53	1.74	.48	4.21	3.13	2.95	2.93	1.05	2.92	.65	24.27
"	Lincoln, South	Sleaford (Rauceby Hall)	1.03	.77	1.77	2.14	.55	2.89	1.92	3.21	2.67	1.48	2.61	.67	21.71
"	"	Market Rasen	.63	.75	2.32	1.69	.92	1.28	1.32	3.32	1.79	2.44	3.12	.51	20.09
"	"	Burton-on-Stather Vic.	.56	.85	2.90	1.65	1.00	1.44	2.32	3.93	1.66	1.75	3.00	.57	21.63
"	Notts	Ollerton (Boughton W. W.)	.75	.88	2.32	1.62	.58	3.18	1.44	2.81	1.27	1.38	2.81	.63	19.67
"	Derby	Darley Hall	1.31	1.70	4.16	2.65	.75	3.00	1.38	4.60	1.69	1.58	4.91	.86	28.59
VIII.	"	Congleton (Buglawton Vic.)	1.51	1.75	3.14	2.15	.54	1.83	3.72	3.43	1.82	3.02	3.02	.37	26.30
"	Cheshire	Manchester (Withington)	1.97	1.52	3.20	2.38	.67	2.53	2.42	4.98	2.18	2.53	2.99	.45	27.82
"	Lancashire, South	Ormskirk (Ruford)	1.45	1.45	3.17	2.52	.30	2.52	2.36	2.80	2.20	3.42	4.56	.66	27.41
"	"	Burnley (Swinden, Lower)	2.09	2.33	3.58	3.48	.94	3.01	2.24	5.22	2.91	3.79	5.25	1.10	36.14
"	"	St. Michael's-on-Wyre Vic.	1.60	1.58	2.68	2.62	.70	2.29	1.95	4.44	3.07	3.14	4.40	.75	29.22
"	"	Cartmel (Pit Farm)	2.34	2.20	3.14	4.22	1.58	2.92	2.12	5.43	3.60	3.45	5.17	1.89	38.06
IX.	York, W. R. South	Rotherham (Moorgate)	.78	.92	2.35	2.11	.55	2.80	1.68	2.70	1.26	1.52	3.19	.40	20.36
"	"	Meltham (Harewood Lodge)	2.69	3.22	5.00	3.35	.60	3.06	2.80	4.79	2.89	3.66	5.76	1.22	39.04
"	"	South Milford Rectory	.69	1.13	2.33	2.33	.69	2.31	1.28	3.86	1.93	1.63	3.43	.89	22.00
"	"	Malham Tarn	3.92	4.08	5.29	6.04	1.47	3.19	2.20	5.36	5.56	4.49	6.42	3.01	51.03
"	"	Ripon (Mickleby)	1.04	1.45	2.81	2.67	.65	1.67	.80	3.14	2.23	1.75	4.89	.65	23.75
"	"	Pattingham	.40	.90	1.83	1.71	.86	1.04	1.12	2.68	1.42	2.54	2.72	.53	17.75
"	E. R.	Pocklington (Warter)	.68	1.02	2.24	2.41	.74	1.94	1.58	4.39	2.42	1.85	4.16	.29	23.72
"	"	Lowthorpe (The Elms)	.64	1.08	2.34	1.95	.89	.90	1.58	3.03	1.73	2.61	3.91	.31	20.97
"	"	Thirsk (Mount St. John)	.45	1.08	1.95	2.58	1.22	1.42	1.41	2.54	2.79	1.96	4.17	.31	21.88
"	N. R.	Whitby (Mulgrave Castle)	.42	1.28	1.44	2.39	1.01	1.14	.82	2.26	2.02	4.57	4.84	.53	22.72
"	"	Middlesbrough (Ormesby)	.36	.70	1.25	2.11	.78	.93	.80	3.33	2.94	2.67	4.95	.30	21.12
X.	Durham	Darlington (Hurworth Grange)	.51	.85	1.70	3.02	.91	1.22	.88	3.47	2.21	1.70	4.56	.41	21.44
"	"	Hartlepool (Hurworth Burn)	.33	.78	1.76	2.57	.85	.72	1.41	3.55	2.89	2.64	4.99	.66	23.15
"	"	Wolsingham	.77	1.39	2.71	3.98	.38	1.06	.52	3.80	2.70	2.28	6.17	.69	26.45
"	"	Corbridge (Howden Dene)	.56	1.27	1.77	3.51	.87	1.08	1.73	4.17	2.06	2.02	5.13	.81	24.98
"	Northumberland	Morpeth (Bothalhaugh)	.38	.80	1.68	2.87	1.22	.47	1.40	2.89	1.24	2.93	4.98	.44	21.30
"	"	Alwinton (Biddleston)	.64	1.67	2.01	3.51	1.02	.94	.87	4.17	2.91	3.82	5.54	.73	27.83
"	"	Howick Hall	.67	1.17	2.32	2.66	.87	.39	1.40	3.84	1.60	4.46	5.22	.74	25.31
"	"	Borrowdale (Seathwaite)	9.15	9.86	11.10	12.71	8.18	5.94	5.02	9.77	8.25	12.01	13.92	11.01	116.94
"	Cumberland	Brampton (Denton House)	.98	1.63	2.91	3.49	1.80	1.31	1.67	4.15	3.13	2.02	2.60	1.92	27.62
"	"	Kendal (Ivy Garth)	3.11	3.20	3.74	4.70	2.25	2.62	2.20	5.52	3.00	3.47	5.92	3.02	42.71
"	Westmorland	Appleby (Castle Bank)	1.46	2.43	3.02	3.08	.81	1.93	.92	3.92	2.75	2.51	3.92	1.07	27.85
"	"	Lowther Castle	1.68	2.18	3.31	2.80	.94	1.88	1.05	3.90	2.68	2.28	3.26	1.65	27.62

MONMOUTH, WALES AND THE ISLANDS.

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XI.	Monmouth.....	Chepstow (Piercefield Park)	.75	.72	5.31	3.01	.40	3.25	.61	3.65	1.54	2.30	4.25	.86	26.65
"	"	Abergavenny (Larchfield)	1.01	.80	5.09	4.23	.34	3.00	.65	4.58	2.35	2.00	5.03	.84	29.92
"	Glamorgan.....	Cardiff (Roath Park)	1.34	1.05	5.76	2.81	.15	3.75	.88	4.26	1.57	2.23	3.68	1.87	29.35
"	"	Neath (Fairy Land)	1.82	1.56	6.29	3.75	.43	3.03	1.85	5.99	1.96	2.67	4.51	1.77	35.63
"	Carmarthen.....	Llanelli (Old Market Yard)	2.17	1.53	5.88	3.34	1.01	1.95	3.41	6.37	2.07	1.48	4.23	1.92	35.36
"	"	Llanwrda (Dolaucothy)	3.19	2.57	8.03	5.13	2.57	2.31	2.23	7.68	3.46	3.95	5.74	1.94	48.80
"	Pembroke.....	St. David's	3.43	4.65	9.01	3.44	1.90	1.93	2.62	6.01	1.86	1.27	6.41	1.14	43.67
"	Cardigan.....	Aberystwyth (N. Parade)	1.93	1.66	4.52	2.39	1.28	2.47	2.48	5.39	2.39	2.40	3.24	1.22	31.37
"	Brecon.....	Cantref Rectory	1.98	1.99	8.04	5.81	.18	4.16	.59	5.91	2.84	3.29	4.69	1.21	40.69
"	"	Llysdinam [Newbridge]	1.89	2.37	6.52	4.19	.60	2.05	2.68	5.60	2.70	3.56	3.66	1.42	37.24
"	"	Rhayader (Nantgwilt)	3.59	4.06	9.31	6.98	.70	2.63	1.99	7.96	2.41	4.91	5.86	2.28	52.68
"	"	Newtown (Dolfor)	.92	1.42	5.03	2.68	.50	2.55	1.94	5.19	1.15	2.51	3.63	.56	28.08
"	"	St. Asaph (Nantlys)	.93	1.23	2.74	1.85	.52	1.50	1.91	4.90	1.30	2.76	3.60	.39	23.63
"	Denbigh.....	Gresford (Trewythen)	.70	1.34	3.19	2.13	.41	1.81	1.96	4.04	1.15	2.13	3.10	.55	22.51
"	"	Merioneth.....	2.62	1.49	5.51	3.28	1.37	2.42	2.65	5.94	2.11	3.42	4.28	1.42	36.51
"	"	Llanbedr (Minafon)	1.83	3.32	6.49	4.78	.93	3.21	2.21	6.52	2.28	3.80	5.20	1.39	41.96
"	"	Llanderfel (Palé)	7.53	5.44	11.42	8.43	2.84	4.39	6.36	9.41	5.44	8.30	9.73	5.04	84.33
"	"	Rhiwbryffur	1.89	1.37	4.17	2.45	1.12	1.69	2.51	4.88	1.49	3.96	4.88	1.20	31.61
"	Carnarvon.....	Criccieth (Talarvor)	2.38	(1.30)	4.20	3.51	1.23	2.38	1.84	3.98	2.05	4.38	5.83	1.61	(34.59)
"	Anglesea.....	Llanerchymedd	1.76	1.94	4.28	2.87	1.89	3.22	1.41	5.50	2.10	3.61	4.88	1.74	35.20
"	Isle of Man.....	Douglas (Woodville)	1.48	1.50	4.00	1.87	.37	3.63	.55	2.39	3.49	1.67	5.65	.86	27.46
"	Jersey.....	St. Helier (St. Louis Obs.)	1.35	1.58	5.45	1.94	.16	3.51	.44	2.05	3.10	2.68	6.86	1.30	30.42
"	Guernsey.....	St. Peter Port (Villa Carey)													

SCOTLAND.

XII.	Wigton.....	Garliestown (Galloway House)	2.00	2.79	3.47	2.26	1.38	2.37	1.13	4.92	2.01	3.33	4.48	2.07	32.21
"	"	Corsewall	2.05	2.79	3.13	2.07	1.59	1.77	1.34	4.12	2.08	2.99	4.53	2.32	30.78
"	"	Dalbeattie (Little Richorn)	1.37	2.21	4.16	3.70	3.12	2.35	1.39	4.43	1.78	3.15	4.74	3.37	35.77
"	"	Dalry (Glendarroch)	3.34	4.56	6.26	3.77	1.65	2.51	2.38	4.56	1.62	4.05	7.42	5.28	47.40
"	"	Langholm (Drove Road)	2.65	3.08	5.86	4.46	3.37	2.35	4.05	5.79	3.90	3.43	5.09	3.29	47.33
"	"	Moffat (Ericstane)	3.12	3.49	6.80	3.99	3.18	2.25	2.05	3.99	2.26	3.60	4.93	3.77	43.43
"	"	Hawick (Branxholme)	1.24	1.61	3.15	2.64	1.36	1.60	.78	3.58	2.23	1.97	3.44	1.48	25.08
"	"	Jedburgh (Anerum Bridge)	1.06	1.35	3.19	2.86	.95	1.42	1.59	3.30	2.40	2.47	3.21	.87	24.67
XIII.	"	Selkirk (The Hangingshaw)	1.16	1.31	2.68	2.53	1.09	1.94	1.67	3.78	2.04	2.76	3.59	.84	25.39
"	"	Eddlestone (Portmore)	1.26	1.58	4.37	2.37	1.47	1.02	1.84	3.77	2.87	2.75	3.98	1.62	28.90

SCOTLAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XIII.	Berwick	Marchmont House	.62	.96	2.62	3.73	.77	.32	2.28	3.99	3.05	3.63	4.64	.78	27.39
"	Haddington	Whittingehame Gardens	.57	.93	2.10	2.32	.92	.61	3.31	2.65	2.20	2.13	6.46	1.04	25.24
"	Midlothian	Edinburgh (Royal Obs.)	.76	1.34	3.27	1.48	.55	.91	1.45	2.46	1.24	2.20	3.36	1.27	19.43
XIV.	Linlithgow	Carribber Reservoir	1.36	1.70	3.27	1.76	.83	.44	2.60	3.29	2.23	2.15	4.13	2.72	26.48
"	Lanark	Cleghorn	1.43	2.38	4.29	2.55	1.76	.95	3.94	3.68	2.29	2.69	2.66	3.58	32.20
"	"	Hamilton (Water Works)	1.90	2.60	4.00	2.15	1.25	.65	2.70	2.95	2.50	2.10	3.00	3.40	29.20
"	"	Colmonell (Clachanton)	2.98	3.95	4.16	2.63	.89	1.76	1.79	5.00	2.90	4.89	6.68	3.81	41.44
"	"	Maybole (Culzean Gardens)	2.40	3.35	3.40	2.10	1.70	1.90	2.60	4.80	3.50	3.45	4.05	3.40	36.65
"	"	Kilmarnock (North Craig)	4.00	2.50	4.20	2.00	3.00	1.00	3.40	4.40	4.60	3.70	3.50	4.00	40.30
XV.	Dumbarnton	Helensburgh (Water Works)	3.01	2.97	3.95	2.90	2.19	.86	3.00	4.94	2.26	4.34	4.60	3.88	38.90
"	Stirling	Buchlyvie (The Manse)	3.09	4.27	5.01	3.34	2.57	1.17	3.15	6.51	3.51	3.59	5.64	5.72	47.57
"	Bute	Rothsay (Crichton Road)	4.62	4.67	5.42	3.45	2.27	1.49	3.50	5.79	4.00	4.49	5.63	3.85	49.18
"	Argyll	Kintyre (Devaar)	4.81	5.13	3.77	2.20	1.26	2.70	2.43	5.58	3.15	6.44	5.73	3.13	46.33
"	"	Lochgilphead (Poltalloch)	5.20	4.34	5.71	3.94	2.71	1.46	4.76	5.46	5.67	5.55	5.47	4.73	55.00
"	"	Inveraray (Newtown)	7.12	6.88	7.97	3.82	3.70	2.05	4.46	6.22	5.59	6.30	6.76	7.66	68.53
"	"	Morvern (Drimmin)	5.79	5.56	7.63	2.72	3.16	1.15	4.93	4.58	7.18	7.07	6.55	5.54	61.86
"	"	Ballachulish House	9.44	9.15	11.11	4.31	4.25	3.78	6.77	7.53	9.76	5.13	7.68	8.19	87.10
"	"	Strontian (Laudale)	8.63	9.67	10.04	4.26	3.34	2.12	6.52	6.14	8.96	7.19	7.71	6.88	81.46
"	"	Islay (Ardbeg)	4.26	4.61	3.67	2.57	2.72	1.47	3.55	5.82	3.87	5.64	4.45	3.31	45.94
XVI.	Clackmannan	Dollar (Academy)	1.55	2.18	4.43	2.56	2.57	.65	3.09	3.33	1.35	3.43	6.37	3.70	35.12
"	Kinross	Loch Leven Sluice	1.40	1.22	4.29	1.97	1.91	.38	2.09	4.03	1.79	1.99	6.03	3.18	30.28
"	Fife	Kilconquhar (Balcarres)	.53	1.23	1.93	2.20	1.72	.60	2.36	3.18	1.89	2.64	5.13	1.52	24.93
"	Perth	Balquhiddier (Stronvar)	5.43	4.78	8.48	3.83	3.12	2.83	3.35	7.34	4.50	4.80	10.38	7.66	66.50
"	"	Coupar Angus	.44	.74	3.07	1.31	1.83	.91	1.48	3.33	1.36	1.86	5.07	1.54	22.94
"	"	Blair Atholl	1.37	2.29	4.76	2.17	1.55	2.71	1.48	3.43	2.03	2.44	3.80	2.30	30.33
"	Foufar	Arbroath (Dishland Hill)	.37	.76	2.30	1.71	1.30	.56	1.57	3.03	1.14	2.35	3.80	.89	19.78
"	"	Kirriemuir (Balnakeilly)	1.30	1.20	4.50	2.10	2.30	1.30	1.50	3.80	1.30	1.50	6.60	1.80	29.20
XVII.	Kincardine	Fettercairn (The Burn)	.73	1.77	4.75	3.65	1.63	.85	1.62	3.97	1.61	2.90	7.29	1.48	32.25
"	Aberdeen	Alford (Lyntark Manse)	.92	1.65	3.44	2.86	1.69	.51	3.91	4.98	2.35	4.78	8.03	.75	35.87
"	"	New Deer School House	1.36	1.86	3.89	3.13	1.33	1.06	3.49	3.77	2.41	6.84	7.07	.84	37.05
"	Banff	Banff (Earl Hill)	1.57	1.89	3.36	2.92	1.29	1.38	2.48	2.57	2.14	2.84	6.14	.83	29.41
"	Moray	Grantown	1.82	2.42	3.81	2.90	1.63	.56	2.25	3.45	1.70	4.33	3.76	1.07	29.70
"	"	Gordon Castle	1.47	1.96	3.66	2.36	2.16	.53	1.96	3.09	2.26	5.80	5.61	.61	31.47
"	Nairn	Cawdor (Budgate)	2.05	2.45	4.32	2.09	2.08	1.31	1.92	3.05	1.82	4.18	3.71	1.24	30.20

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)...	2.67	1.39	5.14	2.99	1.48	2.10	1.37	6.28	1.77	1.13	2.86	2.15	31.33
"	Kildare	Straffan House.....	1.32	.85	3.11	2.02	1.07	1.56	1.14	6.54	1.68	1.20	3.94	1.35	25.78
"	Dublin	Glassevin(BotanicGardens)	1.71	.73	2.79	2.40	.95	.97	.80	6.78	.89	1.15	3.73	1.14	24.04
"	Meath	Athboy	1.37	1.51	4.48	2.26	.84	1.70	1.10	7.62	1.80	1.22	3.54	2.54	29.98
"	"	Moynalty (Westland)	1.81	1.76	4.68	2.23	1.11	2.41	1.39	7.66	1.56	1.50	3.49	2.74	32.34
"	Westmeath	Athlone (Twyford)	2.05	1.53	4.42	1.38	1.53	1.45	1.12	5.48	1.97	1.39	2.87	1.91	27.10
"	"	Mullingar (Belvedere)	2.40	1.71	5.22	2.08	1.19	1.79	1.69	6.74	1.26	1.63	3.41	2.86	31.98
"	Louth	Ardee (Lisrenny).....	2.19	1.34	4.19	2.21	.62	1.75	1.43	7.95	1.60	1.04	2.87	2.25	29.44
"	"	Greenore	2.04	1.49	3.21	2.19	1.43	2.86	.63	7.04	1.04	1.08	2.96	2.00	27.97
XXII.	Galway	Ballinasloe	2.26	1.63	4.26	1.33	1.19	2.49	1.04	5.72	2.11	1.50	2.50	2.44	28.47
"	"	Clifden (Kylemore House)	6.08	5.08	8.58	4.91	2.59	3.07	2.77	7.15	5.28	4.53	7.12	6.04	63.20
"	"	Tuam (Gardenfield)	3.41	2.82	5.58	1.66	2.00	1.98	1.42	4.67	2.38	1.85	4.48	3.20	35.45
"	Mayo	Ballinrobe (Cranmore).....	4.59	3.20	6.83	1.50	2.00	2.23	1.48	4.44	2.20	1.94	3.92	3.86	38.19
"	"	Doo Castle [Tobercurry]...	3.11	2.94	5.32	2.09	1.15	2.08	1.52	5.27	2.07	2.42	4.12	3.19	35.28
"	"	Blacksod Point.....	4.90	3.81	5.87	2.39	1.19	1.86	2.63	3.57	3.43	3.31	7.44	5.40	45.80
"	"	Crossmolina (Enniscoe)	4.70	3.63	6.52	2.44	1.56	2.15	2.10	4.41	2.92	3.00	8.52	5.53	47.48
"	Sligo	Ballysadare B.(Glen Lodge)	3.66	2.88	5.16	2.31	1.26	1.93	1.88	5.21	2.47	3.19	4.89	2.91	37.75
XXIII.	Cavan	Stradone House	3.33	2.25	4.83	1.91	1.46	1.67	1.08	6.67	1.91	1.86	4.26	2.37	33.60
"	"	Ballyconnell House	3.13	3.05	5.53	2.05	2.21	1.39	2.52	6.11	1.22	2.29	3.52	2.75	35.77
"	Monaghan.....	Monaghan(RowantreeHo.)	1.83	1.82	2.82	1.64	1.87	2.65	2.00	5.36	3.59	1.86	2.79	1.81	30.04
"	Armagh.....	Armagh Observatory	2.33	1.77	3.45	2.05	1.60	3.02	1.77	6.40	1.81	1.45	2.48	1.69	29.82
"	Down.....	Seaforde	1.85	1.70	4.07	2.46	.98	3.08	1.17	7.82	1.05	1.59	5.04	2.89	33.70
"	"	Donaghadee	1.06	1.60	2.70	2.39	1.06	1.93	1.26	5.28	1.10	2.06	4.42	1.62	26.48
"	"	Belfast (Springfield).....	2.61	2.61	3.92	2.93	2.45	3.82	1.93	6.64	1.99	1.65	3.75	2.78	37.08
"	Antrim	Ballymena (Harryville) ...	3.03	3.22	4.56	2.46	1.99	2.65	2.39	5.78	2.09	2.58	4.68	2.41	37.84
"	"	Bushmills (Dundarave) ...	2.74	2.92	2.99	2.15	1.79	1.47	2.51	4.90	2.76	3.44	4.37	2.77	34.81
"	Londonderry.....	Garvagh (Moneydig)	2.43	3.20	4.41	2.30	1.50	1.68	1.70	5.13	1.80	2.89	3.86	2.65	33.55
"	"	Stewartstown (The Square)	2.39	2.02	4.10	2.01	1.96	2.85	2.92	7.44	2.03	1.59	3.50	2.47	34.58
"	Tyrone	Omagh (Edenfel)	3.30	1.98	5.22	2.53	2.09	2.05	2.27	4.86	2.44	2.10	3.86	3.39	36.09
"	"	Lough Esak Castle	6.25	5.19	6.12	3.73	1.53	2.25	2.85	6.35	4.67	3.67	5.87	5.58	54.06
"	Donegal.....	Raphoe (Convoy House)	4.16	4.36	5.26	2.79	1.41	3.77	2.04	5.27	3.00	2.70	5.96	4.13	44.85
"	"	Buncrana (Rockfort)	3.05	3.30	4.07	3.56	1.69	2.80	2.36	4.16	2.17	2.90	4.92	2.45	37.43
"	"	Horn Head	3.72	3.59	3.80	2.06	1.08	2.12	2.52	4.88	3.53	3.74	4.51	3.90	39.45

ON THE RELATION OF THE TOTAL FALL OF RAIN IN 1905 TO THE AVERAGE.

IN accordance with a sequence which has held good since 1891, the general rainfall of the British Isles as a whole has recently been comparatively heavy one year and much lighter for the two following years. Thus, when 1903 proved an exceedingly wet year, we anticipated that 1904 and 1905 would be dry, and this expectation has been justified. As the sequence of one wet and two dry years does not seem to have held good before 1891, it is only reasonable to expect that it will cease to hold good some time in the future, and that a grievous disappointment must be in store for anyone who is rash enough to make definite forecasts based upon the recurrences of the past fifteen years.

The distribution of rainfall in 1905 was very similar to that in 1904, inasmuch as there was slightly more than the average in the north-west of Scotland, and decidedly less than the average in the centre and east of England; but there were many slight differences in the distribution, and a great difference in the general result. In 1905 the excess of rainfall in the west was much less than in 1904, while the deficiency of rainfall in the south and east was much greater; and, as a general result, the deficiencies in 1905 were: for England and Wales 16 per cent., for Scotland 5 per cent., for Ireland 12 per cent., and for the British Isles as a whole 12 per cent. The corresponding figures for 1904 were: 12, 4, —1 and 7.

We give the usual Table of rainfall at 173 stations for each of which an average for the 30 years, 1870–1899, exists, or has been computed, and it is satisfactory to find that only five changes were necessary in the list of stations selected in the previous year. We must refer to *British Rainfall*, 1904, for particulars of the method

employed in selecting stations and discussing records for this Table ; but we have again to express our regret that so many of the old records of rainfall in Scotland have been allowed to lapse, and that the Central Highlands, once well equipped with rain gauges of many years' standing, are now practically unrepresented.

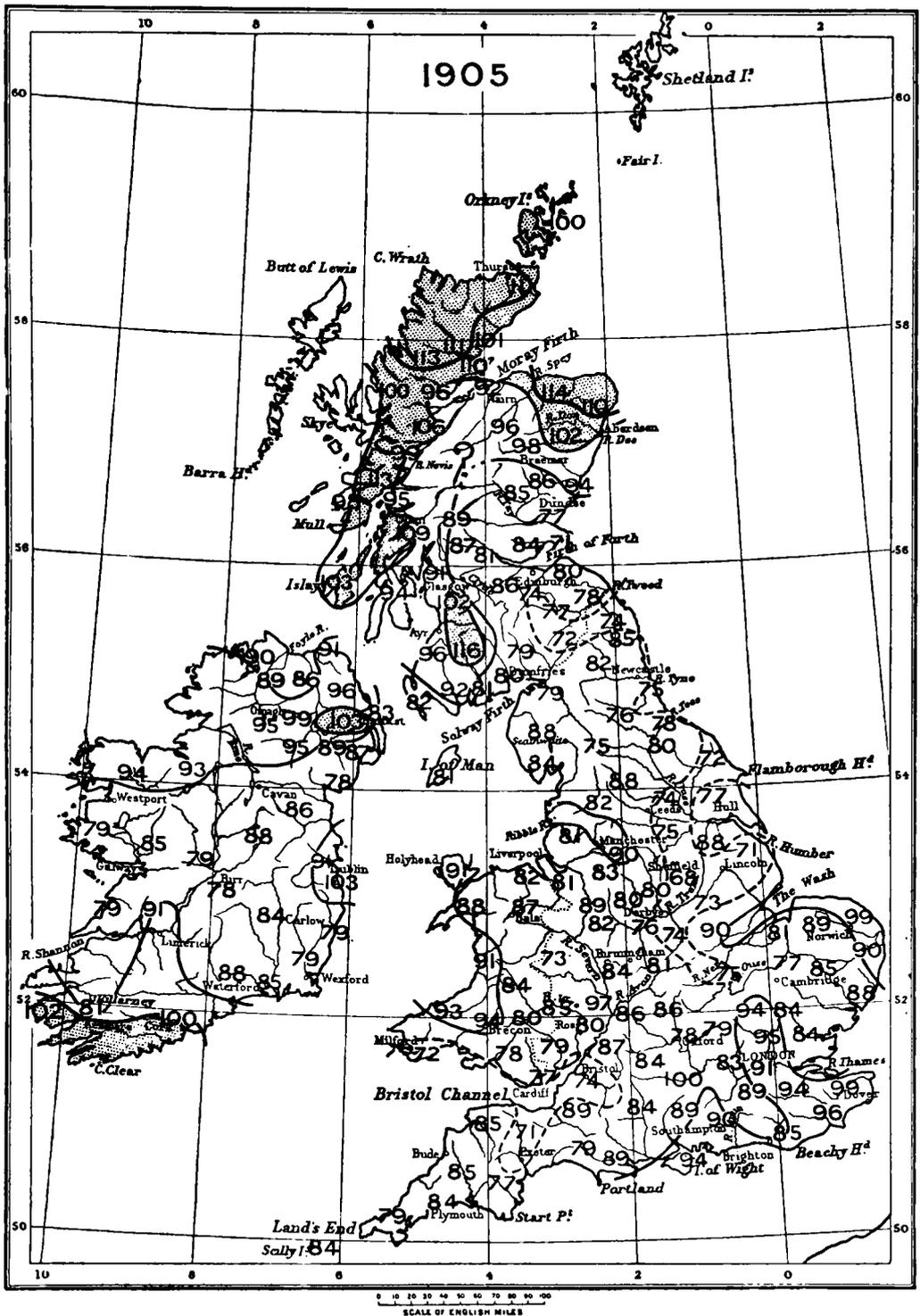
The map of the relation of rainfall in 1905 to the average gives the actual figures for each of the selected stations. The average is represented by 100: one-half of the average would thus be represented by 50, one and a half times the average by 150 ; so that the figure given for each station is the percentage of the average rainfall which fell. The parts of the country where the average was exceeded are shaded ; a continuous line is drawn outside the shaded area to show the places at which the fall was 10 per cent. above or below the average, and a dotted line encloses the small areas within which the deficiency was more than 25 per cent. A similar line would have been drawn for areas where the excess was greater than 25 per cent., but in 1905 there were no such places. Taking the three kingdoms in the same order as the rain does coming from the Atlantic, we consider Ireland first.

Had it not been for the severe rain-storm of August 24–25, all Ireland would have had a rainfall substantially below the average ; and as it was the average was only very slightly exceeded in the extreme south-west, the extreme north-east, and at one station south of Dublin. The great mass of the middle of the island from west to east showed a deficiency of between 10 and 20 per cent., and for the country as a whole the deficiency was 12 per cent. It was indeed the driest year in Ireland since 1893, the total rainfall for the year being equal to that which normally falls in 10½ months.

In Scotland there was a slight excess of rainfall along the west coast, the extreme north, and the east coast as far south as Aberdeen, mainly due to the extraordinary wetness of October and November. Where the autumnal rain was heaviest the annual amount showed an excess of more than 10 per cent. In the south-east of Scotland there was a deficiency of more than 10 per cent., and in the extreme east of Fife, where the want of rainfall was most felt, it was more than 25 per cent. For Scotland as a whole there was the small deficiency of 5 per cent.

Of the 94 stations uniformly scattered over the surface of England and Wales, only one experienced a rainfall touching the average ; and, as will be seen from the map, the surrounding stations showed

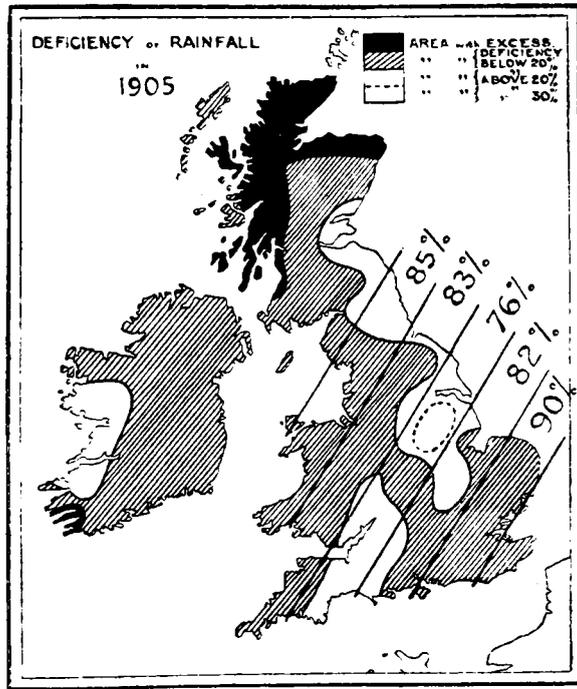
RELATION OF THE TOTAL FALL OF RAIN IN 1905 TO THE AVERAGE.



The figures represent the rainfall of 1905 expressed as a percentage of the average of 1870-99.

The districts in which the rainfall exceeded the average are shaded, and lines are drawn indicating departures exceeding 10 and 25 per cent.

that this was a mere local accident. The deficiency was less than 10 per cent. in Kent, Surrey and Middlesex and in the south of Sussex and Hampshire; also in narrow strips along the north of Norfolk, on the extreme west of Wales and in part of Lancashire. From these places the deficiency of rainfall increased towards the middle of the country, and culminated in two broad strips where it exceeded 25 per cent. The first of these included the North Riding and the eastern half of the West Riding of Yorkshire, the lower valley of the Trent and a large part of Lincolnshire. The second extended from Exeter and Bath around the Bristol Channel. These were the driest parts of the country, having a rainfall equal to the normal



fall of nine months only. The two very dry areas were in line with one another, and the little sketch map here reproduced shows that if we were to rule up England into five belts from south-east to north-west, each belt being 50 miles wide, the general rainfall of the central belt which includes the two dry patches was only 76 per cent. of the average, while the belts to north and to south became progressively wetter. For the whole of England and Wales the general rainfall was 16 per cent. below the average, in other words, the rain received during the whole year was equal to what falls normally in ten months. Except for 1902 and 1893 there has

not been so dry a year in England since the memorable drought of 1887.

It detracts from the interest of rainfall distribution to lump together a group of regions showing such marked physical contrasts as the British Isles; still, as a rough and ready means of comparison, we may note that the country as a whole showed a deficiency of 12 per cent. of rainfall in 1905.

ABSTRACT.

COUNTRIES.	No. of Records utilized.	Average. 10 years 1890-99.	Average. 30 years 1870-99.	1905.	Diff. from Average 1870-99.	
					Amount.	Per cent.
		in.	in.	in.	in.	
England and Wales...	94	32·44	34·42	28·80	5·62	— 16
Scotland.....	46	45·36	45·39	43·04	2·35	— 5
Ireland	33	39·92	40·52	35·80	4·72	— 12
Mean of all Stations ..	173	37·30	38·50	33·92	4·58	— 12

The above abstract gives a succinct summary of the situation as regards rainfall in 1905. In order to compare the rainfall of past years, it will be necessary to determine the general rainfall of each division of the country for every year, and the only way of doing this is by the construction of the detailed maps of annual rainfall which are now in progress. Meanwhile we continue the admittedly inadequate Table first given in 1903. For England and Wales the column may be trusted as fairly accurate throughout; but for Scotland and Ireland the figures are satisfactory only from about 1899 onwards. The column for the British Isles, of course, shares the uncertainty, but the column of "corrected values" now added for the first time may, we think, be accepted as the best available comparison of the fluctuations of annual rainfall over the whole country for 25 years.

Rough Comparison of the Rainfall for 25 Years.

Year.	ENGLAND & WALES.			SCOTLAND.			IRELAND.			BRITISH ISLES.			Corrected Values.
	Fall.	Diff. from Av.		Fall.	Diff. from Av.		Fall.	Diff. from Av.		Fall.	Diff. from Av.		
		Amt.	p.c.		Amt.	p.c.		Amt.	p.c.		Amt.	p.c.	
Mean	in. 33·92	in. —	—	in. 46·85	in. —	—	in. 42·28	in. —	—	in. 39·25	in. —	—	
1881	35·81	1·89	+ 6	38·09	8·76	-19	36·11	6·17	-15	36·26	2·99	- 8	+ 2
1882	41·91	7·99	+24	44·75	2·10	- 4	40·83	1·45	- 3	42·42	3·17	+ 8	+18
1883	36·82	2·90	+ 8	39·81	7·04	-15	39·91	2·37	- 6	37·51	1·74	- 4	+ 6
1884	29·24	4·68	-14	40·25	6·60	-14	35·50	6·78	-16	31·56	7·69	-20	-10
1885	33·25	·67	- 2	33·78	13·07	-28	35·52	6·76	-16	33·41	5·84	-15	- 5
1886	37·53	3·61	+11	37·31	9·54	-20	41·61	·67	- 2	37·59	1·66	- 4	+ 6
1887	23·60	10·32	-30	29·14	17·71	-38	24·72	17·56	-42	24·80	14·45	-37	-27
1888	31·66	2·26	- 7	37·10	9·75	-21	39·61	2·67	- 6	32·98	6·27	-16	- 6
1889	31·10	2·82	- 8	32·81	14·04	-30	33·49	8·79	-21	31·52	7·73	-20	-10
1890	30·07	3·85	-11	46·56	·29	- 1	38·54	3·74	- 9	36·20	3·05	- 8	- 3
1891	37·36	3·44	+10	43·59	3·26	- 7	39·35	2·93	- 7	39·41	·16	+ 0	+ 5
1892	30·35	3·57	-11	42·55	4·30	- 9	39·13	3·15	- 7	35·42	3·83	-10	- 5
1893	28·21	5·71	-17	41·67	5·18	-11	32·50	9·78	-23	32·63	6·62	-17	-12
1894	36·14	2·22	+ 6	44·20	2·65	- 6	40·82	1·46	- 3	39·18	·07	- 0	+ 5
1895	31·32	2·60	- 8	39·32	7·53	-16	37·63	4·65	-11	34·66	4·59	-12	- 7
1896	30·94	2·98	- 9	42·11	4·74	-10	37·35	4·93	-12	35·06	4·19	-11	- 6
1897	34·14	·22	+ 1	43·70	3·15	- 7	43·53	1·25	+ 3	38·38	·87	- 2	+ 3
1898	29·42	4·50	-13	49·82	2·97	+ 6	38·40	3·88	- 9	36·46	2·79	- 7	- 2
1899	31·52	2·40	- 7	47·82	·97	+ 2	40·04	2·24	- 5	37·28	1·97	- 5	- 5
1900	36·37	2·45	+ 7	53·38	6·53	+14	45·48	3·20	+ 8	42·34	3·09	+ 8	+ 8
1901	29·83	4·09	-12	41·04	5·81	-12	40·33	1·95	- 5	34·85	4·40	-11	-11
1902	28·01	5·91	-17	38·73	8·12	-17	37·56	4·72	-11	32·71	6·54	-17	-17
1903	43·81	9·89	+29	59·05	12·20	+26	51·11	8·83	+21	49·26	10·01	+26	+26
1904	30·25	3·67	-11	43·70	3·15	- 7	40·67	1·61	- 4	35·81	3·44	- 9	- 9
1905	28·80	5·12	-15	43·04	3·81	- 8	35·80	6·48	-15	33·92	5·33	-14	-14

**COMPARISON OF THE RAINFALL OF THE YEAR 1905
WITH THE AVERAGE OF THE PERIODS
1890-99 & 1870-99.**

ENGLAND & WALES.

DIV.	COUNTY.	STATION.	Average,	Average,	Depth	Difference
			1890-9.	1870-99.	in 1905.	from average, 1870-99.
			in.	in.	in.	in.
						Per
						Amount. cent.
I.	London	St. Pancras (Camden Square)..	22·78	25·16	22·97	2·19 — 9
II.	Surrey, West...	Abinger Hall	30·03	(31·70)	28·20	3·50 — 11
„	Kent, West ...	Tenterden	26·76	28·36	27·21	1·15 — 4
„	„ „	Sevenoaks (River Hill)	26·23	27·49	25·97	1·52 — 6
„	„ „ East ...	Selling (Harefield)	28·83	29·55	29·24	·31 — 1
„	Sussex, West...	Chichester (Chilgrove)	33·60	33·82	30·51	3·31 — 10
„	„ „ East ...	Falmer	32·47	33·58	28·67	4·91 — 15
„	Hampshire.....	Isle of Wight (Osborne)	27·87	28·12	26·38	1·74 — 6
„	„	Alresford (Ovington)	30·41	(32·00)	28·46	3·54 — 11
„	Berkshire	Newbury (Welford Park).....	28·75	30·29	30·14	·15 — 0
III.	Hertfordshire..	Hertford (Bayfordbury)	22·84	24·97	23·77	1·20 — 5
„	„	Hitchin (Wratten).....	23·25	24·66	23·26	1·40 — 6
„	Buckingham ...	Slough (Langley)	23·25	24·00	20·01	3·99 — 17
„	„	Winslow (Addington Manor) ..	23·84	26·75	21·19	5·56 — 21
„	Oxfordshire ...	Oxford (Magdalen College) ...	21·40	24·54	19·05	5·49 — 22
„	„	Bloxham Grove	23·40	(27·20)	23·31	3·89 — 14
„	Northampton...	Wellingboro' (Croyland Abbey)	21·55	25·31	18·96	6·35 — 25
„	Cambridgeshire	Stretham Engine	20·96	22·16	17·09	5·07 — 23
„	„	Wisbech (Bank House).....	22·28	24·89	20·23	4·66 — 19
IV.	Essex	Chelmsford (High Street).....	21·22	22·96	19·19	3·77 — 16
„	„	Newport (The Vicarage)	24·27	(24·80)	20·94	3·86 — 16
„	Suffolk	Rendlesham Hall	22·60	(23·70)	20·94	2·76 — 12
„	„	Ixworth (Walsham-le-Willows)	25·17	25·87	21·95	3·92 — 15
„	Norfolk	Geldeston [Beccles]	22·97	23·93	21·50	2·43 — 10
„	„	Swaffham (Dunham)	25·92	28·41	25·36	3·05 — 11
„	„	North Walsham (Dilham).....	24·85	(27·10)	26·84	·26 — 1
V.	Wiltshire	Salisbury Plain (Chitterne Ho.)	26·88	28·56	24·10	4·46 — 16
„	„	New Swindon	26·26	(28·20)	23·67	4·53 — 16
„	Dorsetshire ...	Wareham (Castle Gardens) ...	30·32	(31·90)	28·31	3·59 — 11
„	„	Beaminster Vicarage	34·87	(38·20)	30·12	8·08 — 21
„	Devonshire, S...	Ashburton (Druid House).....	49·99	52·92	40·81	12·11 — 23
„	„ „	Polapit Tamar	36·79	38·85	32·85	6·00 — 15
„	„ „	Bampton (Huntsham)	45·28	(46·80)	33·31	13·49 — 29
„	„ „ N..	Barnstaple (Arlington Court)..	51·68	53·30	45·30	8·00 — 15
„	Cornwall	Phillack Rectory	35·27	36·68	28·87	7·81 — 21
„	„	St. Austell (Trevarna)	42·75	47·16	39·64	7·52 — 16
„	Somerset, N...	Street	26·90	30·40	26·92	3·48 — 11
VI.	Gloucester, W..	Clifton (Pembroke Road)	32·59	35·45	26·36	9·09 — 26
„	„	Stroud (Upfield).....	26·83	29·85	25·94	3·91 — 13
„	Herefordshire...	Ross (The Graig)	25·61	29·51	23·56	5·95 — 20

ENGLAND & WALES—(continued).

DIV.	COUNTY.	STATION.	Average,	Average,	Depth in 1905.	Difference from average, 1870-99.	
			1890-9.	1870-99.		Amount.	Per cent.
			in.	in.	in.	in.	
VI.	Herefordshire...	Kington (Lynhales)	29·50	33·56	28·60	4·96	— 15
„	Shropshire	Bishops Castle (Castle Street)..	28·46	(32·90)	24·00	8·90	— 27
„	„	Shifnal (Haughton Hall)	25·41	28·21	23·08	5·13	— 18
„	„	Market Drayton (Buntingsdale)	26·53	(28·70)	25·48	3·22	— 11
„	Staffordshire ...	Burton (Rangemore)	24·96	28·01	21·43	6·58	— 24
„	„	Cheadle (The Heath House) ...	30·05	(33·50)	26·66	6·84	— 20
„	Worcestershire.	Northwick Park	25·24	29·22	25·11	4·11	— 14
„	„	Grt. Malvern (Church Street).	24·79	(29·00)	28·03	·97	— 3
„	„	Stourbridge (Pedmore)	25·59	(29·20)	24·44	4·76	— 16
„	Warwickshire..	Coventry (Kingswood)	26·98	29·21	23·60	5·61	— 19
VII.	Leicestershire ..	Thornton Reservoir	24·17	26·48	19·68	6·80	— 26
„	Rutland	Market Overton	24·05	(26·90)	24·27	2·63	— 10
„	Lincoln, South.	Stubton [Newark]	21·47	24·87	18·11	6·76	— 27
„	„ North.	Louth (Westgate)	27·59	29·18	20·80	8·38	— 29
„	„ „	Brigg	24·40	(26·31)	23·27	3·04	— 12
„	Nottingham ...	Worksop (Hodsock Priory) ...	22·67	(24·70)	16·91	7·79	— 32
„	Derbyshire.....	Matlock Bath	28·93	25·07	28·11	6·96	— 20
VIII.	Cheshire.....	Chester (Christleton Hall) ...	26·85	(28·65)	23·26	5·39	— 19
„	„	Chelford (Aistle Hall).....	28·49	(30·60)	25·25	5·35	— 17
„	„	Torrside Reservoir.....	43·93	44·98	40·63	4·35	— 10
„	Lancashire, S...	Ormskirk (Rufford)	32·63	33·71	27·41	6·30	— 19
„	„ „	Stonyhurst College	48·16	47·57	38·84	8·73	— 18
„	„ N...	Kirkham (Weeton)	36·86	(38·60)	31·53	7·07	— 18
„	„ „	Ulverston (Poaka Beck)	52·16	51·80	43·50	8·30	— 16
IX.	York, WR Central	Wakefield Prison	24·86	(26·80)	20·05	6·75	— 25
„	„ „ „	Malham Tarn	58·44	58·17	51·03	7·14	— 12
„	„ „ North	Knarborough (Farnham) ...	25·07	26·70	19·83	6·87	— 26
„	„ E. Riding.	Pocklington (Warter)	29·03	30·75	23·72	7·03	— 23
„	„ N. Riding.	Scarborough (Osgodby).....	25·11	(27·70)	19·87	7·83	— 28
„	„ „	Northallerton (Osmotherley)..	23·86	27·35	21·89	5·46	— 20
„	„ „	Middlesbrough (Albert Park).	24·72	(24·30)	18·95	5·35	— 22
X.	Durham.....	Wolsingham	33·26	34·75	26·45	8·30	— 24
„	„	Sunderland (W. Hendon House)	25·11	26·19	19·71	6·48	— 25
„	Northumberland	Hallington (Fawcett)	28·73	29·12	23·95	5·17	— 18
„	„	Rothbury (Cragside)	33·27	34·41	29·38	5·03	— 15
„	„	Ilderton (Lilburn Tower)	(26·17)	(29·19)	21·67	7·52	— 26
„	Cumberland ...	Borrowdale (Seathwaite)	135·75	132·74	116·83	15·91	— 12
„	„	Carlisle (Cemetery)	33·04	31·64	24·98	6·66	— 21
„	Westmorland...	Kirkby Stephen (Redmaine Ho.)	46·05	42·12	31·66	10·46	— 25
XI.	Monmouth.....	Abergavenny (Larchfield).....	34·91	37·82	29·92	7·90	— 21
„	Glamorgan.....	Cardiff (Ely)	39·51	42·81	32·84	9·97	— 23
„	„	Neath	47·28	(50·50)	39·18	11·32	— 22
„	Carmarthen ...	Llandilo (Dynevour Castle) ...	50·57	(52·80)	49·46	3·34	— 6
„	Pembroke	Pembroke (Stackpole Court) ..	37·70	(41·20)	29·85	11·35	— 28
„	„	Castle Malgwyn [Llechryd] ..	40·85	43·85	40·78	3·07	— 7
„	Cardigan	Aberystwyth (Gogerddan) ...	44·67	45·41	41·21	4·20	— 9
„	Brecon	Cantreff Rectory.....	46·39	(51·10)	40·69	10·41	— 20

ENGLAND & WALES—(continued).

DIV.	COUNTY.	STATION.	Average, 1890-9.	Average, 1870-99.	Depth in 1905.	Difference from average, 1870-99. Per Amount. cent.
			in.	in.	in.	in.
XI.	Radnor	Rhayader (Nantgwillt)	56·82	61·45	51·58	9·87 — 16
„	Flint	St. Asaph (Nantlys)	26·30	28·71	23·63	5·08 — 18
„	Merioneth	Llanderfel (Palé)	45·65	(48·20)	41·96	6·24 — 13
„	Carnarvon	Criccieth (Talarvor)	35·56	35·83	31·61	4·22 — 12
„	Anglesea	Llanerchymedd (Llwydiarth Esgob) ...	38·60	38·21	34·59	3·62 — 9
„	Isle of Man ...	Douglas (Woodville)	41·83	(43·30)	35·20	8·10 — 19
„	Scilly	St. Mary's	31·23	(32·80)	27·48	5·32 — 16

SCOTLAND.

XII.	Wigton	Stoneykirk (Ardwell House)...	34·77	(35·05)	28·80	6·25 — 18
„	Kirkcudbright..	Auchencairn (Torr House) ...	46·02	(46·45)	37·60	8·85 — 19
„	„	Gatehouse (Cally)	47·90	48·74	44·63	4·11 — 8
„	„	Cargen [Dumfries]	43·90	43·43	34·69	8·74 — 20
„	Dumfries	Moffat (Ericstane)	52·60	54·97	43·43	11·54 — 21
„	Roxburgh	Hawick (Braxholme)	33·89	(34·80)	25·08	9·72 — 28
XIII.	Selkirk	Galashiels (Abbotsford Road)..	31·26	33·82	25·99	7·83 — 23
„	Berwick	Marchmont House	31·93	34·94	27·39	7·55 — 22
„	Haddington	Prestonkirk (Smeaton)	24·33	25·72	20·45	5·27 — 20
„	Midlothian	Pentland Hills (Glencorse) ...	38·93	39·55	29·41	10·14 — 26
XIV.	Lanark	Airdrie (Hillend Res.)	38·68	37·30	32·13	5·17 — 14
„	Ayr	Girvan (Pinmore)	46·98	48·87	46·89	1·98 — 4
„	„	Loch Finlas	50·86	(51·70)	60·12	8·42 + 16
„	„	Kilmarnock (North Craig) ...	42·45	39·46	40·30	·84 + 2
„	Renfrew	Gorbals W. W. (Waulk Glen)..	49·00	46·91	42·70	4·21 — 9
XV.	Stirling	Stirling (Polmaise Gardens)...	34·59	35·80	28·93	6·87 — 19
„	Argyll	Kintyre (Skipness Castle).....	50·14	49·18	46·11	3·07 — 6
„	„	Inveraray (Newtown)	72·27	(62·80)	68·53	5·73 + 9
„	„	Appin (Airds)	55·56	55·90	53·13	2·77 — 5
„	„	Strontian (Laudale)	68·69	(72·20)	81·46	9·26 + 13
„	„	Islay (Ardbeg)	43·00	(44·60)	45·94	1·34 + 3
„	„	Mull (Quinish)	56·30	(57·50)	56·32	1·18 — 2
XVI.	Kinross	Loch Leven Sluice.....	35·83	36·20	30·28	5·92 — 16
„	Fife	Kilconquhar (Balcarres)	32·93	(34·90)	24·93	9·97 — 29
„	Perth	Bridge of Turk	60·56	66·66	57·80	8·86 — 13
„	„	Balquhider (Stronvar).....	72·98	(74·70)	66·50	8·20 — 11
„	„	Dunkeld (Inverbraan)	(38·00)	(39·80)	33·71	6·09 — 15
„	Forfar	Dundee (Eastern Necropolis)..	27·55	28·95	22·20	6·75 — 23
„	„	Kirriemuir (Lintrathen)	33·03	(35·60)	30·60	5·00 — 14
„	„	Montrose (Sunnyside Asylum)	26·98	29·16	27·33	1·83 — 6
XVII.	Aberdeen	Braemar	34·51	36·07	35·43	·64 — 2
„	„	Cromar (Tillypronie).....	31·73	30·65	31·12	·47 + 2
„	„	Ellon (Mains of Waterton) ...	30·09	30·91	34·05	3·14 + 10
„	Banff	Keith Station.....	33·84	32·72	37·42	4·70 + 14
„	Elgin	Grantown	31·69	31·00	29·70	1·30 — 4
„	Nairn	Nairn (School House)	25·42	(24·60)	22·74	1·86 — 8
XVIII.	Inverness, West	Loch Shiel (Glenfinnan)	108·85	105·29	104·12	1·17 — 1

SCOTLAND—(continued).

DIV.	COUNTY.	STATION.	Average, 1890-9.	Average, 1870-99.	Depth in 1905.	Difference from average 1870-99.	
						Amount.	Per cent.
XVIII.	Inverness, West	Glenquoich	112·44	108·26	114·41	6·15	+ 6
"	Ross, West	Strathconan (Dalbreac).....	53·62	(50·90)	48·96	1·94	— 4
"	"	Loch Torridon (Bendamph) ...	88·95	86·50	86·57	·07	+ 0
"	"	Braemore House.....	64·48	58·56	65·89	7·33	+ 13
"	" East	Fearn (Lower Pitkerrie)	23·50	23·52	25·76	2·24	+ 10
XIX.	Sutherland	Invershin	32·66	32·76	36·42	3·66	+ 11
"	"	Dunrobin Castle.....	32·26	31·60	31·80	·20	+ 1
"	Caithness	Watten Station	28·03	(27·40)	30·43	3·03	+ 11
"	Orkney	Shapinsay (Balfour Castle) ...	32·74	31·66	31·74	·08	+ 0

IRELAND.

XX.	Cork	Cork (Queen's College)	40·66	(41·28)	41·40	·12	+ 0
"	Kerry	Valencia (Glanleam)	55·30	(55·90)	57·11	1·21	+ 2
"	"	Killarney District Asylum ...	55·10	58·11	47·20	10·91	— 19
"	Waterford	Waterford (Brook Lodge).....	38·56	(39·30)	33·48	5·82	— 15
"	"	Glenam [Clonmel].....	40·89	42·17	36·97	5·20	— 12
"	Clare	Broadford (Hurdlestown)	33·31	(33·50)	30·45	3·05	— 9
"	"	Miltown Malbay.....	45·31	(44·50)	35·16	9·34	— 21
XXI.	Wexford	Enniscorthy (Ballyhyland) ...	41·45	42·87	33·77	9·10	— 21
"	"	Gorey (Courtown House)	33·62	35·72	28·27	7·45	— 21
"	Wicklow	Bray (Fassaroe)	39·68	40·55	41·66	1·11	+ 3
"	Carlow	Carlow (Browne's Hill).....	33·65	34·44	28·80	5·64	— 16
"	King's Co.	Birr Castle	32·96	33·06	25·69	7·37	— 22
"	Dublin	Dublin (Fitz William Square)..	27·30	27·75	25·28	2·47	— 9
"	Meath	Moynalty (Westland)	36·67	(37·40)	32·34	5·06	— 14
"	Westmeath	Mullingar (Belvedere)	36·50	(36·50)	31·98	4·52	— 12
XXII.	Galway	Ahascragh (Clonbrock)	39·32	(40·40)	31·87	8·53	— 21
"	"	Clifden (Kylemore House) ...	79·82	80·20	63·20	17·00	— 21
"	"	Tuam (Gardenfield)	42·18	(41·90)	35·75	6·15	— 15
"	Mayo	Crossmolina (Enniscoe)	52·60	(50·50)	47·48	3·02	— 6
"	Sligo	Collooney (Markree Obs.)	41·27	41·83	38·98	2·85	— 7
XXIII.	Armagh	Armagh Observatory	30·97	31·36	29·82	1·54	— 5
"	Down	Warrenpoint (Summer Hill)...	36·44	(38·70)	30·24	8·46	— 22
"	"	Seaforde	36·27	38·61	33·70	4·91	— 13
"	"	Banbridge (Milltown)	30·23	31·47	28·03	3·44	— 11
"	"	Donaghadee	30·39	(32·00)	26·48	5·52	— 17
"	Antrim	Belfast (Antrim Road)	35·28	34·57	35·63	1·06	+ 3
"	"	Ballymena (Harryville).....	39·52	(39·60)	37·84	1·76	— 4
"	"	Bushmills (Dundarave)	36·70	(38·20)	34·81	3·39	— 9
"	Londonderry	Garvagh (Moneydig)	37·95	39·16	33·55	5·61	— 14
"	"	Londonderry (Creggan Res.) ..	41·36	(41·20)	36·53	4·67	— 11
"	Tyrone	Stewartstown (The Square) ...	36·14	(35·10)	34·58	·52	— 1
"	"	Omagh (Edenfel)	39·66	37·85	36·09	1·76	— 5
"	Donegal	Buncrana (Rockfort).....	40·24	(41·50)	37·43	4·07	— 10

GENERAL TABLE
OF
TOTAL RAINFALL IN 1905,
AT MORE THAN
4000 STATIONS
IN THE
BRITISH ISLES.

EXPLANATORY NOTE.

The divisions in the General Table 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 reference to the stations is facilitated by sub-dividing some of the larger counties. The stations in each county or sub-division are arranged nearly in the order of their latitude from South to North.

For convenience in 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 List* ; the second name is generally added to fix the site of Observation more closely ; 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 near Beccles, which is in another county.

In the column headed “diameter,” figures in old-style type 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 complete for the year, and that the printed amount is the correct total of the daily entries. The letter **M** indicates that the gauge is read only on the first of each month. (**R**) denotes that the gauge used is a self-recording instrument.

A few entries of total rain will be found in italics—indicating that the values have been corrected, *e.g.*, when monthly gauges are read on a date other than the 1st, or when snow is neglected.

A dagger (†) denotes that the rain gauge has been visited and examined by the Editor or his assistants, and a section (§) that it has not been seen by the Editor, but is subject to inspection by the Meteorological Office or by one of the Meteorological Societies. A note of interrogation (?) implies doubt, not necessarily error ; the absence of information is indicated by ...

In the column of altitudes the sign **⌘** means that a series of levels has been taken from the gauge to an Ordnance Survey bench mark ; **†**, that the height has been ascertained approximately from the same source ; **L**, that levels have been taken from the gauge to the sea, or to some non-official datum ; and **B**, that the altitude has been taken by the barometer.

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ENGLAND AND WALES.

DIVISION I.—LONDON.

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with '01 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
NORTH OF THE THAMES.						
D PADDINGTON (Westbourne Grove)	A. P. Baker, Esq.	5	0 9	64 †	24·12	164
D† KENSINGTON (V. & A. Museum).	W. I. Last, Esq., C.E..	8	0 6	27 †	22·21	168
D " (Holland House) ...	Mr. C. Dixon	5	4 6	58 †	22·50	161
D " (Addison Gardens).	G. H. M. Whish, Esq..	5	1 1	23	21·65	144
D† " (Campden Hill) ...	Met. Water Board.....	8	4 10	130 †	21·48	143
FULHAM,						
D† W. Kensington (Edith Rd.)	G. von U. Searle, Esq..	5	0 10	16	22·92	161
D CHELSEA (Pumping Station) ...	M Fitzmaurice Esq CMG	8	1 0	19 †	23·05	141
D " (Physic Garden)	W. Hales, Esq.	5	1 0	20	22·85	165
D " (St. Luke's Gardens)...	T. W. E. Higgins Esq. CE	5	1 0	25 †	23·90	170
WESTMINSTER (Chester Square).	C. Lethbridge, Esq. ...	5	10 0	35	20·58	170
D " (Kensington Gardens)	Mr. W. Jones	8	1 10	...	21·07	142
§ " (St. James's Park) ...	Meteorological Office ..	8	1 0	20	22·13	163
" (Spring Gardens)...(1)	M Fitzmaurice Esq CMG	8	66 4	95 †	21·22	...
" (" ")... (2)	" " "	12	65 11	95 †	20·28	...
" (" ")... (3)	" " "	8	6 0	35 †	22·00	...
D " (Strand)	J. J. Steward, Esq. ...	5	40 0	80	22·63	156
ST. MARYLEBONE						
" (Northwick Terrace)	E. Heron Allen, Esq...	5	0 5	130	24·18	...
u§ " Regent's Pk (R Botanic Gdns)	J. B. Sowerby, Esq. ...	8	0 8	126 †	23·36	152
" (Hamilton Terrace)	Miss Cobb	5	0 11	125 †	23·22	166
HAMPSTEAD (Burrard Road Res.)	W. Godden, Esq.	5	1 6	261 †	21·98	...
D† " (Barrow Hill)	Met. Water Board.....	5	3 4	196 †	22·57	168
D† " (Kidderpore Res.)...	" " "	5	2 0	323 †	22·71	162
D " (Bathing Pond) ...	Mr. W. Pikesley	5	1 0	240 ?	18·86	146
" (Squire's Mount) ...	The Misses Field	5	1 0	388 †	23·82	...
D† ST. PANCRAS (Camden Square)...	Dr. H. R. Mill	8	1 0	111 †	22·97	162
† " (" ") weekly	" " "	5	1 2	111 †	23·13	...
D† " (" ") Snow g.	" " "	8	3 5	113 †	21·59	146

DIVISION I.—LONDON.—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with ≥ 0.1 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level		
		in.	ft. in.	feet.	inches.	
NORTH OF THE THAMES—(con.)						
† St. Pancras (Camden Sq.) float g.	Dr. H. R. Mill	8	0 11	111 $\bar{\pi}$	22.62	...
„ (St. Augustine's Rd.)	A. E. Payne, Esq.	5	0 4	150	25.10	159
ISLINGTON (Hilldrop Road)	H. Sowerby Wallis, Esq.	5	1 0	170 $\bar{\tau}$	23.42	...
STOKE NEWINGTON						
D „ (New River Filter Beds)	Met. Water Board	5	1 0	101 $\bar{\pi}$	21.16	151
D „ „ („ „ Reservoirs)	„ „ „ „	5	4 0	105 $\bar{\pi}$	21.01	154
D HACKNEY (Clapton Pond) .. (R)	Norman Scorgie, Esq. CE	8	2 6	70 $\bar{\pi}$	20.34	139
D † HOLBORN (Stone Yard)	Mr. E. F. Spurrell	5	12 0	89 $\bar{\pi}$	21.88	130
D FINSBURY (New River Head) ..	Met. Water Board	5	3 8	100	20.30	149
CITY OF LONDON (Guildhall) ..	F. Sumner, Esq., C.E.	8	51 0	98 $\bar{\tau}$	21.18	139
D SHOREDITCH (City Road)	J. Bigwood, Esq.	5	1 2	...	22.48	153
§ „ (Old Street)	Royal Meteorological Soc	5	1 0	70 $\bar{\tau}$	20.32	149
STEPNEY (Mile End)	J. Metson, Esq.	5	14 0	50	21.80	131
† „ (Nature Study Museum)	Miss K. M. Hall	5	1 0	35 $\bar{\pi}$	19.00	...
D POPLAR (Isle of Dogs)	M Fitzmaurice Esq CMG	8	1 0	15 $\bar{\pi}$	20.29	155
D „ (Old Ford)	Met. Water Board	8	0 9	19 $\bar{\pi}$	19.23	151
D „ („ „)	M Fitzmaurice Esq CMG	8	1 0	35 $\bar{\pi}$	19.06	143
D WOOLWICH (Barking Outfall) ..	„ „ „	8	0 6	6 $\bar{\pi}$	19.44	162
SOUTH OF THE THAMES.						
BERMONDSEY (Southwark Park)	Lt.-Col. J. J. Sexby ...	...	...	...	18.40	...
LAMBETH,						
D § West Norwood (Thornlaw Rd.)	W. Marriott, Esq.	5	1 0	221	22.77	189
D „ (Brockwell Park)	Lt.-Col. J. J. Sexby ...	...	...	...	26.98?	142
§ „ Brixton (Acre Lane)	Meteorological Office ...	8	1 0	77 $\bar{\tau}$	22.94	158
D BATTERSEA (Battersea Park) ..	Lt.-Col. J. J. Sexby ...	5	9 8	23	24.14	152
D „ Nine Elms (Heathwall)	M Fitzmaurice Esq CMG	8	37 0	51 $\bar{\pi}$	18.73	139
WANDSWORTH,						
D Streatham (Southwark W.W.)	Met. Water Board	5	4 1	120	20.66	158
D „ Clapham Park (New Park Rd.)	D. W. Horner, Esq. ...	5	1 0	128 $\bar{\tau}$	22.45	145
D „ Wimbledon Com. (Richmond Ho.)	E. Rawlings, Esq.	5	1 3	175 $\bar{\pi}$	25.58	166
„ (Putney Heath)	Met. Water Board	5	1 0	180 $\bar{\pi}$	24.04	173
„ Wimbledon Pk. (Woodhouse)	Sir A. E. Bateman ...	5	1 1	150	26.06	...
D § „ Wandsworth Com. (Patten Rd)	F. C. Bayard, Esq. ...	5	1 0	100	23.67	167
„ Clapham Com. (Macaulay Rd.)	Miss A. H. Boyson	5	1 0	75	23.17	...
„ „ „ (The Chase) ...	H. N. Prentice, Esq. ...	5	1 5	70	22.30	...
D CAMBERWELL (Dulwich Wood Pk)	H. V. Caldicott, Esq. ...	5	1 2	276	24.24	176
D „ E. Dulwich (Grove Vale) (R)	F. C. Bayard, Esq. ...	8	2 2	58	18.50	155
D „ Nunhead (Southwark W.W.)	Met. Water Board	5	4 0	176	19.24	143
D DEPTFORD (Telegraph Hill)	Lt.-Col. J. J. Sexby ...	5	9 6	135	22.98	137
D † „ (Kent Water Works)	F. C. Bayard, Esq. ...	5	1 0	20	21.87	156
GREENWICH						
† (Deptford Pumping Station)	M Fitzmaurice Esq CMG	10	4 0	15	24.13	...
D † „ (Royal Observatory)	Sir W. Christie, K.C.B.	8	0 5	155 $\bar{\tau}$	23.02	178
LEWISHAM,						
D Forest Hill (Dartmouth Rd.)	F. C. Bayard, Esq. ...	5	1 0	220 :	22.95	151

DIVISION I.—LONDON—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1905	Days with 01 or more recorded.
		Diameter	Height Above Ground		Height Above Sea Level		
		in.	ft.	in.	feet.	inches.	
SOUTH OF THE THAMES—(con.)							
LEWISHAM,							
D ,, (Forest Hill Cemetery) (R)	F. C. Bayard, Esq. ...	8	2	2	160	18·98	171
D ,, ,, (Barr Beacon)	Met. Water Board.....	5	1	0	344 π	23·51	176
D WOOLWICH, Eltham (High St.)	F. C. Bayard, Esq. ...	5	1	0	245	23·79	167

DIVISION II.—SOUTH EASTERN COUNTIES.

WEST SURREY.

D Haslemere (Lower Street).....	J. W. Penfold, Esq. ...	8	1	0	481 π	31·65	164
,, (Jesses).....	M. A. F. Parbury, Esq. ...	5	1	0	575 π	30·43	...
D ,, (,,).....	<i>Snowdon</i> ,, ,,	5	1	0	572 π	31·63	184
D ,, (Hazelhurst)	T. P. Newman, Esq. ...	5	1	0	550 B	31·43	187
,, (Grayswood Hill) ...	B. E. C. Chambers, Esq.	5	1	0	580 π	27·02	...
Dunsfold (Durfold)	Miss Billiter	5	1	0	225 T	23·86	...
Chiddingfold (Pickhurst).....	J. Ryder, Esq.	5	1	0	250	24·76	...
D ,, (Beaconscroft).....	Admiral Maclear	5	1	0	230 π	25·02	181
Dunsfold Rectory	Rev. W. H. Winn.....	5	1	0	170	23·76	...
Haslemere (Weycombe)	J. Buckton, Esq.	5	1	0	562 π	28·87	...
D Hambledon (Mattereyes)	J. Borrowman, Esq. ...	5	4	6	300	23·52	190
D ,, (Mervel Hill)	J. Franklin-Adams, Esq.	8	1	0	410	23·13	146
D Witley (Fernside)	Mrs. J. H. Foster	5	1	0	350 T	25·41	156
Hascombe Rectory.....	Rev. Canon Musgrave ..	8	1	0	450 T	24·26	...
,, (Hall Place)	E. L. Rowcliffe, Esq. ...	8	1	5	273 π	24·63	...
D Cranleigh Common (Homefield Cott.)	A. F. Jones, Esq.	5	1	2	175 T	24·62	165
,, ,,	W. Welch, Esq.	5	1	0	182 π	26·65	...
§ ,, (County School)	Royal Meteorological Soc	5	1	0	232 π	24·59	150
D ,, (Winterfold)	Mr. R. Turvey	8	3	6	603 T	27·90	161
D Ewhurst (Downhurst Lodge) ...	Mr. W. Bradfield	5	1	0	350	27·26	176
,, (Malquoits).....	W. Webb, Esq.	5	1	6	400	27·74	182
D ,, (Coneyhurst).....	Miss Ewart.....	8	1	0	561 π	28·70	191
,, (Heathside)	J. Sparkes, Esq.	5	1	6	600 π	27·87	...
,, (Woolpit)	Mr. H. W. Perrin	5	1	6	600	28·86	...
Bramley (Grafham Grange).....	Sherringham A. Shepherd, Esq.	8	1	2	180 T	25·23	142
Abinger (Feldmore)	E. Waterhouse, Esq. ...	5	3	6	505 T	27·14	..
D ,, (Joldwynds, Holmbury)	Mr. F. Cornish	5	1	0	550	27·84	167
D Godalming (Charterhouse)	O. H. Latter, Esq.	5	1	0	310 π	27·22	182
D Wonersh (Shamley Green) ...	Mr. A. Nash.....	5	1	0	400	26·16	160
D § Bramley (Cloverlea)	J. Bartlett, Esq.	5	1	2	150	27·63	171
Godalming (Tilthams)	Col. A. C. Bigg-Wither	5	1	0	130 π	23·79	...
D Abinger Rectory	Miss Brodie Hall	5	1	0	381	27·70	142
D ,, Hall	Lord Farrer	8	2	0	320 T	28·20	160
Farnham (Crooksbury Ridges)...	F. R. Walters, Esq. M.D.	5	1	4	440 π	26·15	168
D ,, (The Bourne Vicarage)	Rev. T. W. Sidebotham	5	1	0	308 T	25·83	171
D ,, (Dippen Hall Cottage).	M. Birkbeck, Esq.	5	1	0	345 T	26·09	204
,, Castle	Mr. H. Dowding	8	1	0	330	26·38	...
D ,, (Short Heath Lodge)...	Col. G. Chrystie.....	5	1	0	365 T	24·91	189
D ,, (Great Down, Seale) ...	Mrs. Kitchin	12	1	0	470 T	24·00	129

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with '01 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
WEST SURREY—(con.)						
D Guildford (Piccard's Rough) ...	H. A. Powell, Esq., M.D.	5	6 0	350 T	23.94	142
" (Briarfield)	Miss M. E. Swaine.....	5	3 0	300 T	26.35	...
D " (Newlands Corner) ...	Mr. H. Tann	5	1 6	550 P	25.83	181
D " (Hillside)	Miss H. S. Pitman.....	5	1 0	250 T	26.81	197
D " (Kair, Epsom Road)...	Miss Johnston.....	5	1 0	...	26.72	192
D " (Maori Road)	J. H. Billing, Esq. ...	5	1 0	230	26.05	185
D " (Wherwell Road).....	H. W. Furlong, Esq....	4	1 6	160	25.71	...
D " (Cross Lanes)	F. Smallpiece, Esq.....	5	0 8	200	24.17	159
D " (Craigie, Merrow) ...	Miss Lomer.....	5	0 9	250 T	24.14	152
D " (Burpham)	W. H. Burbidge, Esq..	5	0 8	...	25.18	164
D " (Temple Court)	Arthur H. Bowles, Esq.	8	4 0	264 T	24.78	156
High Clandon	F. B. Eastwood, Esq....	5	0 6	500 T	25.33	...
Horsley Towers	Capt. Hon L F King-Noel	8	1 2	285 A	26.18	...
D " (Woodcote Lodge)	Sir H. E. Roscoe, F.R.S.	5	0 6	600	29.60	199
§ Pirbright Camp.....	Capt. E. R. Taylor ...	5	1 0	201 T	21.65	...
D Frimley Green	F. W. Talbot, Esq. ...	5	8 0	220 A	19.06	147
" (Ridgemount) ...	C. C. Haviland, Esq....	5	0 9	350	24.50	205
D Woking (The Grange)	Rev. F. Wilson	5	0 8	78 T	24.03	177
D Pyrford (Pyrford Croft)	H. W. Page Phillips, Esq.	5	1 6	100 P	26.96	166
D Horsell (Lindisaye)	H. Horncastle, Esq. ...	5	4 2	120 T	22.82	139
" (")	" " " " " " " " " "	5	0 9	120 T	22.83	...
" (Kettlewell Hill)	Claude Marzetti, Esq....	5	0 9	115	22.22	...
§ Wisley	Meteorological Office...	8	1 0	150	21.78	179
D Camberley (Park Road)	Mr. J. Bryan.....	5	1 0	255 B	23.13	158
D Chobham (The Elms)	Mrs. Brown	5	2 3	80	24.38	151
D Chertsey (Ottershaw)	R. H. Otter, Esq.	5	1 0	200 T	21.55	167
D Bagshot (Hall Grove)	Mr. W. Burgess.....	8	1 0	229 T	24.12	181
Chertsey (Long Cross)	F. A. Baker, Esq.....	5	3 0	200 T	20.71	...
Windlesham (Westwood)	Col. G. A. Curzon	5	0 10	300 T	22.74	...
† Sunningdale (The Camp)	Lady Hooker	5	1 2	286	21.89	...
D Weybridge (Field Place)	G. A. Yool, Esq.....	5	1 0	118 A	23.20	161
" (" ")	" " " " " " " " " "	5	1 0	109 A	23.09	...
" (Heath Field).....	Miss A. T. Gardiner ..	5	1 0	100 T	23.62	181
D " (West Oaks)	A. Whittet, Esq.	5	1 0	36 T	21.16	160
D "	Maj.-Gen. J P Battersby	5	0 10	40	21.90	171
D Virginia Water (Lyne Grove) ...	Theodore J. Hare, Esq.	5	0 11	150 T	22.07	175
D " (St. Ann's Heath)	Rev. J. Peck	8	1 1	120	20.80	159
EAST SURREY.						
D Lyden Croft [Edenbridge]	Surg.-Gen. C. Planck ..	8	1 0	212 A	27.48	179
† Dorking (Fir Tor)	F. Taylor, Esq.	5	1 0	300 B	27.34	...
D† " (Rose Hill)	H. Belfield, Esq.	5	1 3	250	26.54	160
D† " (High Street)	Mr. J. Beetham Wilson	5	0 7	235 T	27.00	145
" (West Street)	Mrs. W. A. Marsh.....	8	26 0	224 T	22.82	140
" (Denbies).....	Mr. J. Beesley	5	0 9	610 T	28.19	...
D† " (Pixham Firs).....	J. Croft Deverell, Esq..	8	0 6	150 P	26.64	152
Brockham (North Lodge)	H. R. Kempe, Esq. ...	8	0 9	160 T	21.57	...
D Reigate (Hartswood).....	R. W. Clutton, Esq....	5	1 0	174	23.55	183

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with ≥ 0.1 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
EAST SURREY—(con.)						
D South Nutfield (Hale Edge).....	F. C. Bayard, Esq.	5	1 0	270	24.79	183
D Earlswood (Sewage Farm)	F. T. Clayton, Esq., C.E.	8	1 0	196 $\bar{\pi}$	25.42	151
Red Hill (Hurstleigh)	Mrs. Stephenson.....	5	1 0	320	27.43	...
Reigate (Aldersyde)	H. Rosling, Esq.	5	1 2	...	27.08	174
D ,, (Holmfels)	T. Jackson, Esq.	5	1 2	200 $\bar{\Gamma}$	25.05	153
D ,, (Mill Lawn).....	G. Weston, Esq.	5	1 0	330 $\bar{\Gamma}$	25.86	162
,, (Wray Lodge)	A. Rosling, Esq.	8	1 0	316 $\bar{\Gamma}$	26.98	178
,, (Northcote)	F. C. Pawle, Esq.	5	1 0	360	27.44	203
D ,, (Castle Grounds)	F. T. Clayton, Esq., C.E.	5	1 0	325 $\bar{\pi}$	25.02	174
,, (Laglands)	J. Welch, Esq.	5	1 2	375 $\bar{\Gamma}$	26.78	170
D ,, (Nutwood).....	late H. E. Gurney, Esq.	5	0 9	440 $\bar{\Gamma}$	24.48	175
D Nutfield Priory	Mrs. Fielden	8	1 2	468 $\bar{\pi}$	25.20	195
,, ,,	Mr. J. Moffatt	8	1 2	431 $\bar{\Gamma}$	26.43	196
D ,, (Holmesdale)	C. T. Maw, Esq.	8	3 0	500 $\bar{\Gamma}$	24.34	186
D Blechingley House	Rev. Preb. A. H. S. Barwell	5	1 0	530 $\bar{\pi}$	26.07	178
Betchworth (Sandhills).....	C. J. Whittington, Esq.	8	3 0	250 $\bar{\Gamma}$	23.03	...
D ,, (The Holmes)	F. R. Rushton, Esq. ...	5	0 8	322 $\bar{\Gamma}$	28.53	182
Reigate (Hatherlow Observatory)	S. T. Klein, Esq.	5	0 9	405	25.25	179
Dorking (High Ashurst)	Mr. G. Bond	5	3 0	550	25.77	...
D Merstham (Rockshaw)	F. C. Bayard, Esq. ...	5	1 0	475	26.15	153
D $\bar{\$}$ Upper Gatton.....	F. Druce, Esq.	5	1 0	601	27.45	194
D Headley (The Hurst)	F. C. Bayard, Esq. ...	5	1 3	450	28.27	155
D Caterham Reservoir	A. E. Cornwall-Walker, Esq.	5	1 0	705 $\bar{\pi}$	28.78	195
Leatherhead (Downside)	A. Tate, Esq.	5	1 0	250	25.91	...
D Chaldon Rectory	F. C. Bayard, Esq. ...	5	1 0	542	29.14	151
D Chipstead (Shabden Park)	,, ,, ,,	5	1 0	550	28.15	180
D Caterham Asylum	Dr. P. E. Campbell ...	5	1 0	610 $\bar{\pi}$	29.24	187
D ,, Valley (Bradenhurst).	Henry Haes, Esq.	5	1 0	510 \bar{B}	29.24	185
D $\bar{\$}$ Warlingham (Redvers Road) ...	R. H. Curtis, Esq.	8	1 0	610 $\bar{\Gamma}$	30.33	188
D Kenley (Place Fell)	F. C. Bayard, Esq. ...	5	1 0	300	27.60	211
D ,, (Hazelea)	Mrs. Carr Dyer	8	1 0	281 $\bar{\pi}$	27.75	174
D Warlingham (Egremont)	H. Rogers, Esq.	5	1 0	614 \bar{B}	30.25	168
D Ashtead (Hill Field).....	C. T. Howell, Esq.	5	1 0	215	24.12	171
D ,, (D'Abernon Chase).....	Sir W. Vincent, Bart..	5	1 0	280 $\bar{\Gamma}$	23.46	142
Cobham (Hatchford)	Mr. W. Theobald	8	1 0	170	23.20	...
D $\bar{\dagger}$ Oxshott	W. H. Dines, Esq. F.R.S.	5	1 0	206 $\bar{\pi}$	21.30	147
D Banstead (Burgh Heath Reservoir)	W. Vaux Graham Esq. CE	5	1 0	570 $\bar{\pi}$	29.51	191
,, (,, ,,) M	,, ,, ,,	5	1 0	570 $\bar{\pi}$	29.76	...
D ,, (The Hall)	F. C. Bayard, Esq. ...	8	1 0	488	27.34	155
D ,, (Benhilton)	,, ,, ,,	5	1 3	125	22.13	158
Chelsham (Fairchildes)	A. S. Daniell, Esq. ...	8	1 0	600 $\bar{\Gamma}$	27.66	...
,, (,,)	Mr. G. Mansfield	5	0 10	600 $\bar{\Gamma}$	27.84	...
D Epsom (Ashley Road)	Spencer C. Russell, Esq.	5	1 0	161 $\bar{\Gamma}$	24.84	190
,, (Water Works).....	W. Vaux Graham Esq. CE	5	3 1	149 $\bar{\pi}$	23.30	...
D Sanderstead (Red House)	F. C. Bayard, Esq. ...	5	1 0	320	25.95	164
D Weybridge (Burcote)	C. Sanger, Esq.	5	0 9	120	21.49	151
Purley (Riddlesdown Road).....	J. Edmund Clark, Esq.	5	1 0	365 $\bar{\Gamma}$	27.54	175
D ,, (Pumping Station)	A. E. Cornwall-Walker, Esq.	5	1 0	215 $\bar{\pi}$	25.59	160

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with ≥ 0.1 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level		
		in.	ft. in.	feet.	inches.	
EAST SURREY—(con.)						
Purley (Peaks Hill)	T. F. Parkinson, Esq.	8	1 0	340 †	29.20	...
D Esher (Sewage Works)	F. C. Bayard, Esq.	5	1 0	42 †	19.85	161
D South Croydon (Avondale Road)	Dr. G. J. Hinde, F.R.S.	5	1 0	225 †	27.32	185
D Addington (Hares Bank)	F. C. Bayard, Esq.	8	1 0	331 †	27.30	175
D " Hills	" " "	8	0 9	473 †	26.68	209
D Wallington (Cotswold)	" " "	5	4 1	140 †	25.78	182
D " "	" " "	8	1 0	140 †	25.64	193
Sutton (Sewage Works)	C. C. Smith, Esq., C.E.	8	1 0	94 †	23.61	177
D Carshalton (Sewage Works)	Baldwin Latham Esq. CE	5	1 0	118 †	23.65	154
D Beddington (Riverside)	F. C. Bayard, Esq.	5	1 0	120	23.93	165
D † Croydon (Duppas House)	Baldwin Latham Esq. CE	5	1 0	158 †	24.17	177
D " (Waddon New Road)	G. Corden, Esq.	5	1 0	146	24.85	165
D " (Brimstone Sew. Works)	F. C. Bayard, Esq.	5	1 0	130 †	22.20	148
D " (Park Hill Rise)	H. F. Parsons, Esq., M.D.	5	1 3	240	23.10	155
Worcester Park (Parkside)	A. Vaughan Pott, Esq.	5	1 0	80	22.80	...
D " (Manor Lodge)	F. C. Bayard, Esq.	5	1 9	120	22.79	145
D Beddington Corner (Millgreen Rd)	" " "	5	5 0	77	22.95	144
D Morden (Steel Hawes)	Miss R. Hames	5	2 3	97	24.02	183
D Thames Ditton (Weston Green)	Mr. H. T. Potter	8	1 0	35 †	22.38	176
† Surbiton (Seething Wells)	Met. Water Board	5	0 10	34 †	21.80	165
D " (Vronvelin)	F. J. Barclay, Esq.	5	1 0	50	22.41	172
D South Norwood (Woodvale)	F. C. Bayard, Esq.	5	1 0	216	23.03	156
† West Molesey	Met. Water Board	5	1 0	32 †	21.12	163
D New Malden Sewage Works	F. C. Bayard, Esq.	5	1 0	45	21.00	144
D " (Edenfield)	W. J. Carter, Esq.	5	1 0	40 †	22.15	156
Kingston (County Hall)	E. Underwood, Esq.	5	0 9	31 †	23.54	144
D " Sewage Works	F. C. Bayard, Esq.	5	1 0	25	23.93	166
D " (Union Street)	Mr. T. Davis	8	3 0	26	20.81	141
D Anerley (Town Hall)	H. W. Longdin, Esq. C.E.	5	1 0	191	22.42	161
D Wimbledon (Raynes Park)	C. H. Cooper, Esq., C.E.	5	1 0	50 †	21.79	151
D " Park	S. Single, Esq.	5	1 0	150	23.98	162
D " (Sewage Works)	C. H. Cooper, Esq., C.E.	5	1 0	55 †	20.61	149
D " (The Downs)	F. C. Bayard, Esq.	5	1 1	162 †	24.86	171
D " (The Windmill)	" " "	5	1 0	172	24.46	186
D " Common (The Priory)	H. J. Hunt, Esq.	5	0 6	172	24.33	...
D Richmond (The Terrace)	F. C. Bayard, Esq.	8	1 6	109	22.07	156
D " (The Old Palace)	Rev. A. Welsh Owen	8	0 9	...	22.91	...
D † " (Kew Observatory)	Dr. C. Chree, F.R.S.	11	1 9	19 †	22.61	164
WEST KENT.						
Hawkhurst	F. Ross Thomson, Esq.	5	2 0	200	28.37	...
D " (Sandhurst Rectory)	Rev. G. Ridout	5	1 3	208 †	31.57	171
Tenterden (Summerhill)	Mrs. Wilkin	8	1 0	149 †	25.91	162
D " "	" " "	5	1 0	150 †	27.03	162
Benenden (Pullington)	Major H. Neve	5	1 0	330	30.39	157
D " (East End)	J. Ellis Mace, Esq.	8	1 2	193 †	27.45	...
D † Tenterden	" " "	8	1 5	190 †	27.21	185
D † " Snowdon	" " "	8	1 5	190 †	26.74	173

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with .01 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
WEST KENT—(con.)						
D Aylesford (Preston Hall)	Mr. H. J. Knight	5	1 6	80	26·07	184
D Westerham (The Fishponds) ...	F. C. Bayard, Esq. ...	5	1 0	380	26·88	143
D " Hill Estate	" " " "	5	1 0	539	26·82	163
D† Sevenoaks (River Hill).....	Lt.-Col. J. M. Rogers..	8	4 0	535 $\bar{\pi}$	25·97	161
" (Plaxtol)	H. Stonham, Esq.	5	3 0	300 $\bar{\Gamma}$	23·61	...
" (Bitchet Wood)	Admiral G.S. Bosanquet	5	1 0	580 $\bar{\pi}$	27·90	...
" (The Rectory)	Rev. T. S. Curteis....	5	1 0	497	28·16	...
D " (St. John's Hill).....	W. W. Wagstaffe, Esq.	5	1 10	380	26·99	169
" (Riverhead).....	Dr. J. Sterry	5	0 9	230	29·59	152
D " (Chevening Gardens)..	Mr. C. Sutton.....	5	1 0	360	29·22	151
D Ightham (Belmont Lodge)	Burleigh D. Kilburn Esq	5	1 4	380	27·87	189
D† Knockholt (Kent Waterworks)..	F. C. Bayard, Esq. ...	5	24 6	812	23·44	161
D† " " " "	" " " "	5	1 0	785	28·38	163
Otford (Beechy Lees)	Mr. R. Edwards.....	5	0 10	480	28·57	176
Farnborough (Downe Lodge) ...	F. Lander Muirhead, Esq	5	0 8	555 $\bar{\Gamma}$	30·12	...
Ash (Pettings House)	C. J. G. Hulkes, Esq... 5	1 0	540 $\bar{\Gamma}$	28·01	174	
D West Wickham (Wickham Court)	F. C. Bayard, Esq. ...	5	1 2	300	28·10	147
D Hayes (Hayes Place).....	" " " "	8	1 0	350	26·63	144
D† Orpington (Kent Waterworks)...	" " " "	5	1 0	220	25·25	156
Chatham (Luton W.W.)	W. Coles Finch, Esq....	5	3 0	88 $\bar{\pi}$	20·66	150
Meopham	Jesse Garratt, Esq. ...	5	1 1	290 $\bar{\pi}$	23·12	154
D Rochester (Knights Place)	J. Pye, Esq.	4	3 0	320	24·40	177
Strood Water Works	W. Banks, Esq., C.E... 5	3 0	112 $\bar{\pi}$	20·78	159	
D Frindsbury (The Shrubbery) ...	Warwick Stunt, Esq... 5	1 6	150	20·64	148	
" (Manor Farm)	F. Baker, Esq.	5	1 0	100	20·25	...
Bromley Common (Elmfield) ...	Rev. J. P. Faunthorpe.. 5	0 5	235 $\bar{\pi}$	25·02	173	
Bickley (The High Field)	J. Batten, Esq.	5	1 2	295	25·36	...
D Bromley (The Palace)	F. C. Bayard, Esq. ...	5	1 0	187	24·36	171
" (Lansdown Road)	C. A. Case, Esq.	5	1 0	220	22·79	...
D " (Orchard Road)	Miss Scott	5	1 0	230	22·41	150
D " (Kinnaird Avenue) ...	C. T. Drew, Esq.	8	2 0	...	20·95	178
Shortlands (The Gables)	A. M. Tapp, Esq.	5	1 0	200	22·71	...
Chislehurst (Foxbury)	H. F. Tiarks, Esq..... 8	5 6	250	23·55	191	
D " (Hawkwood)	F. C. Bayard, Esq..... 5	1 0	300	23·91	154	
D Gravesend (Thong)	C. H. Scriven, Esq. ... 5	1 0	255 B	21·43	168	
D Frindsbury (Stonehouse)	E. W. Wood, Esq..... 5	1 0	20	21·87	142	
D Southfleet (Kent Waterworks)...	F. C. Bayard, Esq..... 5	1 0	82	20·90	176	
D Wilmington (" " " ")...	" " " "	5	1 0	25	20·49	166
D Sidcup (Park Road)	S. A. Sharman, Esq.... 5	1 0	230 B	23·82	182	
D " (Station Road)	Clayton Beadle, Esq.... 5	1 0	...	22·62	140	
D Beckenham (Wickham Road) ...	E. Scovell, Esq..... 5	1 2	156 $\bar{\Gamma}$	23·29	182	
D Dartford (West Hill House).....	F. C. Bayard, Esq. ... 5	1 3	100	20·46	135	
D Higham (Oakleigh)	C. Lake, Esq..... 8	1 2	25	18·47	131	
Greenhithe (H.M.S. Worcester)	Capt. D. Wilson-Barker	5	...	36	14·15	144
D Cooling (Broomy Farm)	Mr. J. Filmer	5	1 6	10	21·04	152
D Hoo St. Mary	H. Pye, Esq., Junr. ... 5	5 6	146 $\bar{\Gamma}$	18·97	162	
D Erith (Crossness)	MFitzmaurice EsqCMG	14	0 6	16 $\bar{\pi}$	18·93	149

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with '01 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
EAST KENT.						
§ Dungeness	Meteorological Office ...	8	1 3	75 T	30·69	194
Brookland	G. Pile, Esq.	5	0 9	16 ?	25·82	...
Dymchurch Rectory	Rev. C. E. Plater	8	1 6	5	25·66	...
D Hythe (Hillcrest Road)	J. B. Jordan, Esq.	5	1 0	190 T	28·85	175
D „ (Sandling Park)	Lawrence Hardy Esq MP	8	1 0	268	31·37	174
D „ (Hillhurst Farm)	G. F. Deedes, Esq. ...	5	1 6	280 T	31·91	188
D Sandgate	A. R. Bowles, Esq., C.E.	5	1 0	52 T	27·89	157
D § Folkestone (Sanatorium)	M. Yunge Bateman, Esq.	5	1 0	102 T	29·45	166
D „ (Limes Road)	J. Duncan Walker, Esq.	5	1 0	160	30·04	169
D „ (Radnor Park)	J. W. Stainer, Esq. ...	5	4 8	129 T	27·76	158
D „ („ „) ... (R)	A. E. Nichols, Esq., C.E.	8	6 2	127 T	22·01?	185
D „ (Cherry Gardens) ...	H. Turner, Esq.	5	1 6	230 T	31·75	192
D „ (Capel Lodge)	E. Norton, Esq., M.D..	5	1 0	470 T	25·54	170
D „ (Lower Standen, Capel)	H. Turner, Esq.	5	2 11	250 T	29·23	179
Hythe (Paddlesworth)	Mr. R. Dixon	8	1 0	612 T	43·57	...
D Acrise Park	F. A. MacKinnon, Esq.	5	0 7	484 T	37·53	147
D Ashford (Willesborough Rectory)	Rev. A. L. Brine	5	...	175	27·16	194
D Dover (Water Works)	H. E. Stilgoe, Esq., C.E.	5	1 6	200 T	29·87	164
D Kearsney (Chilton Farm)	„ „ „	5	1 6	127 T	32·19	151
„ Abbey	Mr. J. Ward	5	1 0	94 T	33·57	...
D Ashford (Beavor Green)	T. Nickalls, Esq.	5	1 0	155 T	27·17	163
Deal and Walmer W.W. M	A. Mantle, Esq.	12	1 0	110 T	25·33	...
D „ „ „ „	„ „ „	5	1 0	110 T	25·70	166
Wye (Bilting House)	W. W. Knight, Esq. ...	5	1 3	158	29·90	155
Petham (Buckholt Farm)	W. H. Hammond, Esq.	8	1 0	460 T	28·35	...
D Deal (Sewage Works)	J. W. Barrow, Esq. ...	5	1 0	11 T	26·71	186
D Tilmanstone (Danefield)	Mrs. Rice	6	1 1	130 ?	27·71	144
D Eastry	L. A. Fawcett, Esq. ...	5	0 10	85 T	26·86	163
D „ (Great Walton)	W. V. Lister, Esq. ...	5	1 0	25 T	24·15	152
D Sandwich (Upton House, Word)	W. Elwin Napier, Esq.	5	1 0	32	25·05	149
Wingham (Crockshard)	J. E. Elgar, Esq.	5	1 6	90 ?	26·62	...
„ (Margate W.W.)	Mr. W. R. Hosking	5	1 0	138 T	23·73	148
D Selling (Luton)	F. I. Neame, Esq.	5	1 6	263 T	28·57	144
Sheldwich	late Rev. B. S. Malden	5	1 0	249 T	28·61	166
D Selling (Harefield)	Sidney Neame, Esq. ...	5	4 6	219 T	29·24	190
D Sandwich (St. George's Golf Club)	W. Ryder Richardson Esq	6	1 1	3	21·24	154
Littlebourne House	T. M. Patterson, Esq. ...	5	1 6	37	24·57	...
D Canterbury (Irrigation Works) ..	C. Terry, Esq., C.E. ...	5	2 6	15 T	23·14	146
„ (Medical Hall)	Meteorological Office ...	...	...	40	23·46	139
D Sittingbourne (Sharsted Court).	A. J. Rayfield, Esq. ...	5	1 6	287 T	23·52	148
Canterbury (St. Thomas' Hill) ...	J. Spillett, Esq.	5	1 0	250	25·81	...
Ospringe (Lorenden)	Walter C. Stunt, Esq. ...	5	1 2	180 T	25·93	134
D Ramsgate (West Cliff Villas) ...	T. N. Ritson, Esq., C.E.	6	1 0	124 T	21·34	150
Minster (Gas Works)	„ „ „	6	1 0	60 T	22·16	...
D Broadstairs (Providence House).	Cecil Hamersley, Esq. ...	5	2 0	50 T	21·64	161
Herne Bay (Eddington)	Miss Hawksworth	5	1 0	4 ?	20·69	...
„ „ (Water Works)	J. W. Thorp, Esq.	5	0 6	122 T	18·52	...

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with .01 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
EAST KENT—(con.)						
D Reculver	Allington Collard, Esq.	5	5 2	27 T	18.42	152
D§ St. Peter's	Rev. H. C. V. Snowden	5	0 9	140 A	20.58	158
D Margate (Westlands)	J. Stokes, Esq.	5	1 0	55	21.18	172
Kingsgate (White Ness)	Mr. R. Silk	5	3 0	98 L	20.17	138
† Sheppey (Old Rides, Eastchurch)	H. C. Warren, Esq. ...	5	2 0	40 T	20.31	...
D† „ (Leysdown)	Rev. J. Castle	5	1 2	50	19.74	143
WEST SUSSEX.						
§ Bognor	Royal Meteorological Soc	8	1 0	15	24.29	190
„ (Lidsey Lodge)	H. Neale, Esq.	8	1 2	25	24.13	...
Littlehampton (Surrey House)...	A. J. White, Esq.	5	1 8	20 T	23.27	...
„ (Dorset House)...	G. H. Beecheno, Esq...	5	2 0	30	23.32	...
D§ Worthing (Corporation Obs.) ...	Frank Roberts, Esq. C.E.	8	1 0	34	24.63	161
West Thorney	H. Padwick, Esq.	5	1 0	23 T	21.31	...
D Arundel (Yapton)	Mr. G. Harrison	5	1 0	24 A	24.65	141
D „ („ Drove Farm).	„ „ „	5	1 0	14 T	24.66	141
Angmering	Rev. J. B. Orme	5	1 3	44	23.05	...
D Tortington	Major J. A. Travers ...	5	1 0	25 T	26.68	147
D Chichester (Westgate Meadow)...	G. A. Tyacke, Esq. ...	8	0 6	40	23.26	169
D Arundel (Patching)	J. Drewitt, Esq.	5	1 0	180	26.24	160
D „ („)	Mrs. Joad	5	0 10	130 T	27.13	189
D West Bourne [Emsworth]	Rev. L. B. Birkett	5	0 8	50 T	25.64	182
D Funtington	J. A. Greenwood, Esq.	5	1 0	95 T	24.54	142
D West Stoke Rectory	Rev. W. F. Shaw	5	1 0	176 T	26.15	135
D Steyning	Col. Ingram	5	1 0	80 T	28.62	142
„ (Crescent Road)	Mr. H. J. Hide	5	1 0	80 T	28.28	...
† Chichester (Forest Side Vic.) ...	Mrs. J. C. Parson	5	1 0	341 T	27.62	...
D „ (Watergate)	W. M. Christy, Esq. ...	5	1 0	236 T	28.48	188
„ (West Dean Park) ...	Mr. W. H. Smith	10	1 6	190	29.55	...
„ (Chilgrove)	J. W. Woods, Esq. ...	5	0 6	284 T	30.51	...
Sutton (Coldharbour)	Mr. J. Campbell	5	2 0	...	26.96	...
Midhurst (Linch Farm)	G. Eames, Esq.	5	0 8	160 T	30.93	...
D Compton [Petersfield]	Rev. H. M. Langdale...	5	1 0	255 A	27.94	168
Petworth Park	Mr. E. W. Pull	5	1 0	182 T	27.34	...
D Stedham (Rotherhill)	R. Stanley Clarke, Esq.	8	1 2	170 T	25.22	187
Cowfold (Maple Bank)	Mr. S. Ford	5	1 6	373	24.84	..
Midhurst (Lodsworth)	Lt.-Col. E. O. Hollist, RA	8	1 3	220	24.53	...
D „ (Borden Wood)	E. G. Lamb, Esq., M.P.	8	1 0	260 T	29.08	173
„ (Hollycombe)	J. C. Hawkshaw, Esq..	8	6 6	550	30.32	...
Billingshurst (Hawkhurst Court)	B. de F. Osmaston, Esq.	5	1 6	120	23.64	...
D Horsham (Denne Park)	Mr. H. Harris	5	4 0	246 T	27.66	138
D Slinfold (Rapkyns)	W. Duncan Knight, Esq.	5	1 0	170	25.10	148
Fernhurst (Blackdown House)...	F. Philipson Stow, Esq.	5	1 10	488 T	25.04	...
§ Horsham (Christ's Hospital)	Royal Meteorological Soc	5	1 0	161	24.90	162
D „ (Selehurst)	W. E. Hubbard, Esq..	5	1 0	305	28.58	166
† „ (Manor House)	H. Padwick, Esq.	8	0 10	140 T	28.22	156
D† „ (Richmond Road)	M. L. Craven, Esq. ...	5	1 2	170	29.12	181
D „ (Leonardslee)	Mr. W. A. Cook	8	1 0	380	24.56	147

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with 0.1 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level		
		in.	ft. in.	feet.	inches.	
WEST SUSSEX—(con.)						
d† Horsham (Wimblehurst)	Miss F. E. Allcard ...	5	1 0	195 T	27.67	180
Lynchmere (Shottermill)	Rev. C. Holland.....	5	4 0	450	31.96	...
EAST SUSSEX.						
† Beachy Head	Miss Brodie Hall.....	5	1 0	515 T	21.84	...
d† Eastbourne (Wilmington Square)	Meteorological Office...	8	0 6	39	30.10	167
d§ „ (Osborne House) ..	Miss Hood	5	1 0	12 T	28.36	156
d „ (Glenthorne)	Miss Woodd	8	1 6	86 A	29.38	177
„ (Arundel Road)	J. C. Wright, Esq.....	5	0 4	70	30.26	...
„ (Cemetery)	Miss Brodie Hall	5	4 0	160 A	25.97	...
„ (Staveley Cross) ..	J. Weston, Esq.	5	1 6	110 T	28.41	...
d Seaford	B. A. Miller, Esq., C.E.	5	1 6	40 T	25.12	163
Jevington (Church Farm)	F. Stileman, Esq., C.E.	8	0 9	261 A	27.66	...
d Litlington (Plough & Harrow Inn)	„ „ „	8	1 0	19 A	28.11	158
d§ Brighton (Old Steine)	A. Newsholme, Esq., MD	5	1 0	32 T	25.30	162
† „ (Roedean School)	Miss J. M. Stanford ...	5	1 0	200 ?	21.30	...
d „ (W. W. Goldstone Bottm)	J. Johnston, Esq., C.E.	8	0 7	140 A	23.48	154
d „ („ Lewes Road)...	„ „ „	8	3 6	88 A	26.89	163
d „ („ Upper Portslade)	„ „ „	8	1 3	167 A	24.05	139
d „ (W. W., Patcham)	„ „ „	5	1 6	207 A	27.72	162
d „ („ Race Hill) ...	„ „ „	8	1 0	466 A	26.56	159
d† Bexhill (Marina)	Mr. G. Brisley	8	1 0	10 ?	28.96	148
§ St. Leonards (West Marina) ...	H. Colborne, Esq.	8	1 0	21 A	26.57	163
§ „ (Gensing Gardens). ..	„ „ „	8	1 0	179 A	26.89	180
d Polegate (Alciston)	R. Matthews, Esq.....	5	1 4	172 T	29.88	176
Hailsham	Rev. F. Clyde Harvey..	5	1 0	105	31.03	...
d Falmer	R. R. Verrall, Esq. ...	5	4 0	312 A	28.67	172
d Lewes (Bedford Lodge).....	Mrs. Kemp	5	1 0	85 T	27.13	178
d „ (Saxonbury)	A. Hillman, Esq.	5	1 0	75 T	29.36	152
d Hailsham (Magham Down)	W. E. Bear, Esq.	5	1 2	90 T	27.28	152
d Ringmer (Downlands)	R. R. Davis, Esq.	5	0 8	120	29.80	147
d Hastings (Newgate)	P. H. Palmer, Esq., CE	8	5 6	240	27.37	146
„ (Filsham Res.)	„ „ „	5	0 10	91	26.10	145
„ (Halton Res.)	„ „ „	5	0 10	301	30.09	150
„ (Fairlight Res.)	„ „ „	5	0 10	510	30.11	151
§ „ (Cemetery)	Meteorological Office...	5	0 8	500	28.46	174
d „ (High Beech Hollington)	Miss Lewis	5	1 0	320 T	26.75	175
d „ (Guestling Rectory) ...	Rev. E. N. Bloomfield.	5	1 5	125 A	29.51	159
d Hassocks (Pyecombe)	Mr. F. S. Mitchell.....	5	0 7	392	29.24	148
Clayton Rectory.....	Rev. T. H. R. Shand...	9	1 6	201 T	30.71	165
Hurstpierpoint (Danny Park) ...	Mr. J. Bunney	8	1 3	180	32.86?	...
Winchelsea (The Friars)	Major R. C. Stileman..	5	1 2	115 T	24.70	...
d Horeham Manor.....	Miss P. C. Harrison ...	5	0 9	250	26.72	165
d Isfield Place	Major H. King	5	1 0	51	26.73	155
„ „	„ „ „	5	1 0	51	26.37	...
d Battle (Whatlington)	Miss H. Gripper.....	5	1 3	90 T	29.09	156

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with $\cdot 01$ or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
EAST SUSSEX—(con.)						
Udimore (The Hammonds)	J. G. Mair-Rumley, Esq.	8	1 0	144 ∇	24.48	140
Playden (East Guldeford Lane).	G. Pile, Esq.	5	1 0	15	25.82	...
Burgess Hill (Ote Hall)	Mrs. Woods	5	1 6	...	30.20	...
∇ Heathfield (Summerlands)	Dr. A. Brown	5	1 0	500 ∇	30.86	156
∇ " (Tottingworth Park).	Mr. J. Masson	5	1 0	500 ∇	29.93	154
∇ Bolney Vicarage	Rev. T. Austen Holcroft	5	0 11	99 ∇	26.96	181
∇ Lindfield (Massetts Place)	Nigel V. Combe, Esq. ...	5	1 0	131 ∇	25.60?	157
∇ Uckfield (Sheffield Park) ...	Mr. W. T. Moore	5	1 0	150	27.23	168
∇ Haywards Heath (Abbots Leigh)	Mr. R. Inglis	5	1 0	190 ∇	29.34	156
∇ Robertsbridge (Salehurst Vic.) ...	Rev. E. J. Sing	5	0 9	110 ∇	32.72	199
∇ Buxted Park	Mr. H. C. Prinsep	8	1 0	94	29.68	171
" (Strawberry Hall)	C. Rintoul, Esq.	5	1 0	180	29.64	...
∇ Cuckfield (Workhouse)	Meteorological Office ...	8	1 0	389	24.84?	145
∇ Lindfield (Wood Knoll)	L. Weedon, Esq.	5	1 0	188 ∇	29.09	195
∇ Bodiam (South Park)	L. M. Jackson, Esq. ...	5	1 1	208 ∇	28.86	166
∇ Etchingham (Shoyswell Manor).	Isaac Seligman, Esq. ...	4	1 9	250 ∇	29.28	143
∇ Nutley Vicarage	Rev. H. J. Peckham ...	5	1 0	386 ∇	28.34	187
∇ " (The Hall)	Miss Cook	5	0 10	417	27.91	169
∇ " (Chelwood Beacon)	H. Clarke Jervoise, Esq.	5	1 3	530 ∇	31.30	167
Handcross (Lower Beeding)	Leicester M. Reed, Esq.	5	0 10	430 ∇	27.33	...
∇ Crowborough (Jarvis Brook)	Crowborough Water Co.	5	1 0	325 ∇	32.33	145
∇ " (Beechcroft)	R. L. de Zoete, Esq. ...	5	0 11	750	33.15	182
∇ " (Uckfield Lodge) ...	J. J. S. Driberg, Esq. ...	8	1 0	796 ∇	32.57	199
∇ Haywards Heath (Brook House)	H. R. G. Clarke, Esq. ...	5	1 0	220	28.11	139
∇ Ardingly (Lywood House)	G. Forrester Scott, Esq.	5	0 9	240 ∇	27.86	187
∇ Balcombe (The Gables)	Mr. G. J. Warren	8	1 3	352 ∇	28.75	181
∇ Wadhurst (The Olives)	Miss Edith Luck	5	0 6	380	29.04	191
Ticehurst House	Mr. J. D. Jordan	5	4 9	423 ∇	27.79	...
∇ " (Whiligh)	G. J. Courthope, Esq. ...	5	1 0	440	30.23	183
∇ Wadhurst (Uplands)	Miss M. C. Watson ...	5	1 0	480	29.74	180
∇ " (Kirkstone)	J. C. Lane Andrews, Esq.	5	0 5	525	31.07	154
∇ " (Lower Cousley Wood)	F. Wilkin, Esq.	5	1 0	416 ∇	26.85	166
∇ Balcombe (Stockcroft)	R. Newton, Esq.	5	1 1	341 ∇	29.41	159
∇ Crowborough (Steel Cross House)	J. C. Stenning, Esq. ...	5	1 1	534 ∇	33.23	193
∇ " (Renby Grange) ...	Miss Emily Aston	5	1 7	390 ∇	29.32	189
Forest Row (Hindleap Lodge) ...	Mr. A. Adam	5	1 6	620	26.74	...
" " (Wych Cross)	D. W. Freshfield, Esq.	5	0 7	600	29.84	...
" " (Charlwood Farm) ..	A. Hoare, Esq.	5	1 0	250 ∇	27.69	...
Frant (Eridge Castle)	Mr. A. Wilson	5	2 0	400	31.33	...
" (Highfield)	C. M. R. Clewe, Esq. ...	5	2 3	413	28.91	...
∇ Crawley Down (The Grange) ...	T. H. W. Buckley, Esq.	5	0 9	430	29.26	169
Worth (Paddockhurst)	Mr. A. B. Wadds	6	2 0	500	27.71	...
∇ " (South Hill)	P. E. Ravenshaw, Esq.	8	1 6	558 ∇	31.69	206
∇ East Grinstead (Cranston Road).	Mr. G. Mitchell	8	2 2	420 ∇	30.12	165
Glen Andred [Groombridge] ...	Mrs. Boardman	8	1 0	320	27.19	...
Cozleigh [Groombridge]	Norman W. Grieve, Esq.	8	1 0	230	25.80	...

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with ≥ 0.1 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level		
		in.	ft. in.	feet.	inches.	
HAMPSHIRE.						
ISLE OF WIGHT.						
D Ventnor (Flint Cottage) .....(R)	J. S. Ineson, Esq.	10	2 0	100 π	28.33	154
§ " (Consumption Hospital)	Royal Meteorological Soc	5	1 0	81	27.55	161
D Shanklin	E. C. Cooper, Esq., C.E.	8	1 0	199 π	31.20	154
Brading Vicarage	Rev. E. Summers	5	1 0	50 ?	29.41	...
D Totland Bay (Aston House).....	J. Dover, Esq.	8	1 0	145 π	24.65	153
D Carisbrooke (Rainsgrove).....	Baldwin Latham Esq CE	5	1 0	180 π	29.69	140
D " (Rowborough)	" " " " " "	5	1 0	193 π	31.03	140
D Newport (Grammar School)	C. D. Vibert, Esq.....	5	1 0	45	27.97	164
Ryde (W. W., Knighton)	J. T. Harvey, Esq., C.E.	8	2 0	78 π	32.06	145
D " (New Lodge)	Capt. W. A. Dobie.....	5	1 1	147	27.92	161
" (Pier Street)	T. Cole Flower, Esq....	12	9 0	35	30.58?	...
D " (Town Hall).....	C. Mathew, Esq.	8	1 0	144 π	27.65	162
D " (Beldornie Tower)	Percy C. Hall, Esq. ...	5	1 0	30 L	24.68	156
D Wootton (Fernhill)	C. G. Brodie, Esq.....	8	0 6	118 T	31.84	156
D Osborne (Newbarn Cottage)	R. Scott, Esq.....	8	0 8	172 π	26.38	152
Bournemouth (Clarendon Court).	G. Galpin, Esq.....	5	1 0	130 T	24.93	...
" (South Cliff)	C. Dales, Esq.	5	1 0	41	22.11	165
" (Pleasure Gardens)	" " " " " "	5	1 0	41	26.56	167
" (Vale View)	" " " " " "	5	1 0	150	25.00	169
D " (Wellington House)	Messrs. Primavesi Bros	5	1 0	100 T	23.25	165
D§ " (Kempsey, Bath Rd.)	E. L. M. Colville, Esq. ..	5	1 0	121 T	25.34	168
Milford-on-Sea (Keyhaven)	A. C. G. Heygate, Esq.	5	1 0	6	23.81	...
D Christchurch (Winkton Lodge)..	Miss Lassell	5	1 0	34 π	22.67	142
D " (Heron Court).....	The Earl of Malmesbury	8	0 6	25 T	24.35	126
Milton (Wootton Hill)	Lt.-Col. R. Harman ...	5	1 0	188 T	25.97	144
Portsmouth (Fort Cumberland)..	P. Murch, Esq., C.E....	8	0 9	16 π	21.29	...
D§ " (Victoria Park)	Dr. A. Mearns Fraser...	5	1 0	18 π	24.06	152
Ringwood (Burley Park)	Rev. W. Esdaile.....	5	...	200 ?	26.54	...
D " (Bisterne).....	Rev. C. Mills	8	0 11	45 T	27.44	134
Fareham (Belvoir House)	E. Woakes, Esq., M.D.	5	0 11	20	22.20	...
D Porchester (Noel Cottage).....	Miss Montgomerie Frost	5	2 0	...	22.25	153
D† Havant (Farlington)	H. Ashley, Esq., C.E....	5	1 0	77 T	20.01	128
† " (")	" " " " " "	5	1 0	77 T	20.18	...
D† "	" " " " " "	5	1 0	25 T	17.85	129
† "	" " " " " "	5	1 0	25 T	18.07	...
D† Emsworth (Redlands)	F. Jacomb Hood, Esq.	5	1 0	90 T	24.15	135
D Southampton (Cadland)	A. C. Drummond, Esq.	8	4 6	52 T	24.37	174
Lyndhurst (Cuffnells)	R. G. Hargreaves, Esq.	6	1 0	200	25.24	...
Netley (Royal Victoria Hospital)	Mr. E. Batchelor	8	0 5	37 π	28.29?	...
D " (Lake House).....	Col. W. A. Pennington	8	1 0	54 π	25.80	188
Cosham (Purbrook Grange)	Miss F. A. Deverell ...	8	0 9	100 ?	25.85	...
Lyndhurst (Fritham House) ...	Mrs. F. E. Chapman...	5	1 0	420	26.95	141
† Southampton (Ordnance Surv. Off.)	Col. R. C. Hellard, R.E.	5	1 0	79 π	26.16	161
" (Thornhill Park) ...	Col. F. Willan	5	1 8	220 T	23.61	...
D " (Totton)	W. F. Harold, Esq. ...	5	4 0	85	26.89	177
" (Anglesea Rd., Shirley)	A. Spooner, Esq.	5	1 1	83	22.87	...

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with 01 or more recorded.
		Diameter	Height Above Ground.	Height Above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
HAMPSHIRE—(con.)						
Southampton (Tatchbury Manor)	C. F. Wilson, Esq.....	5	1 0	100 ?	26·06	145
D Wickham (The Croft)	Miss C. L. Rashleigh...	5	0 11	80	25·50	167
D Botley (Botley Hill)	Lady Jenkyns	5	1 6	36 †	25·69	155
D „ (Beechcroft, Curdridge)..	Miss L. Pasley	8	1 6	100	26·36	145
† Horndean (Blendworth Lodge)...	Mrs. Long	8	0 10	217	28·43	166
Fordingbridge (Oaklands)	Mrs. T. Westlake	8	1 0	135 †	22·29	...
D Hambledon (Rosecroft).....	Mr. L. Dawes.....	5	2 6	200 †	27·84	175
Bishops Waltham (Swanmore House)	W. H. Myers, Esq. ...	8	1 0	390 †	26·16	149
D „ „ (Hill Place)	Major W. A. Daubeney.	8	0 9	260 †	26·93	166
„ „ (Northbrook Ho.)	H. W. Trinder, Esq....	5	1 0	136 †	27·07	173
„ „ (Wintershill Hall)	J. S. Moss, Esq.....	5	1 6	253 †	25·42	...
Droxford (Fir Hill)	Capt. Mackenzie-Grieve	5	3 6	212 †	26·80	148
Chandlers Ford (Fryern)	Miss Grace Stuart	5	1 2	200	25·88	...
D East Meon (Westbury House)...	Col. LeRoy Lewis, D.S.O.	5	2 6	296 †	28·15	138
D Ampfield Vicarage.....	Rev. Vere Awdry	5	3 0	230 †	25·31	148
D Otterbourne (Elderfield)	G. Norsworthy, Esq....	5	1 0	137 †	28·73	182
D „ (W. W., Shawford).	W. Matthews, Esq., C.E.	5	1 0	113 †	22·36	156
„ „ „ „) M	„ „ „ „	5	1 0	113 †	22·41	...
D Petersfield (Fairley)	A W Leachman, Esq. MD	5	0 9	202 †	29·63	169
D Romsey (Timsbury)	Baldwin Latham Esq. CE	8	1 8	96 †	24·66	165
D Twyford (Pumping Station).....	„ „ „ „	8	1 9	139 †	27·32	142
Kilmeston Manor	C. G. Heathcote, Esq..	5	4 6	323	29·21	...
D West Dean	Rev. E. Wells	5	1 0	137 †	25·64	138
D East Liss (Newlands)	E. B. Falwasser, Esq. .	5	1 0	390 †	30·15	163
D Colmer Rectory	Rev. A. C. Hervey	5	1 1	560 †	31·69	144
D Alresford (Ovington Rectory) ..	Rev. H. F. La M. Stowell	5	1 0	221 †	28·46	154
D West Liss (Hawkley)	Rev. G. A. Rideout ...	5	1 0	480	29·64	157
D Greatham (King's Holt)	Mrs. Chase Parr.....	5	1 7	279 †	30·28	142
„ (Manor House).....	F. Coryton, Esq.	7	0 7	250	28·41	...
Winchester (Wyke)	Miss I. M. Deedes	5	1 3	282	28·21	...
Horsebridge (Bossington).....	W. H. Deverell, Esq...	8	0 9	92 †	27·09	166
D Liphook (Fowley)	E. A. Lee, Esq.	5	0 10	296 †	29·09	165
„ (White Hill Chase) ..	Viscount Hawarden ...	5	1 0	300 †	27·25	149
D Newton Valence Vicarage.....	Rev. A. C. Maclachlan.	5	1 0	600	30·70	183
D § Grayshott [Hindhead]	Mrs. Lyndon	5	1 0	660 †	31·13	191
D Headley (Eveley)	Mr. T. Carter.....	5	1 3	295 †	29·23	135
Liphook (Bordon Camp)	Lt.-Col. Woolmer	8	1 0	268 †	26·73	153
D § Swarraton Rectory	Rev. W. L. W. Eyre...	5	1 0	310 †	27·18	178
Headley House	Mr. G. Glaysher.....	6	1 6	250 †	25·84	...
D Alton (Ashdell).....	F. Crowley, Esq.	8	3 6	433 †	29·36	155
„ (Eagles Nest)	„ „ „ „	5	52 4	505	18·26	...
D „ (Holybourne)	Admiral H. C. Bigge...	5	1 3	380 †	26·92	165
„ (Shalden Manor).....	J. G. Wood, Esq.	8	3 0	594	31·34	156
D Long Parish	C. R. Durnford, Esq....	5	1 2	210	25·57	143
D Andover (The Knoll).....	G. H. Westbury, Esq..	5	0 10	196 †	27·22	162
D Tidworth House [Ludgershall]..	Mr. G. A. Inglefield ...	5	1 8	357 †	21·92	150
D Warren Corner [Farnham]	F. Wilkin, Esq.....	5	1 0	575 †	24·39	156

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1905	Days with '01 or more recorded.
		Diameter	Height Above Ground		Height Above Sea Level		
		in.	ft.	in.	feet.	inches.	
HAMPSHIRE—(con.)							
Upton Grey (Hoddington Ho.)...	Lord Basing	8	1	0	378 ∇	27·15	151
Oakley	Rev. F. G. Hume	5	1	6	400	26·61	166
Mapledewell	H. B. Thorp, Esq.....	8	1	2	...	24·05	...
D Basingstoke (Chapel Hill).....	G. Stephens, Esq.	5	1	0	328 \uparrow	25·18	146
D " (Sherborne St. John).....	Rev. D. W. Chute.....	5	1	2	267 \uparrow	25·60	166
D Winchfield (Elvetham Park) ...	Mr. G. B. Mitchison ...	8	1	0	217 \uparrow	24·80	184
D Hartley Wintney	W. G. Machin, Esq. ...	5	1	2	222 \uparrow	23·38	146
" Grange	F. Walkinshaw, Esq... 8	1	0	221 ∇	26·44	148	
D Kingsclere (Tower Hill House)... 5	Dr. R. Maples.....	1	0	327 \uparrow	26·98	178	
D Strathfieldsaye Rectory	Rev. F. Page-Roberts.. 5	2	0	164	24·82	175	
D " Gardens	Mr. A. G. Nichols	5	1	8	166	26·13	165
u Heckfield (Highfield Park)	F. B. Marson, Esq. ... 5	1	3	192	24·24	161	
" (Park Corner)	J. Martineau, Esq. 5	1	2	257	23·49	...	
BERKSHIRE.							
D Sandhurst Lodge	Sir W. J. Farrer	8	2	9	263	23·74	149
D Wellington College	S. A. Saunder, Esq. ... 5	1	0	283 ∇	21·98	143	
Finchampstead (West Court) ...	C. E. Harris, Esq..... 5	1	0	180	22·92	164	
Mortimer (Wokefield Park).....	A. Palmer, Esq..... 5	4	0	180 ∇	22·28	147	
D Newbury (Sandleford Priory) ...	Mr. R. H. Butcher ... 8	2	0	381 ∇	25·99	163	
D " (Greenham Common)..	H. L. Bowman, Esq.... 5	1	0	328 ∇	26·40	160	
Sulhampstead (Firlands)	J. T. Strange, Esq. ... 12	1	0	300 \uparrow	23·25	...	
D Aldermaston Wharf	" " " "	5	1	0	181 ∇	25·38	178
D Sunningdale (Lynwood)	G. Rodie Thompson, Esq. 5	1	0	266 ∇	25·28	154	
D Ascot (Winkfield Manor)	C. A. Ferard, Esq..... 5	1	0	240 ∇	23·73	170	
Shinfield (Clares Green)	W. Haynes, Esq. 5	4	6	160 \uparrow	23·42	154	
D Wokingham (Staverton	H. C. Mylne, Esq. 5	1	0	220 \uparrow	23·27	184	
§ " (Pinewood)	Meteorological Office... 8	1	0	219	23·07	155	
D Beenham House.....	H. Waring, Esq. 8	2	2	320	23·83	163	
D Bracknell (Warfield).....	Rev. B. C. Littlewood. 5	0	6	199 \uparrow	21·28	183	
D Windsor (Royal Gardens).....	Mr. T. Edwards..... 5	1	0	...	21·97	177	
Reading (Englefield).....	Mr. J. Coombes	5	1	1	175 ?	24·87	142
D " (Calcot Place).....	General Swettenham... 5	1	4	176 \uparrow	24·54	176	
§ "	Meteorological Office... 8	1	0	161	21·19	137	
D " (Ellerslie)	Rev. A. Cheales..... 5	1	0	195 ∇	21·87	149	
D " (Forbury Gardens).....	J. Bowen, Esq., C.E.... 5	1	5	145 ∇	21·31	181	
" (Earley)	M. J. Sutton, Esq. ... 8	1	6	150 \uparrow	20·63	...	
D Newbury (Welford Park)	Mr. C. Ross..... 5	1	0	341 \uparrow	30·14	183	
D " (Weston)	R. Osmond, Esq. 5	1	4	335 ∇	24·08	168	
D Frilsham House	Mr. W. E. Austen..... 5	1	0	370	21·61	143	
D Lambourn (East Garston)	Mr. J. H. Spackman... 5	2	6	395 \uparrow	24·66	174	
" (Clarionville)	F. Gullett, Esq..... 5	1	6	500	25·17	...	
D Maidenhead (Heywood Park) ...	Greville H. Palmer, Esq. 5	1	0	100	21·33	156	
D " (The Firs, Castle Hill).....	J. W. Duncan, Esq. ... 5	1	0	170 \uparrow	20·27	170	
D " (Isis Cottage)	O. King, Esq..... 5	1	0	80	20·87	162	
Farnborough Rectory	Rev. J. B. H. Whitehurst 5	1	3	713 \uparrow	27·68	178	
D Bisham Vicarage	Rev. Wm. Farrer	5	1	9	100	22·12	155

DIVISION III.—SOUTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with 40 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level		
		in.	ft. in.	feet.	inches.	
MIDDLESEX—(con.)						
D Hornsey (High Street).....	E. J. Lovegrove, Esq., CE	8	4 3	97	23.81	162
D " (" " ").....	Met. Water Board.....	5	4 0	109	22.66	153
Muswell Hill (Grand Avenue)...	G. Michael Williams, Esq.	5	1 0	317	25.31	...
D " " (Colney Hatch Lane)	Miss Abethell.....	5	0 10	310 T	25.69	159
" " (Irish Corner Sewage Farm)	E. J. Lovegrove, Esq., CE	8	4 8	216 T	22.70	...
Wealdstone House	K. R. Cobb, Esq.	5	0 11	236 T	21.31	...
Finchley (Etchingham Park) ...	Mrs. J. W. Scott	5	1 2	295 T	25.06	...
§ Harefield (The Scrubbs)	Meteorological Office ...	5	1 0	338	21.48	...
Pinner (Moss Cottage)	Mrs. Birkett	5	1 0	209	21.99	...
" Green (Northwold)	Miss Stanley Smith ...	8	0 6	200 ?	23.57	150
" (Hatch End)	W. M. Cann, Esq.	5	0 11	260	22.23	...
Northwood (Haslemere)	Miss McBean	5	1 0	...	22.15	...
D " (The Grange)	A. P. Blathwayt, Esq..	5	1 0	220 T	21.20	145
D Harrow Weald (Hill House) ...	A. Crossman, Esq.	5	3 6	284	23.51	182
D North Finchley	G. B. Shoults, Esq. ...	5	0 8	295 T	24.70	165
D Southgate (Reservoir Road).....	W. B. Butler, Esq.	5	1 0	255 T	23.92	162
D Ponders End (Bylock Hall)	F. W. Freir, Esq.	5	1 0	50	23.38	163
D† " "	Met. Water Board.....	8	1 6	45 T	21.76	158
D Enfield (Old Park).....	A. L. Ford, Esq.	5	1 9	156 T	23.66	148
D " (Southbury Road)	Met. Water Board	5	4 0	109 T	23.02	169
D† " (Carisbrooke)	J. McEwan, Esq.	5	1 0	204 T	25.63	184
D " (The Ridgeway)	Met. Water Board	8	1 0	223 T	24.46	166
D Trent Park [New Barnet]	Mr. H. Parr.....	5	1 1	...	26.76	164
Wrotham Cott. [Hadley, Barnet]	H. E. Cooper, Esq.	5	1 0	410	27.83	158
D† Ramey Marsh [Waltham Abbey]	Met. Water Board.....	8	1 6	60 T	22.02	151
D Potters Bar (Little Heath)	Henry Ellis, Esq.	5	4 8	375	24.75	164
HERTFORDSHIRE.						
D Eastbury [Northwood]	H. Langford Lewis, Esq.	5	1 0	360 T	22.06	166
D " [" "] (Easby)..	Mrs. Sandford Fawcett	8	0 10	400 T	22.93	163
D Rickmansworth (Moor Park)....	Lord Ebury.....	5	2 0	340	19.56	175
" (Croxley Green).	S. Ingleby Oddie, Esq..	5	0 7	250 T	23.81	...
D Elstree (Aldenham House)	Mr. E. Beckett	10	4 9	305	24.22	153
Watford (Colne Valley W.W.)...	J. Hopkinson, Esq.	5	1 0	220	21.23	156
D " (London Orphan Asylum)	Rev. Dr. Cockrem	5	1 0	230 T	21.03	162
" (St. Alban's Road)	H. Ruddle, Esq.	5	1 0	...	19.68	...
D " (Weetwood).....	J. Hopkinson, Esq. ...	5	1 0	269 T	23.09	187
" (").....	M " " "	5	1 0	269 T	22.87	...
Barnet (Gas Works)	" " " "	8	0 9	212	25.88	162
D " (Summerhill)	F. A. Milne, Esq.	5	0 10	400 T	26.41	163
D " Grammar School	Rev. J. B. Lee	5	1 3	430 T	25.88	194
Chipperfield (Little Callipers) ...	A. W. Rivington, Esq.	5	1 0	407 T	22.52	...
D Northaw (St. Just).....	Miss E. J. Poland	5	1 0	385	24.74	190
" (Newgate Street)	J. Hopkinson, Esq. ...	...	...	350	25.84	...
D† Broxbourne (Stafford House) ...	G. J. Newbery, Esq.	5	1 0	118 T	27.20	160
D Hemel Hempstead (Apsley Mills)	Messrs. J. Dickinson & Co.	24	1 4	260	26.45	141
St. Albans (Bone Hill)	J. Hopkinson, Esq. ...	5	1 0	336 T	24.00	180
D " (Hill End)	G. Goodchild, Esq. ...	5	1 0	295 T	22.19	141

DIVISION III.—SOUTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with 01 or more recorded.
		Diameter	Height Above Ground	Height Above SeaLevel	1905	
		in.	ft. in	feet.	inches.	
BUCKINGHAMSHIRE						
D Eton (Tangier Islands)	C. Sainty, Esq.	5	1 0	67 $\bar{\pi}$	20·23	139
D Slough (Langley)	R. H. Major, Esq.	8	0 10	85 $\bar{\Gamma}$	20·01	141
† „ (Upton)	R. Bentley, Esq.	8	2 0	80 $\bar{\pi}$	19·06	...
D† „ („)	„ „ „ „	5	2 0	78 $\bar{\pi}$	20·30	167
Burnham (Burnham Cottage) ...	G. J. Williams, Esq.	5	3 0	162	19·72	...
D Taplow Court	Lord Desborough	8	1 0	217 $\bar{\Gamma}$	19·30	137
D Farnham Royal (Broomlands) ..	F. C. Moscrop-Young Esq	5	1 0	205 $\bar{\Gamma}$	20·37	162
Greenlands [Henley-on-Thames]	Hon W. F. Smith, M.P.	8	1 3	116	24·28	...
D Hedsor	Lord Boston	8	1 0	170 $\bar{\Gamma}$	25·39	162
D Beaconsfield (Gerrard's Cross)...	R. C. Sikes, Esq., C.E.	5	1 0	286 $\bar{\pi}$	23·56	178
„ „ „ „) M	„ „ „ „	5	1 0	287 $\bar{\pi}$	23·36	...
D Marlow Mills	S. H. Wright, Esq.	8	2 0	105	23·42	214
D High Wycombe	H. S. Wheeler, Esq.	8	0 9	253 $\bar{\pi}$	20·75	149
D Chalfont St. Giles (The Stone)...	Col. R. W. Phipps	5	1 4	270 $\bar{\Gamma}$	23·88	160
„ „ „ „) M	„ „ „ „	5	1 0	270 $\bar{\Gamma}$	23·30	...
D Amersham (The Plantation)	G. Weller, Esq.	8	1 0	464 $\bar{\pi}$	23·69	164
„ (Rumseys)	G. M. H. Weller, Esq.	8	0 10	309 $\bar{\Gamma}$	24·94	145
Great Missenden	Mr. W. Douglas	5	1 0	400	27·67	...
D Wendover (Halton Gardens) ...	Mr. R. C. Sanders	5	1 10	400	23·33	159
Bulbourne [Tring]	Gordon C. Thomas, Esq.	5	2 3	401 $\bar{\Gamma}$	24·20	177
Mentmore	Mr. J. MacGregor	5	1 2	...	21·08	...
D Oving House	H. Yates Thompson, Esq.	5	1 6	515 $\bar{\Gamma}$	22·80	187
„ „ „ „) M	„ „ „ „	5	1 6	515 $\bar{\Gamma}$	22·29	...
D Swanbourne House	Lord Cottesloe	5	1 0	411 $\bar{\pi}$	22·26	159
D Winslow (Addington Manor) ...	Lord Addington	8	1 0	309 $\bar{\pi}$	21·19	166
„ „ „ „) M	„ „ „ „	5	1 0	309 $\bar{\pi}$	20·86	...
D Buckingham (Adstock Fields)...	J. E. S. Weston, Esq.	5	0 9	352 $\bar{\Gamma}$	21·52	155
„ (The Vicarage)	Rev. P. P. Goldingham	5	2 0	278 $\bar{\Gamma}$	23·05	...
D Wolverton (St. George's Vic.)...	Rev. W. L. Harnett ...	5	1 0	270 $\bar{\Gamma}$	20·82	193
D „ (The School House)...	H. J. Hippsley, Esq.	5	1 0	264	21·20	188
D Newport Pagnell	F. Littleboy, Esq.	5	2 0	196 $\bar{\Gamma}$	19·58	152
Olney (Emberton Manor)	J. W. Pascoe, Esq.	5	1 6	200	18·90	...
OXFORDSHIRE.						
Caversham (Eastfield)	C. M. Powell, Esq.	5	1 0	180 $\bar{\Gamma}$	21·18	149
„ (Cane End House) ...	D. Vanderstegen, Esq..	5	0 4	400 ?	25·13	...
D Goring (Elmcroft)	Major E. Gambier Parry	5	0 10	150	21·29	151
D Henley-on-Thames (Greys)	Col. Howell Davis	5	2 0	350 $\bar{\Gamma}$	24·73	136
„ „ „ (Highmore School)	R. C. Lucas, Esq.	5	1 0	500 $\bar{\Gamma}$	26·86	...
„ „ „ (Henley Park) ...	Martin J. Sutton, Esq.	5	0 8	410 $\bar{\pi}$	23·51	...
D „ „ „ (Assenton)	Mr. J. Ratty	5	1 0	281 \bar{B}	24·11	132
D Dorchester (Bishops Court)	T. Latham, Esq.	5	2 0	169	20·09	174
D Abingdon (Culham Vicarage) ..	Rev. F. C. Clutterbuck	5	1 0	200 $\bar{\pi}$	20·55	174
D „ („ School House)	Mr. F. Mitchell	5	0 10	180 ?	19·98	155
„ („ College)	J. S. Davis, Esq.	8	0 11	213 $\bar{\Gamma}$	19·95	176
D Watlington (Pyrton Manor)	E. Hamersley, Esq.	5	1 6	321 $\bar{\Gamma}$	23·70	191
Nuneham Park Gardens	Mr. C. E. Munday	8	3 0	280 $\bar{\Gamma}$	20·06	...
Wheatfield Rectory	F. A. M. Spencer, Esq.	5	1 3	260	24·12	174

DIVISION III.—SOUTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with $\cdot 01$ or more recorded.
		Diameter	Height Above Ground.	Height Above Sea Level.	1905	
		in.	ft. in.	feet.	inches.	
OXFORDSHIRE—(con.)						
D Toot Baldon (Potland)	D. Clinkard, Esq.	5	1 0	288	22·18	159
Great Haseley (Manor House)	F. Gelderd-Somervell, Esq....	8	1 0	280 †	20·53	...
D Oxford (Pumping Station)	W.H. White, Esq., C.E.	8	1 0	187 †	19·83	147
D „ (Magdalen College)	late E. Chapman, Esq..	5	1 0	186 †	19·05	156
† „ (Radcliffe Observatory)..	Dr. A. A. Rambaut, FRS	8	1 8	210 †	20·92	137
D† „ { „ „ } ..	„ „ „	11	2 4	210 †	21·40	147
† „ { „ „ } ..	„ „ „	10	22 0	230 †	20·02	127
† „ { „ „ } ..	„ „ „	10	112 0	320 †	15·01	135
D „ (Norham Road).....	Rev. C. B. Mount	10	1 2	206 †	20·70	147
D „ (Banbury Road)	Miss E. M. Tawney ...	5	1 1	211	20·63	151
D „ (Headington Hill)	Miss Davenport ...	5	0 10	354	22·31	151
D „ (Elsfield)	H. Parsons, Esq.	5	1 0	330 †	21·27	169
Witney (Ringwood Farm)	J. W. Abraham, Esq..	5	1 0	...	25·17	150
Stanton St. John ...	Miss Thomson.....	8	1 0	340	22·88	173
„ „ „ (Woodperry)..	J. Thomson, Esq.	6	1 0	399 †	23·19	164
Islip.....	Col. G. E. Eliot.....	5	1 0	200 †	22·28	...
Woodstock (Hampton Poyle Rec.)	Rev. S. T. Gwilliam ...	5	1 0	201 †	22·71	136
„ (Freeland Lodge)	<i>Oxford Times</i> .....	...	...	...	23·98	137
D Chipping Norton (Lyneham).....	R. de M. Pratt, Esq....	5	1 7	351 †	25·78	172
D „ „ (Sarsden) ... (R)	J. M. Blair, Esq.	8	3 0	492 †	23·48	168
„ „	A. Pettipher, Esq.....	5	1 6	700	24·59	...
„ „ (Heythrop) ...	Albert Brassey, Esq....	8	3 0	600	19·34?	168
Bicester (National School)	Mr. W. H. Piggott ...	9	0 6	238 †	19·71	...
„	H. A. Fane, Esq.	5	0 10	240 †	18·47?	...
D „ (Middleton Park)	The Earl of Jersey.....	5	2 6	338 †	21·29	164
Steeple Aston (Hill House)	B. S. Ogle, Esq.....	5	0 4	400	23·07	179
D „ „ (The Grange) ...	Mrs. Bradshaw	8	1 0	400 †	20·83	168
D Swerford.....	Mr. W. Hall ..	5	1 0	500 †	24·02	214
D Adderbury	G. H. Norris, Esq.....	5	1 1	338 †	22·49	175
Bloxham Grove	W. H. Warriner, Esq.	8	3 10	387 †	23·31	...
Banbury (Sibford Ferris)	Joshua Lamb, Esq. ...	5	1 0	575 †	23·08	...
D „ (Bodicote)	J. F. Starkey, Esq. ...	8	1 3	388 †	23·95	174
NORTHAMPTONSHIRE.						
D Brackley House	J. Allen, Esq.	5	1 0	425 †	24·64	198
D Grimsbury [Banbury] W.W. ...	W. E. Wood, Esq....	5	1 3	320 †	22·12	162
Thorpe Mandeville.....	C. A. Markham, Esq...	5	1 0	530	24·30	141
D Towcester (Paulerspury)	F. J. Gurney, Esq. ...	5	1 0	395	22·07	184
D „ (Bradden Rectory) ...	Rev. C. Blathwayt ...	5	4 6	403	20·06	184
„ (Stoke Bruern Park)..	Mr. W. Batchelor	5	1 0	320	22·61	...
„ (Easton Neston)	Mr. E. Slarke.....	8	1 0	340 †	19·79	151
D Blisworth (Crieff House)	A. Westley, Esq	5	5 0	330	21·23	184
D „	T. W. Milner, Esq. ...	5	1 6	300 †	18·30	183
„ (Milton House)	C. A. Markham, Esq... ..	...	...	...	19·23	...
D Lichborough Hall	E. Grant, Esq.	5	1 10	500	20·33	174
D Daventry (Fawsley)	The Lady Knightley ..	5	1 0	477 †	19·74	154
D Castle Ashby	R. G. Scriven, Esq. ...	5	1 0	263 †	20·51	209
Great Houghton	C. A. Markham, Esq. ...	...	...	...	18·57	185

DIVISION III.—SOUTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with .01 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level		
		in.	ft. in.	feet	inches.	
CAMBRIDGESHIRE—(con.)						
D Foxton House	A. P. Humphry, Esq. ...	5	1 0	60 †	20·97	186
Abington Pigotts	T. G. F. Pigott, Esq. ...	8	0 8	130	19·11	147
Meldreth (Chiswick Farm)	A. Howard, Esq.	5	1 1	70	18·85	155
D „ (Belmington Close) ...	G. Warren Bindloss, Esq.	5	1 0	65 †	19·72	153
Whittlesford (Sawston).....	D. L. Huddleston, Esq.	5	1 1	86 †	21·84	168
D Harston	Mrs. C. M. Baldwin ...	5	0 8	47	20·24	162
Wimpole Hall	Mr. W. J. Snell	5	1 0	141	19·83	160
D Stapleford House	J. H. H. Linton, Esq. ..	5	2 3	64	20·01	164
Carlton	G. H. Long, Esq.	5	1 0	340 †	19·87	159
D „ Hall	A. S. Nice, Esq.	5	1 6	290 †	20·98	173
D Longstowe Rectory	the late Rev. J. P. Sharp	5	1 3	227 †	23·27	206
Trumpington	C. Parsons, Esq.	5	1 0	60	21·19	152
D „ (Gilmerton).....	Smith Nutter, Esq. ...	8	4 0	54	21·02	182
Granchester Mill	J. Nutter, Esq.	5	5 0	31 †	20·37	157
D Cambridge (Fulbourne Pmpng Sta)	W. W. Gray, Esq. C.E.	5	1 0	37 †	20·75	196
D „ (W.W.Cherryhinton).	„ „ „	5	1 0	35 †	19·29	168
„ (Southacre)	L. De Bunsen, Esq. ...	5	1 0	43	19·35	139
D „ (Sidney Street)	W. E. Pain, Esq.	8	60 0	92 †	19·47	181
D „ (Tenison Avenue) ...	W. B. Parsons, Esq. ...	8	1 2	...	17·34	159
„ (Pinehurst)	C. F. Foster, Esq.	5	0 10	36	20·51	154
§ „ (Botanic Gardens) ...	Meteorological Office ...	8	0 10	83	18·99	180
„ (Chesterton).....	F. Skinner, Esq.	5	1 0	60 †	20·12	...
„ (Quy Hall)	T. Musgrave Francis Esq	5	0 5	61	21·01	186
Lolworth Rectory	Rev. R. M. Stapylton..	5	0 11	130 ?	19·23	...
Boxworth [St. Ives]	E. H. Thornhill, Esq. ...	5	1 0	76	19·17	183
Burwell	R. Stephenson, Esq.	5	2 0	58	20·00	152
Conington Hall [St. Ives]	Philip T. Gardner, Esq.	8	0 5	50	20·26	165
Cottenham (Bernard House).....	A. Bull, Esq.	5	3 6	30 †	19·56	151
Willingham Rectory.....	Rev. J. Watkins	5	1 3	18	18·55	141
Soham	T. Everett, Esq.	5	2 0	25 †	19·21	...
D Stretham (Dimocks Cote).....	Mr. H. Nightingale ...	5	13 7	...	20·13	145
D „ Engine	Mr. J. Housley	9	4 9	13 †	17·09	138
„ (Orchard House)	C. Wright, Esq.	8	5 0	42	19·58	156
D „ Ferry (Elford Farm)..	„ „ „	8	4 6	...	17·99	140
D § Ely (The Palace)	Rev. G. Bullock Webster	5	1 0	64 †	21·65	206
Chatteris (Holwood Farm)	Mr. G. Argent	5	0 10	12	18·22	...
Mepal Engine	Mr. J. Goodman.....	5	20 6	25	14·30	...
Littleport (Highfield House) ...	H. G. Martin, Esq. ...	8	2 7	67 †	18·87	136
D Chatteris (Aylesby House)	A. H. Ruston, Esq. ...	8	0 6	31	20·34	143
„ (The Priory)	H. F. Fryer, Esq.	5	0 7	31	20·85	...
Stanground Sluice.....	A. Lunn, Esq., C.E. ...	8	1 6	...	15·67	...
March	„ „ „	9	2 0	...	23·06	163
Upwell (Marmont Priory Lock)..	„ „ „	8	1 1	...	19·20	166
„ (Euximoor House)	H. West, jun., Esq. ...	5	0 8	15 ?	22·12	145
D Thorney (Bedford Office)	A. J. Forrest, Esq. ...	8	3 6	9 †	19·04	145
D § „ (Wryde House)	S. Egar, Esq.	5	1 0	7 †	20·99	157
D Wisbech (Bank House).....	A. Peckover, Esq., LL.D.	8	0 8	6	20·23	165
„ (Monica Road)	W. Climenson, Esq. ...	8	1 2	6	19·19	145

DIVISION IV.—EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with '01 or more recorded.
		Diameter	Height Above Ground.	Height Above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
ESSEX—(con.)						
Chelmsford (High Street).....	F. Chancellor, Esq. ...	8	1 0	92 $\bar{\pi}$	19.19	154
„ (County Hortic. School)	C. W. Aylett, Esq. ...	5	1 0	...	18.52	...
$\text{D}\S$ „ (Spergula).....	J. C. Thresh, Esq., M.D.	5	1 0	136 $\bar{\tau}$	17.46	157
D „ (Springfield Place)...	Miss Jackson	5	0 11	143 $\bar{\pi}$	18.34	172
„ (Roxwell)	R. W. Christy, Esq.	5	1 0	190 $\bar{\tau}$	17.99	...
Clacton-on-Sea (Jay Wick).....	J. Russell, Esq.	5	4 0	20	19.10	...
$\text{D}\S$ „ „ „	Mr. A. W. Shadick ...	5	1 2	55 $\bar{\pi}$	16.68	147
Great Clacton (Clay Hall)	Philip Smith, Esq.	5	2 0	40 $\bar{\tau}$	18.01	...
Witham (Little Braxted Hall)...	A. G. Taber, Esq.	5	1 0	50	18.93	133
D „ (Terling Vicarage).....	H. C. Boutflower, Esq.	5	1 0	115 $\bar{\tau}$	18.87	150
D Great Leighs (Lyons Hall)	J. H. Tritton, Esq. ...	5	3 0	130 $\bar{\pi}$	19.85	145
D „ „ („ „)	„ „ „ „	5	0 6	140 $\bar{\pi}$	20.69	145
D Fingringhoe (Ballast Quay Farm)	T. B. Grubb, Esq.	5	2 0	47	18.63	140
Colchester (Berechurch)	R. P. Blyth, Esq.	5	0 9	120 $\bar{?}$	17.41	...
D „ (Borough Surveyor's Office)	H. Goodyear, Esq., C.E.	8	17 0	82 $\bar{\pi}$	15.46	114
D „ (Hill House, Lexden)	S. F. Hurnard, Esq. ...	5	1 0	90 $\bar{\tau}$	15.97	144
„ („ „ „) M	„ „ „ „	5	1 0	90 $\bar{\tau}$	15.54	...
„ (Home Farm, „)	Mr. W. Bird	5	1 0	125 $\bar{\tau}$	16.07	...
Great Bromley	F. J. Baker, Esq.	5	1 0	120 $\bar{?}$	19.20	...
$\text{D}\S$ Dunmow (Bigods Hall).....	T. Hacking, Esq.	8	1 0	298 $\bar{\tau}$	19.35	144
D Braintree (Bocking, Fennes).....	H. S. Tabor, Esq.	5	1 0	240 $\bar{\tau}$	17.20	148
„ („ Place)	Mr. A. Evason	8	2 3	212 $\bar{\pi}$	18.58	...
Dunmow (Saling Grove)	Capt. J. Nicolls Harrison	8	1 0	300 $\bar{\pi}$	16.58	...
Ardleigh (Hungerdown)	C. R. Baker, Esq.	5	1 0	125	18.13	140
„ (Good Hall)	G. F. Hempson, Esq. ...	5	1 0	133 $\bar{\tau}$	17.75	143
Earls Colne (Chalkney House)...	H. F. Hills, Esq.	5	1 0	168 $\bar{\tau}$	17.18	...
D Manningtree (Bradfield Lodge)..	G. Hempson, Esq.	5	1 0	113 $\bar{\tau}$	19.86	178
D „ (Lawford Rectory)	late Rev. Canon Barlow	5	1 0	100 $\bar{\tau}$	19.81	189
D „ („)	O. Bendall, Esq.	5	...	95 $\bar{?}$	18.85	162
D Harwich (Hill House, Ramsey)..	Miss K. Hempson	5	0 6	80	20.74	173
D „ (Coastguard Station)...	Mr. W. Bevan	5	1 0	40	16.78	139
\S Halstead	Royal Meteorological Soc	5	1 0	144	17.64	146
D Dedham (Dalethorpe)	J. D. Tremlett, Esq. ...	5	1 1	54	17.14	161
Langham Rectory	Rev. T. S. Raffles	5	0 7	134	19.93	170
Great Maplestead (Monk's Lodge)	T. F. Miller, Esq.	5	0 9	245 $\bar{\tau}$	19.23	...
D Newport (Debden Rectory)	Rev. Canon F. H. Fisher	5	3 0	300	21.81	164
D „ (The Vicarage)	Rev. G. F. Tamplin ...	5	3 6	208 $\bar{\tau}$	20.94	161
„ (Wood Hall)	Charles Beadle, Esq. ...	5	1 0	380	20.78	...
D Saffron Walden	S. Leverett, Esq.	5	1 0	201 $\bar{\pi}$	19.99	175
D „ „ (Audley End) ...	Mr. J. Vert	5	1 0	155 $\bar{\tau}$	20.04	186
D Bulmer Lodge [Sudbury].....	The Misses Burke	5	1 3	200 $\bar{\tau}$	19.45	185
SUFFOLK.						
$\text{D}\S$ Felixstowe (West View)	S. Alexander, Esq.	5	1 0	70	20.28	168
D Erwarton Hall [Harwich]	late J. A. Hempson, Esq.	8	0 6	75	22.56	157
East Bergholt (Ackworth House)	A. Harwood, Esq.	8	1 6	145	17.15	187
D Ipswich (Woolverstone Park) ...	C. H. Berners, Esq. ...	8	1 0	100 $\bar{\tau}$	20.23	168
D „ (Orwell Park)	Mr. J. Wallis	8	1 0	60 $\bar{\pi}$	20.59	158

DIVISION IV.—EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with .01 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
NORFOLK.						
Thetford (King's House)	H. F. Killick, Esq. ...	5	1 0	70	21.87	...
D ,, (Waterworks)	Mr. E. S. Greenwood...	8	1 0	170 T	21.43	165
D Santon [Brandon]	A. W. Preston, Esq....	5	0 10	32	22.04	182
Ellingham [Beccles]	H. Youngman, Esq. ...	5	3 0	...	20.26	...
D§ Geldeston [,,]	E. T. Dowson, Esq. ...	5	1 0	38 T	21.50	188
§ ,, [,,]	„ „ „	8	1 0	38 T	20.41	...
D Long Stratton (The Beeches, Fritton)	Miss Wainwright	5	1 0	120 T	23.67	230
D Raveningham Hall [Beccles] ...	N. H. Bacon, Esq. ...	8	1 3	...	22.62	164
D Saxlingham Nethergate	Mrs. Pitt	5	1 5	...	22.23	185
D Wymondham	J. B. Pomeroy, Esq. ...	8	1 3	118 T	25.52	209
Watton	R. Martin, Esq.	5	1 0	166 T	24.32	183
D Hingham	G. K. Dobbs, Esq.	5	1 1	188 T	24.14	203
D Norwich (Dunston Hall)	A. W. Preston, Esq....	...	...	...	23.27	171
D Stoke Ferry (Wereham)	G. Read, Esq.	5	2 3	66 T	24.93	182
Keswick Old Hall	E. Knight, Esq.	5	1 0	...	23.95	199
Hethersett (Thickthorn)	Miss V. Evans-Lombe.	5	0 9	100 T	22.82	150
Outwell Sluice	A. Lunn, Esq., C.E. ...	9	...	16	21.21	164
Moulton	A. W. Preston, Esq....	4	...	...	23.12	...
Emneth	F. M. Bland, Esq.	6	1 0	6	19.89	...
§ Yarmouth (Sailors' Home)	Meteorological Office...	8	4 0	12	22.59	183
D ,, (Market Place)	W. C. Steward, Esq....	5	1 0	...	24.19	195
Norwich (Postwick Hall)	Miss E. M. Cross	5	1 1	5	24.39	187
D ,, (Carrow House)	Miss Colman	5	1 3	35 T	22.82	156
D§ ,, (Brundall)	A. W. Preston, Esq....	5	1 0	66 T	22.96	205
D ,, (Ipswich Road)	J. H. Willis, Esq.	5	1 0	110 T	23.79	208
D ,, (Heigham)	A. W. Preston, Esq....	5	3 2	37 T	22.86	186
D Acle	„ „ „	5	0 6	51	23.07	198
D Swaffham	W. H. Plowright, Esq.	5	5 0	250 T	23.44	176
„ (Homewood)	F. Everett, Esq.	5	2 6	210	27.39	207
D Honingham	A. W. Preston, Esq....	...	...	...	23.00	209
D Sprowston (Oak Lodge)	T. Cozens Hardy, Esq.	5	1 0	101 T	24.29	204
East Dereham	G. H. Cooper, Esq. ...	8	3 0	161	23.49	162
D Yarmouth (Ormesby St. Michael)	Gt. Yarmouth W. W. Co.	8	1 0	21 T	25.32	197
D Sporle	A. W. Preston, Esq....	...	...	...	25.73	217
D Swaffham (Dunham)	„ „ „	5	1 1	320	25.36	205
D Drayton .....	„ „ „ .....	...	...	...	28.57	202
Wiggenhall (Outlet Syphons) ..	A. Lunn, Esq., C.E. ...	8	1 6	...	21.37	154
D Middleton Vicarage	Rev. H. E. Bishop	5	2 0	114 T	24.65	155
D Bylaugh Park Gardens	Mr. G. Beeton	5	1 0	130 T	25.63	185
D Reepham (Whitwell Vicarage) ..	Rev. R. Freeman	8	1 6	130 T	24.89	202
Aylsham (Woodgate)	R. J. W. Purdy, Esq. ...	5	1 0	100 T	26.45	168
D North Walsham (Dilham)	A. W. Preston, Esq....	5	0 8	...	26.84	225
„ „ (Worstead)	R. Cross, Esq.	8	1 0	...	27.75	193
D Stalham (East Ruston Grange) ..	W. S. Horn, Esq.	5	1 0	15 T	24.36	174
D§ Hillington School	Rev. H. Ffolkes	5	3 6	93 T	22.67	195
Sandringham House	Mr. T. H. Cook	5	1 1	121 T	23.75	175
Fakenham (Pensthorpe)	C. S. Hamond, Esq. ...	5	2 6	153	22.95	...
West Rudham	W. S. Freuer, Esq. ...	5	0 10	...	24.11	...

DIVISION IV.—EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with .01 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level		
		in.	ft. in.	feet.	inches.	
NORFOLK—(con.)						
D Holt.....	A. W. Preston, Esq. ...	5	1 3	...	23·61	182
Cromer (Northrepps Hall)	Mrs. R. Gurney.....	5	0 4	200	25·90	206
„	W. H. Archer, Esq. ...	8	1 0	197 T	19·47	218
Blakeney	C. I. Temple Lynes, Esq.	5	1 3	29	21·27	186
Wells (Holkham Hall)	Earl of Leicester, K.G.	12	4 0	39	20·95	...

DIVISION V.—SOUTH WESTERN COUNTIES.

WILTSHIRE.

Landford (Northlands)	Mrs. Wigram	5	1 10	167 T	25·22	148
D Donhead St. Mary (Charlton Ho.)	Lord Wynford	5	0 7	514	28·40	171
Berwick St. John (Ferne)	Col. A. H. Charlesworth	5	1 0	500	30·54	...
Broadchalke Vicarage	Rev. E. J. Satterthwaite	5	1 0	300 T	24·72	...
D Longford Castle.....	The Earl of Radnor ...	5	1 0	141 T	26·84	150
D Alderbury	Rev. Canon Hutchings.	5	0 8	263 T	25·78	153
Tisbury (The Academy)	J. Bristol, Esq.	5	0 9	380 T	29·82	...
D East Knoyle ..	E. H. Miles, Esq.	5	1 0	560 T	27·67	161
D Salisbury (Ardath)	T. Awdry, Esq.	5	1 0	225 T	26·02	149
D „ (Brown Street)	T. H. Baker, Esq.	5	1 0	155	27·39	181
D „ (De Vaux Lodge)	H. Peniston, Esq.	5	1 0	150	26·46	177
D „ (London Road)	Frank Dell, Esq.	5	4 6	220 T	24·41	139
D „ (Wilton House).....	T. Challis, Esq.	8	0 6	180 T	27·69	161
Stratford-sub-Castle(TheManorHo.)	J. Carpenter, Esq.....	5	0 9	165 T	23·58	...
§ Winterslow (Roche Court) No. 1	T. T. S. Metcalfe, Esq.	5	1 0	459 T	28·02	191
D§ „ („ „) No. 2	„ „ „ „	5	1 0	459 T	27·75	191
Mere (The Limes).....	E. Bracher, Esq.	5	1 0	300 ?	26·62	...
„ (Dews House)	Miss E. B. Rutter	5	1 7	384	26·27	136
„ Vicarage	Rev. J. A. Lloyd	5	3 0	370	26·49	...
D „ (Charnage)	A. R. White, Esq.....	5	1 0	426 T	25·62	148
Maiden Bradley	The Duke of Somerset.	8	1 6	626 T	32·38	173
D Warminster (Rye Hill).....	S. E. Jefferys, Esq.....	8	2 0	466 T	28·12	186
Salisbury Plain (Chitterne House)	R. Hayward, Esq.	11	4 0	319 T	24·10	149
D „ „ (Shrewton)	F. J. Wardale, Esq. ...	5	0 9	322	27·80	172
D Warminster (Downside)	Mrs. Stent	8	2 3	393	25·33	150
„ (Rock Villa)	J. Wallis Titt, Esq. ...	5	4 0	400 T	30·32	...
Market Lavington	<i>Devizes Advertiser</i> .....	...	...	...	27·13	..
D Ludgershall (Conholt Park).....	E. A. Wigan, Esq. ...	5	1 3	800 T	29·33	186
„ (Collingbourne Kingston)	Baldwin Latham Esq. CE	5	1 0	470 T	25·32	...
D Trowbridge (Water Works, Biss)	W. W. Gray, Esq., C.E.	5	1 0	311	27·79	156
D „ (Rood Ashton)	Mr. W. Strugnell	8	1 6	250	25·05	164
D Devizes (Chirton)	Mr. T. Selfe	5	3 0	370	25·19	162
D Bradford (The Chantry)	Dr. Beddoe, F. R. S. ...	5	0 9	125	22·61	157
D „ (Winsley Manor)	E. W. Knatchbull, Esq.	5	0 6	400	23·74	174
„ (Bearfield House)	G. A. R. FitzGerald, Esq.	5	1 10	290 T	24·92	141
D „ (Holt)	A. J. Beaven, Esq. ...	5	1 2	120	25·11	185
D Devizes (Wilts Co. Asylum) ...	Dr. Ireland Bowes.....	8	2 3	385 T	25·75	157

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with ≥ 0.1 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
WILTSHIRE—(con.)						
D Buttermere Rectory	Rev. W. E. Burkitt ...	5	3 6	847	28.27	141
Pewsey (Stowell Park)	J. H. Smith Barry, Esq.	5	1 0	450	24.23	...
D Shalbourne (West Court)	Mr. T. Barns	5	1 0	640 ?	26.96	167
D Bishops Cannings	Rev. C. W. Hony	5	1 0	446 ∇	27.88	168
D Devizes (Shepherd's Shore)	Mr. J. Carter	5	1 6	555 \uparrow	27.44	158
Chippenham (Langley Burrell)..	Rev. A. B. Mynors ...	8	1 2	250	26.61	152
D " (Kington Langley)..	H. H. Palairt, Esq. ...	8	1 0	270	25.18	173
Marlborough (Preshute House)..	Mr. G. E. Mew	5	0 9	...	23.96	...
" " (College)	Royal Meteorological Soc	5	1 0	425	25.27	194
D " (Mildenhall)	Rev. Gordon Soames ...	5	1 0	456	25.38	148
D Calne (High Street)	H. Wilkins, Esq.	5	3 6	244 \uparrow	22.90	147
D " (Compton Bassett)	Capt. J. Heneage	8	1 0	400 \uparrow	24.72	194
Yatesbury	Rev. E. D. Guilleband.	5	0 9	564 ∇	27.89	142
D Ramsbury (The Mead)	Miss M. P. McDonald..	5	1 0	398 \uparrow	26.37	160
D Wootton Bassett	H. Bevir, Esq.	5	1 6	422 \uparrow	25.10	160
D New Swindon	H. J. Southwell, Esq. ...	8	0 11	378	23.67	160
§ Malmesbury	Royal Meteorological Soc	5	1 0	236	24.90	172
Highworth (Hannington Hall)...	A. D. Hussey-Freke, Esq	5	1 0	375	23.80	158
DORSETSHIRE.						
§ Portland Bill (High Light)	Meteorological Office ...	8	1 0	177	21.62	171
Swanage (Worth Matravers) ...	Dorset Field Club	5	1 0	400	27.51	163
Weymouth (Wyke Regis)	Mrs. Pretor	5	1 0	158 B	22.88	145
D § " (The Nothe)	I. J. Brown, Esq.	5	1 0	25	21.61	141
D " (Massandra)	H. W. Green, Esq.	5	1 6	...	25.25	184
Swanage (Royal Victoria Hotel)	H. B. Vincent, Esq. ...	5	1 11	26 ∇	24.77	155
East Fleet (Fleet House)	Dorset Field Club	5	1 2	48	22.25	...
Chickerell (Montevideo)	" " " "	5	1 0	150	22.15	171
West Lulworth Vicarage	Rev. W. Percy Schuster	5	1 0	128 ∇	26.06	...
D Abbotsbury (New Barn)	J. C. P. White, Esq. ...	5	1 6	111 \uparrow	22.27	168
D Upwey (Portland W. W.)	R. S. Henshaw, Esq. C.E.	8	1 0	290 ∇	24.16	184
D Wareham (Holme)	Gerald D. Bond, Esq. ...	5	0 7	24	27.98	149
" (Stoborough)	Dorset Field Club	5	1 5	20	27.14	153
D Winterbourne Herringstone	R. B. White, Esq.	5	3 1	200	26.57	142
D Wareham (Castle Gardens)	S. W. Bennett, Esq. ...	5	2 6	18	28.31	172
" (Binnegar Hall)	Lt.-Col. P. Farrer	5	1 0	65	28.41	...
Abbotsbury (Littlebredy)	Dorset Field Club	5	0 6	350	29.48	161
D Winterbourne Steepleton	H. Stilwell, Esq.	8	1 0	316 ∇	31.20	174
D Dorchester Water Works	G. J. Hunt, Esq.	8	1 2	315 ∇	27.65	170
D " (Wollaston House) ...	Capt. J. E. Acland	5	1 0	200 ∇	28.15	168
D Poole (Parkstone, Poole Road)...	W. Symes, Esq.	5	1 3	160	25.05	156
D Lyme Regis (Colway Cottage)...	Dr. J. Spurr	5	1 0	250	25.61	170
Bridport (Coneygar)	H. Gordon, Esq., C.E..	5	1 0	110 \uparrow	26.81	143
Puddletown	Dorset Field Club	5	1 0	190	27.65	...
D Bere Regis Vicarage	Mr. A. Lucas	5	1 0	120	24.87	137
" " (Bloxworth Rectory).	Rev. O. P. Cambridge FRS	5	1 6	205 \uparrow	26.52	...
D " " (" " House)...	Mr. F. G. A. Lane	5	1 6	118	27.35	155

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with '01 or more recorded.
		Diameter	Height Above Ground.	Height Above Sea Level		
		in.	ft. in.	feet.	inches.	
DORSETSHIRE—(con.)						
D Bere Regis (Longthorns)	Mr. S. Smart	5	1 0	...	29·10	148
D Maiden Newton (Cattistock Lodge)	E.S. Wilmot-Sitwell Esq	5	0 6	350 T	33·19	206
D Sturminster Marshall (Bailie Ho.)	Rev. J. Cross	5	0 6	85	25·31	167
" " (")M	" " .....	...	...	85	25·05	...
D Wimborne (Codford)	GHBatterbury, Esq. MD	5	0 9	69 T	28·33	153
" (Westfield)	Judge Philbrick	5	1 0	80	28·38	...
" (Park Homer)	Mrs. Paget	5	0 6	...	27·70	196
D Beaminster Vicarage	Rev. A. A. Leonard ...	5	1 0	216 T	30·12	170
" (Fleet Street)	J. Andrews, Jun., Esq.	5	1 0	200 T	29·92	160
D Broadwindsor Vicarage	Rev. G. C. Hutchings..	5	0 7	540 T	31·30	168
D " (Blackdown House)	C. E. M. Pinney, Esq..	5	0 9	515	32·42	176
Winterbourne Houghton	Rev. H. H. T. Bassett.	8	0 6	450	28·87	...
Cerne Abbas (Melbury House)...	Mr. R. Rintoul	5	1 6	500	30·35	...
D Chedington Court	Mr. H. Birkinshaw ...	5	1 0	605	30·31	159
D Chetnole	Col. E. F. Chadwick ...	5	1 0	227 A	29·72	166
D Wimborne (Horton Vicarage) ...	Rev. G. Wellington ...	5	1 0	133 T	24·36	150
Verwood Manor	W. R. Fryer, Esq.....	5	3 0	180	22·61?	...
D Holwell (Westrow)	Mr. G. Coffin	5	1 0	252	28·82	152
Iwerne Courtney (Shroton)	Admiral R. Stopford ...	5	1 2	200 T	27·46	...
Sturminster Newton (Riverside).	A. R. Hallett, Esq. ...	5	5 0	200	25·62	...
" " Rectory ...	Dorset Field Club	5	2 7	180	23·82	...
D Sherborne Castle	Mr. T. Turton	5	1 0	195 T	24·96	158
§ Shaftesbury	Royal Meteorological Soc	5	1 2	722	24·16	176
D Buckhorn Weston	Rev. W. Hughes D'Aeth	5	1 0	285	21·84	153
D Gillingham	S. H. Stephens, Esq....	5	1 2	244 T	24·95	156
D " (Milton-on-Stour) ...	L. B. Matthews, Esq... 8	8	1 2	250	24·53	173
SOUTH DEVON.						
D Salcombe (Sandhills)	W. H. Pike, Esq.	5	1 0	118	29·39	166
§ "	Royal Meteorological Soc	5	1 0	111	31·50	166
South Huish	W. Balkwill, Esq.....	5	5 6	68 T	31·12	...
Kingsbridge (Westcombe)	T. W. Latham, Esq....	5	1 0	100	36·20	173
D Start Bay (Slapton)	Horace G. Morgan, Esq.	5	1 0	130	34·27	185
D Revelstoke (Membland)	Mr. G. Baker	5	1 0	180 T	32·65	142
Dartmouth (Redlap House)	L. Karlake, Esq.	5	1 1	220 T	30·16	170
D Ermington (Strode)	H. Gore Hawker, Esq.	5	1 0	125 B	33·45	157
D† Plymouth (The Hoe)	H. V. Prigg, Esq., C.E.	8	0 10	117 A	30·49	176
" (Freedom Fields)	" " "	8	0 10	208 A	32·32	207
D " (Drake's Reservoir)...	F. Howarth, Esq., C.E.	5	1 0	149 A	31·48	169
D Devonport (Rowdens Res.)	H. Francis, Esq., C.E.	5	1 0	201 A	27·85	180
D Ivybridge (Langham Hill)	Miss Glanville	5	1 0	400 T	40·54	179
" (Blackadon Asylum)..	H. V. Prigg, Esq., C.E.	5	1 0	607	46·37	207
D South Brent (Great Aish)	Miss Kingwell	5	1 0	500 T	52·19	174
D Totnes (Berry Pomeroy)	C. Barran, Esq.	5	1 0	185 A	34·58	152
Bere Ferrers	Rev. F. T. W. Wintle.	5	1 0	100	39·42	189
D Bickley (Roborough Reservoir)..	F. Howarth, Esq., C.E.	5	1 0	548 A	37·30	197
§ Torquay (Princess Gardens) ...	F. March, Esq.	5	1 0	12	27·95	148
D§ " (Cary Green)	" "	5	1 0	12	27·88	148

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with ≥ 0.1 or more recorded.
		Diameter.	Height Above Ground.	Height Above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
SOUTH DEVON—(con.)						
Lee Moor Clay Works	T. Martin, Esq.	8	1 6	950 T	49.13	...
§ Buckfastleigh (Bossell Park) ...	J. Hamlyn, Esq.	5	1 6	250	48.03	167
Yelverton	Dr. H. J. S. Liddell ...	5	7 0	627 T	49.05	188
Sheepstor	M F. Howarth, Esq., C.E.	5	1 0	1024 T	44.14	...
D " (Red Stone)	" " "	5	1 0	763 T	51.68	210
D " (Burrator)	" " "	5	1 0	755	51.14	210
D " (Head Weir)	" " "	5	1 0	720	46.66	210
D Dartmoor (Lowery)	H. Francis, Esq., C.E.	5	1 0	890 T	43.93	207
D " (Deancombe Farm) ...	F. Howarth, Esq., C.E.	5	1 0	830 T	43.49	179
D " (Leather Tor Farm) ...	" " "	5	1 0	910 T	45.67	193
" (Siwards Cross)	" " "	5	1 0	1200 T	49.72	...
" (Cramber Tor)	M " " "	5	1 0	1435 T	38.68	...
D Kingskerswell (Barton Hall) ...	Capt. H. Langford Brown	8	1 2	360 T	25.53	152
D " (South Hill)	E. A. Foster, Esq. ...	5	1 0	270 T	27.96	156
D Abbotskerswell (Court Grange) ..	Mrs. Marcus Hare	5	1 1	150 B	35.28	182
D Ashburton (Holne Vicarage) ...	Rev. J. Gill	5	1 6	650 B	51.45	191
D § " (Druid House)	P. F. S. Amery, Esq. ...	5	1 0	572 T	40.81	165
D Newton Abbot (The Chestnuts) ..	E. D. Wylie, Esq.	5	0 6	100 T	29.33	150
D " " (Tuplins)	W. G. Aspland, Esq. ...	5	1 0	22 T	28.56	168
Teignmouth (Bitton Street)	W. C. Lake, Esq., M.D.	5	1 0	70	28.25	156
D " (Woodlands)	W. B. Harris, Esq. ...	8	1 2	98	27.25	164
" (Bank Street)	Mr. G. Rossiter	5	1 0	20 T	26.93	147
" (Bonnieliff)	Capt. J. Horner	5	1 0	260 T	28.39	169
D " (Coombe Bank)	P. A. Gore, Esq.	5	1 0	100	28.34	168
D § Tavistock (Statsford, Whitchurch)	E. E. Glyde, Esq.	5	1 0	594 T	41.93	212
D " (Public Library)	Mr. J. Quick	8	20 0	283 T	36.00	198
D Princetown (Huccaby House) ...	R. Burnard, Esq.	5	0 11	900 T	49.99	192
† "	H. Francis, Esq., C.E.	5	1 0	1390 T	66.85	...
§ "	Royal Meteorological Soc	5	1 0	1360	67.06	193
Dartmoor (Leeden Tor)	M F. Howarth, Esq., C.E.	5	1 0	1270 T	40.08	...
" (N. Hessary Tor, No. 1) ..	" " "	5	1 0	1625 T	45.20	...
† " (Cowsic Valley)	H. Francis, Esq., C.E.	8	1 6	1352 T	58.20	..
† " (Black Dunghill) No. 5 ..	" " "	8	1 0	1590 T	41.00	...
† " (Beardown Tor) No. 3 ..	" " "	8	1 0	1550 T	38.00	...
† " (White Tor)	" " "	8	1 0	1640 T	40.85	...
† " (Devil's Tor)	" " "	8	1 0	1785 T	41.20	...
† " (Cowsic Head) ... No. 4 ..	" " "	8	1 0	1580 T	46.05	...
Marytavy Rectory	Rev. Irvine K. Anderson	8	1 0	560 T	43.38	...
D Chudleigh (Ideford Rectory) ...	Rev. G. J. Ford	4	1 0	300 T	28.47	177
D Bovey Tracey (Colehays)	Mr. G. Heath	5	1 0	400	39.47	194
Milton Abbot (Endsleigh)	Mr. F. Yole	5	1 0	180 T	38.42	...
Lifton (Kelly House)	Rev. Maitland Kelly ...	8	2 6	462 T	38.22	192
D Starcross (Cofton Vicarage)	Rev. C. F. Benthall ...	5	1 9	60	26.72	142
D Exmouth (Nidderdale)	Mrs. Herbert Stewart ..	5	1 0	51	25.15	147
D " (Manor Grounds)	S. Hutton, Esq., C.E. ...	5	1 0	13	25.64	158
" (Filter Beds)	" " "	8	8 6	195	27.07	175
Chudleigh (Trusham)	Rev. O. H. Cary	4	0 6	322 T	28.49	156

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with $\cdot 01$ or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
CORNWALL—(con.)						
D Falmouth (Carelew)	Mr. J. Simmons.....	5	0 9	...	36·01	141
Phillack Rectory	Cornwall County Council	5	1 0	70 $\bar{\pi}$	28·87	144
St. Ives	" " " " " "	5	4 0	60 $\bar{\pi}$	26·65	...
Camborne	Rev. G. B. Hooper.....	8	3 0	317 T	32·00	...
D Redruth (Trevince)	E. B. Beauchamp, Esq.	8	0 8	240 T	36·95	203
D " (Tolvean)	A. Lanyon, Esq.....	5	0 9	365	36·17	188
D " (Trewirgie)	A. P. Jenkin, Esq.....	5	1 0	399 $\bar{\pi}$	37·58	225
D " (Tehidy Park).....	Mr. A. Mitchell.....	8	1 1	287 $\bar{\pi}$	33·85	204
D Truro (Killiow).....	J. C. Daubuz, Esq.....	5	1 0	230 T	35·09	182
" (Royal Institution).....	Cornwall County Council	5	43 0	83 $\bar{\pi}$	34·08	188
D " (W. W., Lower Tregurrow)	W. J. Lean, Esq.	5	9 0	71 $\bar{\pi}$	32·96	148
D " (Agar Villa)	C. Barrett, Esq.....	5	3 9	50 B	36·41	178
D Probus (Lamellyn).....	H. Tresawna, Esq.....	5	0 6	230	31·23	152
St. Agnes	W. Whitworth, Esq....	5	4 6	318	29·92	194
D Fowey (Menabilly)	Mr. W. H. Bennett ...	5	1 0	150	38·07	156
D Talland (Polperro).....	H. E. Butler, Esq.....	5	1 0	120	33·74	202
D St Austell (Trevarna)	W. M. Coode, Esq. ...	5	0 6	300 T	39·64	192
D Par Station (Torfrey)	W. G. Mills, Esq.....	5	0 6	300	33·89	158
Empacombe [Devonport]	J. Sandercock, Esq. ...	5	0 6	20 T	32·04	174
D Cremyll [Devonport].....	W. Wonnacott, Esq....	5	20 0	25	30·30	189
D St. Germans (Trethill)	Lt.-Col. J. D. A. Roberts	5	2 0	200 B	28·95	169
D Looe (Morval).....	Miss Florence Tremayne	5	1 0	150 T	37·90	175
" (Bray St. Germans)	Mrs. George Sneyd ...	5	1 0	550 T	30·86	185
D St. Austell (Bunney Mine)	E. J. Howard-Wright Esq	5	1 2	900 T	51·02	200
D Lostwithiel (Lanwithan)	Miss Foster.....	6	1 0	80	38·92	163
D Menheniot (Coldrenick House)...	E. Jago, Esq.....	5	1 0	...	39·39	216
Newquay (Reservoir)	Dr. C. C. Vigurs	5	1 0	210	25·01	...
D "	" " " " " "	5	1 0	100	23·64	191
D Roche (Glencoe).....	S. Browne, Esq.....	5	0 9	602 T	41·77	210
D† Liskeard (Trevillis)	L. C. Foster, Esq.....	5	1 0	320 $\bar{\pi}$	33·10	192
D " (Dean Terrace)	S. W. Jenkin, Esq., C.E.	5	1 1	400 $\bar{\pi}$	42·03	208
D St. Wenn (Trewollack).....	W. H. L. Shadwell, Esq.	8	1 0	251 T	36·35	210
Saltash (Pentillie Castle)	Mr. W. T. Johnson ...	5	2 4	150 B	40·69	185
D St. Mellion Rectory	Rev. F. T. Wintle.....	5	1 0	400 T	38·17	196
D Bodmin (Treledan)	H. D. Foster, Esq. ...	5	0 5	290	44·22	215
D " (Springfield)	Rev. Prebendary Every	5	0 9	480 T	44·71	217
Liskeard (St. Cleer Down)	S. W. Jenkin, Esq., C.E.	5	1 1	620 T	34·06	...
D Callington (Pencrebar).....	Miss E. L. Horndon ...	5	1 9	450 T	34·32	194
" (Mount Lodge)	G. Brown, Esq.....	8	1 0	400	41·97	183
D St. Mabyn (Pencarrow).....	Mr. A. C. Bartlett.....	5	1 0	...	37·04	220
Callington (Drakewalls)	Mr. C. A. Wadge	5	4 0	650 T	37·52	183
D Launceston (Landue)	Miss S. E. Tregoning...	5	0 11	225 T	37·33	202
D Altarnon Vicarage.....	Rev. A. H. Malan	5	1 0	620 $\bar{\pi}$	50·74	232
D Launceston (Tamar Terrace) ...	Captain L. Ching, R.N.	5	0 10	446	36·93	185
Egloskerry (Tregear)	E. G. B. Lethbridge, Esq.	5	1 0	575	39·80	...
North Tamerton (Ogbeare)	Mr. J. S. Bray	5	5 0	460 T	30·48	171
Stratton (Poughill)	Cornwall County Council	...	...	200	30·66	223

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with .01 or more recorded.
		Diameter	Height Above Ground	Height Above SeaLevel	1905	
		in.	ft. in.	feet.	inches.	
SOUTH SOMERSET.						
Chard (Tatworth)	Rev. H. Stuart King ...	5	1 3	347 ∇	35.97	169
Cricket St. Thomas	Mr. S. Lyon	5	1 0	444	28.69	...
D Crewkerne (Bincombe House) ...	Miss Sparks	5	1 2	293 \uparrow	28.00	152
D " (Merefield House) ...	J. Tompsett, Esq.	8	14 5	240 ∇	29.69	172
Ilminster (Laurel Bank)	W. Beckwith, Esq. ....	...	...	180 \uparrow	25.35	...
D " (Whitelackington) ...	S. Creed, Esq.	5	3 0	200 ∇	25.63	145
D Yeovil (Gas Works)	E. Howell, Esq.	5	22 0	122 \uparrow	22.80	143
D " (Sew. Wks., Pen Mill) ...	Dr. H. Page	5	1 0	101 ∇	23.09	151
D " (Kingston)	J. H. Burt, Esq.	5	6 0	186 \uparrow	24.00	154
South Petherton (Yeabridge) ...	Miss E. F. Blake	8	0 9	100 \uparrow	22.46	...
Henstridge	Mr. G. H. Hacker	5	1 1	270 \uparrow	26.28	144
Taunton (Blagdon Reservoir) ...	H. T. Coles, Esq.	8	1 6	590 ∇	30.10	...
" (Leigh Reservoir)	" " " "	8	1 6	525 ∇	28.87	...
D " (Leigh Court)	A. Eastwood, Esq.	8	1 0	350 \uparrow	27.85	174
D " (Ashleigh)	W. A. Gunner, Esq. ...	5	1 0	78 B	21.96	166
" (")	" " " "	5	12 6	78 B	20.69	155
D " (Linden Grove)	H. Le B. Gunner, Esq. ...	5	1 0	70	22.76	181
D Wellington (The Avenue)	F. J. Burnett, Esq. ...	5	1 0	254 \uparrow	25.51	188
Rimpton	H. H. G. Andrews, Esq. ...	8	0 10	100	26.56	...
Temple Combe Rectory	Rev. J. C. Fox	5	0 6	215	27.02	188
D Milverton (Spring Grove)	C. Roberts Gawen, Esq. ...	5	0 8	500 \uparrow	28.40	188
" (Olands)	Rev. P. P. Broadmead. ...	5	1 0	330 \uparrow	29.45	170
Taunton (Staplegrove)	C. Lewis, Esq.	8	1 9	108 B	24.32	147
Langport (Huish Episcopi)	Miss Beatrice Kelway..	8	1 1	30 ?	19.07	...
D " (The Grange)	Dr. H. Page	5	1 0	50 ∇	22.66	212
D Maperton Rectory	Rev. D. E. Norton	5	1 0	367 ∇	27.41	241
D North Cadbury Rectory	Rev. H. A. Boys	8	1 3	256 ∇	24.56	186
D Wincanton	Rev. Walter Farrer ...	5	1 0	300	26.83	195
Cofhelstone House	C. E. J. Esdaile, Esq. ...	5	1 0	430	27.17	180
D North Petherton (The Old Rectory) ...	E. C. Curtis, Esq.	8	0 6	136 ∇	24.49	187
Winsford Vicarage	Rev. Preb. Anderson ..	5	1 2	623	38.30	...
Exford (North Ley)	Mr. F. G. Heal	5	5 6	1000	39.39	...
D Simonsbath	Rev. H. F. Ramsey ...	5	1 3	1080 \uparrow	53.49	221
Bridgwater (Nurseries)	H. Corder, Esq.	5	1 0	30 ?	24.20	171
D " (Ashford)	F. Parr, Esq., C.E. ...	5	1 5	102 ∇	25.20	155
Cannington (Brymore)	W. Kendall, Esq.	5	1 6	65 \uparrow	26.75	...
Quantockshead (St. Audrie's Rec.) ...	Rev. H. Cooper	5	2 2	405 \uparrow	26.20	160
D Holford (Woodlands House) ...	Miss I. L. Joseph	5	1 0	391 \uparrow	27.90	179
Dunster (Alcombe)	Rev. J. Utten Todd ...	5	1 0	85	24.33	152
Stockland Bristol Manor House..	Rev. H. A. Daniel	5	1 0	65	24.25	...
Porlock (Bossington)	J. Dyke Acland, Esq. ...	5	1 3	44 \uparrow	27.59	161
NORTH SOMERSET.						
D Somerton (Butleigh Court)	R. Neville Grenville Esq. ...	8	1 2	80	26.51	148
Bruton (King's School)	D. E. Norton, Esq.	5	1 2	210	27.53	...
D Street	W. S. Clark, Esq.	8	0 6	100	26.92	177

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with .01 or more recorded.
		Diameter	Height Above Ground.	Height Above Sea Level		
		in.	ft. in.	feet.	inches.	
NORTH SOMERSET—(con.)						
Glastonbury (Wells Road)	J. Spire, Esq.	8	7 0	94 $\bar{\pi}$	23·18	164
D Shepton Mallet (Pilton)	J. Dredge Allen, Esq. ...	5	1 3	450 ?	27·30	170
D Glastonbury (Ynyswytryn)	Mrs. Swayne	5	1 8	245 $\bar{\Gamma}$	25·06	160
D Cranmore (Southill House)	S. Poyntz-Wright, Esq. ...	5	1 0	635 $\bar{\Gamma}$	31·11	199
D " Hall	Rt Hon Sir R H Paget, Bt. ...	8	1 0	600 $\bar{\Gamma}$	32·42	196
D Shepton Mallet (Charlton)	C. E. Burnell, Esq. ...	5	1 0	481 $\bar{\pi}$	30·06	188
D " " (Field House) ...	F. H. Berryman, Esq. ...	5	1 0	500	31·81	181
D " " (Grammar School)	William Aldridge, Esq. ...	5	1 0	475	29·60	193
D " " (Sewage Farm) ..	C. Hale, Esq.	5	0 9	310 $\bar{\pi}$	31·01	178
Wells (Blue School)	<i>Shepton Mallet Journal</i> ...	...	...	140	25·01	...
D " (The Deanery Gardens) ...	Mr. A. King	5	1 0	170 $\bar{\pi}$	27·14	167
D " (Somerset & Bath Asylum) ..	Rev. J. J. Downes	5	1 0	300	27·64	177
D Frome (Mells)	Miss E. G. Horner	5	1 0	342 $\bar{\pi}$	27·21	180
D " (Orchardleigh)	Rev. W. A. Duckworth	8	0 10	303 $\bar{\Gamma}$	23·97	172
D " (Beckington)	E. M. Nelson, Esq. ...	8	1 3	270 $\bar{\pi}$	24·41	163
Downside Abbey	Rev. F. P. Whiteside ...	8	1 0	600 $\bar{\Gamma}$	30·50	165
D Chewton Mendip (The Priory) ...	The Earl Waldegrave ..	5	1 5	550 $\bar{\Gamma}$	34·71	200
D " " (Waldegrave Ho.) ..	J. Hansford Hill, Esq. ...	10	4 6	450	32·41	...
Ston Easton	H. E. Hippisley, Esq. ...	5	3 0	480 $\bar{\pi}$	30·30	170
E. Harptree (Sherborne Reservoir) ..	Bristol Water Works ...	5	1 0	338 $\bar{\Gamma}$	29·48	161
D " " (Harptree Court)	W. W. Kettlewell, Esq. ...	5	1 0	346 $\bar{\pi}$	33·61	171
Axbridge (Loxton Rectory) ...	Rev. J. E. Page	9	1 0	...	27·88	170
" (Winscombe Court) ...	Rev. R. F. Follett	8	1 0	180 $\bar{\Gamma}$	24·92	...
Blagdon (Nordrach-on-Mendip) ..	R. Thurnam, Esq., M.D. ...	5	0 4	862 $\bar{\pi}$	37·26	...
D Hallatrow Court	Sir J. A. Woolfryes, KCB ...	5	1 0	316 $\bar{\Gamma}$	30·59	202
Camerton Court	Miss Jarrett	5	1 0	340 $\bar{\pi}$	27·82	...
D Temple Cloud	Dr. Theodore Martin ...	5	1 0	340 $\bar{\Gamma}$	29·56	192
D High Littleton Vicarage	Rev. A. M. Foster	5	1 0	442 $\bar{\pi}$	26·80	190
D Winscombe (The Down)	J. Grubb, Esq.	5	1 0	295 $\bar{\Gamma}$	28·66	175
D Hutton Rectory	Rev. W. F. Rose	5	1 0	75 ?	26·52	159
Blagdon	Bristol Water Works ...	8	0 8	115 $\bar{\pi}$	30·96	174
D Pensford (Sutton Court)	Sir E. Strachey, Bt. M.P. ...	8	1 0	280	27·38	190
D Churchill (Springfield)	S. B. Pumphrey, Esq. ...	5	1 1	...	23·13	144
D Weston-spr.-Mare (Leycroft Ho.) ..	C. Brown, Esq.	8	1 0	15	24·97	154
§ " " " (Town Hall) ...	Royal Meteorological Soc ...	5	1 0	21	23·22	148
D " " " (Beaufort Rd.) ..	W. A. Fussell, Esq. ...	7	5 0	23 $\bar{\Gamma}$	24·71	161
D " " " (Worle)	Dr. St. John Kemm ...	5	1 0	...	23·39	186
Bath (Combe Hay Manor)	F. G. Smart, Esq.	5	1 0	...	27·69	179
D Wrington (The Rectory)	Rev. G. M. Ashdown ...	5	5 0	68	25·90	150
D " (West Hay)	Miss Mary B. Harrison ...	5	2 0	100 $\bar{\Gamma}$	26·41	145
Chew Magna	Bristol Water Works ...	5	1 4	180 $\bar{\Gamma}$	27·76	172
D Pensford Vicarage	Rev. H. H. Tripp	5	1 0	245 $\bar{\pi}$	24·57	199
Bath (Royal Institution)	The Librarian	6	8 0	75	22·75	...
D § " (Henrietta Park)	Dr. W. H. Symons ...	5	1 0	67 $\bar{\pi}$	22·79	158
D " (Statutory Hospital)	" " "	5	1 0	520	26·42	157
D " (Kingswood School)	" " "	5	1 0	620 $\bar{\pi}$	24·28	146
D " (Hampstead, Combe Park) ..	" " "	5	1 0	165 $\bar{\pi}$	22·84	144
D " (Charlcombe)	J. Dent Young, Esq. C.E. ...	8	2 0	325 $\bar{\Gamma}$	23·64	165

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with 01 or more recorded.
		Diameter	Height Above Ground.	Height Above Sea Level		
		in.	ft. in.	feet.	inches.	
NORTH SOMERSET—(con.)						
D Batheaston	Col. Linley Blathwayt.	5	1 0	166 ∇	24·63	178
"	"	5	1 0	166 ∇	24·54	...
D " Reservoir	J. Dent Young Esq., C.E.	6	2 0	248 ∇	24·87	169
Yatton (Chelvey)	Bristol Water Works...	8	0 8	60	24·11	141
Barrow Gurney Reservoir	"	5	1 6	300 \uparrow	26·38	174
D Long Ashton Estate Office	H. B. Napier, Esq. ...	8	1 0	134 ∇	24·74	158
D Flax Bourton (Tyntesfield)	Antony Gibbs, Esq. ...	5	1 7	320 \uparrow	21·96	149
D Clevedon (The Knoll)	Miss Woodward.....	5	1 0	120 \uparrow	23·55	158
D " (Water Works).....	E. Button, Esq.....	5	0 9	28 ∇	25·00	170
Bristol (Coronation Road)	H. C. Martin, Esq. ...	5	0 10	50	22·84?	...
Wraxall Rectory	Rev. H. Vaughan	5	2 0	191	27·71	193
D Abbots Leigh	Sir Henry Miles, Bart.	5	1 0	320 \uparrow	25·55	154
D† Failand House [Bristol]	Miss Agnes Fry	5	1 0	385 \uparrow	25·26	172
† " School ["]	" " "	5	1 0	332	23·25?	...

DIVISION VI.—WEST MIDLAND COUNTIES.

WEST GLOUCESTERSHIRE.

Monkwood Reservoir [Bath] ...	J. Dent Young Esq., C.E.	5	1 0	365 \uparrow	24·98	186
D Bristol Docks (Underfall Yard)..	W. W. Squire, Esq., C.E.	8	19 6	45 ∇	21·32	163
" (Telephone Avenue)	Bristol Water Works..	5	roof	80	23·05	156
D Clifton (Harley Place)	Miss Hooper	5	1 5	260	24·42	162
D " (Durdham Down)	Mrs. Dix	6	1 6	310	25·45	179
D " (Pembroke Road)	R. F. Sturge, Esq. ...	8	0 10	215	26·36	179
D§ " College	D. Rintoul, Esq.	8	1 2	230	25·03	164
D " (Stoke Bishop)	H. L. P. Lowe, Esq. ...	8	1 3	230 \uparrow	24·96	158
" (" " Pitch and Pay)	C. Thomas, Esq.	5	1 3	200 ∇	27·60	...
D Fishponds (The Grove)	H. H. Harding, Esq....	5	1 0	160 \uparrow	23·12	166
D Bristol (Ashley Down)	P. W. May, Esq.	8	1 1	166	23·54	171
D Westbury-on-Trym (Cote House)	Mrs. Ames	8	1 3	243 ∇	25·73	155
Pucklechurch	Rev. S. G. Gillum.....	5	0 10	374 \uparrow	24·08	183
D Avonmouth (Bristol Docks).....	W. W. Squire, Esq., C.E.	12	3 2	12	21·45	159
D Filton	F. W. Gayner, Esq. ...	5	2 0	200	22·08	158
D Winterbourne (Kendleshire) ...	J. Marsh, Esq.	5	1 0	170 \uparrow	22·65	158
D Chipping Sodbury (Stanshawes Ct)	R. N. Hooper, Esq. ...	5	1 3	280 ∇	24·91	141
D " (The Ridge)	P. Burges, Esq.....	5	1 4	375 \uparrow	25·98	153
D Patchway (Over Court, Park) ...	R. C. C. Lippincott, Esq.	5	0 11	147 \uparrow	24·68	192
D " (" " Garden)..	" " "	8	1 0	137 \uparrow	23·58	192
Badminton	Mr. W. Nash	5	1 0	407	27·67	151
D Wickwar Rectory	Rev. Canon R. J. Lyon	5	1 0	260 ∇	23·62	152
Alderley	Gen. R. Hale	5	1 0	310 \uparrow	28·12	...
Tortworth Court	The Earl of Ducie	8	1 0	264	23·80	168
Pen Moel [Chepstow]	Mrs. Price	5	1 0	240 \uparrow	26·16	166
Dursley	John Richards, Esq. ...	5	1 0	257 \uparrow	27·46	...
D Berkeley (Castle Gardens)	Mr. R. Shore	5	1 6	62 \uparrow	23·86	140
D " (Sharpness Docks).....	F. A. Jones, Esq., C.E.	5	3 6	50	23·56	145
D Amberley (Glen View)	C. C. Pratt, Esq.	5	1 2	600 \uparrow	27·43	175

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with ≥ 0.1 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level		
		in.	ft. in.	feet.	inches.	
W. GLOUCESTERSHIRE—(con.)						
Chalford (Hyde House).....	Piers F. Legh, Esq. ...	5	1 6	527 T	26.60	187
Lydney (Clanna)	Captain W. B. Marling	5	1 0	260 T	28.51	...
D Stroud (Stanley Park)	Sir W.H. Marling, Bart.	8	1 0	350 T	26.47	145
D " (Upfield).....	Miss Stanton	5	1 0	226 T	25.94	176
D Stonehouse (Wycliffe College)...	W. A. Sibly, Esq.	5	1 0	125	24.83	161
" (Parklands).....	W. Grey Robinson, Esq.	8	2 6	103 T	22.68	166
D Whitminster	F. A. Jones, Esq., C.E.	5	1 0	32 T	23.33	161
Haresfield Court	Mr. S. Pearce.....	5	1 0	100	25.28	171
D Harescombe Grange	Miss Mary Hutton.....	5	1 0	545 T	27.18	205
§ Forest of Dean (Whitemead Park)	Meteorological Office...	8	1 0	200	30.33	150
§ " " " (Blakeney Hill Lo.)	" " "	8	1 0	700	27.84	163
§ " " " (Worcester Lodge)	" " "	8	0 11	550	31.50	151
§ " " " (Braceland)	" " "	8	1 0	500	28.83	150
§ " " " (Edgehills Lodge)	" " "	8	1 0	700	29.99	147
§ " " " (Ruardean Hill Lo.)	" " "	8	1 0	900	31.17	148
Longney Vicarage.....	Rev. W. E. Stewart ...	5	1 0	55 T	21.74	...
D Westbury-on-Severn (Chaxhill).	Mrs. Grant	5	3 0	122 T	24.86	163
Quedgeley House	Col. Curtis Hayward...	5	1 0	65 T	27.28	155
D Painswick (Cotswold Sanatorium)	F. K. Etlinger, Esq. ...	5	1 1	800	29.25	146
D Birdlip Hill (The Knap) ... No. 1	A. S. Helps, Esq.	5	1 0	800 T	27.83	176
D " " (" ") ... No. 2	" " " "	5	1 0	800 T	28.29	176
D Witcombe Reservoir	R. Read, Esq., C.E. ...	8	3 0	297 T	28.13	153
D Mitcheldean (Blaisdon) ...	the late P. Stubs, Esq.	5	1 0	117 T	27.39	187
D Gloucester (Hempsted)	F. A. Jones, Esq., C.E.	5	1 0	72 T	24.38	157
D " (Gloucester Park) ...	G. Embrey, Esq.	8	1 0	60	25.45	189
D " (Belgrave Road)	W. Piffe Brown, Esq...	5	1 0	52 T	24.54	175
D " (Barnwood Vicarage).	Rev. F. H. Fowler.....	5	1 0	80	27.47	179
D " (Llanthony Lock) ...	E.D. Marten, Esq., C.E.	5	1 2	39 T	25.09	184
D " (Wotton Asylum).....	R. B. Smyth, Esq., M.D.	8	0 9	88 T	25.48	158
D Dowdeswell	J.S. Pickering, Esq., C.E.	5	0 10	357	26.01	144
D Gloucester (Maisemore Lock) ...	E. D. Marten, Esq., C.E.	5	1 1	39 T	24.87	199
D Cheltenham (Northfield)	J.S. Pickering, Esq. C.E.	8	5 0	637 T	24.09	178
D " (Hewletts Res.) ...	" " "	8	1 6	419 T	24.51	177
D " (Sandford)	" " "	5	2 6	210	24.03	157
D " (Kemerton Lodge)...	Rev. Percy Burd	5	1 0	211	23.20	173
§ "	Royal Meteorological Soc	5	1 0	185	23.79	165
D " (Prestbury)	J. W. Guy, Esq.	5	0 10	...	26.19	193
D Winchcombe	J. Halliwell, Esq.	5	1 2	295 T	26.84	169
Tewkesbury (Upper Lode)	E.D. Marten, Esq., C.E.	5	1 0	41 T	22.18	...
" (Beckford).....	late F. Slade, Esq., C.E.	8	1 0	120 T	23.86	170
EAST GLOUCESTERSHIRE.						
D Fairford (Kempsford)	A. T. Iles, Esq.	5	1 0	250 ?	21.03	165
D " (The Close)	W. Cobbett Arkell, Esq.	5	1 9	...	23.48	154
D " (Draycott)	C. W. Edmonds, Esq...	5	2 0	200	24.11	165
" (The Croft House).....	C. H. Bloxsome, Esq...	5	1 0	300	23.39	...
D Lechlade	the late T. Arkell, Esq.	5	0 9	253	22.12	195
" (Southrop)	Thomas Arkell, Esq....	...	1 0	...	20.95	...

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with ≥ 0.1 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level		
		in.	ft. in.	feet.	inches.	
E. GLOUCESTERSHIRE—(con.)						
D § Cirencester (Roy. Agricultl. Coll.)	Prof. Locke	5	0 10	443	25.06	169
D ,, (Cripps Mead).....	Mrs. Wilfred Cripps ...	5	0 8	366 A	25.65	180
D ,, (Dollarward House)..	C. P. Hooker, Esq. ...	5	1 6	366	26.19	182
D ,, (" " ") ..	" " " " ..	8	1 6	366	25.95	182
D ,, (Further Barton) ...	Miss J. E. A. Brown... 5	5	1 0	422 A	27.16	180
D Fairford (Hatherop Castle)	Gardner S. Bazley, Esq. 5	5	1 0	410 T	25.22	176
D Great Barrington	H. J. Barrett, Esq. ... 5	5	1 6	430 T	25.75	...
D Northleach (Sherborne House) ...	Mr. A. Mitchell..... 5	5	1 0	420	26.29	142
D ,, (Leygore Manor).....	Arthur E. Moss, Esq... 5	5	1 0	700	25.66	197
D Bourton-on-the-Water	E. W. Kendall, Esq.... 5	5	1 6	434 T	26.17	...
D ,, ,, ,, (Chardwar)	G. F. Moore, Esq. 5	5	2 6	430	26.54	155
D Stow-on-the-Wold (Oddington).	late Rev. H. B. Heberden 5	5	0 9	400 T	23.28	160
D Moreton-in-Marsh (Longborough)	W. Arkell, Esq..... 5	5	1 0	575	26.67	143
† Chipping Campden (Braithwaite Ho.)	Fleetwood C. Varley, Esq 5	5	1 0	460 T	24.25	...
D † ,, ,, (Hidecote Ho.)	Major W. Wright	5	1 0	525	20.28?	152
HEREFORDSHIRE.						
D Walford-on-Wye (Vicarage).. ..	Rev. Kentish Bache ... 5	5	3 0	112 T	25.81	191
D Ross (Broad Street)	H. M. Purchas, Esq.... 5	5	1 3	123 T	24.34	175
D § ,, (The Graig)	H. Southall, Esq. 5	5	1 0	213 A	23.56	181
D Upton Bishop (The Baches).....	W. Hogarth, Esq..... 5	5	1 0	300	20.79	...
D Ross (Perrystone Court)	Mrs. G. Clive	5	1 3	...	24.33	162
D Much Dewchurch (Bryngwyn)...	Sir J. Rankin, Bart. ... 5	5	0 9	420 A	26.28	156
D Allensmore (Whitfield).....	G. T. Bates, Esq. 6	6	1 3	452 T	24.26	...
D Much Marcle (Caerswall)	J. A. H. Charles, Esq.. 5	5	1 0	423 B	26.07	209
D ,, ,, (The Mount)	T. Charles, Esq..... 5	5	0 8	240 A	22.50	187
D Ledbury (Orchardleigh)	M. A. Wood, Esq..... 5	5	3 6	180	22.16	152
D ,, (Underdown)	S. H. Bickham, Esq.... 5	5	1 0	307 A	22.58	161
D ,, (" ")	M " " " " ..	5	1 0	306 A	22.17	...
D ,, (Putley Court)	J. Riley, Esq..... 5	5	1 0	290	25.16	164
D § Hereford (St. Michael's Priory)..	Rev. H. de Normanville 8	8	1 0	291 A	23.97	176
D ,, (Broomy Hill)	Capt Norman H Matthews 5	5	1 8	217 A	23.92	179
D ,, (Breinton Court)	H. A. Wadworth, Esq. 5	5	1 0	238 T	22.59	158
D ,, (Hinton Court)	A. Battiscombe, Esq... 5	5	1 0	170 T	23.78	165
D ,, (St. Owen Street)	Mrs. Jay Jones	5	6 0	190 T	22.41	...
D Ledbury (Wellington Heath) ...	Rev F S Stooke-Vaughan 5	5	1 2	505 A	25.78	161
D Lugwardine (The Laurels)	C. J. Johnstone, Esq.... 5	5	1 0	270 A	23.31	180
D Hereford (Holmer Hall)	Rev. M. Hopton..... 8	8	1 3	241	20.20	175
D Yarkhill Vicarage.....	Rev. A. G. Jones	8	1 0	200 T	22.70	160
D Credenhill	R. M. Whiting, Esq.... 5	5	1 0	280 T	23.20	163
D Hereford (Burghill Court)	Miss E. D. Woodhouse 5	5	0 10	293 T	23.10	179
D Ocle Pychard (Ocle Court)	G. Creswell, Esq. 8	8	1 2	298 A	23.35	161
D Brilley Vicarage	Rev. W. Head	5	1 0	590 T	26.49	...
D Hope-u-Dinmore (Hampton Ct.)	J. S. Arkwright, Esq. MP 8	8	1 2	212 B	27.76	164
D Huntington Court.....	E. Radclyffe Crump, Esq. 5	5	1 1	833 T	32.39	211
D Pembridge (Dilwyn).....	Dr. T. Lambert Hall... 5	5	0 8	290 T	22.39	170
D ,, (Burton Court)	Col. P. L. Clowes .....	...	...	400	22.16	...
D Kingston (Lynhales)	S. Robinson, Esq. 8	8	1 0	566	28.60	182
D ,, (Gravel Hill)	Col. G. F. Pearson..... 5	5	0 8	540 T	28.08	206

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with '01 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level		
		in	ft. in.	feet.	inches.	
STAFFORDSHIRE.						
D Netherton (Lodge Farm Res.) ...	G. R. Jebb, Esq., C.E..	5	1 0	445 $\bar{\pi}$	20·19	144
D Dudley (Shavers End)	H. A. Hill, Esq., C.E..	5	1 0	744 $\bar{\pi}$	19·78	164
D West Bromwich	A. D. Grestorex, Esq. CE	8	4 9	546 $\bar{\pi}$	20·86	156
D Wombourne (The Bratch)	Baldwin Latham Esq CE	5	0 9	271	22·37	216
D Wednesbury (Ocker Hill)	G. R. Jebb, Esq., C.E.	5	0 8	474	18·97	155
D Walsall Sewage Farm	R. H. Middleton, Esq. CE	8	0 11	376 $\bar{\pi}$	20·57	151
D „ (Wednesbury Sewage Wks.)	T. Wicks, Esq.	5	2 8	381 $\bar{\pi}$	20·87	176
D Bilston (The Lunt Outfall)	J. P. Wakeford, Esq., CE	5	0 9	406 $\bar{\pi}$	22·43	164
† Wolverhampton (Graiseley) ...	R. E. W. Berrington, Esq	5	0 9	506 $\bar{\pi}$	22·33	164
† „ (Town Hall) ...	G. Green, Esq., C.E....	5	15 6	481 $\bar{\pi}$	23·06	195
† „ (West Park) ...	„ „ „ „ ...	5	1 0	432 $\bar{\pi}$	22·13	180
D „ (Wrottesley) ...	Mr. E. Simpson	8	1 0	500	19·60	155
D Patshull Park	The Earl of Dartmouth	8	1 3	273	20·79	183
D Tamworth (Bonehill House)	Lt.-Col. G. Chichester..	5	1 0	289 $\bar{\pi}$	19·64	158
D Bloxwich (Sneyd Res.)	G. R. Jebb, Esq., C.E..	5	1 0	507 $\bar{\pi}$	21·14	164
D Hammerwich (Cannock Chase Res)	„ „ „ „	5	1 0	475 $\bar{\pi}$	20·09	174
D Weston Park [Shifnal]	The Earl of Bradford ...	5	1 6	400 $\bar{\pi}$	22·37	163
D Brewood (Belvide Res.)	G. R. Jebb, Esq., C.E.	8	1 0	367 $\bar{\pi}$	22·47	141
D Lichfield (St. John Street)	Dr. F. M. Rowland ...	5	0 10	269 $\bar{\pi}$	23·04	181
„ (Maple Hayes)	A. O. Worthington, Esq.	5	0 11	380	19·87	...
D Penkridge (Rodbaston)	Mrs. H. Ward	5	1 0	324 $\bar{\pi}$	22·29	169
D Hednesford (Scout House)	H. A. Hill, Esq., C.E..	5	1 0	750 $\bar{\pi}$	18·96	155
D Brocton (Brocton Lodge)	Mr. J. J. Gibbons	5	1 0	400	21·95	184
Shugborough	The Earl of Lichfield ...	5	1 0	260	23·78	200
Burton (Hoar Cross)	F. W. Lycett, Esq.	8	4 0	400 $\bar{\pi}$	23·40	...
D „ (Rangemore)	Mr. W. Bennett	5	5 6	424 $\bar{\pi}$	21·43	182
„ (Trent Cottage)	J. L. P. Barber, Esq ...	5	1 0	150	21·42	180
„ (Hamilton Road)	M. L. Nicholas, Esq. ...	5	1 6	270	21·09	196
D „ (Shobnall)	Messrs. Bass & Co. ...	5	5 6	156 $\bar{\pi}$	19·44	162
Stafford (Eastgate Street)	C. H. Greaves, Esq. ...	5	1 2	...	20·81	...
„ (Tipping Street)	W. Fred. Wright, Esq.	5	2 6	258 $\bar{\pi}$	21·71	167
„ (West Bank, Doxey) M	Leslie Wilson, Esq. ...	5	0 6	280 $\bar{\pi}$	20·68	...
D Salt Vicarage	Rev. S. W. Jones	8	0 8	273	24·37	184
D Eccleshall (Walton Hall)	Sir H. A. Wiggin, Bart.	5	1 3	344 $\bar{\pi}$	25·01	181
D Hanbury Hall	Miss Caroline M. Bott..	5	0 11	483 $\bar{\pi}$	22·71	158
D Market Drayton (Old Springs) ...	F. E. Harding, Esq. ...	5	1 0	423 $\bar{\pi}$	25·92	189
Maer Hall Gardens	Mr. H. Pickstock	5	1 6	390 $\bar{\pi}$	26·36	186
D § Cheadle (The Heath House)	J. C. Philips, Esq.	5	1 0	647 $\bar{\pi}$	26·66	197
D Longton (The Meir)	G. D. Harrison, Esq. C.E.	5	1 0	618 $\bar{\pi}$	22·56	173
D Betley Hall [Crewe]	Col. J. A. Macdonald ...	5	1 0	270	24·73	191
D Stoke (Hartshill)	J. W. Knight, Esq. ...	5	1 0	485 $\bar{\pi}$	26·29	203
D Mayfield House [Ashbourne] ...	Graham C. Lawson, Esq.	8	1 0	370	28·99	208
D Leek (Wall Grange)	G. D. Harrison, Esq. C.E.	5	1 0	458 $\bar{\pi}$	29·53	190
Knypersley Reservoir	E. B. Smith, Esq., C.E.	5	3 1	550 $\bar{\pi}$	33·01	...
WORCESTERSHIRE.						
Blockley (Upton Wold)	E. W. Arkell, Esq. ...	5	1 0	...	27·29	...
Northwick Park	The Lady Northwick ...	8	1 6	410 $\bar{\pi}$	25·11	...

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with '01 or more recorded.
		Diameter	Height Above Ground	Height Above Sea level		
		in.	ft. in.	feet.	inches.	
WORCESTERSHIRE—(con.)						
Shipston (Tidmington House) ...	Miss Staunton	5	1 1	...	24·54	...
Upton-on-Severn (Willow Bank)	J. S. Cowley, Esq.....	5	1 3	42	24·48	178
D " " (The Eades) ...	Major E. W. Tennant..	5	0 9	100 †	24·38	190
D " " (Earl's Croome)	A. Marston, Esq.	5	1 2	100 †	23·75	166
† Evesham (Eastwick)	C. Burlingham, Esq....	5	1 0	110	20·55	...
† " (Lansdowne)	R. Burlingham, Esq....	6	5 0	108 †	20·03	...
Gt. Malvern (British Camp Res.)	W. Osborne Thorp, Esq., C.E.	5	0 11	677 †	26·09	148
D " " (Church Street).....	" " "	5	1 0	350 †	28·03	157
D§ " " (Belle Vue House)...	A. Mander, Esq.....	5	4 0	520	28·15	167
D " " (Madresfield Court)..	Mr. W. Crump	8	2 6	125 †	24·18	161
D Shipston (Talton)	Capt. G. Lainson Field	8	1 0	160 †	19·13	167
D Worcester (Boughton Park).....	Mrs. Isaac	5	0 8	82 †	22·96	163
D† " (Diglis Lock)	E. D. Marten, Esq., C.E.	5	1 0	49 †	21·72	175
D† " (Belmont Road)	G. B. Wetherall, Esq..	5	1 6	180 †	22·15	181
D† " (Water Works)	T. Caink, Esq., C.E. ...	5	0 9	56 †	21·82	173
D " (Bevere Lock)	E. D. Marten, Esq., C.E.	5	1 1	52 †	22·69	166
Droitwich (Himbleton Manor) ...	Lady Galton	5	1 0	188 †	21·42	...
Worcester (Hawford Lodge)	F. Ames, Esq.....	5	1 1	70	25·47	...
D Martley	Rev. J. F. Hastings ...	5	1 0	280 †	23·49	170
Droitwich (Holt Lock)	E. D. Marten, Esq., C.E.	5	1 1	55 †	23·24	145
D Shelsley Walsh	Miss M. Constance Hadley	5	1 0	184 †	27·67	189
Tenbury (Rochford)	Rev. J. Tomson	5	1 0	317 †	21·63	137
D Redditch (Hewell Gardens)	Mr. A. A. Pettigrew ...	5	1 0	484 †	23·55	155
D Bromsgrove (Tardebigge Res.)...	F. A. Jones, Esq. C.E.	5	3 0	433 †	23·61	180
D " (Stoke Reformatory)	Mr. J. Salter	5	5 4	225	20·22	134
D " (Barnt Green)	D. B. Grubb, Esq.....	5	1 0	494 †	26·30	178
D Stourport (Lincombe Lock).....	E. D. Marten, Esq., C.E.	5	1 0	62 †	22·07	167
D " (Areley Hall)	S. Zachary Lloyd, Esq.	5	0 9	70 †	24·21	148
D Bromsgrove (Lower Bittal Res.)	F. A. Jones, Esq., C.E.	5	3 0	430 †	24·89	188
D† Bewdley (Beaucastle)	George Baker, Esq. ...	5	0 9	450 †	21·14	159
D† " (Winterdyne).....	Miss K. M. Sturt	5	1 0	...	21·00	161
D† Kidderminster (Prospect Hill)...	Mr. J. T. Cowderoy ...	5	5 9	166 †	19·53	156
Stourbridge (Pedmore)	E. B. Marten, Esq., C.E.	8	0 11	350 †	24·44	196
" (Longlands)	" " "	8	0 9	258 †	22·09	186
D Northfield (West Heath House).	Prof. Adrian J. Brown	5	1 0	...	25·75	202
D Halesowen (Frankley)	E. Antony Lees, Esq...	5	0 10	570 †	25·34	165
D Kings Heath (Brandwood House)	G. F. Lyndon, Esq. ...	5	1 0	550 †	23·83	191
Selly Oak Cemetery	Mr. W. Garden	5	1 4	540 †	22·68	154
Stechford (Trebortha House) ...	H. H. Newark, Esq. ...	5	1 3	360 †	19·38	...
Moseley (Prospect Road)	Rev. F. Oscar Lane ...	5	1 0	550 †	23·55	...
Dudley (Trindle House)	E. B. Marten, Esq., C.E.	8	1 0	575	23·22	...
WARWICKSHIRE.						
Long Compton (Weston Park)...	H. A. Warriner, Esq...	8	3 0	510 †	22·02	146
Shipston (Honington Vicarage)...	Rev. E. H. Boddington	5	0 10	215 †	21·16	160
D Farnborough	Miss Prater	5	1 0	515 †	26·66	184
D Stratford-on-Avon (Atherstone-on-Stour)	Rev. F. Smith	12	4 0	135	20·28	148

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with .01 or more recorded.	
		Diameter	Height above Ground.				Height above Sea Level
		in.	ft.	in.	feet	inches.	
WARWICKSHIRE—(con.)							
Stratford-on-Avon (Avonfield) ..	G. W. Everard, Esq....	5	0	10	120 T	20·76	158
D " " (Shottery Hall)	R. C. Carter, Esq.....	5	0	8	140 T	20·77	173
D Alcester (Ragley Hall)	The Marquis of Hertford	5	1	0	260 T	23·65	165
Snitterfield	R. Dixon, Esq.	8	1	6	274	18·77	153
D Warwick (Barford Rectory).....	Rev. W. I. Brooke.....	8	0	11	167 T	19·10	163
D Leamington (Radford House) ..	C. E. G. Hatherell, Esq.	5	1	2	240 T	20·03	182
D " (Binswood Avenue)	Rev. A. Corbet	5	0	9	...	20·24	159
Warwick (Hatton Vicarage) ...	Rev. H. Trethewy.....	5	1	0	384 T	21·68	168
Milverton (Latmos)	Rev. E. Healy	5	1	0	191 T	20·31	...
Leamington (Cubbington).....	Mrs. Robins	6	1	0	280 T	21·16	...
D Kenilworth (The Spring)	Mr. W. Entwistle	5	1	0	312 T	21·54	184
Rugby (Temple Observatory) ...	O. M. Samson, Esq. ...	5	1	1	383 T	20·12	191
D " (Bilton Grange).....	W.H.G. Southcomb, Esq	5	1	0	400	17·26	157
D Coventry (City Hospital)	E. H. Snell, Esq., M.D.	8	1	0	269 T	21·32	181
D " (Holyhead Road).....	J. B. Morris, Esq.....	5	1	0	300 T	20·71	181
D " (Kingswood).....	R. B. Caldicott, Esq....	8	1	0	340 T	23·60	141
D Hampton-in-Arden (Hampton Manor)	Mr. Neil Sinclair	8	0	7	345 T	21·63	168
D Coventry (Keresley Grange) ...	Miss H. Rotherham ...	5	0	10	413	22·18	223
D Birmingham (Sheldon Rectory)..	Mrs. Jones-Bateman ...	8	1	0	323	26·62	170
D§ " (Edgbaston)	A. Cresswell, Esq.....	8	1	0	525 T	22·40	143
Coleshill (Maxstoke)	<i>Coventry Herald</i> .....	...	...	...	...	22·05	...
Birmingham (Botanical Gardens)	Mr. T. Humphreys ...	5	5	5	505 T	22·09	159
D " (The Crescent)	J. J. Gilbert, Esq.....	5	21	0	495 T	19·86	138
D " (" ")	" " " "	5	7	0	480 T	21·72	...
D " (Gravelly Hill).....	W. Ll. Mold, Esq.....	5	3	0	450	21·79	167
D Bedworth Cemetery	Mr. B. Bosworth	5	1	0	385 T	20·93	150
Nuneaton (Chilvers Coton Vic.)..	Rev. R. Chadwick	5	0	10	283 T	18·92	151
D Witton Reservoir	E. Antony Lees, Esq...	5	3	0	347 T	19·67	169
D Whitacre (Birmingham W.W.)..	" " " "	5	1	5	269 T	21·61	217
D Sutton Coldfield (The Park).....	Mr. H. Harland.....	5	1	0	371 T	21·64	172
D Atherstone	Baldwin Latham Esq CE	5	1	0	286 T	19·87	162

DIVISION VII.—NORTH MIDLAND COUNTIES.

LEICESTERSHIRE.

Lutterworth (Walcote)	Major Corbet Smith ...	5	0	6	290 T	21·08	160
D Kibworth Beauchamp	E. V. Phillips, Esq. ...	5	2	6	355 T	18·88	152
Wistow Hall Gardens	(R) Mr. F. J. Clark	8	3	8	310	20·08	...
Hallaton Hall	S. N. Bankart, Esq. ...	8	1	3	366	24·00	153
Newton Harcourt	Hon. T. F. Fremantle..	5	1	0	350 T	18·46	...
Horninghold House	A. Cross, Esq.	5	1	6	380	20·95	...
" "	<i>float g.</i> " "	6	2	0	380	19·32	...
D Blaby	G. F. Shoults, Esq. ...	5	0	6	236	18·92	178
D Glen Parva (S. Wigston Sew. F.m.)	Mr. W. G. J. Clark ...	8	0	5	231 T	18·39	143
D Leicester (Town Hall Square) ...	E. G. Mawbey, Esq., C.E.	5	0	6	211 T	17·17	163
D " (" " ")	(R) " " " "	7	2	0	213 T	17·02	160
" (Humberstone Asylum)	J. E. M. Finch, Esq., M.D	8	1	0	266 T	19·97	186

DIVISION VII.—NORTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with '01 or more recorded.
		Diameter	Height Above Ground.	Height Above Sea level		
		in.	ft. in.	feet.	inches.	
LEICESTERSHIRE—(con.)						
D Thornton Reservoir	Leicester W.W. Committee	8	1 2	371 $\bar{\pi}$	19·68	165
D Thurcaston (Cropston, Bradgate Res.)	" " "	8	1 0	246 $\bar{\pi}$	22·53	174
D Syston	S. K. Daniels, Esq. ...	5	1 6	180 $\bar{\pi}$	19·69	144
D Swithland (The Brand)	Leicester W.W. Committee	8	1 0	172 $\bar{\pi}$	20·95	171
D Rearsby Rectory	Rev. G. Hassall	8	1 2	198	20·58	147
Ratcliffe-on-Wreake College ...	Rev. J. Cremonini	5	1 0	288 $\bar{\pi}$	17·55	...
Ashby-de-la-Zouch (Coleorton Hall)	F. A. Smith, Esq.	5	1 0	540 $\bar{\pi}$	22·27	179·
Barrow-upon-Soar	Mrs. C. Stuart Thomson	5	1 6	...	18·95	...
D Charnwood Forest (Blackbrook Res.)	A. H. Walker, Esq., C.E.	8	1 0	310	22·04	166·
D Loughborough (Nan Pantan Res.)	" " "	8	1 0	269 $\bar{\pi}$	20·97	177
" (The Widenings).	Adrian Young, Esq. ...	5	0 7	150 $\bar{\pi}$	21·55	195·
D " (Sewage Farm)...	A. H. Walker, Esq., C.E.	8	1 0	134 $\bar{\pi}$	18·40	158
D Burton-on-the-Wolds	Lord Percy St. Maur...	6	0 9	...	19·14	147
D Prestwold Hall	Hussey Packe, Esq. ...	8	1 0	209 $\bar{\pi}$	20·45	185·
Waltham-on-the-Wolds	G. Higgins, Esq.	5	1 0	568	20·60	181
D Belvoir Castle.....	W. H. Divers, Esq. ...	8	1 0	260 $\bar{\pi}$	22·52	205·
RUTLAND.						
Liddington (Uppingham W.W.)	Messrs G. & F. W. Hodson	5	1 0	152 $\bar{\pi}$	16·81?	...
D Uppingham (Ridlington)	N. W. Wortley, Esq.	5	4 7	527	22·63	163·
Tinwell (Glebe Farm)	H. Edwards, Esq.	5	1 1	...	21·99	161
D Tolethorpe Hall [Stamford].....	C. O. Eaton, Esq.	8	0 8	161 $\bar{\pi}$	20·39	146·
D Market Overton	Miss Grace Wingfield...	8	0 11	475 $\bar{\pi}$	24·27	167
Stocken Hall	Lady Francis Cecil ...	5	0 9	290	24·06	158·
SOUTH LINCOLNSHIRE.						
(HOLLAND AND KESTEVEN.)						
D Market Deeping (Wilsthorpe) ...	J. C. Gill, Esq., C.E.	8	3 10	53 $\bar{\pi}$	19·20	151
D Holywell Hall	Col. Birch Reynardson	...	...	190 ?	23·89	173·
Spalding (Pode Hole)	Mr. W. Grigg	12	1 0	20 $\bar{\pi}$	24·63	...
Grantham (Stainby)	Rev. W. L. de B. Thorold	5	0 9	496	19·71	...
D " (Little Ponton Rect.)	Rev. P. R. Worsley ...	5	1 0	250 $\bar{\pi}$	24·19	185
D " (Saltersford).....	H. Preston, Esq.	5	0 6	188 $\bar{\pi}$	21·05	159·
D " (Guildhall)	F. J. Morris, Esq.	5	13 6	202 $\bar{\pi}$	21·68	152
D " (High Street)	Messrs. R. & W. Bird..	5	1 0	202	20·63	150·
D Boston (Black Sluice, Skirbeck).	F. S. Robins, Esq., C.E.	8	1 3	11	19·65	172
D " (Grand Sluice)	J. H. Johnson, Esq., C.E.	8	8 0	18	19·62	158·
"	W. H. Wheeler, Esq. C.E.	5	6 6	25 $\bar{\pi}$	21·01	...
D §Sleaford (Rauceby Hall)	Gen. Sir M. Willson, KCB	5	1 0	125 $\bar{\pi}$	21·71	197
Leake (Lade Bank Engines).....	J. H. Johnson, Esq., C.E.	8	1 0	10 $\bar{\pi}$	17·74	...
D Stubton [Newark].....	G. Nevile, Esq.	5	4 6	99 $\bar{\pi}$	18·11	179
D §Fulbeck	Rev. V. F. Willson ...	5	0 8	180 $\bar{\pi}$	20·67	188·
Leadenham Rectory	Rev. V. E. Skrine.....	5	1 2	150	18·82	166
Sleaford (Bloxholm Hall)	Mr. W. Lumsden	5	1 6	68 $\bar{\pi}$	19·10	156
D Welbourn	Miss M. Burtt	5	3 6	120 $\bar{\pi}$	18·38	175·
§Temple Bruer.....	Miss A. S. Morley	5	1 0	300?	19·63	171
Navenby Rectory	Rev. Canon G. T. Harvey	5	1 0	218 $\bar{\pi}$	19·32	177
D Carlton-le-Moorland.....	J. Brocklebank, Esq.	5	1 2	49	18·71	155·

DIVISION VII.—NORTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with ≥ 0.1 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level		
		in.	ft. in.	feet.	inches.	
SOUTH LINCOLNSHIRE						
(HOLLAND AND KESTEVEN)— <i>con.</i>						
Lincoln (Branston)	A. S. Leslie Melville, Esq.	5	1 3	122 ∇	19.90	166
D " (Doddington Rectory) ...	Rev. R. E. G. Cole ...	5	1 2	92 ∇	18.93	155
" (Skellingthorpe Hall) ...	A. H. B. Coupland, Esq.	5	1 0	...	18.23	...
NORTH LINCOLNSHIRE.						
(LINDSEY.)						
D Carrington Grange	Mr. T. J. Ward	5	6 0	15 ∇	18.15	150
§ Horncastle (Mareham-le-Fen) ...	Meteorological Office ...	5	1 0	35	19.37	170
" (Revesby)	J. Shaw, Esq.	5	2 0	135 ∇	19.90	...
Skegness	S. Coetmore Jones, Esq.	8	1 0	13	17.94	186
D Spilsby (Hagnaby Priory)	Miss Pocklington	8	1 8	47 ∇	20.62	170
D " (East Keal Manor)	A. M. Wilson, Esq. ...	8	1 0	181 ∇	19.50	192
D "	Dr. J. W. Walker	5	1 0	160 ∇	20.57	176
D " (Ashby Road)	J. J. Rainey	5	1 0	160 ∇	17.35	172
D " (Hagworthingham)	Mr. R. Wright	5	1 1	252 ∇	21.07	164
Horncastle (Bucknall)	W. Carter, Esq.	5	1 6	50	15.39?	...
D "	H. K. Maynard, Esq. ...	5	1 8	110	21.63	177
Lincoln (St. Botolphs)	A. M. Swift, Esq.	5	1 2	25 ∇	19.52	160
D " (Brayford Wharf)	late Mr. J. W. Horton.	5	5 8	28 ∇	18.12	167
" (Station)	Great Central Rly. Co.*	9	3 6	26	18.81	157
D " (Sessions House)	S. R. Moss, Esq.	5	1 0	59 ∇	18.23	178
D " (The Close)	C. J. Bromhead, Esq. ...	8	1 0	185 ∇	18.35	176
D " (D'Isney Place)	A. H. Leslie Melville Esq	4	1 0	215 L	18.60	174
Alford (The Burial Ground)	Mr. E. Hodgson	5	1 0	29 ∇	15.05	158
Scampton House	Mrs. G. E. Sandars	5	1 11	...	18.44	...
Willingham-by-Stow	R. C. Bacon, Esq.	5	1 6	70 ∇	17.98	177
Louth (Westgate)	Dr. F. Fawcett	5	0 9	120 ∇	20.80	157
Market Rasen	Mr. W. B. Jevons	5	0 8	84	20.09	...
" "	Great Central Rly. Co..	9	3 6	100	18.31	159
§ " " (Tealby)	Meteorological Office ...	5	4 0	260	22.37	161
D Gainsborough (Morton)	J. A. R. Greaves, Esq.	5	1 0	22 ∇	15.30	127
D " (N. Sandsfield) ...	Mr. J. Creed	5	1 9	21 ∇	15.52	122
D § Caistor (Castlemount)	Mr. Thomas Ford	5	3 6	270	20.44	194
" (Cabourne)	Rev. R. Thomas	5	1 2	280 ∇	21.61	...
Brigg	Great Central Rly. Co..	9	3 6	16	18.25	127
D "	A. Atkinson, Esq., C.E.	8	1 2	11 ∇	23.27	193
D Irby-on-Humber	H. B. Parker, Esq.	5	1 0	175	19.64	173
Riby	<i>Grimsby News</i> .....	...	...	...	24.98	...
D Grimsby (Abbey Road)	W. J. Wood, Esq.	5	3 0	23	17.28	166
"	Great Central Rly. Co..	9	15 0	42	16.27	...
Barnetby	" " " " " " " "	9	3 6	51	20.97	139
D Brocklesby Park	Mr. F. C. Stainsby ...	5	2 0	108	21.82	163
D N. Level Engine [Thorne]	Mr. J. Turner	5	2 3	...	16.62	160
Crowle (Keadby)	Great Central Rly. Co.	9	...	17	15.38	136
D Burton on Stather Vicarage	Rev. F. A. Jarvis	5	1 6	212 ∇	21.63	139

* 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 with $\cdot 01$ or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
NORTH LINCOLNSHIRE						
(LINDSEY)— <i>con.</i>						
D Thornton Curtis.....	Rev. C. B. Goodacre ...	8	1 4	66	19·49	139
D Horkstow	E. J. Turton, Esq.....	5	0 10	75 ∇	23·19	169
Ferriby Sluice	A. Atkinson, Esq., C.E.	5	1 0	18 ∇	19·77	151
New Holland	Great Central Rly. Co..	9	3 6	18	19·33	144
NOTTINGHAMSHIRE.						
D Kingston (Midland Agric. Inst.)..	F. Wakerley, Esq. ...	5	1 0	126 ∇	17·14	139
D " Hall	Mr. W. H. Cooke	5	0 9	130	20·61	175
D Plumtree(Normanton-on-Wolds)	T. A. Hill, Esq.	8	1 0	170 ∇	19·35	176
Cropwell Bishop (CropwellGrove)	H. Smith, jun., Esq....	5	1 1	160 ∇	19·21	...
Bingham (Whatton Manor)	Capt. M. H. Hall	5	3 0	104 ∇	19·24	168
D Nottingham (Beeston Fields) ...	G. Fellows, Esq.	5	0 9	206 ∇	20·44	184
" (Trent Lane).....	A. Brown, Esq., C.E..	8	0 10	85 ∇	18·49	162
D " (The Castle)	" " "	8	1 2	192 ∇	20·01	188
" (" ")	" " "	8	76 0	268 ∇	17·75	154
D " (Huskinson Street).	F. W. Smallshaw, Esq.	5	1 0	165 ∇	21·24	174
D " (Carisbrook Ho., The Park)	W. Bradshaw, Esq. ...	5	2 0	247 ∇	20·58	186
D " (Talbot Street).....	N. S. Ferris, Esq.	5	2 0	250	19·48	170
Radeliffe-on-Trent	T. Yates, Esq.	5	1 0	...	19·42	146
Nottingham (Stoke Bardolph) ...	Mr. A. A. Avis	8	1 0	66 ∇	18·38	...
D§ " (Strelley)	T. L. K. Edge, Esq. ...	8	1 0	396 ∇	19·33	167
D§ " (" Hall)	" " "	5	1 0	379 ∇	18·80	175
§ " (" ")	" " "	5	1 0	379 ∇	19·28	...
D " (Mapperley Hill) ...	E. Powell, Esq.	8	1 0	400 ∇	20·61	160
D " (Basford)	F. W. Davies, Esq. ...	8	1 0	169 ∇	18·45	173
D " (Burton Joyce W.W.)	" " "	8	0 9	64 ∇	19·51	168
Lowdham (Chilwell Nurseries)...	Mr. J. D. Pearson	5	4 0	...	16·55	...
Bulwell (Springfield).....	G. W. Walker, Esq....	5	0 9	166 ∇	19·21	...
D " (Bestwood)	F. W. Davies, Esq. ...	8	1 2	317 ∇	20·27	175
D Eastwood Colliery	J. W. Fryar, Esq.....	5	1 0	245 ∇	21·72	162
D Hucknall Torkard (Forge Mills)	J. D. Walker, Esq....	5	4 3	200 ∇	18·52	160
D Gonalston Rectory	Rev. F. H. Paley	5	1 0	84	19·88	185
D Papplewick (Water Works)	F. W. Davies, Esq. ...	8	0 10	317 ∇	20·78	178
Annesley (Selston W.W.).....	Messrs G. & F. W. Hodson	5	1 0	475 ∇	20·57	161
Southwell (Westhorpe Hall) ...	General Warsand	5	4 0	147 ∇	20·92	...
D Farnsfield	Dr. C. Wills	5	1 0	210 ∇	20·89	189
Sutton-in-Ashfield W.W.	Messrs G. & F. W. Hodson	5	1 1	462 ∇	21·08	165
Mansfield (W.W. Rainworth) ...	" " "	5	1 0	360 ∇	22·08	165
" " "	Mr. P. J. Shacklock ...	5	1 0	330	24·27	202
D " (West Bank)	W. Pickard, Esq.	8	1 0	405 ∇	22·58	174
o North Collingham	E. Turton, Esq.....	5	1 0	...	21·08	180
South Scarle	Rev. E. C. Shawfield...	5	1 4	52	17·51	...
D Ollerton (Boughton W.W.).....	F. W. Davies, Esq. ...	8	0 7	141 ∇	19·67	170
D " (Thoresby Gardens) ...	Mr. A. Simmons	8	0 9	125	20·40	145
Worksop (Welbeck Gardens) ...	Duke of Portland, K.G.	5	1 0	196 ∇	21·77	...

DIVISION VII.—NORTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with ≥ 0.1 or more recorded
		Diameter	Height Above Ground.	Height Above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
NOTTINGHAMSHIRE—(con.)						
Worksop	Great Central Rly. Co..	9	3 6	127	18.79	175
^D „ (Osberton Gardens) ..	Mr. J. B. Allan	5	4 0	70	18.13	155
Retford	Great Central Rly. Co..	9	3 6	52	16.66	151
^D „ (Morton Hall)	W. H. Mason, Esq. ...	5	1 0	140	18.92	158
„ (Babworth Hall)	Col. H. Denison	5	1 0	92 π	17.30	...
^D § Worksop (Hodsock Priory)	H. Mellish, Esq.	8	1 0	56 π	16.91	152
„ („ „)	„ „	5	1 0	56 π	16.46	...
^D „ („ „)	„ „	11	1 6	56 π	16.75	152
The Gardens [Bawtry Hall]	Mr. J. H. Stride	5	1 3	31 \uparrow	17.17	...
Stockwith	Great Central Rly. Co.	9	3 6	21	15.50	165
^D § Bawtry (Hesley Hall)	B. I. Whitaker, Esq. ...	8	0 11	61 \uparrow	16.11	150
DERBYSHIRE.						
^D Melbourne Vicarage	Rev. Canon Singleton ..	5	1 0	177 π	23.37	179
^D „ (The Hollow)	Mr. W. Garratt	5	1 0	182 π	19.17	150
^D Chellaston	H. Chambers, Esq.	5	1 0	170 \uparrow	18.48	171
Willington (W.W. Milton)	Messrs G. & F. W. Hodson	5	1 0	134 π	16.89	151
Findern (The Longlands)	Rev. B. W. Spilsbury ..	5	0 9	186 π	16.59	...
„ (Mill Hill Farm)	G. L. Spilsbury, Esq. ...	6	1 6	243	18.13	...
Etwall (Blakeley Lodge)	Mr. R. Giles	5	1 0	190 π	17.34	...
Mickleover (County Asylum) ..	R. Legge, Esq., M.D. ...	5	3 8	300 \uparrow	17.79	164
^D „ Manor	Mr. J. Campbell	5	2 0	200	18.35	145
^D Derby (Wild Street)	Messrs. J. Davis & Son	5	1 0	174	20.34	179
^D § „ (Midland Railway)	J. Sayers, Esq.	5	1 5	156 π	17.43	186
„ (Royal Infirmary)	W. G. Carnt, Esq.	5	1 0	195	19.56	206
^D „ (Arboretum)	J. Ward, Esq., C.E. ...	5	1 0	196 π	20.26	172
^D „ (Duffield Road)	Dr. W. G. Copestake ...	5	8 0	192 π	17.86	167
„ („ „)	„ „	5	0 10	184 π	21.82	...
Kirk Langley (Langley Hall) ..	G. W. Peach, Esq. ...	5	1 10	396 \uparrow	22.74	...
^D Breadsall Lodge	Col. W. B. Woodforde.	5	1 3	280 \uparrow	19.74	189
^D „ Priory	Miss H. A. Haslam ...	5	1 6	380 π	20.49	200
^D Duffield (Castle Hill House)	Messrs. J. Davis & Son	...	...	...	21.26	178
Hazelwood (Chevin)	Sir J. G. N. Alleyne, Bart.	5	4 0	503 π	20.91	141
^D Ashbourne Water Works	Mr. J. W. Twigg	5	1 0	582 π	29.48	190
„ (Yeldersley Hall) ..	E. B. F. Wright, Esq. ..	5	1 0	635 \uparrow	26.01	189
^D § Belper (Quarry Bank)	J. Hunter, Esq., C.E. ...	5	0 8	294 π	24.19	173
^D „ (Highfield)	M. Hunter, Esq., C.E. ...	8	0 8	310 π	23.60	181
Codnor (Cross Hill)	A. F. Pine, Esq.	5	1 0	372 π	20.96?	...
Wirksworth	Thomas Gibbs, Esq. ...	5	1 0	500 \uparrow	26.16	180
^D Alderwasley	A. F. Hurt, Esq.	5	1 0	537 π	27.24	175
Whatstandwell (Pumping Statn.)	Messrs G. & F. W. Hodson	5	1 0	246 π	25.31	181
Matlock Bath	Miss E. Chadwick	5	1 6	500	28.11	...
^D „ (The Gables)	Mrs. R. Wildgoose	5	1 0	459 \uparrow	29.33	200
Darley Dale (Whitworth Inst.) ..	Whitworth Inst. Trustees	5	1 8	361 π	27.96	...
^D „ Hall	A. Clay, Esq.	5	1 0	400 \uparrow	28.59	193
^D Stretton (Lindway Res.)	The Reservoir Keeper ...	5	3 6	447 π	18.85	167
Hardwick Hall	Mr. E. Wilson	8	2 6	594 \uparrow	25.46	156
^D Grassmoor Colliery	Mr. J. Norman	5	19 10	370 π	17.28	139

DIVISION VII.—NORTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain. 1905	Days with '01 or more recorded.
		Diameter		Height Above Ground.			
		in.	ft	in.	feet.	inches.	
DERBYSHIRE—(con.)							
D Chatsworth Gardens	W. Chester, Esq.	8	5	5	404 T	29·62	202
Chesterfield (Gas Works)	Chesterfield Corporation	5	1	0	279	21·40	...
"	Great Central Rly. Co..	9	3	6	250	21·37	152
D " (Linacre Reservoir)	Chesterfield Corporation	8	1	0	490	27·09	170
D " (Tapton Grove)	Mr. W. R. Bloxham ...	5	1	0	490	26·63	170
§ Buxton (Devonshire Hospital) ...	Royal Meteorological Soc	5	1	0	988	42·01	223
" (Portobello Bar)	W. H. Grieves, Esq. C.E.	8	1	0	1600 T	48·32	259
" (Stanley Moor)	" " "	8	1	0	1340 T	46·39	252
" (Burbage Edge)	" " "	8	1	0	1400 T	46·51	257
D Eyam (Eyam View)	T. Gregory, Esq.	5	1	0	945	33·20	182
Comb's Moss	Great Central Rly. Co..	9	3	6	1669 T	29·85	...
" Reservoir	" " "	9	3	6	710 T	30·95	235
Chapel-en-le-Frith	" " "	9	3	6	965 T	31·33	209
D Totley Hall	W. A. Milner, Esq. ...	5	0	10	700	32·23	178
Killamarsh (Norwood)	Great Central Rly. Co..	9	3	6	226 T	20·87	182
D Norton [Sheffield]	Col. Creswick, C.B. ...	6	0	8	700	28·42	194
D Bamford	E. Sandeman, Esq., C.E.	5	0	10	508 T	33·46	217
Hayfield (The Dympus)	G.H. Hill, Esq., C.E., & }	5	1	3	1450 T	36·46	...
" (Edale Cross)	H. Sowerby Wallis Esq }	5	1	3	1760 T	35·24	...
" (Oaken Clough)	" " "	5	1	3	1300 T	32·59	...
" (Tunstead Clough)	" " "	5	1	3	960 T	32·75	...
" (Broad Clough)	" " "	5	1	3	1420 T	37·38	...
" (Cluther Rocks)	" " "	5	1	3	1730 T	41·71	...
" (Upper House)	" " "	5	1	3	1170 T	34·77	...
" (Kinder Top)	" " "	5	1	3	2020 T	46·28	...
" (Park Hall Moor)	" " "	5	1	3	1260 T	32·48	...
" (Sandy Heys)	" " "	5	1	3	1500 T	39·03	...
" (Leygatehead Moor) ...	" " "	5	1	3	1550 T	37·35	...
" (Mill Hill)	" " "	5	1	3	1730 T	40·21	...
D Glossop (Corporation W.W.) ...	Mr. J. Garner	12	4	6	733 T	35·53	203
Woodhead Station	Great Central Rly. Co..	9	3	6	878 T	45·26	217

DIVISION VIII.—NORTH WESTERN COUNTIES.

CHESHIRE.

D Audlem Vicarage	Rev. H. S. Cotton	5	1	6	200	26·21	172
D Baddiley (Nantwich W. W.) ...	Baldwin Latham Esq CE	5	1	0	231	26·17	174
D Nantwich (Dorfold Hall)	J. A. Saner, Esq., C.E.	8	1	0	190 T	24·69	174
D " (Reaseheath Hall) ...	" " "	8	1	0	130 T	24·63	188
Eaton Hall Gardens	Mr. N. F. Barnes	6	3	0	72 T	21·30	...
D Sandbach (Malkins Bank)	Mssrs Brunner Mond & Co	5	3	8	244 T	20·68	184
Eccleston	E. Wells, Esq.	5	1	1	94 T	22·60	179
D Congleton (Buglawton Vic.)	Rev. W. Besant	8	5	0	347 T	26·30	165
" (Sewage Works)	Randle Burslam Esq. CE	5	1	0	248 T	26·59	190
Bosley Reservoir	Great Central Rly. Co..	9	3	6	590 T	25·16	199
" Minns	" " "	9	3	6	1210 T	22·30?	200

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with ≥ 0.1 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
CHESHIRE—(con.)						
Macclesfield (Wincle)	E. B. Smith, Esq., C.E.	5	3 0	500	29.13	146
Tarporley (Willington Hall).....	J. Tomkinson, Esq., M.P.	5	1 0	220	24.60	185
§ Chester (Hawarden Bridge).....	Meteorological Office...	8	1 0	20	22.85	149
D " (Christleton Hall)	Mr. J. Weaver	5	1 2	142 $\bar{\pi}$	23.26	201
" (Water Works)	A. Bell, Esq.	5	0 10	85 $\bar{\pi}$	21.65	198
" (Northgate Station).....	Great Central Rly. Co..	9	3 6	84 $\bar{\pi}$	22.09	146
D § " (Parkgate Road)	Rev. J. C. Mitchell	5	1 0	60 $\bar{\pi}$	22.06	180
D Middlewich.....	Mssrs Brunner Mond & Co	5	3 10	138 $\bar{\pi}$	21.14	174
" (Bostock Hall)	Col. France Hayhurst..	5	2 6	157 $\bar{\pi}$	21.86	...
D § Macclesfield (The Park)	Mr. J. Dale.....	5	1 0	501 $\bar{\pi}$	30.11	216
"	Great Central Rly. Co..	9	3 6	539	32.83	155
D Chelford (Astle Hall)	G. Dixon, Esq.	5	1 0	250 $\bar{\pi}$	25.25	158
" (" ")	" " "	8	1 0	250 $\bar{\pi}$	24.92	...
Northwich	Great Central Rly. Co.	9	3 6	76 $\bar{\pi}$	21.78	155
D § " (Highfield) <i>Snowdon</i>	J. A. Saner, Esq., C.E..	8	1 0	116 $\bar{\pi}$	24.10	194
D " (Winnington).....	Mssrs Brunner Mond & Co	5	3 8	80 $\bar{\pi}$	24.30	207
D " (Lostock Gralam) ...	" " "	5	3 6	75 $\bar{\pi}$	22.36	202
D Macclesfield (Swanscoe Park) ...	T. C. Horsfall, Esq. ...	5	1 0	676 $\bar{\pi}$	31.72	228
D Neston (Hinderton) ..	Miss L. H. Bushell ...	5	1 0	215 $\bar{\pi}$	24.31	186
" (" ")	" " "	8	1 0	215 $\bar{\pi}$	24.22	...
" (" " Lodge) ...M	" " "	5	1 0	145 $\bar{\pi}$	23.95	...
Bollington (Sponds Hill)	Great Central Rly. Co..	9	3 6	1279 $\bar{\pi}$	22.77?	...
D Hooton Grange	W. H. Jones, Esq.....	5	1 0	110 $\bar{\pi}$	25.04	154
D Wilmslow (Parksyde)	E. Pearson, Esq.	8	1 0	253 $\bar{\pi}$	27.50	197
" (Poplar House)	J. Holden, Esq.	5	1 0	237 $\bar{\pi}$	25.99	177
Whaley Bridge	Great Central Rly. Co..	9	3 6	602 $\bar{\pi}$	35.50	220
D Handforth	A. Brothers, Esq.	5	1 6	260	30.36	145
D Disley (Lyme Park).....No. 1	T. Molyneux, Esq.....	9	3 8	720 $\bar{\pi}$	31.32	179
D " (" ").....No. 2	" " "	12	2 9	674 $\bar{\pi}$	26.80	178
D Runcorn (Weston Point)	J. A. Saner, Esq., C.E.	8	2 4	18	31.75	181
Thurstaston (Dawpool)	Mr. R. Horne.....	...	...	...	20.15	...
D West Kirby (Greenfield)	H. Bell, Esq	5	1 0	75 $\bar{\pi}$	21.54	183
D Thelwall (Millington House) ...	L. W. Reynolds, Esq..	5	1 0	85 $\bar{\pi}$	26.89	234
Altrincham (Norman's Place)....	A. Griffiths, Esq. ...	5	8 0	150 $\bar{\pi}$	30.05	...
" (Barrington House). ..	C. E. Newton, Esq, C.E.	8	3 0	105	27.45	...
D § Hoylake (District Council Office)	T. Robinson, Esq.	5	1 0	33 $\bar{\pi}$	21.96	179
§ Birkenhead (Bidston Obs.)	W. E. Plummer, Esq..	8	1 0	189 $\bar{\pi}$	24.01	192
D Northenden (Wythenshawe).....	T. E. Tatton, Esq. ...	5	1 0	114 $\bar{\pi}$	27.61	199
" (" ")...M	" " "	8	1 0	114 $\bar{\pi}$	26.78	...
Marple Top Lock	Great Central Rly. Co..	9	3 6	523 $\bar{\pi}$	26.83	186
" Aqueduct	" " "	9	3 6	321 $\bar{\pi}$	28.23	196
D New Brighton (Rutland House)..	W. Bell, Esq.....	5	0 11	130 $\bar{\pi}$	23.49	162
Godley Reservoir	G. H. Hill, Esq., C.E..	12	2 0	500	27.52	...
Newton	Great Central Rly. Co..	9	3 6	396 $\bar{\pi}$	28.95	197
Mottram Station	" " "	9	3 6	452 $\bar{\pi}$	28.74	180
" (Hill End)	" " "	9	3 6	680 $\bar{\pi}$	32.10	194
D Broadbottom (Harewood Lodge).	Col. Sidebottom	5	1 0	440	30.16	175
Hadfield (Millbrook).....	Mr. S. H. Doxon	8	3 10	442 $\bar{\pi}$	35.01	198

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with '01 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
CHESHIRE—(con.)						
D Hadfield (Millbrook).....	Mr. S. H. Doxon	12	4 0	442 T	35·66	198
Arnfield Reservoir.....	G. H. Hill, Esq., C.E..	12	2 6	550	34·59	...
Rhodes Wood Reservoir	" " "	12	1 0	520	39·00	...
Torrside Reservoir.....	" " "	12	1 6	680	40·63	...
Staleybridge (Swineshaw).....	" " "	8	3 0	884 T	39·69	...
Woodhead Reservoir.....	" " "	12	0 10	660	43·00	...
SOUTH LANCASHIRE.						
D Garston (Grassendale Park).....	Miss E. C. Abraham ...	5	1 0	35 T	24·12	175
D Aigburth (Kelton).....	Joshua Sing, Esq.	5	1 0	150 T	25·56	196
D " (Holmfield)	Miss Maxwell.....	5	1 0	100 T	24·83	211
D Woolton (Camp Hill Gardens)...	Mr. J. Stoney.....	5	1 0	189	25·40	203
D Warrington (Howley)	T. Longdin, Esq.	10	0 10	19 T	25·45	197
" (Central Station) ...	Great Central Rly. Co..	9	3 6	59 T	23·28	151
D " (Training College)..	Miss F. G. Timewell...	8	0 9	34 T	24·21	169
D Liverpool (Monument Place) ...	J. A. Brodie, Esq., C.E.	5	1 3	126 T	25·24	187
" (Smithdown Road) ...	" " "	10	0 9	135 T	25·59	190
" (Rathbone Road)	" " "	10	1 0	199 T	26·34	194
D " (Hope Street)	late George Jevons, Esq.	5	1 6	...	25·23	160
" (Huyton Vicarage) ...	Mrs. E. M. Sanderson..	5	0 11	116 T	28·32	206
" (Knotty Ash)	W. M. Reade, Esq. ...	5	1 0	100	26·47	...
" (Newsham Park)	J. A. Brodie, Esq., C.E.	10	1 0	140 T	26·09	191
" (Breeze Lane)	" " "	5	0 9	135 T	26·56	178
" (Huskisson Station) ...	Great Central Rly. Co.	9	3 6	40 T	24·55	175
D Heaton Mersey [Stockport]	W. B. Leigh, Esq.....	5	3 11	218 T	26·59	196
D Heaton Moor [Stockport]	F. W. Jordan, Esq., M.D.	5	1 0	235	29·17	206
D West Derby (Grove House)	Mr. F. J. Geary.....	5	1 0	82 T	27·32	197
D Manchester (Withington) No. 1	L. G. King, Esq.	5	1 3	110 T	27·65	190
D " " " " " No. 2	" " " " "	8	1 6	110 T	27·82	190
" (Urmston Sewage Works)	Mr. A. B. Ogden	8	2 3	72 T	25·87	194
D " (Lady Barn, Fallowfield)	Miss C. Herford.....	5	1 0	122 T	26·25	200
D St. Helen's (Eccleston Hill).....	J. J. Lackland, Esq., C.E.	12	2 9	268 T	25·35	171
Earlestown (Newton Cemetery)..	T. E. Clough, Esq. ...	5	1 0	75 T	28·56	...
Denton Reservoir	G. H. Hill, Esq., C.E..	12	2 0	324 T	27·60	...
Gorton	" " "	12	2 0	263 T	27·74	...
Manchester (Piccadilly)	Great Central Rly. Co..	9	40 0	194 T	25·87	181
" (Fairfield)	" " "	9	6 0	312 T	28·75	190
D " (Sackville Street) (R)	G. F. Walter, Esq. ...	8	3 2	118 T	24·80	171
D " (Oldham Road)	Dr. J. Niven	5	1 0	191 T	29·73	191
§ " (Whitworth Park)...	Meteorological Office...	8	1 5	126	30·98	225
D Eccles (Worsley New Hall)	Mr. W. B. Upjohn ...	8	8 0	100 T	25·54	145
D " (" Old Hall)	" " "	5	1 0	185	30·81	144
Blundellsands (Park Corner) ...	T. M. Reade, Esq. C.E.	5	1 0	33 T	22·05	176
D Manchester (Moston).....	J. T. Warren, Esq. ...	5	1 0	300 T	31·51	192
Ashton (Waterhouses)	Great Central Rly. Co..	9	3 6	345 T	28·80	191
§ Prestwich Asylum.....	Meteorological Office ...	8	1 0	295	33·27	206
" Reservoir	G. H. Hill, Esq., C.E..	12	2 0	356 T	29·09	...
Oldham (Gas Works)	" " "	5	4 0	600 T	33·67	...

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with ≥ 0.1 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level		
		in.	ft. in.	feet.	inches.	
SOUTH LANCASHIRE—(con.)						
Oldham (Honeywell Lane)	Great Central Rly. Co..	8	...	553	34.42	214
„ (Brushes Clough) <i>old g.</i>	C. J. Batley, Esq., C.E.	5	4 0	930 ∇	37.72	201
„ („ „) <i>new g.</i>	„ „ „	5	5 0	955 ∇	38.71	201
D Ormskirk (Aughton Springs) ...	C. E. Maples, Esq. ...	5	1 0	138 ∇	26.09	192
D† Downholland (Barton Moss).....	J. Baxendell, Esq.....	5	0 9	14 ∇	25.18	192
D† Bolton (Queen's Park)	T. Midgley, Esq.	5	1 0	390 ∇	39.19	208
† „ (Heaton Reservoir)	RHSwindlehurstEsqCE	6	1 3	520	37.88	229
D „ (Ash Lawn, Heaton). ...	Mrs. F. Taylor	5	1 0	406	38.92	214
D† „ (Smithills Hall)	Col. R. H. Ainsworth...	8	1 2	510 ∇	39.59	193
D Bury (Parsons Lane).....	R. B. Rigby, Esq.	8	10 0	316 ∇	34.13	179
† Milnrow (Piethorne, Kitcliffe)...	C. J. Batley, Esq., C.E.	5	4 6	769 ∇	38.84	213
D† „ („ „ Coldgreave)	„ „ „	5	4 6	894 ∇	35.29	203
† „ („ „ Norman Hill)	„ „ „	5	4 6	1076 ∇	33.66	205
† „ („ „ Rooden Res.)	„ „ „	5	4 6	1131 ∇	33.38	206
D Rochdale (Deeplish Hill)	J. H. Lancashire, Esq.	5	1 0	475 ∇	36.71	205
D† „ (Park Observatory) ...	Dr. Henry	8	0 6	472	37.08	207
D „ (Fieldhead)	S. S. Platt, Esq., C.E..	8	12 0	484 ∇	34.36	192
D „ (The Crescent)	T. H. Hayle, Esq., M.B.	5	40 5	513 ∇	35.20	222
D† „ (Ashworth Moor)	J. Diggle, Esq., C.E...	5	1 2	957 ∇	36.38	195
Bury (Gin Hall)	J. Cartwright, Esq. ...	8	1 0	475	38.34	203
„ („ „)	„ „ „	8	1 0	475	38.19	203
† Bolton (Belmont, Longworth) ...	RHSwindlehurstEsqCE	5	1 0	769	47.89	216
† „ („ „)	„ „ „	5	0 9	800	47.01	214
† „ („ „ Hordern) ... M	„ „ „	5	1 0	1147	46.70	...
† „ („ „ Slater Lane) ...	„ „ „	5	1 0	981	49.44	216
D Rochdale (Nayden Dean Filters).	J. Diggle, Esq., C.E....	5	1 8	761 ∇	38.55	185
„ („ „) <i>old g.</i>	„ „ „	5	1 7	948 ∇	31.78	...
„ („ „) <i>new g.</i>	„ „ „	5	1 4	948 ∇	35.86	...
† Ramsbottom (Killgate Brook) M	„ „ „	5	1 0	978 ∇	39.88	...
† „ (Cheesden Barn) M	„ „ „	5	1 0	997 ∇	38.97	...
† „ (ShuttleworthMoss)M	„ „ „	5	0 11	1076 ∇	39.09	...
„ (Higher Hill) ... M	„ „ „	5	1 0	...	36.18	...
D Rochdale (Spring Mill Whitworth)	W. Tomlinson, Esq. ...	8	1 7	720	42.68	202
D „ (Cown, „)	„ „ „	8	1 7	760	41.68	188
D „ (Facit)	T. S. Smithson, Esq....	5	0 6	855 ∇	41.09	211
† Entwistle	RHSwindlehurstEsqCE	5	1 0	700	43.16	212
† „ (Old Lyons)	„ „ „	5	1 0	1260	42.77?	...
† „ (Wayoh)	„ „ „	5	1 0	613	43.70	...
† „ (Broadhead)	„ „ „	5	1 0	886	44.53	244
Littleborough (Hollingworth) ...	Rochdale Canal Compy.	10	1 5	600	32.20	...
„ (Windy Bank) ...	„ „ „	10	1 6	605 ∇	29.90	...
† „ (Blackstone Edge)	„ „ „	10	1 9	1225 ∇	25.40	...
„ (Canal Summit) ...	„ „ „	10	1 10	700	27.00	...
„ (Chelburn)	„ „ „	10	1 3	800	31.00	...
„ (Byron Edge).....	„ „ „	8	1 5	1250 ∇	36.25	...
„ (Lenches)	„ „ „	10	1 10	806	34.60	...
Walsden (Calf Lee)	„ „ „	10	1 6	960	33.02	...
„ (Warland)	„ „ „	8	1 5	1250 ∇	33.05	...

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with '01 or more recorded.	
		Diameter	Height Above Ground.				Height Above Sea Level
		in.	ft.	in.	feet.	inches.	
SOUTH LANCASHIRE—(con.)							
Walsden (Whiteholme).....	Rochdale Canal Compy.	8	1	5	1250 T	33·86	...
„ (Rishworth)	„ „ „	8	1	5	1300 T	33·75	...
„ (Broadhead)	„ „ „	8	1	5	1300 T	25·81	...
Todmorden W W. (Ramsden Moor)	W. Tomlinson, Esq. ...	5	1	0	1326 T	30·87	...
„ „ („ „ Res.)	„ „ „	8	1	0	980 T	44·72	180
† Haslingden (Holden Wood)	J. Cartwright, Esq. ...	8	1	0	670 T	42·82	208
† „ (Calf Hey)	„ „ „	8	1	0	800 T	41·54	208
D „ (Hazelwood)	Dr. Harrison	5	1	9	750 T	45·98	189
D „ (Springfield Lodge)	John Stott, Esq.	5	1	0	800	37·76	209
D „ Vicarage	Rev. A. Spencer	8	1	6	820 T	42·56	210
Rawtenstall Cemetery	J. Johnson, Esq., C.E..	8	1	0	572	42·72	202
D† „ (Cloughbottom Res.)	J. Cartwright, Esq. ...	8	1	0	1025	40·84	188
† „ (Clough Bridge Res.)	„ „ „	8	1	0	930 T	36·66	227
CENTRAL LANCASHIRE.							
D Wigan Waterworks	W. Bolton, Esq.	8	1	6	225 T	28·81	195
D „ (The Mariebonne)	H Nowell ffarrington Esq	5	1	0	150 T	29·28	199
Horwich (Wallsuches)	C. E. Barr, Esq.	5	1	0	655 T	29·40	...
„ (Montcliffe)	„ „ „	5	4	2	901 T	31·77	...
† „ (Lower Rivington)	J. Parry, Esq., C.E.	5	1	0	440 T	31·62	213
† „ (Lower Knoll)	„ „ „	8	1	4	742 T	33·74	...
„ (Wildersmoor)	Col. R. H. Ainsworth...	8	1	2	1220	40·56	...
D Ormskirk (Rufford)	G. Hobkirk, Esq.	5	0	8	39 T	27·41	146
† Rivington (Brown Hill)	J. Parry, Esq., C.E. ...	8	1	4	843 T	31·40	...
D† „ (Stoneshouse) ... No. 1	„ „ „	8	1	4	623 T	33·51	212
† „ („ „) ... No. 2	„ „ „	10	1	4	623 T	33·55	...
† „ (Hurst Hill)	„ „ „	8	1	10	1029 T	34·60	...
† „ (Great Hill)	„ „ „	8	1	8	1240 T	40·07	...
† „ (Coppice Stile)	„ „ „	8	1	8	879 T	33·89	...
† „ (Gamekeeper's)	„ „ „	8	0	8	850 T	38·78	...
† „ (Higher Hill)	„ „ „	8	1	4	733 T	30·43	...
Southport (Birkdale)	J. Baxendell, Esq.	5	1	0	27 T	25·83	...
† „ (Hesketh Park)	„ „ „	5	1	0	38 T	26·19	173
D† „ („ „) M.O.g.	„ „ „	8	1	0	38 T	26·31	176
D† „ („ „) ... (R)	„ „ „	11	1	5	39 T	26·40	184
† „ (Lord Street Station)	Great Central Rly. Co. ...	9	3	6	21 T	22·75	163
Haslingden (Mitchells House Res.)	C. Harrison, Esq.	5	1	6	990	39·22	189
D Over Darwen (Sunnyhurst Hey.)	R. W. S. Saville, Esq. ..	8	1	8	915 T	40·43	213
D „ „ (Earnsdale Res.)	„ „ „	8	1	8	705 T	38·75	213
„ „ (Sewage Works)	„ „ „	5	1	6	460	35·12	189
„ „ (Hoddlesden) No. 1	W. Stubbs, Esq., C.E..	8	4	0	680	42·23	215
„ „ („ „) No. 2	„ „ „	8	1	0	675	42·09	214
„ „ (Daisy Green) No. 1	„ „ „	8	1	0	969	40·72	219
„ „ („ „) No. 2	„ „ „	8	1	0	969	40·65	217
„ „ (Pickup Bank) No. 1	„ „ „	8	1	0	720	40·46	219
„ „ („ „) No. 2	„ „ „	8	1	0	720	40·57	217
Preston (Brindle Rectory)	Rev. J. Kinton Jacques	5	1	8	380	34·64	...
D „ (Walton-le-Dale W. W.)	T. W. Elliott, Esq. ...	5	0	10	316	31·94	206

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.	Days with '01 or more recorded.
		Diameter	Height Above Ground.		Height Above Sea Level	1905	
		in.	ft.	in.	feet.	inches.	
NORTH LANCASHIRE—(con.)							
D Garstang (Bruna Hill)	Mrs. Wilson	5	0	6	90 $\bar{\pi}$	33·24	194
„ (Holme Ho., Bleasdale)	A. Wilson, Esq.	5	1	0	650 $\bar{\Gamma}$	45·37	...
„ (Fairsnape Fell)	„ „ „	5	1	0	1630 $\bar{\Gamma}$	57·36	...
† „ (Barnacre Reservoir)...	C. Arthur, Esq., C.E. ...	5	1	0	617 $\bar{\pi}$	37·24	...
† „ (Grizedale Reservoir)..	„ „ „	5	1	0	519 $\bar{\Gamma}$	33·85	...
† „ („ Stake House)	„ „ „	5	1	0	775	36·02	...
D§ Fleetwood	M. S. Gaulter, Esq. ...	5	1	4	30 $\bar{\pi}$	26·22	159
Pilling (Smallwood Hey)	Mr. J. H. Curwen	5	0	9	12 $\bar{\Gamma}$	29·95	...
D Garstang (Forton)	J. H. Bonny, Esq.	5	1	6	65 $\bar{\Gamma}$	30·76	200
Wyresdale (Abbeystead)	J. C. Mount, Esq., C.E. ...	8	1	0	366 $\bar{\Gamma}$	35·87	167
D Hampson-in-Ellel	W. G. Welch, Esq. ...	5	1	6	145 $\bar{\Gamma}$	31·55	189
Quernmore (Old Gauge Basin) M	J. C. Mount, Esq., C.E. ...	8	1	0	963 $\bar{\Gamma}$	40·33	...
D Lancaster (Bailrigg)	H. L. Storey, Esq.	5	1	3	225	34·21	224
Wyresdale (Wardstone)	J. C. Mount, Esq., C.E. ...	8	1	0	1440 $\bar{\Gamma}$	55·42	...
Quernmore (Brow Top)	„ „ „	8	1	0	552 $\bar{\Gamma}$	35·20	168
D Heysham House	Miss Tomlinson	5	1	6	80	36·16	198
D Lancaster (Strathspey)	A. B. S. Welch, Esq. ...	5	1	0	100 $\bar{?}$	32·65	207
D „ (Brettargh House) ...	Capt. J. Barker	5	1	6	161 $\bar{\Gamma}$	31·18	180
„ (Blea Tarn Reservoir).	J. C. Mount, Esq., C.E. ...	8	1	0	330	29·53	190
D§ „ (Greg Observatory) ...	W. French, Esq.	8	1	0	312	30·28	196
„ (Robert Street)	J. C. Mount, Esq., C.E. ...	8	1	0	62 $\bar{\Gamma}$	30·99	179
Caton (Escowbeck)	A. Greg, Esq.	12	1	6	150 $\bar{\Gamma}$	32·25	183
„ Vicarage	Rev. W. J. Locke	5	1	0	160 $\bar{\Gamma}$	34·06	...
D „	F. Storey, Esq.	5	1	0	250	34·72	212
D§ Morecambe	Mr. T. B. Lamb	8	1	0	24 $\bar{\pi}$	32·49	186
D Wray Vicarage	Rev. C. L. Reynolds... ..	5	1	0	165 $\bar{\Gamma}$	37·48	198
D Bolton-le-Sands	Rev. A. R. Tomlinson. ...	5	2	0	89 $\bar{\Gamma}$	30·64	169
Melling (Hornby Castle)	Col. W. H. Foster	8	1	8	100	38·52	157
D Barrow-in-Furness	W. Fergusson, Esq. ...	11	1	6	36 $\bar{\pi}$	29·17	166
D Carnforth (Over Killet)	W. Farrer, Esq. ....	...	...	...	...	32·12	184
Arkholme (Storrs Hall)	F. F. Pearson, Esq. ...	5	1	0	220	37·80	...
D Yealand Conyers	W. O. Roper, Esq.	5	1	0	250	36·40	214
D Ulverston (Urswick School Ho.)	J. Dobson, Esq.	5	1	3	140 $\bar{\Gamma}$	34·67	197
D Cartmel (Flookburgh)	R. Harrison, Esq.	5	1	0	75	37·79	179
D Lindal (Moor Mines)	F. A. Ainslie, Esq. ...	5	7	0	...	38·72	176
D Cartmel (Carke)	W. R. Nash, Esq.	5	1	0	76 $\bar{\pi}$	37·19	198
D „ (Holker)	Rt. Hon. V Cavendish MP	8	4	6	155 $\bar{\pi}$	39·09	209
D Grange-over-Sands (Belmont)...	Dr. W. M. Burman ...	5	1	0	190 \bar{B}	38·77	198
D „ „ „ (Eggerslack)	Miss Arkwright	5	2	3	140 \bar{B}	41·81	202
„ „ „ (Merlewood).	E. C. Miller, Esq.	5	0	9	320 $\bar{\Gamma}$	41·11	198
D Ulverston (Poaka Beck)	W. Fergusson, Esq. ...	11	1	6	512 $\bar{\pi}$	43·50	255
Cartmel (Pit Farm)	W. R. Nash, Esq.	5	1	0	122 $\bar{\Gamma}$	38·06	...
D „ (Aynsome)	J. Stewart Remington Esq	8	2	0	137 $\bar{\Gamma}$	41·12	202
Newby Bridge (Backbarrow) ...	Col. D. Ainsworth.....	5	2	6	122 $\bar{\Gamma}$	41·38	...
D Colton House	late Mrs. A. Christopherson...	5	1	0	226 $\bar{\pi}$	48·77	200
„ „	M „ „ „	8	1	0	226 $\bar{\pi}$	48·99	...
D Finsthwaite Vicarage	Rev. S. Inman	8	1	2	250	51·44	205
D Broughton-in-Furness	C. P. Chambers, Esq..	5	1	3	101	49·19	197

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with 01 or more recorded.
		Diameter	Height Above Ground.	Height Above SeaLevel	1905	
		in.	ft. in.	feet.	inches.	
NORTH LANCASHIRE—(con.)						
D Blawith Vicarage	Rev. J. Ashburner.....	5	0 10	185 T	53·40	188
D Cartmel Fell Vicarage	Rev. W. Summers.....	5	2 3	220 T	50·61	198
Coniston Water (Water Park)...	Miss C. Marshall .....	...	...	...	54·96	192
D Hawkshead(TowerBank,Sawrey)	Major W. Alcock-Beck	5	1 0	342 T	57·64	197
D Duddon Valley (Seathwaite Vic.)	Rev. J. B. Ditchfield...	5	1 0	330 T	66·98	201
Monk Coniston Park	Mr. W. G. Wilson.....	5	1 2	305 T	72·26	163
Hawkshead (Black Fell)	Miss C. Marshall	5	1 6	1055 T	68·32	...
D Skelwith Fold [Ambleside]	„ „ „	5	1 0	333	71·00	211
„ „ [„]	„ „ „	5	1 0	333	71·20	...

DIVISION IX.—YORKSHIRE.

WEST RIDING (SOUTHERN).

D Sheffield (W. W., Gleadless) ...	R. Rodinson, Esq.	8	0 8	700 T	29·96	195
D Dinnington Hall	Mr. C. Hope	5	0 6	392 T	21·39	171
D Sheffield (Stumperlow Hall) ...	H. J. Dixon, Esq.....	5	1 0	700 T	31·70	195
D „ (Redmires Res.)	L.S.M.Marsh, Esq., C.E.	10	5 0	1110 T	35·55	215
„ „ „ weekly	„ „ „	8	4 0	1110 T	34·36	...
D „ (Tylecote, Ranmoor) ...	J. Dixon, Esq.	5	1 0	610 T	28·55	179
F „ (Rivelin)	L.S.M.Marsh, Esq., C.E.	10	4 0	564 T	31·00	197
„ „ „ weekly	„ „ „	8	4 0	564 T	30·91	...
D „ (Crookes)	„ „ „	10	2 0	629 T	24·31	175
„ „ „ weekly	„ „ „	8	2 0	629 T	24·27	...
D „ (Weston Park)	E. Howarth, Esq.	8	1 0	430 T	24·40	173
„ „ (Victoria Station)	Great Central Rly. Co..	9	3 6	188 T	20·57	148
D „ (Dale Dyke Reservoir).	L.S.M.Marsh, Esq., C.E.	10	3 0	715 T	35·99	210
D Rotherham (Ulley Res.)	G. W. Jennings, Esq... 5	1 0	184 T	16·29	133	
Sheffield (Tinsley Locks)	Great Central Rly. Co..	9	...	117 T	17·56	139
D Tickhill (Sandbeck Park) ...	Mr. G. Summers.....	8	1 0	150 T	18·42	158
Rotherham (Moorgate)	C. E. Chrimes, Esq. ...	5	1 0	262	20·36	...
D Tickhill ..	G. G. Phillips, Esq. ...	8	1 0	61 T	18·84	143
D Rotherham (Thrybergh)	F. Oscar Kirby, Esq. C.E.	8	1 0	184 T	18·46	152
D Sheffield (Chapelton)	Mr. D. Bell.....	8	5 0	581 T	22·15	159
D Doncaster (Firsby Reservoir) ...	F. Oscar Kirby, Esq. C.E.	8	1 4	189 T	19·76	155
D „ (Wadworth Hall).....	Rev. J. C. Ross	8	1 0	190 T	20·61	167
D Wentworth Woodhouse	Mr. J. Hughes	5	0 10	360 T	21·98	156
D Swinton (Council Offices)	R. Fowler, Esq., C.E... 8	1 0	126 T	19·68	174	
D Mexborough	G. Fenwick Carter Esq. C.E.	5	1 6	58 T	17·78	158
Wortley	Great Central Rly. Co..	9	3 6	548 T	19·45	...
Elsecar	„ „ „	9	3 6	181 T	18·49	...
Langsett Moor (Pike Lowe).....	J. H. Taylor, Esq., C.E.	5	1 0	1358 T	40·56	...
„ „ (Ewden Height).	„ „ „	5	1 0	1099 T	34·98	...
„ „ (Range Moor) ...	„ „ „	5	1 0	1040 T	38·22	...
D „ „ (Upper Midhope)	„ „ „	5	1 0	912 T	36·07	204
Wortley (Service Reservoir).....	„ „ „	5	1 0	700	24·15	166
D Langsett	W. Watts, Esq., C.E... 8	4 3	960 T	30·61	179	
D „	„ „ „	8	4 9	761 T	29·63	179

DIVISION IX.—YORKSHIRE.—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with 0.1 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level		
		in.	ft. in.	feet.	inches.	
W. RIDING (SOUTHERN)-(con.)						
D Hoyland (King Street).....	J. W. Wilson, Esq.	5	1 0	330 $\bar{\pi}$	21.50	148
D Wath-upon-Dearne (Chapel St.)	Dr. F. J. Burman	8	3 0	188 $\bar{\Gamma}$	20.48	151
Worsborough	Great Central Rly. Co..	9	3 6	225 $\bar{\Gamma}$	19.82	...
Stainborough (Wentworth Castle)	W. Fisher, Esq.	8	2 6	520 $\bar{\Gamma}$	22.01	...
Doncaster	Great Central Rly. Co..	9	3 6	32 $\bar{\Gamma}$	16.59	135
D " (Pumping Station) ...	F. Oscar Kirby, Esq. C.E.	8	1 2	30 $\bar{\pi}$	18.69	141
D " (Magdalens)	Mr. C. Parkin	5	4 9	46 $\bar{\Gamma}$	17.46	134
Dunford Brdg. (Up. Windleden) M	H. Dearden, Esq., C.E.	12	2 2	1100	45.31	...
" " (Dearden Res.) M	" " " "	12	1 6	1244 $\bar{\Gamma}$	45.08	...
" " Station	Great Central Rly. Co..	9	3 6	954 $\bar{\Gamma}$	37.45	223
D " " Reservoir	H. Dearden, Esq., C.E.	12	2 0	1111 $\bar{\Gamma}$	39.93	214
Penistone	Great Central Rly. Co..	9	3 6	717 $\bar{\Gamma}$	22.84	166
" (Hazlehead)	" " " "	9	3 9	868 $\bar{\Gamma}$	34.71	177
" (Ingbirchworth Res.)	J. H. Taylor, Esq. C.E.	8	1 3	853 $\bar{\pi}$	28.90	164
D Barnsley (Church Street)	Dr. F. J. Sadler	5	5 2	350 $\bar{\Gamma}$	21.82	188
" (Jordan Hill)	J. H. Taylor, Esq., C.E.	8	1 3	460	20.34	153
"	Great Central Rly. Co..	9	3 6	317 $\bar{\Gamma}$	19.08	...
" (Cawthorne)	Rev. C. T. Pratt	5	1 6	340 $\bar{\pi}$	24.07	177
D Doncaster (Kirk Bramwith)	H. A. Brundell, Esq. C.E.	5	1 0	17 $\bar{\pi}$	18.03	160
D Hemsworth Hall	F. G. Leatham, Esq.	5	1 0	250 $\bar{\Gamma}$	18.71	175
D Ackworth (Nostell Priory)	Mr. J. Easter	5	4 0	...	19.30	135
Goole (Adlingfleet)	Cecil C. Argles, Esq.	5	1 2	9 $\bar{\Gamma}$	17.73	...
" (Swinfleet)	Mr. G. Harrison	5	5 6	...	21.26	...
D "	W. E. Grayburn, Esq.	5	1 0	18 $\bar{\pi}$	20.80	170
WEST RIDING (CENTRAL).						
Greenfield (Chew Mount)	G. H. Hill, Esq., C.E..	7	0 7	...	50.00	...
" (Yeoman Hey)	" " " "	7	0 7	759	45.20	...
Holmbridge (Yateholme)	O. J. Kirby, Esq., C.E.	7	1 0	861 $\bar{\pi}$	49.00	...
" (Holme Styes)	L. Hinchcliffe, Esq. ...	7	2 6	830 $\bar{\Gamma}$	37.10	...
" (Boshaw Whams) ...	" " " "	7	2 6	930 $\bar{\Gamma}$	38.90	...
" (Bilberry Reservoir)..	" " " "	7	2 6	820 $\bar{\Gamma}$	46.80	...
Saddleworth Station	L. K. Jones, Esq.	5	4 2	630 $\bar{\Gamma}$	35.38	...
D Strinesdale [Oldham]	C. J. Batley, Esq., C.E.	5	4 0	815 $\bar{\pi}$	33.01	201
Meltham (Harden Moss)	J. W. Schofield, Esq.	8	1 2	1212 $\bar{\Gamma}$	42.78	...
" (" ") <i>new g.</i>	" " " "	8	1 0	1212 $\bar{\Gamma}$	39.81	...
Wessenden Head	" " " "	8	1 0	1270 $\bar{\Gamma}$	39.16	...
" (Hollin Bank Moss)...	" " " "	8	1 0	1360 $\bar{\Gamma}$	31.34	..
" (Great Butterley)	" " " "	8	1 0	1110 $\bar{\Gamma}$	39.08	...
" (Bobus)	" " " "	8	1 0	1200 $\bar{\Gamma}$	38.01	...
D Standedge (Castleshaw, Broadhead)	C. J. Batley, Esq., C.E.	8	4 6	876 $\bar{\pi}$	35.02	205
† " (" Cudworth)	" " " "	5	4 6	1410 $\bar{\Gamma}$	27.54	210
" (Redbrook Res.) <i>old g.</i>	L. K. Jones, Esq.	8	1 8	1150	41.13	...
" (" ") <i>new g.</i>	" " " "	8	1 6	1150	40.39	...
Meltham (Brow Grains)	J. W. Schofield, Esq.	8	1 0	900 $\bar{\Gamma}$	41.10	...
† Denshaw (Ox Hey)	C. J. Batley, Esq., C.E.	8	4 6	1030 $\bar{\pi}$	36.21	201
D† " (New Year's Bridge)...	" " " "	8	4 0	1012 $\bar{\pi}$	39.62	201
† " (Ready Con Dean)	" " " "	8	4 0	1414 $\bar{\pi}$	37.14	201

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with .01 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
W. RIDING (CENTRAL)—(con.)						
Meltham (Royd Edge)	C. L. Brook, Esq.	8	1 0	585 T	43·87	...
D ,, (Harewood Lodge).....	„ „ „	8	1 0	514 L	39·04	191
„ Grange	J. W. Schofield, Esq....	8	1 2	850 T	36·95	...
Marsden (Deer Hill)	„ „ „	8	1 0	1149 T	42·01	...
„ („)	„ „ „	8	1 0	1149 T	43·85	...
Wakefield (Woolley Park Gardns.)	Mr. T. Wells	5	1 6	400	22·57	160
D Slaithwaite (Blackmoorfoot).....	J. W. Schofield, Esq....	8	1 0	800 T	40·60	213
D ,, (Inglewood)	J. Woodhead, Esq. ...	5	1 0	550 T	38·28	196
D Wakefield (Walton Hall).....	E. Simpson, Esq.	5	0 8	140 T	16·00	130
Huddersfield (Bank Field, Golcar)	J. R. Sykes, Esq.	5	1 0	400 T	31·04	166
D ,, (Cemetery)	Mr. J. Firth	8	4 0	400 T	27·26	187
D§ ,, (Dalton)	J. W. Robson, Esq. ...	8	1 0	350 T	23·78	170
† Rishworth (Ringstone Res.)	C. Clemesha Smith Esq. CE	5	1 0	990 T	34·28	186
„ (Stott Hall).....	„ „ „	5	1 0	935 T	37·84	177
+ ,, (Great Walden Edge)	„ „ „	5	0 10	1135 T	42·10	223
D Mirfield (Cote Wall)	J. Watson-Kaye, Esq..	8	1 2	200	26·72	162
Ossett (Lowood House).....	Dr. W. Greenwood ...	5	0 6	350 T	20·75	...
§ Wakefield Prison	Mr. A. Clyde	5	1 0	96 T	20·05	154
„ (Field Head)	C. Clemesha Smith Esq. CE	8	1 6	250 T	21·30	...
D ,, (Stanley Grange)	H. S. Haworth, Esq....	5	1 0	235 T	18·82	153
Elland.....	P. H. Whitwam, Esq..	8	1 0	307 T	26·62	...
Batley (Staincliffe Reservoir) ...	O. J. Kirby, Esq., C.E	7	1 0	492 T	18·68	...
„ (Woodwell Dépôt)	„ „ „	8	1 0	301 T	21·29	...
Ardley Reservoir	C. Clemesha Smith Esq. CE	5	1 2	395 T	22·06	157
Sowerby Bridge (Brockwell Triangle)	W. Cyril Empson, Esq.	8	1 0	500 T	33·32	...
„ „ (Haugh End)	J. S. Rawson, Esq. ...	5	0 8	450 T	32·80	192
D Fielden Hospital [Todmorden]...	Mr. F. Rogers	5	1 0	650 T	37·29	202
D Sourhall Hospital [„].....	„ „ „	5	1 0	1020 T	43·48	186
Halifax (Bents, Norland)	J. S. Rawson, Esq. ...	5	0 8	800 T	23·96	...
„ (Salterhebble)	R. Lyon, Esq.	11	4 0	251 T	19·91	150
D ,, (Hall Ings, S. Owrarn)...	Rev. G. E. Aspinall ...	5	0 7	750 T	24·15	176
„ (Thorpe)	M. J. S. Rawson, Esq. ...	8	0 8	345 T	34·15	...
„ („)	„ „ „	5	0 8	345 T	34·34	186
D ,, (Public Library)	J. Whiteley, Esq.	8	1 0	625 T	25·94	187
„ (Albert).....	R. J. Hartley, Esq., C.E.	5	1 0	795 T	27·41	...
„ (Gibbet)	„ „ „	5	6 0	568 T	27·37	...
„ (Ramsden Wood).....	„ „ „	8	1 2	816 T	30·07	...
D Mytholmroyd (Ewood Hall).....	Mrs. Riley	5	1 6	500 T	33·14	187
Hebden Bridge (Falling Royd)...	A. R. Crossley, Esq....	4	1 0	479 T	34·78	189
D ,, (Summerfield)...	J. Hoyle, Esq.	5	1 0	800 T	34·19	184
Halifax (Castle Carr)	R. J. Hartley, Esq., C.E.	...	...	1060 T	36·00	...
„ (Midgley Moor)	M. „ „ „	7	0 6	1350 T	38·23	...
„ (Warley Moor).....	M. „ „ „	7	0 6	1325 T	38·13	...
„ (Ogden)	M. „ „ „	8	1 3	990 T	35·32	...
„ (Ovenden Moor) .....	„ „ „ .....	...	...	1375	37·97	...
„ (Widdop).....	„ „ „ .....	...	...	1050	38·65	...
„ (Walshaw Dean).....	M. „ „ „	8	0 3	1380 T	35·14	...
D South Milford Rectory	Rev. F. J. Young	5	1 2	70 T	22·00	177

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with 0.1 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
W. RIDING (CENTRAL)—(con.)						
Selby	Mr. J. Palgrave	5	1 6	20	21.00	...
§ Garforth	Meteorological Office ...	...	...	...	22.04	169
D Pudsey	Dr. W. Lovell Hunter.	5	1 0	521 T	21.34	147
Bradford (Horton, Grange Road)	Mr. A. E. Chilton	5	5 0	450 T	28.56	183
„ (Queensbury).....	R. J. Foster, Esq.....	8	2 2	1050	27.91	...
„ (Brayshaw Reservoir)..	J. Watson, Esq., C.E..	5	1 0	982 T	29.68	180
D „ (The Exchange).....	H.A. Johnson, Esq., C.E.	8	65 6	395 T	25.75	187
„ (Thornton Moor)	J. Watson, Esq., C.E..	5	1 0	1218 T	30.62	237
„ (Stubden)	old g. „ „ „ ..	8	1 0	1075 T	41.00	207
„ („)	new g. „ „ „ ..	8	1 0	1075 T	38.01	207
„ („ Reservoir) ...	„ „ „ ..	5	1 0	1071 T	36.11	207
„ (Nan Scar, Oxenhope)M	„ „ „ ..	5	1 0	1101 T	42.72	...
„ (Stairs Top)	„ „ „ ..	5	1 0	1401 T	36.46	...
„ (Leeming Reservoir) M	„ „ „ ..	5	1 0	850 T	33.77	169
„ (Doe Park)	old g. „ „ „ ..	8	1 0	810 T	39.59	217
„ („ „)	new g. „ „ „ ..	5	1 0	811 T	34.43	217
D „ (Manningham Lodge)..	J. Priestman, Esq.....	5	1 0	507	26.00	173
„ (Leeshaw Res.)	M J. Watson, Esq., C.E..	5	1 0	875 T	41.40	...
„ (Chellow Dean)	„ „ „ ..	5	1 0	645 T	22.25	179
„ („ Heights).....	„ „ „ ..	5	1 0	848	29.40	193
„ (Hewenden Res.) old g.	„ „ „ ..	5	1 0	700 T	35.18	207
„ („ „) new g.	„ „ „ ..	5	1 0	701 T	32.36	207
„ (Heaton Res.)	old g. „ „ „ ..	8	1 0	530 T	26.50	180
„ („ „)	new g. „ „ „ ..	5	1 0	531 T	23.15	179
Leeds (Wortley Res.)	C.G. Henzell, Esq., C.E.	8	0 9	307 T	22.93	160
„ (Knothrop)	„ „ „ ..	8	0 9	72 T	20.35	143
„ (Holbeck)	Messrs. J. Rhodes & Co.	10	32 0	127 T	17.04	...
D „ („ W. Works Depot)	C.G. Henzell, Esq., C.E.	8	0 9	93 T	19.73	146
D „ (Museum).....	H. Crowther, Esq.....	10	46 0	177 T	20.78	133
„ (Woodhouse Moor).....	C.G. Henzell, Esq., C.E.	8	0 9	307 T	21.28	152
„ (Weetwood Reservoir) ...	„ „ „ ..	8	0 9	328 T	21.36	159
„ („ Lodge).....	J. P. Reay, Esq.	5	0 9	400 T	19.97	...
D „ (Allerton Hill)	T. E. Fenwick, Esq. C.E.	5	0 7	418 T	22.32	178
Shipley (Cragg End)	Leeds & L'pool Canal Co.	8	1 0	304	24.12	...
Oakworth (Oldfield)	W.H. Hopkinson Esq. C.E.	5	1 0	1008 T	36.66	...
Bingley (Gilstead Filters)	J. Watson, Esq., C.E..	5	1 0	572 T	22.67	161
D Keighley (The Knowle)	W. Clough, Esq.	5	1 0	385 T	29.17	192
Adel (Lawns Wood)	Mr. S. R. Dyson.....	5	1 0	475 T	23.09	...
Bingley (Sunnydale).....	J. Watson, Esq., C.E..	5	1 0	825	25.39	172
D Skipton (Silsden)	Mr. A. Elder	5	1 0	432 T	25.21	163
„ („ Gill Grange) ...	J. Watson, Esq., C.E..	5	1 0	883	25.68	...
„ („ Reservoir)	„ „ „ ..	5	1 0	560 T	22.02	163
„ (Cringle's Reservoir) ...	„ „ „ ..	5	1 0	760 T	23.67	163
„ (Craven Herald Office)...	E. Townsend, Esq.....	8	2 4	360	25.06	180
„ (Hawthorne Cottage) ...	Leeds & L'pool Canal Co.	8	1 0	380	23.94	...
Gargrave (Banks Hill Bank Newton)	„ „ „ ..	8	1 0	545	26.02	...
„ (Ray Bridge Hill)	„ „ „ ..	8	0 10	459	22.85	...

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with '01 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level		
		in.	ft. in.	feet.	inches.	
W. RIDING (CENTRAL)—(con.)						
Gargrave (Great Scarnber Hill)...	Leeds & L'pool Canal Co.	8	0 9	676	23.43	...
Winterburn (Long Hill)	" " "	8	0 9	705	23.94	...
" (Brown Hill).....	" " "	8	1 0	961	34.10	...
D Malham Tarn	old g. Mr. T. Coulthard	5	1 0	1296	51.03	219
D " "	new g. " "	8	1 0	1296	51.08	219
WEST RIDING (NORTHERN).						
Adel (Eccup, South)	C.G. Henzell, Esq., C.E.	8	0 9	390	22.21	162
" (" East)	" " "	8	0 9	375	24.90	160
D Harewood House	Countess of Harewood.	5	0 10	300	24.37	179
D Otley (Danefield)	J. E. Sharpe, Esq.....	5	0 9	393	23.74	166
D " (Sewage Works)	" " "	5	0 9	169	21.66	144
Harewood (Arthington)	C.G. Henzell, Esq., C.E.	8	0 9	139	31.13	153
D Bolton-by-Bowland	Mrs. Wright	8	1 0	300	41.31	175
D Ilkley (Eaton Road)	A. Wilson, Esq.....	5	1 0	395	30.38	193
D " (Brook Street)	G. W. Worfolk, Esq... ..	5	20 0	312	26.59	165
Pannal (Kirkby Overblow)	A. Rowntree, Esq.....	5	0 9	340	18.35	139
Leathley (Lindley Wood S).....	C.G. Henzell, Esq., C.E.	8	0 9	312	27.17	192
" (" " N).....	" " "	8	0 9	320	26.68	192
D Ilkley (March Gill Reservoir) ...	J. E. Sharpe, Esq.....	5	0 9	665	26.44	183
D† York (Mount Villas)	J. S. Rowntree, Esq....	5	1 0	70	22.25	194
D† " (Cherry Hill)	Mrs. H. Richardson ...	5	1 6	50	21.13	148
† " (Museum Gardens)	Meteorological Office ...	8	1 0	57	20.68	161
D " (The Retreat)	Dr. H. J. Mackenzie ...	5	1 0	74	21.76	166
D† " (Burton Croft)	G. Crawhall, Esq.	5	0 10	48	20.82	168
Slaidburn (Knowlmore Manor)...	W. Peel, Esq.....	5	1 0	417	51.27	...
" (Hareden Brook) ...	M T. Cookson, Esq.	8	1 2	540	59.65	...
" (Langden Brook) ...	M " " "	8	1 2	556	59.95	...
" (Whiteholme)	W. K. Wilkinson, Esq.	5	1 3	475	43.88	148
Skipton (Chelker Reservoir) ...	M J. Watson, Esq., C.E....	5	1 0	730	25.77	...
Fewston (Timble Ings)	C.G. Henzell, Esq., C.E.	8	0 9	912	30.92	206
" (")	" " "	8	0 9	720	22.34	153
" (Swinsty E.)	" " "	8	0 9	460	28.21	216
" (" W.)	" " "	8	0 9	425	30.26	216
" (South)	" " "	8	0 9	525	28.30	181
" (North)	" " "	8	0 9	525	26.79	181
" (Blubberhouses)	" " "	8	0 9	575	29.88	210
D Wetherby (Ribston Hall)	Mr. J. McClelland	5	1 2	130	22.74	152
Bolton Abbey Estate Office	A. Downs, Esq.....	5	1 2	350	33.63	194
Harrogate (Ten Acre Reservoir).	E.W. Dixon, Esq., C.E.	8	1 6	620	21.97	144
" (Bonny Cap)	" " "	8	1 6	710	25.07	176
" (Wilson's Farm)	" " "	8	1 6	630	24.55	179
" (Beaver Dyke Res.)...	" " "	8	0 11	575	24.05	179
D§ " (Harlow Hill)	G. Paul, Esq.....	5	1 0	480	24.51	172
" (Irongate)	E.W. Dixon, Esq., C.E.	8	1 6	455	22.99	153
D " (The Stray)	Mr. G. W. Gledhill ...	5	1 0	380	23.04	164
D " (Park Parade)	" " "	5	1 0	400	23.80	164
" (Scargill)	E. W. Dixon, Esq., C.E.	8	1 0	646	25.38	179

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with .01 or more recorded
		Diameter	Height above Ground.	Height above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
W. RIDING (NORTHERN)-(con.)						
Slaidburn (Dunsop Houses)	W. Stubbs, Esq., C.E..	8	1 0	450 T	54·02	184
„ (Middle Knoll)..... M	„ „ „	8	2 6	1298 T	50·40	...
„ (Brennand)	„ „ „	8	1 0	820 T	63·85	192
„ (Whitendale)	„ „ „	8	1 0	830 T	61·72	190
„ (Cabin Hill)..	„ „ „	8	3 1	1559 T	60·30	...
„ (Baxton Fell)	„ „ „	8	2 6	1540 T	51·90	...
D Goldsborough Hall.....	Mr. R. Goodall	5	1 0	...	23·20	164
Barden Reservoir	J. Watson, Esq., C.E..	8	1 2	746 T	33·29	225
„ „	„ „ „	5	1 2	746 T	32·67	225
„ „ (Upper).....	„ „ „	5	1 0	1250 T	31·83	225
D Nun Monkton...	H. Horsfield, Esq.....	5	0 6	45	19·02	155
D Birstwith (Swarcliffe)	Capt. C. S. Greenwood.	5	1 0	510 T	26·54	166
Burnsall (Thorpe Fell)	J. Watson, Esq., C.E..	5	1 0	1661 T	31·41	...
„ (Sandbed Beck)	„ „ „	5	1 0	676 T	32·65	...
D „ Rectory	Rev. W. J. Stavert ...	8	4 7	503 T	34·65	215
D Knaresborough (Farnham)	late Rev. R. Elmhirst...	5	1 0	170 T	19·83	168
Ouseburn(ThorpeUnderwoodHall)	F. W. Slingsby, Esq....	5	1 1	60 T	21·52	148
D Settle (The Terrace)	J. W. Shepherd, Esq..	8	1 2	531 T	38·51	207
D Pateley Bridge (Castle Stead) ...	Mr. C. May.....	5	1 0	410	32·14	174
Grimwith Reservoir	J. Watson, Esq., C.E..	8	1 0	890 T	36·69	209
„ „	„ „ „	5	1 0	893 T	36·14	209
„ (Trunla Hill)..... M	„ „ „	5	1 0	1201 T	31·12	...
Pateley Moor (Smaden Head) ...	C.G. Henzell, Esq., C.E.	8	0 9	784 T	27·03	181
Dallow Moor (High Skeldon) ...	„ „ „	8	0 9	674 T	33·88	186
„ „ („ „) ...	„ „ „	5	0 9	674 T	28·47	186
„ „ (Harper Hill)	„ „ „	8	0 9	859 T	34·37	184
„ „ („ „)	„ „ „	5	0 9	858 T	27·43	184
D Ripon (South Lodge)	Mrs. G. Simpson	5	1 0	126	23·42	154
„ (Studley Royal Gardens).	Press-cutting	5	1 6	...	23·53	169
D „ (The Red House)	F. D. Wise, Esq.	5	1 0	120	22·28	145
Ramsgill(Raygill House)	J. Watson, Esq., C.E..	5	1 0	925 T	35·66	150
„	„ „ „	5	1 0	450 T	29·23	146
D Arncliffe Vicarage	Rev. W. A. Shuffrey...	8	2 6	732 T	51·25	218
D „ (Amerdale).....	J. Hammond, Esq. ...	8	1 6	742 T	49·27	214
D Ingleton Vicarage	Rev. J. Turner	5	0 6	500	38·03	194
D „ (Kingsdale Head)	Mr. J. Webster	5	0 10	994 T	51·02	179
Nidderdale (High Riggs)	J. Watson, Esq., C.E..	5	1 0	1010 T	39·36	166
„ (East Gill Head)... M	„ „ „	5	1 0	1710 T	45·73	...
„ (Rain Stang)	„ „ „	5	1 0	1470 T	35·61	...
„ (Angram)	„ „ „	5	1 0	1150 T	41·57	215
„ (New Houses)	„ „ „	5	1 0	755 T	35·09	177
KirkbyMalzeard (Drovers' Inn)..	C.G. Henzell, Esq., C.E.	8	0 9	576 T	31·33	179
„ „ („ „)..	„ „ „	5	0 9	576 T	34·29	179
„ „ (Hawset)	„ „ „	8	0 9	820 T	28·24	193
„ „ (Hambleton Hill)	„ „ „	8	0 9	1106 T	32·69	...
„ „ (Bagwith Brae).	„ „ „	8	0 9	703 T	27·16	179
„ „ („ „)..	„ „ „	5	0 9	703 T	26·84	179
„ „ (Stone & Ears Wham)	„ „ „	8	0 9	1118 T	32·46	...

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with '01 or more recorded.
		Diameter	Height Above Ground.	Height Above Sea Level		
		in.	ft. in.	feet.	inches.	
NORTH RIDING—(con.)						
D Malton	M. B. Slater, Esq.	10	0 10	139 A	21.88	155
D Gilling (Grimstone Manor)	W. R. I. Hopkins, Esq.	5	0 8	400 T	22.18	161
§ Hovingham Hall	Meteorological Office...	5	0 6	120	24.16	156
D Thirsk (Dalton)	Rev. G. H. Chilman ...	5	1 0	87 T	18.50	170
§ Ampleforth Abbey	Meteorological Office...	...	1 0	350	25.17	172
Thirsk (Sowerby)	A. C. Bamlett, Esq. ...	5	...	...	19.43	...
D ,, (The Hall)	Reginald Bell, Esq. ...	5	1 2	120 T	19.53	152
,, (Mount St. John) <i>Snow g.</i>	A. J. Walker, Esq. ...	5	1 7	535 A	22.00	...
D ,, (" " ")	" " " " ...	5	1 0	523 A	21.88	163
,, (" " ")	M " " " " ...	5	1 10	542 A	21.56	...
,, (Boltby)	" " " " ...	5	0 7	495 A	22.34	...
,, (Cliff Head, Boltby)...	M " " " " ...	5	4 7	773 A	19.92	...
,, (" " " ")...	M " " " " " ...	5	1 4	772 A	24.38	...
D Pickering	Dr. J. L. Kirk	5	1 0	150	21.74	203
D Bedale (Burneston)	Rev. J. T. Hartley	5	3 9	110 T	18.42	152
D ,, (Park House)	Miss M. Greenwood	5	1 1	180	20.60	181
,, (Newton House)	Mr. W. Paylor	5	2 6	125	19.75	...
D Northallerton (Thornton-le-Moor)	Col. R. W. Peckitt	5	1 0	126 T	20.35	153
Leyburn (Bolton Hall)	Mr. F. Scrivener	8	1 0	420	24.74	...
D Seamer (Irton)	W. Millhouse, Esq. C.E.	8	1 0	94 A	24.55	185
Scarborough (Osgodby)	" " " "	8	1 0	166 A	19.87	...
§ ,,	Royal Meteorological Soc	5	1 0	101	19.51	177
D ,, (Scalby)	Mrs. J. W. Rowntree...	5	0 11	300 B	26.67	187
D Bedale (Ivy Cottage, Fencote)...	Mr. W. Culverwell	5	1 6	125 T	17.66	146
D Northallerton (Osmotherley)....	T. Yeoman, Esq.	8	0 8	660	21.89	142
Cowton (Pepper Arden)	Mr. A. Bentley	5	1 0	188 T	21.31	135
§ Rounton Grange	Royal Meteorological Soc	8	1 0	249	21.10	188
Richmond (Gilling West)	G. Roper, Esq.	5	1 3	303 T	29.50	141
D Ingleby Manor	Lord De L'Isle	5	0 11	460 T	28.68	166
D ,, Greenhow	Mr. P. Huntington	5	1 0	448 T	29.82	201
East Layton Hall	Mrs. Proud	11	1 0	575 T	22.93	...
D Stanwick Park [Darlington]	Mr. W. Higgin	5	1 1	300 T	24.58	167
D Forcett Park ["]	J. Shaw, Esq.	6	1 6	351 T	25.83	169
D Whitby (Park Hall, Aislaby) ...	Rev. J. H. Richardson..	5	1 0	500	26.66	219
D§ ,, (Royal Crescent)	T. Newbitt, Esq.	8	1 0	90	17.84?	147
D Great Ayton (Easby Hall)	J. J. Emerson Esq., LL.D.	5	1 0	355	25.73	162
D Kildale Hall	R. B. Turton, Esq. ...	5	1 2	600 T	29.69	173
D Stokesley (Seamer).....	J. Pounds, Esq.	5	1 4	250	21.18	163
D Whitby (Mulgrave Castle)	Mr. J. Corbett	5	1 0	410 T	22.72	177
D Guisborough (Lockwood Beck Res)	W. I'Anson, Esq., C.E.	8	1 0	632 A	25.99	182
,, (" " " ") M	" " " " " ...	8	...	...	25.82	...
D Middlesbrough (Ormesby)	Mr. W. Sanderson.....	5	1 0	100 T	21.12	165
D ,, (Albert Park)	J. M. Parnaby, Esq. ...	8	1 0	30	18.95	174
§ Saltburn-by-the-Sea	Meteorological Office...	...	...	...	16.42?	163
D Hury Res. [Barnard Castle].....	D. D. Wilson, Esq. ...	8	1 0	866 T	27.32	183
D Grassholme Res. [Middleton] ...	" " " " " ...	8	1 0	936 A	30.63	174
Mickleton (Lime Kiln Pasture) 1	Dr. H. R. Mill	8	1 0	1175 T	26.45	...
,, (" " " ") 2	" " " " " ...	8	1 0	1175 T	23.60	...

DIVISION X.—NORTHERN COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with ≥ 0.1 or more recorded.	
		Diameter	Height Above Ground.		1905		
		in.	ft.	in.	feet.	inches.	
DURHAM.							
D Darlington (Hurworth Grange)..	Mrs. J. E. Backhouse...	5	1	0	161 ∇	21.44	167
D " (Cleveland Parade)..	W. W. Willmott, Esq.	5	1	3	160 ∇	20.65	162
" (Public Park).....	Mr. J. Morrison	5	1	3	...	19.82	...
" (Hummersknott) ...	Mr. J. Short	5	1	0	200	20.34	...
D Barnard Castle (County School)..	E. Wells, Esq.	5	1	6	540 ∇	21.63	177
D Gainford	W. Gregson, Esq.	5	1	0	260 ∇	19.01	136
Stockton (Rimswell)	W. Anderson, Esq., C.E.	5	1	0	100 ∇	19.70	179
" (Ropner Park)	M. H. Sykes, Esq.....	5	1	9	61 ∇	19.49	140
D Hurworth Burn (Crookfoot).....	T. Bower, Esq., C.E....	10	1	6	293 ∇	21.28	183
West Hartlepool (Lynn Street)..	Mr. H. Lamb.....	5	6.5	0	84	14.98	154
D " "	T. Bower, Esq., C.E....	10	1	0	35 ∇	19.75	143
D " " (Bradgate).....	G. H. Baines, Esq.....	8	1	3	100 ∇	21.42	193
D Hurworth Burn	T. Bower, Esq., C.E....	10	1	0	357	23.15	138
D Hartlepool (Hart Reservoir).....	" " " "	10	1	0	172 ∇	19.24	138
D Wolsingham	Mr. A. Mitchell	5	1	0	464 ∇	26.45	190
Eastgate (All Saints' Vicarage)..	Rev. J. G. B. Knight...	5	0	9	768	31.26	198
D Stanhope (Parson Byer's Quarry)	Messrs. Bell Bros.	5	6	8	846 ∇	24.74	135
D Wearhead Station	Mr. R. Rust ..	5	0	6	1104	40.21	180
§ Durham Observatory.....	Meteorological Office ...	12	4	0	340	19.19	139
D § Ushaw (St. Cuthbert's College)..	Rt. Rev. Mgr. Corbishley	5	0	9	600 ∇	21.09	160
D Weardale W.W. (Tunstall) ...	R. Askwith, Esq., C.E.	8	1	2	724 ∇	27.64	162
" " (Waskerley 6)	" " " "	8	4	2	1229 ∇	23.02	...
" " (" 3)	" " " "	8	4	6	1433 ∇	27.16	...
" " (" 4)	" " " "	8	4	7	1321 ∇	23.74	...
" " (" 5)	" " " "	8	4	2	1244 ∇	24.14	...
D " " (" 2)	" " " "	8	0	11	1179 ∇	27.02	203
" " (" 1)	" " " "	8	4	5	1367 ∇	25.23	...
D " " (Smiddy Shaw)	" " " "	8	4	4	1317 ∇	23.35	...
Seaham (Dalton Pumping Sta.)..	A. B. E. Blackburn, Esq.	8	1	0	345 ∇	21.27	159
Fence Houses (Chilton Moor) ...	V. W. Corbett, Esq. ...	5	1	4	186 ∇	22.10	...
D Seaham Harbour	Mr. G. H. Aird	8	1	6	141	19.74	148
" Vicarage	Rev. A. Bethune	5	0	6	80 ∇	21.66	...
" Hall	Mr. R. Draper	5	1	0	106 ∇	20.90	...
Sunderland (Ryhope Pumping Sta.)	A. B. E. Blackburn, Esq.	8	1	1	228 ∇	19.64	162
D " (W. Hendon Ho.) No. 5	T. W. Backhouse, Esq.	5	1	0	130 ∇	19.71	166
" (" " ") No. 6	" " " "	5	1	0	130 ∇	19.78	157
D " (Mowbray Park)	H. Renny, Esq., M.D....	5	1	0	105	20.00	168
" (Claxheugh Grove) ...	J. P. Cornett, Esq.....	5	2	6	90	20.65	...
D " (The Cedars)	W. F. Vint, Esq.	5	0	6	115 ∇	20.89	161
" (Cleaton Pumping Sta.)	A. B. E. Blackburn, Esq.	8	1	0	216 ∇	19.67	156
D Ryton-on-Tyne	J. P. Dalton, Esq.....	5	1	0	258 ∇	20.71	180
D " " (Balgonie House)	J. W. Smith, Esq., M.D.	5	1	6	258	19.74	150
NORTHUMBERLAND.							
D Corbridge (Howden Dene)	J. H. Straker, Esq. ...	5	0	9	200 ∇	24.98	182
D Bardon Mill (Beltingham Vic.)..	Rev. H. C. Newbery ...	5	1	0	320	25.17	184
D Newcastle (Clifton Road)	E. L. Merz, Esq.	8	1	6	315	18.57	140

DIVISION X.—NORTHERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with $\frac{1}{10}$ or more recorded.	
		Diameter	Height Above Ground.				1905
			in.	ft.	in.			feet.	inches.
NORTHUMBERLAND—(con.)							
Newcastle (Lit. and Phil. Soc.)..	H. Richardson, Esq. ...	8	55	0	160	22.94	...
§ „ (Northumberland Rd.)	N. H. Martin, Esq. ...	8	45	0	200	18.75	186
D „ (Leazes Park)	C.R.S. Kirkpatrick, Esq., C.E.	5	1	0	255 ∇	19.17	140
D „ (Town Moor)	A. Wright, Esq.	5	2	0	201 ∇	21.49	200
D „ (Wellburn, Jesmond).	W. H. Holmes, Esq....	5	1	6	163 \uparrow	20.01	144
§ North Shields (Dockwray Square)	Meteorological Office ...	8	1	4	100	18.65	171
D Tynemouth (Tyne Pier Works)..	J. Walker, Esq., C.E...	5	1	8	65 ∇	20.63	176
Stamfordham Vicarage	Rev. G. Evans-Gwynne	5	0	6	422	24.19	...
Whittle Dean (Newcastle W.W.)	A. L. Forster, Esq., C.E.	5	0	6	380	21.15	...
„ „ Filters („ „)	„ „ „	5	1	1	353	21.94	...
Whittington („ „)	„ „ „	8	0	9	528	22.82	...
Burnside („ „)	„ „ „	5	0	9	419	21.47	...
N. Tyne (Green Crag) („ „)	„ „ „	5	1	6	896 ∇	24.75	...
Ryal Cottage („ „)	„ „ „	...	...	...	...	31.94	...
Hallington („ „)	„ „ „	10	0	6	480 ∇	25.25	...
„ Reservoirs („ „)	„ „ „	...	...	...	...	24.97	...
„ (Fawcett) („ „)	„ „ „	10	0	6	510 ∇	23.95	...
„ (Cheviot) („ „)	„ „ „	...	...	...	...	24.60	...
Gunnerton Burn (Camphill) („ „)	„ „ „	5	1	1	683 ∇	23.57	...
Colt Crag („ „)	„ „ „	5	1	0	654	23.61	...
D Scots Gap (Wallington)	Mr. E. Keith	8	2	9	446 \uparrow	28.31	176
D Angerton Hall	Mr. R. Elliott	5	1	0	320 ∇	27.24	164
Morpeth	T. Matheson, Esq.....	8	1	6	100	22.24	143
D „ (Bothalhaugh Garden)..	Hon. & Rev. W.C. Ellis	5	1	10	35 ?	21.77	185
„ „ („ „) M	„ „ „ „	5	0	10	35	21.81	...
D „ („ „ Lawn).....	„ „ „ „	5	1	10	137	21.30	185
„ „ („ „) M	„ „ „ „	5	0	10	135	21.85	...
Scots Gap (Rothley Crag).....	J. Daglish, Esq.....	5	0	6	665 \uparrow	28.12	138
Morpeth (Longhirst Hall).....	Lord Joicey.....	7	1	0	168	21.12	...
D§ „ (Cockle Park)	J. H. J. Farquhar, Esq.	8	1	0	325 ∇	23.29	184
D Ewesley (Font Reservoir).....	F. R. Hull, Esq., C.E...	10	0	6	620 ∇	25.33	194
„ (Redpath)	„ „ „	10	0	6	850 \uparrow	27.93	...
„ (Tod Crag)	„ „ „	10	0	6	1000 \uparrow	30.57	...
„ (Fallowlees).....	„ „ „	10	0	6	850 \uparrow	30.71	...
„ (Chertners)	„ „ „	10	0	6	1000 \uparrow	29.36	...
D§ Rothbury (Cragside)	Lord Armstrong	8	1	0	405 ∇	29.38	157
Redewater (Chattlehope)	A. L. Forster, Esq., C.E.	5	1	0	900	40.27	...
„ (Catcleugh)	„ „ „	5	1	0	819	35.92	...
Alwinton (Biddleston Hall)	P. Dodds, Esq.	5	1	0	820 \uparrow	27.83	153
§ Alnwick Castle	Meteorological Office ...	5	0	4	178	27.47	182
Glanton (Glanton Pyke Gardens)	Mr. J. Henderson	8	4	2	517 ∇	24.06	...
D Howick Hall	Earl Grey	8	0	10	121 ∇	25.34	151
Ilderton (Lilburn Tower)	A. B. Collingwood, Esq.	10	6	0	300 \uparrow	21.67	...
D „ („ „ Cottage)	Mr. N. D. Cowans	8	1	0	340 \uparrow	24.59	162
Wooler (St. Ninians).....	Dr. R. Walker	8	0	10	176 \uparrow	26.45	...
D Bamburgh	Mr. R. W. Clark	5	1	0	75 \downarrow	21.47	147
D Pawston [Coldstream]	B. P. Selby, Esq.	8	1	0	328 \uparrow	24.81	188

DIVISION X.—NORTHERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with ≥ 0.1 or more recorded.
		Diameter	Height Above Ground.	Height Above Sea Level		
		in.	ft. in.	feet	inches.	
NORTHUMBERLAND—(con.)						
Beal (Barmoor Castle)	T. Hodgkin, Esq., D.C.L.	8	3 6	400	26.31	154
D Holy Island (St. Aidan's).....	A. Wilson, Esq.....	5	1 0	30 \bar{N}	18.81	165
CUMBERLAND.						
D Millom (Leyfield)	Cedric Vaughan, Esq. CE	5	1 2	81 \bar{N}	38.44	217
Ravenglass (The Grove)	Miss C. Marshall	5	1 2	84 \bar{N}	37.39	162
§ Eskdale Green (Gatehouse)	" " "	5	0 10	215 \bar{T}	53.04	206
Beckfoot	Rev. T. W. Fair.....	5	1 0	180 \bar{T}	63.36	231
D Seascale (Whinthwaite)	Dr. Hellon	5	1 0	52 \bar{N}	30.68	192
D Gosforth (Bolton Hall).....	Col. J. R. Bain	5	1 8	135 \bar{T}	43.38	198
D " (Ellerslie)	W. H. Kitchin, Esq... ..	5	1 0	185 \bar{N}	42.24	195
Wasdale Head Vicarage	Miss Theresa Plues				90.26	
Sprinkling Tarn	M Dr. H. R. Mill	4	0 6	1985	143.70	
Styehead Tarn	M " " "	4	0 6	1472 \bar{T}	146.30	
The Stye B	M " " "	4	1 0	1077 \bar{T}	170.20	
" C	M " " "	4	1 0	1077 \bar{T}	171.00	
" D	M " " "	4	1 0	1077 \bar{T}	136.90	
Borrowdale (Seathwaite)	M " " "	4	0 6	422 \bar{T}	116.83	
" (")	" " "	5	1 0	422 \bar{T}	115.44	
D § " (")	Royal Meteorological Soc	5	1 0	423 \bar{T}	116.92	212
" (")	Miss C. Marshall	5	1 0	...	116.35	
Ullscarf	M G. H. Hill, Esq., C.E..	7	1 8	2100 \bar{T}	100.30	
D Cleator (The Floss)	late D. Ainsworth, Esq.	5	1 11	208 \bar{T}	42.45	178
" Moor Water Works	R. Robertson, Esq., C.E.	5	1 0	395 \bar{T}	52.78	163
D Frizington (Parkside Mines)	Parkside Mining Co. ..	8	20 0	320 \bar{T}	42.11	170
Helvellyn (Birkside)	M G. H. Hill, Esq., C.E..	7	1 3	1900 \bar{T}	76.60?	
Wythburn	" " "	7	1 4	580 \bar{T}	72.20	
Borrowdale Vic. (Rosthwaite) ...	Rev. E. A. Penson.....	5	1 0	330 \bar{T}	86.66	
D Buttermere (Hassness)	Mr. R. Johnston	5	1 0	355	94.27	218
Whitehaven (Hensingham Ho.)...	E. Lonsdale Nanson, Esq.	5	1 6	280	36.54	214
D Borrowdale (Grange)	Mr. J. Threlkeld	5	0 9	271 \bar{T}	75.52	197
Arnboth Fells (The Pewitts).....	G. H. Hill, Esq., C.E..	7	1 6	1650 \bar{T}	71.70	
Helvellyn (Whiteside)	" " "	7	1 6	2100 \bar{T}	69.30	
Thirlmere (Dale Head Hall)	" " "	7	1 5	620 \bar{T}	68.30	
D Whitehaven (Irish Street)	Dr. Welby I'Anson	5	1 1	21 \bar{N}	37.40	205
Distington (Gillgarran)	Mr. A. Kydd	5	4 9	470 \bar{T}	37.05	186
Ullswater (Hallsteads)	Miss C. Marshall	5	2 0	497 \bar{T}	49.49	187
Keswick (Deer Close)	John Marshall, Esq. ...	7	1 9	300 \bar{T}	50.92	211
" (Derwent Island) <i>old g.</i>	" " "	5	0 7	280	48.98	222
" (" ") <i>new g.</i>	" " "	5	0 6	290	46.72	222
D " (Eskin Place)	J. Postlethwaite, Esq... ..	8	6 4	298 \bar{T}	47.35	182
D " (York City & Co. Bank)	Mr. R. W. Mayson	5	1 6	265 \bar{T}	46.87	206
D " (Shu-le-crow)	A. Mitchell Dawson, Esq.	5	0 7	296 \bar{T}	47.66	212
D " (Crosthwaite School)	Mr. H. Swinburn	5	1 0	254 \bar{T}	45.34	210
D Cockermouth (Ullock)	J. H. Walker, Esq.	5	1 0	313 \bar{N}	45.51	203
D Workington (Winscales)	Mrs. J. A. Trench	5	1 6	440 \bar{T}	32.75	183
D Cockermouth (Whinfell Hall)...	Mrs. F. M. Peile	5	0 1	255 \bar{N}	45.29	201
D " (Brandlingill).....	Col. F. R. Sewell	9	1 0	320 \bar{N}	48.28	213

DIVISION X.—NORTHERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with '01 or more recorded.
		Diameter	Height Above Ground.	Height Above Sea Level.	1905	
		in.	ft. in.	feet.	inches.	
CUMBERLAND—(con.)						
D Bassenthwaite (Bassenfell)	Mrs. S. G. Rathbone ...	8	1 0	384	36·12	200
D Cockermouth (BroughtonGrange)	G. S. Wilson, Esq. ...	5	1 3	209 $\bar{\pi}$	33·93	191
Hutton John	“The Speaker,” M.P. ...	5	0 11	700 $\bar{\Gamma}$	39·95	193
Penrith (Nandana)	G. Varty-Smith, Esq. ...	5	3 0	650 $\bar{\Gamma}$	23·60	235
„ (Fir Bank, Fell Lane) ..	T. Lester, Esq.	5	1 0	575 $\bar{\Gamma}$	23·53	179
§ „ (Newton Rigg)	Meteorological Office ...	...	...	...	26·20	195
„ (Greystoke)	H. Walker, Esq.	5	1 3	650	31·86	...
D „ („ Belle Vue) ..	Mr. M. Rowe	5	4 0	680 $\bar{\Gamma}$	28·90	218
„ (Ennim)	Mrs. Hamlet Riley ...	8	0 6	660	30·28	165
„ (Inglewood)	H. F. Thompson, Esq. ..	5	1 0	550 $\bar{\Gamma}$	25·17	...
D Bassenthwaite (ArmathwaiteHall)	T. M. Hartley, Esq. ...	8	1 0	305	34·69	224
Maryport (Netherhall)	Mrs. H. P. Senhouse ...	5	0 6	27 $\bar{\pi}$	31·05	...
§ Udale (Chapel House Reservoir).	Meteorological Office ...	8	1 0	600	37·36	198
D Penrith (Nunwick Hall)	Mrs. Heywood Thompson	5	1 0	298 $\bar{\Gamma}$	25·53	189
§ Aspatria	Meteorological Office ...	8	1 0	251	32·22	189
„ (Brayton Hall)	late Sir Wilfrid Lawson, Bt. M.P.	8	0 6	200	33·93	...
D Wigton (Brookfield)	J. J. Jopling, Esq.	5	0 9	124 $\bar{\pi}$	30·33	195
Wreay Vicarage	Rev. A. R. Hall	5	2 0	310 $\bar{\Gamma}$	26·66	171
Silloth	A. C. Allen, Esq.	8	1 0	22 $\bar{\pi}$	27·75	182
D Geltsdale	H. C. Marks, Esq., C.E.	5	1 2	924 $\bar{\pi}$	29·70	197
Carlisle (Cemetery)	S. Cartmell, Esq.	8	4 0	114 $\bar{\pi}$	24·98	182
„ (Rickerby)	Miles MacInnes, Esq. ...	8	1 2	52 $\bar{\Gamma}$	22·72	...
„ (Stanwix)	Sir Benjamin Scott ...	8	1 6	100 $\bar{\Gamma}$	24·17	171
D „ (Newby Grange)	T. H. Hodgson, Esq. ...	5	0 8	64 $\bar{\pi}$	21·10	183
§ „ (Scaleby)	R. A. Allison, Esq. ...	5	1 0	112	27·13	214
D Brampton (Denton House)	Miss B. Gardhouse	5	1 5	541 $\bar{\pi}$	27·61	200
WESTMORLAND.						
Kirkby Lonsdale	J. R. Picard, Esq.	7	0 8	215 $\bar{\Gamma}$	42·86	...
D „ „ (Casterton)	R. A. Clarke, Esq.	8	1 0	305	43·66	225
D „ „ (Barbon Manor)	A. Ford, Esq.	6	1 3	650 $\bar{\Gamma}$	37·45	162
D „ „ („)	Miss Wilkinson	5	1 0	310 $\bar{\Gamma}$	41·13	184
D Milnthorpe (Eversley)	T. A. Argles, Esq.	5	0 8	130	41·51	184
D „ (Beathwaite, Levens)	W. H. Crewdson, Esq. ..	5	1 3	120 $\bar{\Gamma}$	41·39	171
Kendal (Natland Vicarage) ..	Rev. W. Kewley	5	1 5	162	38·90	201
„ (Helm View)	W. Thomson, Esq., C.E.	5	1 0	140 $\bar{\Gamma}$	42·33	170
D „ (Holmeroft)	R. Rhodes, Esq.	5	1 3	176 $\bar{\Gamma}$	43·11	199
D „ (Ivy Garth)	R. J. Nelson, Esq.	5	1 6	146 $\bar{\Gamma}$	42·75	189
„ (Ellergreen)	Mr. J. Wray	8	3 0	270 $\bar{\Gamma}$	41·31	194
D Bowness (Lindeth Howe)	F. G. Senior, Esq.	5	1 0	250 $\bar{\Gamma}$	55·63	190
„ (Fallbarrow)	Miss C. Marshall	8	1 0	135 $\bar{\Gamma}$	56·51	192
Windermere	„ „ „	5	1 0	290 $\bar{\pi}$	52·79	211
D „ (Holehird)	W. G. Groves, Esq. ...	5	1 0	483 $\bar{\Gamma}$	57·39	214
D Ravenstonedale	Rev. R. W. Metcalfe ...	5	1 2	800 $\bar{\Gamma}$	45·21	211
D Ambleside (Skelwith Bridge) ...	A. J. Adams, Esq.	5	1 9	190 $\bar{\Gamma}$	84·44	193
Little Langdale (Fell Foot) ...	Miss C. Marshall	5	2 2	380	98·91	...
D Ambleside (Gale House)	G. A. Johnston, Esq. M.D.	5	1 0	250 $\bar{\Gamma}$	64·54	220
„ (Lesketh How)	Mrs. Benson	5	2 6	175 $\bar{\Gamma}$	66·93	236

DIVISION X.—NORTHERN COUNTIES—(continued.)

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with ^{or} more recorded.
		Diameter	Height Above Ground.	Height Above Sea Level		
		in.	ft. in.	feet.	inches.	
WESTMORLAND—(con.)						
D Elterwater Hall	Miss M. Astley	5	1 1	243	79.68	216
Rydal (The Stepping Stones) ...	Gordon Wordsworth Esq	5	1 3	190	67.57	234
" (" " ") M	" " " "	5	1 3	190	67.11	...
D Loughrigg (Silverthwaite)	Miss A. Sharp	5	1 0	292	66.22	209
" (" " ") 2nd g.	" " " "	...	...	...	66.42	...
D Dungeon Ghyll	Miss C. Marshall	5	0 5	310	104.52	272
" " " " " M	" " " "	5	1 0	311	103.67	...
Mickleden " " " " M	" " " "	5	1 6	490	119.04	...
D Grasmere (High Close)	F.M.T. Jones Balme, Esq	8	0 9	553 T	74.73	209
D " (The Wray)	Miss G. M. Simpson ...	5	1 0	221 T	77.84	219
D Kirkby Stephen (Redmaine Ho.)	Mrs. T. Mason	5	1 0	574 T	31.66	184
Grizedale (Ruthwaite Lodge) ...	Miss C. Marshall	8	1 6	1750	79.94	...
Patterdale Hall	" " " "	5	1 3	490 T	77.50	211
" (Greenside Mine).....	W. H. Borlase, Esq. ...	7	1 6	1000 T	81.88	...
D Appleby (Castle Bank)	C. R. Rivington, Esq. ...	5	1 2	440 T	27.82	206
Ullswater (Swarth Fell)	M Dr. H. R. Mill	5	1 3	1000 T	38.80	...
" (Sharrow Bay)	Mr. G. Robinson	5	0 7	600	38.08	...
D Great Strickland (Greencroft) ...	Mrs. Whiteside	5	2 0	648 T	32.06	206
D Morland [Penrith].....	Miss M. Markham	5	1 0	456 T	28.51	205
Lowther Castle [Penrith].....	Mr. F. Clarke	8	4 0	760 T	27.61	184
Cliburn Rectory [Penrith]	Mrs. Burton	5	1 10	459 T	22.49	...

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS.

MONMOUTH.

D § Rumney (Witla Court).....	H. Heywood, Esq.	5	1 0	176	29.39	202
Caldicot Level (Porton).....	Togarmah Rees, Esq. CE	5	1 3	27 T	21.50	142
D Portskewett (Sudbrook)	W.K. Laurence, Esq. CE	8	0 10	22 T	22.66	159
Bassalleg (Bryn Hedydd)	Togarmah Rees, Esq. CE	5	0 8	333 T	32.70	164
Caerleon (Llanwern House)	D.A. Thomas, Esq., M.P.	8	1 0	190 T	24.28	...
§ Newport (Friar Street Yard) ...	Meteorological Office...	...	...	...	30.30	178
§ " (Ynis-y-fro)	" " " "	5	1 0	115	26.55	166
§ " (Pant-yr-eos Res.).....	" " " "	...	...	...	39.80	173
D " (W. W., New Mills) ...	Baldwin Latham Esq CE	5	1 0	371 T	34.72	206
D " (" Llanvaches)...	" " " "	5	0 10	514 T	32.06	204
D " (Wentwood)	" " " "	5	1 0	481 T	34.59	208
D Chepstow (Piercefield Park).....	H. Clay, Esq.	5	1 6	310	26.65	143
D " (Itton Court).....	E. Curre, Esq.	8	4 6	390	31.56	176
D Llanfrechfa Grange	F. J. Mitchell, Esq. ...	5	4 0	326 T	32.71	168
D Tredunnoek	Rev. C. T. Salusbury...	5	2 3	170 T	27.93	155
D § Newport (W. W., Newchurch)...	Baldwin Latham Esq CE	5	0 10	496 T	36.37	204
Pontypool (Cwm-Afon Res.) ...	T. B. Pearson, Esq. ...	...	1 0	845	44.45	...
Abersychan (The Hawthorns)...	J. W. Mulligan, Esq, MD	5	1 0	755 T	43.81	195
§ " (Glansychan).....	Meteorological Office...	3	2 0	700	43.18	...
D Tredegar (The Willows)	G. A. Brown, Esq., M.D.	8	1 0	1024 T	50.90	170
D Monmouth (School House).....	E. H. Culley, Esq. ...	5	1 4	76 T	28.22	180
D " (The Hendre)	Mr. T. Coomber	8	1 0	176 T	22.82	168

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with ≥ 0.1 or more recorded.
		Diameter	Height Above Ground.	Height Above Sea Level		
		in.	ft. in.	feet.	inches.	
MONMOUTH—(con.)						
Abergavenny (Larchfield)	Dr. J. Glendinning ...	5	1 0	240 T	29.92	141
„ (Dyne House)	Dr. S. H. Steel	5	1 5	220 T	32.08	174
^D „ (The Chain).....	W. Baker Gabb, Esq... 5	5	1 3	300	29.90	155
^D Monmouth (Pentwyn)	Rev. Canon Harding... 5	5	1 0	191 B	24.93	150
Llantilio Court	Sir H. Mather-Jackson Bt 6	6	0 11	207	27.08	...
GLAMORGAN.						
^D Barry (Canon Street)	E. W. Waite, Esq., C.E. 5	5	1 0	97	25.85	166
Cowbridge (Fonmon Castle).....	O. H. Jones, Esq. 8	8	1 2	130	26.44	169
^D Barry W. W. (Biglis)	E. W. Waite, Esq., C.E. 5	5	1 0	20 T	26.35	177
„ „ (Merthyr Dofan)...	„ „ „ 5	5	1 0	300 T	27.72	...
„ „ (Pencoedtre)	„ „ „ 5	5	1 0	200 T	28.96	...
^D „ „ (Dinas Powis Res.)	„ „ „ 5	5	1 0	165 T	26.09	177
^D Lower Penarth	E. I. Evans, Esq., C.E. 5	5	1 0	67 N	27.26	231
^D Penarth	„ „ „ 5	5	1 1	128 N	27.29	189
Cardiff (Cogan Pill, Llandough).	C. H. Priestley, Esq. C.E. 5	5	1 0	121 N	29.55	162
„ (Trade Street)	„ „ „ 5	5	1 0	45	28.73	174
^D „ (Roath Park)	E. Walford, Esq., M.D. 5	5	1 0	50	29.35	179
^D „ (Ely)	C. H. Priestley, Esq. C.E. 5	5	1 0	53 N	32.84	197
^D Porthcawl	R. W. Jones, Esq..... 8	8	1 0	44	25.73	167
^D Llandaff (Howell's School)	Miss A. G. Winny..... 5	5	1 4	86 T	30.12	172
Cardiff (New Filters, Heath) ...	C. H. Priestley, Esq. C.E. 5	5	1 0	132	30.63	170
„ (Llanishen Reservoir) ...	„ „ „ 5	5	1 0	155	30.17	173
^D „ (Lisvane Reservoir).....	„ „ „ 5	5	1 0	150	28.35	173
Cowbridge (Ash Hall)	E. Tudor Owen, Esq... 8	8	1 2	315 N	34.84	187
^D Llantrisant (Talygarn)	G. L. Clark, Esq. 5	5	4 3	250	41.79	194
^D Oystermouth (Newton)	Rev. Secretan Jones ... 5	5	0 9	279 T	35.63	200
^D § Port Talbot (Twyn-yr-hydd, Margam)	G. Lipscomb, Esq..... 5	5	1 0	180 T	32.41	184
Gilfach Goch (Gilfach House) ...	W. W. Hood, Esq. ... 8	8	3 0	701 T	51.03	171
Pontypridd (The Reservoir).....	W. Jones, Esq. 5	5	1 0	300	29.96	...
„ (Maesderwen, Graig)	T. Bowen, Esq. 5	5	10 0	425 T	42.54	159
^D Caerphilly (Ystrad Mynach) ...	Lt.-Col. M. Lindsay ... 8	8	0 5	315 N	40.92	165
^D Swansea (Le Mayals)	J. E. Stevens, Esq. ... 8	8	1 6	220 N	35.15	165
^D „ (New Dock Works) ...	R. S. Oldham, Esq., C.E. 5	5	3 11	31 N	29.58	177
„ Harbour	A. O. Shenck, Esq., C.E. 12	12	14 9	46	35.68	183
„ (Killay House)	M. B. Williams, Esq... 5	5	0 6	265 T	37.88	194
„ (The Knoll).....	E. H. Perkins, Esq. ... 8	8	1 0	150 N	37.86	193
^D „ (Glanmor Crescent) ...	T. Travers Wood, Esq. 5	5	1 0	235 N	36.30	199
Llwynypia (Glyncornel) ...No. 1	W. W. Hood, Esq. ... 10	10	4 0	495 N	70.09	180
^D „ „ „ ...No. 2	„ „ „ 8	8	3 3	494 N	57.74	180
Briton Ferry	H. A. Clarke, Esq. ... 5	5	1 0	33 N	34.22	163
Morrison (Glanravn)	Ll. J. Naysmith, Esq.. 5	5	1 0	53 N	38.10	177
^D Ystradyfodwg (Fever Hospital)..	J. D. Jenkins, Esq., M.D. 5	5	1 0	590 T	55.62	171
^D Neath	E. C. Pole, Esq. 5	5	1 0	204 N	39.18	194
^D „ (Fairy Land)	Major E. Ll. Green ... 5	5	1 9	175 N	35.63	200
^D Glyncorrwg	T. F. Brown, Esq., C.E. 5	5	4 6	717 B	69.70	185
Rhondda (Pont Lluest Wen Res.)	W. Jones, Esq. 5	5	1 0	1225	53.50	...
^D Mountain Ash (Maesydderwen)..	M. Morgan, Esq. 5	5	1 0	483 N	45.93	183

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with ≥ 0.1 or more recorded.
		Diameter	Height Above Ground.	Height Above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
BRECON—(con.)						
†Tal-y-llyn	M Dr. H. R. Mill	5	1 0	570	25.50	...
†Trecastle (Llywel Vicarage).....	Rev. P. W. Green	5	1 0	740	42.43	...
D Brecon (Pont ar Fran)	J. Hotchkis, Esq.	5	1 0	550	35.59	229
D† „ (Penoyre)	R. D. Cleasby, Esq. ...	5	1 0	672	34.81	226
† „ (Llandefaelog-fach)	Rev. D. L. Marsden ...	5	1 0	660 †	33.09	197
D†LlanfihangelNant-Bran(Cwmcynog)	Dr. H. R. Mill	5	1 0	790	41.82	211
†Lower Chapel (Nant-y-groes) M	„ „ „	5	1 0	1080	34.50	...
†Merthyr-Cynog	M Mr. W. Davies	5	1 0	1050	39.70	...
§Hay (Gwernyfed Park).....	Major T. Wood	5	1 6	375 †	23.57	180
†Upper Chapel (Tymawr)	Mrs. Probert	5	1 0	945	41.30	...
Llanwrtyd Wells (Llandulas) M	Mr. W. Price	5	1 0	790	44.30	...
D†Llangammarch Wells	Dr. W. Black Jones ...	8	1 0	551 †	41.34	227
D Builth (Tyn-y-berllan).....	Dr. Baldock Fry	5	1 0	430 †	31.74	169
† „ (Beulah)	M Mr. S. Allen	5	1 0	650	44.55	...
†Abergwesyn (Caewain).....	M Rev. T. Jones	5	1 0	1010	58.72	...
† „ (Llanerch-yrfa) M	Dr. H. R. Mill	5	1 0	1430	57.70	...
D Brynwrern Hall [Newbridge] ...	Rev. W. Clifton-Mogg.	5	1 6	520 †	33.32	197
Pen-graig [„] M	Dr. H. R. Mill	5	1 0	960	46.40	...
Llysdinam [„] ...	Mrs. Lister Venables...	5	1 3	640 †	37.24	221
RADNOR.						
Welfield [Builth]	E. A. Thomas, Esq. ...	5	2 10	740 †	33.91	...
New Radnor (Glaswrm)	M Mr. G. Bufton	5	1 0	950	36.35	...
Builth Road (St. John's Vicarage)	Rev. J. L. Bryans	5	0 11	550 †	32.95	200
D LlansaintfraidinElvel(HundredHo.)	Mrs. Lerigo.....	5	1 0	810	29.08	149
D Bettws Disserseth	Dr. H. R. Mill	5	1 0	850	30.86	202
§Disserseth Rectory	Meteorological Office ...	5	1 0	712	37.87	193
Llandrindod Wells	Dr. Bowen Davies.....	5	7 0	711 †	31.96	191
D New Radnor (Ednol).....	Mr. W. Jones.....	5	1 0	950	37.89	202
Rhayader (Nant-y-car)	M G. M. Yourdi, Esq., CE	5	1 0	1545	65.25	...
D „ (Tyrmynydd)	„ „ „	5	1 0	832 †	52.66	221
D „ (Nantgwillt) ...old g.	„ „ „	5	1 0	768 †	51.58	223
D „ („)...new g.	„ „ „	5	1 0	754 †	52.68	223
D „ (Bwlchyrhendre) ...M	„ „ „	5	1 0	1585	51.10	...
D „ (Claerwen)	„ „ „	5	1 0	1250	55.25	197
„ Vicarage	Rev. L. H. Evans	5	1 0	720 †	42.46	153
„ (Pryddellau)	M G. M. Yourdi, Esq., C.E.	5	1 0	1710	51.40	...
D „ (Abergwyngy).....	„ „ „	5	1 0	1200	55.20	210
Llanbister (Llananno)	Dr. H. R. Mill	5	1 0	900	34.85	...
MONTGOMERY.						
D Llangurig (Dernol)	Dr. H. R. Mill	5	1 0	850	44.41	180
„ (Esgair Clochfan) ...	„ „ „	5	1 2	1330	44.40	...
„ „ „	„ „ „	5	1 2	1330	44.20	...
„ (Ystrad-olwyn-fawr)M	„ „ „	8	1 0	950	35.40	...
„ „ „	„ „ „	5	1 0	950	34.90	...
Llandinam (Plas Dinam).....	J. Evans, Esq.	5	4 0	504 †	31.09	192
D Newtown (Dolfor)	W. B. Pugh, Esq.....	5	2 6	1027	28.08	182

DIVISION XI.—MONMOUTH, WALES AND THE ISLANDS—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with '01 or more recorded.
		Diameter	Height Above Ground.	Height Above Sea Level		
		in.	ft. in.	feet.	inches.	
MONTGOMERY—(con.)						
D Newtown (Gregynog).....	Lord Joicey.....	6	1 0	620 ?	31·27	197
D Welshpool (Leighton Hall)	Mrs. Naylor	5	1 0	400 †	26·79	199
D " (Pool Quay Vicarage).....	Rev. R. J. Roberts ...	5	1 0	230 †	23·18	180
D Meifod (Coed-y-maen)	A. W. Williams Wynn Esq	5	1 7	280	27·83	193
D Garthbibio (Bwlch Tomlyd)...M	Dr. H. R. Mill	5	1 0	1370 †	55·50	...
D Lake Vyrnwy	E. D. Marten, Esq. C.E.	5	0 7	770 †	44·81	222
" " (Bryn Gwyn)	J. Parry, Esq., C.E. ...	3	...	1311 †	46·54	...
D " " (Cynon Isaf)	" " "	3	...	750 †	46·64	181
" " (Ty Uchaf)	" " "	3	...	860 †	44·70	...
" " (Heol-y-ffridd) No.1	" " "	3	...	912 †	59·54	...
" " (" " ") No.2	" " "	3	...	912 †	64·70	...
" " (Tynyfridd).....	" " "	3	...	1010 †	44·87	...
" " (Lluestwen).....	" " "	3	...	1667 †	62·49	...
" " (Llwynrhiw)	" " "	3	...	1428 †	66·50	...
" " (Craig-y-Gribbin)..	" " "	3	...	1100 †	49·98	...
" " (Eunant Bridge)....	" " "	3	...	830 †	59·80	...
" " (Carreg Goch).....	" " "	3	...	1750 †	64·52	...
" " (Fawnog).....	" " "	3	...	1315 †	47·82	...
FLINT.						
Cilcain.....	W. Simmons, Esq.....	5	1 0	790 †	29·69	191
Hawarden	Great Central Rly. Co..	9	3 6	35	24·27	167
Flint (Soughton Hall, Northop).	John E. Bankes, Esq...	5	1 0	418	27·69	173
D " (Highfield, ")	Rev. Canon Atkinson...	5	1 0	400	24·82	150
" (Plas Evan, ")	John Astbury, Esq. ...	5	5 3	350 †	25·69	...
D Bodfari (Henblas).....	Mrs. Scott Bankes	5	1 0	283 †	25·43	177
St. Asaph (Nantlys).....	P. P. Pennant, Esq. ...	5	1 0	173 †	23·63	164
Bagillt Lead Works	Ishmael Roberts, Esq..	5	1 0	20	24·42	...
D Rhyl (Sewage Works)	Mr. J. Jones	8	1 0	31 †	22·24	175
Prestatyn (Edlestone House) ...	T. J. Scott, Esq.	5	0 6	30	24·94	...
DENBIGH.						
Llangedwyn	Mr. R. Warren	5	2 6	400 ?	26·52	...
D Llangadwaladr (Penygwely Res.)	G. W. Lacey, Esq., C.E.	5	1 0	1094	36·63	184
D Llangollen (Plas-yn-Vivod).....	Capt. the Hon. J.C. Best.R.N.	5	2 6	635	30·39	183
D † Cerrig-y-Druidion (Bwlch-y-beudy)	Col. C. S. Mainwaring..	5	1 0	1050 †	41·32	179
Wrexham (Pack Saddle Res.) ...	F. Storr, Esq.	5	0 9	370 †	27·84	160
" (Cae Llwyd Res.) ...	" "	8	0 9	918 †	32·99	174
" (" " ")	" "	5	0 9	918 †	31·34	175
D " (Broughton).....	J. Hall, Esq.	5	1 0	500 †	28·01	186
Gresford (Trewythen)	Miss Howell Evans ...	5	1 0	350	22·51	...
D Gyffylliog (Fachlwyd Hall)	Elliott S. Currey, Esq..	5	1 0	640 †	32·06	205
D Ruthin (Llanbedr Hall).....	Dr. G. A. Crace-Calvert	5	1 0	450 †	24·59	167
† Nantglyn (Pant-y-maen)	W. Barker, Esq.	8	1 0	1320 †	41·93	...
D Llangerniew (Hafodunos).....	Col. Sandbach	5	1 0	512 †	38·77	143
Llanefydd (Rhyl W.W., S.)...M	L. G. Hall, Esq., C.E..	5	1 0	600	26·39	...
" (" " W.)...M	" " "	5	1 0	580	23·57	...
" (" " E.)...M	" " "	5	1 0	570	25·88	...

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with '01 or more recorded.
		Diameter	Height Above Ground.	Height Above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
DENBIGH—(con.)						
D Llanefydd (Plas Uchaf Res.) ...	L. G. Hall, Esq., C.E..	5	1 0	485	30·00	159
D " (Glascoed Reservoir)..	" " "	5	1 0	360	28·37	181
D Llangyhanfal (Plas Draw)	Col. C. J. Bromhead, C.B.	5	1 0	419 ∇	26·88	215
† Denbigh (Llyn Bran, Bylchau)..	W. Barker, Esq.	8	1 0	1428 ∇	46·65	...
D " (Garn)	W. D. W. Griffith, Esq.	5	1 0	447 \uparrow	29·18	187
D Trefnant (Maes Elwy)	Major R. F. Birch.....	5	2 0	190 \uparrow	24·78	...
D Tal-y-cafn (Bodnant Hall)	Mr. J. Saunderson	8	1 6	120	33·83	177
D Colwyn Bay (Four Crosses)	W. Jones, Esq., C.E....	5	1 0	420 \uparrow	27·78	173
D " " (East Parade)	" " " "	5	1 3	65 ∇	23·73	162
D " " (Bryn Euryn)	Mr. T. E. Hutchings...	5	1 0	125 \uparrow	27·39	166
MERIONETH.						
D† Towyn (Gothic House)	Dr. E. Lewys-Lloyd ...	5	1 0	11 ∇	32·57	191
D " (Peniarth)	W. R. M. Wynne, Esq.	9	1 0	25	42·81	188
D Dolgelly (Bryntirion)	C. Beale, Esq.	5	0 10	50	53·23	183
D† " (Dolserau Hall)	Munro Edwards, Esq. ...	5	1 0	100	52·65	216
D§ Llanbedr (Minafon)	late H. G. Hollingworth, Esq.	5	1 2	33 ∇	36·51	201
D Bala (Eryl Aran)	Mrs. Burton	8	1 0	590 \uparrow	45·96	209
D Llanderfel (Palé Gardens)	Mr. T. Ruddy.....	8	1 0	606 ∇	41·96	216
D Tan-y-bwlch (The Gardens) ...	Mr. J. Roberts	5	1 0	50 ∇	55·82	225
Rhiwbryfdir = Oakley Quarries..	Mr. Owen Jones.....	5	10 0	1100	84·33	181
Corwen (Rug Gardens).....	Mr. J. S. Higgins	5	1 4	500	32·76	171
CARNARVON.						
[Bardsey Island]	Hon. F. G. Wynn	5	1 0	50 ∇	21·00	...
D† Crickieth (Talarvor)	Dr. J. Roberts	5	2 0	49 \uparrow	31·61	219
D† " (Cefn-Maen).....	J. E. Greaves, Esq.	8	1 0	220 \uparrow	39·76	174
D Pwllheli (Bodfean Hall)	Hon. F. G. Wynn	5	1 0	100 \uparrow	38·12	...
† Portmadoc (Wern Gardens)	Mr. H. Worth.....	5	1 0	90 ∇	56·12	...
† Beddgelert (Moel Hebog)..No. 19	J. R. Gethin Jones, Esq.	5	1 0	1500	93·46	...
Nantlle (Cwm-silyn Lakes)	W. J. Griffith, Esq. ...	...	...	...	69·85	...
Dolwyddelan (Tunnel Mouth) No. 20	J. R. Gethin Jones, Esq.	5	1 0	650	108·00	...
" (Upper Nhadog) No. 2	" " "	5	1 0	1600	122·30	...
" (Tynddol) ... No. 1	" " "	5	1 0	600	93·51	...
† Llandwrog (Glynllivon Park) ...	Hon. F. G. Wynn.....	5	1 0	100 \uparrow	35·32	...
D† " (" Nursery)	" "	5	1 0	180 \uparrow	39·80	203
† " (" Garden)	" "	5	1 0	100 \uparrow	38·59	...
D† " (" Fort) ...	" "	8	1 0	200 \uparrow	36·97	191
D Snowdon (Llydaw).....No. 12	J. R. Gethin Jones, Esq.	5	1 0	1450	147·50	...
" (Glaslyn).....No. 13	" " "	5	1 0	2500	176·60	...
Llanberis (Pen-y-pass)	Mr. J. Clee	5	1 0	...	120·26	...
† Bettws-y-Coed (Tyn-y-bryn) ...	Dr. Hugh W. Fox.....	8	2 6	153 ∇	40·29	228
Lake Cowlyd	T. B. Farrington Esq. CE	8	1 3	1168 ∇	74·40	...
Carnarvon (Belan Fort).....	Hon. F. G. Wynn.....	5	1 0	12 \uparrow	29·40	...
Eigiau, Upper.....No. 15	J. R. Gethin Jones, Esq.	5	1 0	2000	107·14	...
" Lake.....No. 3	" " "	5	1 0	1650	102·83	...
Lake Cowlyd (Upper Brwynog) No. 16	" " "	5	1 0	1100	62·26	...
" " (Lower ") No. 18	" " "	5	1 0	1000	48·09	...
Frith Rhos	" " "	5	1 0	1100	54·22	...

SCOTLAND.

DIVISION XII.—SOUTHERN COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with '01 or more recorded.
		Diameter	Height Above Ground.	Height Above Sea Level		
		in.	ft. in.	feet.	inches.	
WIGTON.						
Mull of Galloway	Bd. of Northern Lights	...	...	...	21·07	136
D Whithorn	Dr. J. F. Smith	5	2 3	207 ∇	35·85	183
D " (Cutroach)	J. G. Martin, Esq.	5	0 6	120 ∇	30·42	188
Port William (Blairbuie)	Hugh McMaster, Esq.	5	1 6	150	33·86	184
D Garliestown (Galloway Ho.)	Mr. J. Day	5	4 6	20 ∇	32·21	180
D Stoneykirk (Ardwell House)	Sir M. J. Stewart, Bart.	8	3 9	107 ∇	28·80	151
Port Patrick (Killantringan) ..	Bd. of Northern Lights	...	...	...	43·78	167
Loch Ryan Lighthouse .....	" " "	...	...	...	32·55	161
Corsewall	" " "	...	3 4	22 ∇	30·78	181
KIRKCUDBRIGHT.						
Little Ross	Bd. of Northern Lights	...	3 3	130 ∇	20·73	159
Auchencairn (Torr House)	W. Ovens, Esq.	5	0 8	50	37·60	...
§ Gatehouse (Cally)	Dr. Buchan, F.R.S.	5	1 0	120	44·63	212
D Dalbeattie (Kirkennan)	Wellwood Maxwell, Esq.	5	0 9	30 ∇	38·84	204
D " (Little Richorn)	Mr. W. Kerr	5	0 9	35 ∇	35·77	154
D Creetown (Cassencary)	J. A. Henryson-Caird, Esq.	5	0 8	40	35·00	197
D Kirkpatrick Durham (Glenlair)..	Major W. Maxwell	5	0 6	250 ∇	44·64	186
D § Cargen [Dumfries]	R. F. Dudgeon, Esq.	5	0 4	80 ∇	34·69	144
D Lincluden House [Dumfries] ..	Miss Young	5	1 0	60	32·89	175
D New Galloway (Ken Bridge) ..	J. B. Hough, Esq.	5	4 4	150 ∇	39·98	194
" " (Craigencallie) ..	Miss Mary Blackley	5	1 0	700	67·42	...
Glenhead of Trool	J. McMillan, Esq.	5	0 11	320	59·75	...
Irongray (Drum Park)	J. E. Blair, Esq.	5	0 11	290	42·69	...
D Dalry (Glendarroch)	Miss M. Barbour	5	0 11	192 ∇	47·40	204
D " (Clenerie)	Mr. R. McMillan	8	0 10	800	69·90	203
D " (The Old Garroch)	T. R. Bruce, Esq.	8	1 0	432 ∇	56·82	230
D Carsphairn (Shiel)	Mr. S. Wilson	5	1 0	850 ∇	66·19	239
DUMFRIES.						
D § Dumfries (Ivy Bank)	Rev. W. Andson	5	0 10	70 ∇	30·71	199
D Lockerbie (Castle Milk)	Mr. J. Troup	5	0 9	199	37·41	219

DIVISION XII.—SOUTHERN COUNTIES (*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with $\cdot 01$ or more recorded.
		Diameter	Height Above Ground.	Height Above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
DUMFRIES—(con.)						
Canonbie (Byreburnfoot)	Mr. D. Crabbe	3	0 9	...	34·62	...
^D Lochmaben (Esthwaite)	W. J. Halliday, Esq. ...	5	1 0	166 $\bar{\pi}$	35·57	201
Langholm (Westwater)	J. M. Elliot, Esq.	3	1 0	450	47·02	198
^D „ (Drove Road)	the late Mr. W. Jackson	5	0 9	270	47·33	196
Moniaive (Glencrosh)	Miss McMillan	5	1 2	350	46·68	217
„ (Maxwelton House) ...	Rev. Sir E. Laurie, Bt.	8	1 6	400 $\bar{\pi}$	41·40	...
Langholm (Ewes School)	Mr. J. C. Lyall	5	1 0	445 $\bar{\pi}$	46·07	...
„ („ Burnfoot)	J. C. Little, Esq.	3	1 0	541 $\bar{\pi}$	46·13	...
^D § Durrisdeer (Drumlanrig Gardens)	Mr. D. Inglis	5	0 9	187	38·54	216
Beattock (Kinnelhead)	J. Bartholomew, Esq. ...	5	...	800	50·45	...
Moffat (Craigielands)	Mr. L. Fraser	5	1 0	360 $\bar{\pi}$	44·11	...
^D „ (Auchen Castle)	Mr. W. McAdam	5	0 6	500	45·46	216
^D „ (Hope Lodge)	Miss Anstruther	5	1 0	450	41·89	212
„ (Ericstane)	Mrs. J. J. Welsh	5	1 6	580 $\bar{\pi}$	43·43	...
ROXBURGH.						
§ Hawick (Wolfelee)	Dr. Buchan, F.R.S. ...	5	0 10	587	24·98	192
^D „ (Branxholme)	J. G. Winning, Esq. ...	5	0 6	457 $\bar{\pi}$	25·08	187
„	<i>Hawick Advertiser</i> .....	...	...	...	27·46	182
^D Jedburgh (Ancrum Bridge)	A. Johnston, Esq.	5	2 0	229	24·67	176
^D Lilliesleaf (Riddell House)	Lieut.-Gen. J. Sprot ...	5	0 8	550 $\bar{\pi}$	26·63	205
^D „ („ Gardens) ...	Mr. J. Williamson	5	0 8	500 $\bar{\pi}$	26·49	176
§ St. Boswells (Elliston)	Dr. Buchan, F.R.S. ...	5	1 0	352	24·17	...
„ „ (Monksford)	A. Mitchell, Esq.	5	0 11	320	24·35	...
„ „ (Fens)	J. J. Fairbairn, Esq. ...	...	...	...	22·11	...
Kelso (Maxwellheugh)	Messrs. Laing & Mather	5	1 0	200	24·42	192
^D „ (Springwood Park)	Mr. W. Chaplin	5	1 3	130 $\bar{\pi}$	23·14	168
§ „ (Broomlands)	Dr. Buchan, F.R.S. ...	8	1 2	205	24·04	190
^D Melrose (Asylum)	No. 1 Mr. A. C. Pattman ...	5	0 6	480 $\bar{\pi}$	26·72	223
^D „ („)	No. 2 „ „ „	5	1 0	480 $\bar{\pi}$	25·82	223
Wooplaw [Galashiels]	J. Murray, Esq.	5	1 0	880 $\bar{\pi}$	27·02	168

DIVISION XIII.—SOUTH EASTERN COUNTIES.

SELKIRK.

Meggat Head (Edinburgh W. W.) No. 1	W. A. Tait, Esq., C.E.	5	1 3	1496 $\bar{\pi}$	48·59	...
^D Selkirk (Philiphaugh Gardens) ..	Mr. J. Hunter	12	4 6	460	28·62	194
^D „ (The Hangingshaw) ...	Miss Johnstone of Alva	6	0 6	670 $\bar{\pi}$	25·39	144
^D Galashiels (Abbotsford Rd.)	Dr. J. W. Somerville ...	5	0 8	416 $\bar{\pi}$	25·99	200
„ (Stantling Craigs) ...	Mr. W. Ross	12	1 3	800	27·78	...

PEEBLES.

Ravenscraig (Edinburgh W. W.) No. 3	W. A. Tait, Esq., C.E.	5	1 3	2258 $\bar{\pi}$	57·10	...
Gameshope Loch („ „) No. 4	„ „ „	5	1 3	1860 $\bar{\pi}$	59·16	...
Loch Craig Head („ „) No. 2	„ „ „	5	1 3	2627 $\bar{\pi}$	53·26	...
Gameshope Farm („ „) No. 5a	„ „ „	5	1 3	1538 $\bar{\pi}$	66·11	...

DIVISION XIV.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with '01 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level		
		in.	ft. in.	feet.	inches.	
LANARK—(con.)						
§ Glasgow Observatory	Prof. L. Becker	11	2 0	182	30·68	200
„ (Springburn Park)	J. Whitton, Esq.	5	0 6	361	28·70	185
D Airdrie (Hillend Reservoir)	Mr. W. A. Ritchie	6	4 6	620 ∇	32·13	201
§ Roushrig Res. [Slamannan]	Dr. Buchan, F.R.S. ....	...	...	...	32·21	...
A.Y.R.						
Ballantrae (Glendrishaig)	P. Murdoch, Esq.	10	4 0	42	31·46	172
Barrhill (Dochroyle)	M. Mr. J. Scott	6	0 6	548 \uparrow	47·08	...
D Colmonell (Clachanton)	R. Aitken, Esq.	6	0 6	140 \uparrow	41·44	181
D § Girvan (Pinmore)	Hugh Hamilton, Esq. ...	5	0 6	207 \uparrow	46·89	223
D Barr Manse	Rev. G. Dods	5	1 0	330	48·32	207
Girvan (Glendoune Gardens)	Mr. J. Simons	5	1 0	150 \uparrow	37·57	170
Ailsa Craig	Bd. of Northern Lights	3	5 0	..	52·22	146
Loch Finlas	J. Young, Esq., C.E. ...	5	1 0	849	60·12	...
Girvan (Turnberry)	Bd. of Northern Lights	...	...	...	23·52	155
D § Dalrymple (Bow Hill)	A. Gillespie, Esq. ....	...	...	978	48·25	207
D Maybole (Culzean Gardens)	Mr. D. Murray	9	3 0	200	36·65	170
„ (Knockdon Farm)	A. Cross, Esq.	6	1 6	600	36·57	...
„ („ Glenhead)	„ „	8	1 2	500	39·00	...
Ayr (Doonside)	W. H. Dunlop, Esq. ...	5	4 0	95	38·62	...
D „ (Doonholm)	J. Kennedy, Esq.	5	1 0	90	36·76	189
D Mauchline (Citrine)	H. W. Pollock, Esq. ...	6	1 0	301 \uparrow	33·73	195
Muirkirk (Glenbuck)	Mr. W. F. Hamilton ...	6	1 0	900	43·80	...
Kilmarnock	<i>Reg. General's Returns</i>	...	...	74	39·00	197
„ (North Craig)	R. Blackwood, Esq. ...	12	1 0	319 ∇	40·30	...
Saltcoats	<i>Ardrossan Herald</i> .....	...	...	...	36·41	...
D Dalry (Blair)	Mr. W. Mair	5	1 3	155 \uparrow	47·07	201
D „ (Camphill Reservoir)	Gilbert Christie, Esq. CE	12	1 6	640 ∇	56·25	190
„ („)	James Lee, Esq., C.E. ...	12	1 6	611	56·32	...
Shaws Water Works (Kelly Dam)	D. Macalister, Esq., C.E.	6	1 0	640	58·80	...
„ „ (Knockencorsan)	„ „ „	6	1 0	1040	55·50	...
RENFREW.						
Lochwinnoch (Garthland)	H. Macdowall, Esq. ...	5	0 11	150	60·03	191
„ (Castlesemple)	Mr. C. Jamieson .....	...	26 0	240	39·74	188
Gorbals Dist. W. W. (Ryat Lynn)	J. R. Sutherland, Esq. CE	8	0 5	310	44·00	...
„ „ „ (Waulk Glen)	„ „ „	12	0 5	280	42·70	...
„ „ „ (Middleton)	„ „ „	12	0 5	550	50·30	...
„ „ „ (Nether Cairn)	„ „ „	12	0 5	700	49·45	...
Paisley W. W. (Stanely)	James Lee, Esq., C.E. ...	12	1 0	190	35·86	...
„ „ (Back Thornleymuir)	„ „ „	12	1 0	646	41·43	...
„ „ (Muirhead)	„ „ „	12	1 0	482 ∇	50·71	...
„ „ (Springside)	„ „ „	12	1 0	532 ∇	56·85	...
D Glasgow (Queen's Park)	J. Whitton, Esq.	8	0 9	144 ∇	29·62	205
„ (Maxwell Park)	„ „ „	5	0 6	69	29·78	194
Paisley (Crookston)	Major R. J. Hotchkis ...	3	0 5	...	30·30	144
D † „ (The Coats Observatory)	Mr. D. Maclean	10	1 8	107	34·48	227
§ Kilmalcolm (Waterworks)	Dr. Buchan, F.R.S. ....	...	...	500 ?	69·45	...
Shaws W. W. (Duchall Moor)	D. Macalister, Esq., C.E.	6	1 0	1150	65·80	...

DIVISION XIV.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with .01 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level		
		in.	ft. in.	feet.	inches.	
RENFREW—(con.)						
Shaws W.W. (Creuch Hill)	D. Macalister, Esq., C.E.	6	1 0	1350	54.50	...
„ „ (Largs Road)	„ „ „	5	1 0	910	46.83	...
„ „ (Green Water) ...	„ „ „	6	1 0	788 π	62.30	...
§ Kilmalcolm (St. Oswald's)	Dr. Buchan, F.R.S. ...	...	...	...	43.32	...
§ Dougliehill Res. (Port Glasgow W.W.)	„ „ „ .....	...	...	...	45.36	...
§ Auchendores Res. („ „ „)	„ „ „ .....	...	...	...	42.07	...
Shaws W.W. (Gryfe Reservoir).	D. Macalister, Esq., C.E.	6	1 0	640 π	59.10	...
„ „ (Mansfield)	„ „ „	5	1 0	573 π	57.93	237
„ „ (Compensation Res.)	„ „ „	5	1 0	600	61.89	260
„ „ (Loch Thom)	„ „ „	5	1 0	643 π	60.34	260
„ „ (Shielhill)	„ „ „	6	1 0	962 π	62.70	...
„ „ (Darndaff Moor)..	„ „ „	6	1 0	850	59.30	...
„ „ (Spango Burn) ...	„ „ „	6	0 9	757 π	61.60	...
„ „ (Hole Glen)	„ „ „	5	1 0	603	57.30	236
„ „ (New Yetts Dam)	„ „ „	5	1 0	800	62.33	236
d§ Greenock (Prospect Hill)	„ „ „	5	1 0	233	56.50	231
Bishopton (Ingliston)	D. Cross, Esq.	5	1 0	195	39.40	...
Langbank (East Bank Gardens).	A. Cross, Esq.	5	1 6	...	41.21	...

DIVISION XV.—WEST MIDLAND COUNTIES.

DUMBARTON.

d§ Dumbarton (Leven Shipyard) ...	Messrs W. Denny & Bros.	5	1 0	9 T	40.74	226
d Helensburgh (Fernigair House) ...	J. R. Wilson, Esq. ...	12	0 6	18	39.92	223
d „ (Water Works) ...	„ „ „	12	0 6	300	38.90	228
Garelochhead (Aikenshaw) M	W. S. Turnbull, Esq. ...	...	...	30	63.75	...
Arrochar (The Manse)	Rev. Dugald Macfarlane	5	1 0	14	65.51	...
„ House	(R) Mr. J. Thomson	6	1 3	50	87.00	...

STIRLING.

Muiravonside Ho. [Linlithgow].	C. Stirling, Esq.	5	6 0	175	26.64	...
Strathblane (Mugdock Reservoir)	J. R. Sutherland, Esq. CE	8	0 6	320	34.20	...
„ (Craigend Castle)	Capt. J. Kerr	5	1 2	533 T	50.68	208
Kilsyth (Currymire)	Mr. G. J. Ramsay	5	1 2	200	41.37	180
d Falkirk (Inglewood, Laurieston)	W. Ballantine, Esq. ...	5	1 3	133 T	30.83	169
d „ (Hospital)	David Ronald, Esq., C.E.	5	1 0	395 π	30.14	177
d „ (Burgh Buildings)	„ „ „	5	1 0	106 π	27.41	181
„ (Kerse)	C. Brown, Esq.	8	1 0	18 π	27.50	...
„ („)	„ „ „	5	0 10	18 π	26.89	...
d „ (Cauldham)	David Ronald, Esq., C.E.	5	1 0	73 π	28.27	193
Little Denny Reservoir	C. Massie, Esq.	8	1 0	326	39.13	...
„ „ Filters	„ „ „	8	1 0	243 π	37.06	...
Earlsburn Reservoir	„ „ „	8	1 0	1202 π	50.19	...
Kilsyth (Faughlin Res.)	„ „ „	8	1 0	707 π	48.27	...
d Killearn (Achnagowen)	Miss Guthrie-Smith ...	5	0 10	332 π	44.78	228
Stirling (Touch Reservoir)	C. Stirling, Esq. ....	...	...	755	36.27	...
„ (Polmaise Gardens)	„ „ „	6	1 0	12	28.93	...

DIVISION XV.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with .01 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
STIRLING—(con.)						
Stirling (Victoria Place)	R. Kidston, Esq., F.R.S.	5	2 10	100	30·17	...
D§ Buchlyvie (The Manse).....	Rev. J. A. Macdonald..	5	1 3	118 T	47·57	253
Gargunnoch House	C. Stirling, Esq.....	5	5 8	85 T	38·30	...
D Kippen (Arngomery)	Mr. P. McCowan	5	4 2	150	43·05	174
„ (Garden House)	C. Stirling, Esq .....	...	...	...	42·50	...
Bridge of Allan	Laurence Pullar, Esq...	5	1 0	110	24·97	...
Ben Lomond	J.R.Sutherland, Esq.CE	...	...	1800	111·50	...
Loch Arklet (Corriehichon) .....	„ „ „	...	...	870	81·70	...
„ „ (Corriearklet) .....	„ „ „	...	...	950	82·60	...
Glengyle .....	„ „ „	...	...	380	77·10	...
BUTE.						
Arran (Pladda)	Bd. of Northern Lights	...	...	...	59·97	195
Holy Island (Lamlash)	„ „ „	3	0 3	...	42·15	176
D Rothesay (Crichton Road)	H. Lauder, Esq.....	5	4 0	97	49·18	231
„ (Glenburn).....	Reg. General's Returns	...	...	76	48·57	228
ARGYLL—(MAINLAND.)						
D Kintyre (Campbeltown, Witchburn)	Mr. A. Giffen	5	1 2	75	43·43	229
§ „ („ The Rectory)	Dr. Buchan, F.R.S. ...	...	...	...	47·50	...
„ („ Devaar)...	Bd. of Northern Lights	...	3 4	75 P	46·33	168
„ (Killeen Manse)	Rev. D. J. Macdonald..	5	1 0	30 B	42·11	210
D „ (Largie Castle)	J.R.Moreton Macdonald, Esq.	5	1 0	160 T	43·76	147
„ (Skipness Castle)	Mr. P. McLean ...	6	1 6	27 L	46·11	...
„ (Carse, Tarbert)	J. Birkmyre, Esq., jun.	...	1 6	20	39·94	...
D Tighnabruaich (Craigandaraich)	A. S. Cousland, Esq...	6	4 0	30 B	51·45	219
D „ („)	„ „ „	12	5 0	50 B	57·07	219
D Dunoon (Reservoir)	J. Andrew, Esq., C.E...	4	3 6	245 A	78·71	238
D „ (Redhurst)	Dr. J. Banks	5	1 6	60	74·96	228
„ (Grammar School)	J. MacGregor, Esq. ...	5	1 5	56 A	66·76	...
D Lock Eck (Benmore).....	H. J. Younger, Esq. ...	5	1 3	40	86·84	194
D Ardrishaig	L. J. Groves, Esq., C.E.	5	0 4	44	67·90	226
D§ Lochgilphead (Poltalloch).....	Mr. D. S. Melville.....	5	1 2	135	55·00	252
D Loch Fyne (Furnace).....	Mr. W. Nicol	5	3 0	15 L	67·51	235
D Lochgoilhead	G. Murray Knox, Esq..	5	1 0	15	76·34	232
D† Inveraray (Newtown)	Mrs. Little	5	1 0	17	68·53	267
D Oban (Kilmelfort, Arduaine) ...	J. A. Campbell, Esq....	5	0 3	23 L	55·01	216
§ Appin (Airds).....	Dr. Buchan, F.R.S. ...	5	0 11	15	53·13	151
D Morvern (Kingairloch)	G. Herbert Strutt, Esq.	8	0 8	40 P	98·94	202
D „ (Drimnin)	Mrs. Gordon	5	1 0	225	61·86	250
D Ballachulish House	F.C.BeresfordDrummond Esq	5	1 0	56 A	87·10	234
D „ (Glencoe).....	J. D. Sutherland, Esq. ...	...	6 0	100	84·59	183
D Strontian (Laudale)	J. A. Fletcher, Esq. ...	8	1 0	15 A	81·46	239
D Loch Sunart (Glenborrodale) ...	C. D. Rudd, Esq.	5	0 2	60 L	70·16	223
Ardnamurchan	Bd. of Northern Lights	8	4 3	40	41·21	204
Ardgour	Mrs. Maclean	3	0 10	72	62·00	...
Loch Eil (Corran)	Bd. of Northern Lights	3	1 6	4	96·44	229

DIVISION XV.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with ≥ 0.1 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level		
		in.	ft. in.	feet.	inches.	
ARGYLL—(INSULAR.)						
D Islay (Ardbeg)	C. E. Hay, Esq.	5	7 0	46 T	45.94	234
„ (Rhinn)	Bd. of Northern Lights	7	3 6	40	31.25	181
„ (Lochindaul)	„ „ „	3	0 6	20	40.30	172
„ (McArthurshhead)	„ „ „	3	0 4	140	50.34	189
D „ (Eallabus)	J. Laughton, Esq.	5	1 0	68 T	51.79	238
D „ (Gruinart)	Miss Brown	5	1 0	10	46.15	218
„ (Rhuvaal)	Bd. of Northern Lights	3	1 3	30	47.66	210
Jura (Fladda)	„ „ „	3	1 0	8	51.02	189
Lismore (Mousedale)	„ „ „	7	3 10	18	30.57	229
§ Eriska Island	Dr. Buchan, F.R.S. ....	...	...	...	57.68	225
Mull (Bunessan)	Duncan Cameron, Esq.	5	1 4	50	76.19	...
§ „ (Lochbuie)	Dr. Buchan, F.R.S.	8	1 2	20	83.10	230
D „ (Kinlochspelve)	Mr. R. McMorran	8	1 0	45	87.51	249
„ (Knock)	Duncan Cameron, Esq.	5	1 4	20	101.31	...
§ „ (Gruline, Aros)	Meteorological Office ...	8	1 0	101	78.33	243
D „ (Quinish)	J. N. Forsyth, Esq.	5	1 3	35 B	56.32	254
„ (Glengorm)	F. Morgan, Esq.	8	0 11	300	48.62	...
„ Sound of	Bd. of Northern Lights	3	1 4	14	61.82	217
D Tiree (Hylipol Manse)	Rev. D. Maclean	5	1 0	25 B	43.72	237

DIVISION XVI.—EAST MIDLAND COUNTIES.

CLACKMANNAN.

D Alloa (Mar Street)	J. Melville, Esq.	5	0 6	70	25.03	...
D Alva House	Miss Johnstone of Alva	5	1 6	180	34.80	224
D Dollar (Dollarbeg)	James Bleloch, Esq.	5	0 9	265 T	31.96	194
D§ „ (Academy)	Mr. A. Blackwood	9	1 0	178	35.12	154

KINROSS.

Blairingone [Dollar]	Rev. J. F. Cameron ...	5	1 6	300 T	33.07	194
D Loch Leven Sluice	Mr. W. Hay	8	0 9	360 L	30.28	165
D Kinross (Gellybank)	G. Henderson, Esq.	5	0 6	440 T	28.03	202

FIFE.

Inchkeith	Bd. of Northern Lights	...	...	...	18.43	...
D Culross (West Grange)	J. J. Dalgleish, Esq.	5	0 2	116 T	26.70	176
Dunfermline (Keavil)	L. Dalgleish, Esq.	5	0 2	150	23.05	...
Carnock (Luscar House) ...No. 1	A. Mitchell, Esq.	5	0 10	430 T	26.75	...
„ („ „) ...No. 2	„ „ „	5	0 10	430 T	26.15	...
„ (Craighuscar)	A. W. Bell, Esq., C.E.	12	0 4	280 T	23.31	...
Beath (Outh)	L. Dalgleish, Esq.	5	0 2	890	29.49	...
Kilconquhar (Balcarres)	Mr. E. Tate	5	1 0	300 T	24.93	191
D Carnbee (Ovenstone W.W.)	A. P. Watson, Esq.	5	1 0	168 T	23.20	141
§ Leslie (Lothrie Reservoir)	Dr. Buchan, F.R.S.	5	0 5	702	27.85	...
§ Cupar (Clatto Reservoir) .....	„ „ „	...	...	...	24.84	...
Boarhills (Kenly Green)	G. Cheetham, Esq.	8	0 10	75 T	19.12	...
D St. Andrews (Waterworks)	W. Watson, Esq.	5	1 0	217 T	21.28	163

DIVISION XVII.—NORTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with ≥ 0.1 or more recorded.
		Diameter	Height Above Ground.	Height Above Sea Level		
		in.	ft. in.	feet.	inches.	
ABERDEEN—(con.)						
D Cromar (Logie Coldstone School)..	J. B. Anderson, Esq....	5	1 0	608 $\bar{\pi}$	33.66	226
D§ „ („ „ „ Loanhead)	Mr. A. Farquharson ...	5	1 0	743 $\bar{\pi}$	31.48	208
§ „ (Tillypronie)	Mr. R. Littlejohn	5	1 0	1120 $\bar{\pi}$	31.12	221
D Aberdeen (Cranford)	D. McHardy, Esq. ...	5	1 0	120 $\bar{\pi}$	31.19	214
§ „ (Duthie Park)	Dr. Buchan, F.R.S. ...	5	1 0	44	27.47	197
§ „ (King's College)	Meteorological Office...	8	2 0	48	28.45	221
Towie (Culquoich)	Col. J. Allardyce	5	1 6	800	35.89	...
D Strathdon Schoolhouse	J. B. Innes, Esq.	5	1 0	980 $\bar{\pi}$	36.49	227
D „ (Estate Office)	C. Christie, Esq.	5	1 2	990	37.50	250
D Alford (Lynturk Manse)	Rev. J. B. Duncan.....	5	1 0	600 $\bar{\pi}$	35.87	231
D Monymusk (The Manse)	Rev. Dr. Macpherson...	5	1 0	280 $\bar{\pi}$	35.72	234
Ellon (Mains of Waterton)	T. F. Jamieson, Esq....	5	1 0	100	34.05	...
Huntley	Alex. Smith, Esq.	5	1 0	450 $\bar{\pi}$	34.57	...
Buchanness.....	Bd. of Northern Lights	3	3 0	25	21.68	174
New Deer Schoolhouse	H. Cowie, Esq.	5	1 0	397 $\bar{\pi}$	37.05	221
Kinnairdhead.....	Bd. of Northern Lights	3	2 6	54	27.31	189
BANFF.						
D Dufftown (Fife Street)	J. Walker, Esq.....	5	2 0	579 $\bar{\pi}$	38.04	244
„ (Dullan Brae)	Mr. R. Gibb	9	1 0	400	35.18	231
Aberlour.....	W. McGowan, Esq. ...	5	0 10	300 $\bar{\pi}$	31.57	...
D Craigellachie (Cragganspey).....	J. Shearer, Esq.....	3	0 1	320	33.08	179
D Keith Station	Mr. John Lyon	6	1 0	364 $\bar{\pi}$	37.42	210
Banff (Earl Hill)	A. Ramsay, Esq.	5	1 0	115 $\bar{\pi}$	29.41	211
Cullen House	Mr. A. Morton	5	1 0	100 $\bar{\pi}$	32.20	...
ELGIN OR MORAY.						
Grantown	Mr. W. Duncan.....	5	1 1	712 $\bar{\pi}$	29.70	197
Archiestown (Benview).....	Mr. J. Milne	5	1 0	750 $\bar{\pi}$	31.19	200
Kinloss	J. Mackessack, Esq. ...	5	1 3	23 $\bar{\pi}$	26.04	...
D§ Gordon Castle.....	Mr. C. Webster.....	8	1 0	107 $\bar{\pi}$	31.47	209
D Duffus House	Sir A. Dunbar, Bart....	5	1 0	55 $\bar{\pi}$	26.83	200
NAIRN.						
D Ardelach (Glenferness).....	Earl of Leven and Melville	8	1 6	750	35.27	153
D Cawdor (Budgate).....	J. Joss, Esq.	5	1 0	250 $\bar{\pi}$	30.22	215
D „ Castle	The Earl Cawdor	8	4 3	225	27.58	190
Nairn (Delnies)	<i>Nairn Telegraph</i>	8	1 6	84	22.76	243
D „ (Achareidh).....	Miss A. Clarke	8	1 0	59 $\bar{\pi}$	23.69	237
§ „ (School Ho.).....	Meteorological Office...	8	1 9	84	22.74	242

DIVISION XVIII.—NORTH WESTERN COUNTIES.

WEST INVERNESS.

D North Ballachulish (Alltshellach)	B. Chinnery-Haldane Esq	5	2 1	80	74.81	230
Moidart (Kinlochmoidart).....	R. Stewart, Esq.....	5	1 3	25	74.21	...
D Fort William (Ardtraigh)	Colin Livingston, Esq..	5	1 0	135	80.42	240

DIVISION XVIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with 01 or more recorded.
		Diameter	Height Above Ground.	Height Above Sea Level.		
		in.	ft. in.	feet.	inches.	
WEST INVERNESS—(con.)						
D Loch Shiel (Glenfinnan)	Col. J. A. Macdonald...	5	1 2	50 ?	104·12	235
D Arisaig House	Mr. W. Grant	5	1 0	20 ?	61·71	252
D Mucomir	Rev. D. Sutherland ...	5	1 0	154 $\bar{\pi}$	58·84	224
D Loch Nevis (Inverie)	Mr. J. Huggins	5	0 6	10	88·08	244
D Glenquoich	Mr. D. Grant	8	1 2	569 $\bar{\pi}$	114·41	274
D Glenelg Manse	Rev. A. Mactaggart ...	5	1 0	85 $\bar{\pi}$	65·10	229
D Eigg (Kildonan)	Mrs. Glendinning	5	1 0	35	51·68	206
Skye (Oronsay)	Bd. of Northern Lights ...	...	0 6	15 ?	47·58	198
„ (Strathaird)	Mr. K. Macdonald	5	1 4	145	93·40	206
„ (Kyleakin)	Bd. of Northern Lights ...	5	4 6	45	50·81	228
D „ (Scalpay Island)	Mr. D. Gunn	5	1 0	4	72·72	254
§ „ (Drynoch, Loch Harport) ..	Meteorological Office ...	5	1 0	40	70·17	...
„ (Portree House)	A. H. Douglas, Esq. ...	5	1 5	100	57·06	...
Rona	Bd. of Northern Lights ...	3	1 3	180	35·21	210
Barra (Barrahead)	„ „ „	7	3 0	613	31·90	199
S. Uist (Ushenish)	„ „ „	3	1 0	178 ?	87·10	223
§ N. Uist (Monach)	„ „ „	8	5 6	20	43·22	218
D „ (Lochmaddy)	T. D. MacGregor, Esq. ..	5	0 9	...	42·74	250
Harris (Island Glass)	Bd. of Northern Lights ...	7	4 2	35	47·70	212
D „ (Tarbert)	R. Sinclair, Esq.	5	1 6	33 L	82·20	260
EAST INVERNESS.						
Invergarry	Mrs. Ellice	5	1 0	130 ?	55·78	...
§ Kingussie	Dr. Buchan, F.R.S. ...	5	1 0	828	27·52	238
D § Fort Augustus (St. Benedict's) ...	Rev. C. von Dieckhoff. ..	5	1 6	68 $\bar{\pi}$	43·61	221
D Alvey Manse	Rev. J. Anderson	5	1 0	760	28·87	212
Loch Ness (Killin)	British Aluminium Co. ..	5	1 0	1200	47·70	...
D „ „ (Whitebridge)	„ „ „	5	1 0	645	53·00	216
„ „ (Foyers)	„ „ „	8	1 6	52	35·46	...
„ „ (Aberchalder)	„ „ „	5	1 0	700 T	32·88	...
D „ „ (Drumadrochit)	Mr. Angus Grant	5	1 0	138 $\bar{\pi}$	31·50	243
§ Inverness (High School)	Dr. Buchan, F.R.S. ...	8	1 0	114	25·89	197
WEST ROSS & CROMARTY.						
Glenshiel (Cluanie Forest)	A. Cross, Esq.	5	0 9	800 T	87·04	...
D Kintail (The Glebe)	Rev. R. MacKenzie ...	5	0 10	30 $\bar{\pi}$	58·26	230
Applecross Gardens	Mr. D. McCowan	5	1 0	70 $\bar{\pi}$	56·99	...
Strathconan (Dalbreac)	Mr. D. MacIver	5	1 0	450	48·96	...
D § Glencarron	Mr. D. D. Munro	5	1 0	504	95·13	280
D Loch Torridon (Bendamph)	Capt Hon L F King-Noel	5	0 5	20 $\bar{\pi}$	86·57	271
§ Kinlochewe	Meteorological Office ...	...	...	...	82·03	238
Loch Vraon	Lady Fowler	8	0 7	750	68·50	...
Loch Drome	„ „	8	0 7	850 T	83·98	...
Braemore House	„ „	8	0 7	750	65·89	...
D Ullapool (Drumruinie Lodge) ..	D. A. Lawson, Esq. ...	5	2 6	400	82·75	257
D „ (Inverpolly Lodge)	„ „ „	5	4 0	29	50·91	237
§ Stornoway	Meteorological Office ...	8	1 0	24	50·74	274

DIVISION XVIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with '01 or more recorded.
		Diameter	Height Above Ground.	Height Above Sea Level		
		in.	ft. in.	feet.	inches.	
W. ROSS & CROMARTY—(con.)						
Stornoway (Tiumpanhead)	Bd. of Northern Lights	...	...	...	63·40	194
„ (Butt of Lewis)	„ „ „	8	4 6	65	45·61	233
EAST ROSS & CROMARTY.						
D Fortrose (Raddery)	E. Gathorne Hill, Esq..	5	0 7	300	29·61	196
§ Strathpeffer	Meteorological Office...	...	...	253	29·53	213
§ Evanton (Swordale House)	Dr. Buchan, F.R.S. ...	10	0 8	520	33·90	...
D „ (Novar Gardens)	Mr. A. Edmondstone ...	5	0 6	...	37·96	242
D Kildary (Tarbat House)	Mr. C. Dyer	5	1 6	15	25·75	...
D Alness (Ardross Castle)	Mr. W. Minty	5	1 0	450 $\bar{\pi}$	41·21	259
D Fearn (Lower Pitkerrie)	R. Gordon, Esq., C.E..	5	1 0	95	25·76	176

DIVISION XIX.—NORTHERN COUNTIES.

SUTHERLAND.

D Dornoch	Rev. Dr. Grant	5	1 0	21	27·49	174
D Invershin	G. Young, Esq.	5	4 0	20 $\bar{\Gamma}$	36·42	197
D § Dunrobin Castle	Mr. D. Melville	5	1 0	14 $\bar{\pi}$	31·80	197
§ „ „	M „ „	3	0 5	13 $\bar{\pi}$	30·81	...
§ Lairg	Dr. Buchan, F.R.S. ...	...	1 0	390	42·14	279
Stourhead	Bd. of Northern Lights	5	1 6	155	25·77	254
D Altnaharra	Rev. G. Mackay	5	1 0	300 $\bar{\Gamma}$	45·46	214
D Bettyhill	Mr. Evander Mackay...	5	1 0	100	39·35	202
D Melvich	Mr. A. MacIntosh	5	1 0	...	38·25	220
Cape Wrath	Bd. of Northern Lights	7	4 8	330	39·84	225

CAITHNESS.

§ Wick	Meteorological Office...	8	1 9	77	32·30	261
„ (Nosshead)	Bd. of Northern Lights	...	...	...	31·00	190
D Watten Station	Mr. J. Phimister	5	2 6	75 $\bar{\Gamma}$	30·43	228
D Castletown (The Clett)	Capt. J. Calder	5	1 0	73 $\bar{\pi}$	40·88	277
Thurso (Holburn Head)	Bd. of Northern Lights	3	0 8	60 $\bar{?}$	31·24	246
Dunnet Head	„ „ „	3	1 0	320	35·45	174
Stroma .....	„ „ „	...	...	...	25·79	207
Pentland Skerries	„ „ „	7	3 9	40	28·78	199

ORKNEY.

Hoy (Cantickhead)	Bd. of Northern Lights	3	1 0	52	29·03	177
„ (Graemsay Sound, East=High)	„ „ „	5	0 4	17	40·97	198
„ („ „ West=Low)	„ „ „	8	4 3	27	45·11	208
§ Pomona (Deerness)	Dr. Buchan, F.R.S. ...	5	1 0	161	36·84	218
§ „ (Kirkwall)	„ „ „	3	0 9	20	38·21	234
Hellyar Holm	Bd. of Northern Lights	3	1 0	28	39·29	213
Auskerry	„ „ „	3	2 6	10	38·50	179
Shapinsay (Balfour Castle)	Mr. T. McDonald	5	0 6	50	31·74	...
Sanday (Start Point)	Bd. of Northern Lights	3	1 0	15	26·23	143

DIVISION XIX.—NORTHERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with '01 or more recorded.
		Diameter	Height Above Ground.	Height Above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
ORKNEY—(con.)						
Westray (Noup Head)	Bd. of Northern Lights	3	1 0	190	24·37	199
North Ronaldshay	„ „ „	3	0 4	10	31·48	177
SHETLAND.						
Fair Isle, N.	Bd. of Northern Lights	...	..	...	44·49	205
Sumburghead .....	„ „ „	...	...	...	39·50	171
§ „ (Dunroseness) ...	Meteorological Office...	8	1 0	84	35·66	284
§ Bressay	Bd. of Northern Lights	3	1 0	62	49·80	216
§ Lerwick	Dr. Buchan, F.R.S. ...	5	1 0	30	37·33	220
§ Sule Skerry	Bd. of Northern Lights	3	0 6	40	32·95	195
§ Northmavine (Lochend)	Dr. Buchan, F.R.S. ...	...	...	...	43·69	...
§ Fetlar (The Manse)	Rev. J. A. Campbell ...	5	1 0	30 1	35·77	275
§ Unst (Halligarth)	Dr. Buchan, F.R.S. ...	...	...	...	40·28	...

IRELAND.

DIVISION XX.—MUNSTER.

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with '01 or more recorded.	
		Diameter	Height above Ground.				Height above Sea Level
		in.	ft.	in.	feet.	inches.	
CORK.							
D Castletownshend (Glen Barrabane)	Sir E. B. Coghill, Bart.	5	3	0	25 L	37.95	171
D Dunmanway (The Rectory)	Rev. A. Wilson	5	4	6	205 T	54.72	211
D Bandon (Ardnacarrig)	G. A. Armstrong, Esq.	5	1	0	126 T	40.75	186
§ Roche's Point	Meteorological Office...	8	1	9	32	33.26	238
§ Middleton (Ballynacurra)	" " " "	8	1	0	...	34.65	202
D Cork (Villa Franca)	R. C. Sikes, Esq., C.E.	5	1	0	49 T	38.53	199
D " (Queen's College)	Prof. A. Jack	8	1	0	60	41.40	182
D " (College Road)	C. H. Jacob, Esq.	8	4	0	120 T	36.77	179
D " (The Palace)	Rt. Rev. Bishop of Cork	5	1	0	40 L	36.32	186
D Mallow (Summer Hill)	J. F. Williamson, Esq.	5	1	10	261 T	37.94	203
" (Longueville)	R. E. Longfield, Esq. ...	5	1	1	310 T	37.45	213
Mitchelstown Castle	W. D. Webber, Esq. ...	8	3	0	340 A	37.66	193
KERRY.							
D Darrynane Abbey ..	D. O'Connell, Esq.	5	1	1	13 A	50.74	253
D Waterville (Iveragh Lodge)	R. J. Hughes, Esq. ...	5	1	0	86 A	40.04	197
Kenmare (Derreen)	Mr. W. Holbrow	5	1	0	74 L	74.83	207
" (Dromore Castle)	Mr. Bloomer	5	2	0	100	58.16	...
" (Dunkerron)	Miss Palmer	5	2	6	70	60.01	179
§ Valencia (Glanleam)	Meteorological Office ..	8	1	0	12	57.11	246
§ Cahirciveen	" " " "	8	2	0	32	52.18	264
Gap of Dunloe (Garrymeen)	Ven. Archdeacon Wynne	8	3	0	75	93.70	...
D § Killarney (District Asylum) ...	E. W. Griffin, Esq., M.D.	5	0	10	178 T	47.20	232
§ Brandon Bay (Fermoyle)	Meteorological Office...	5	1	0	40	79.00	234
WATERFORD.							
Lismore (Mocollop Castle) ... (R)	Dr. H. W. Drew	8	4	9	180	38.42	...
Knockaderry	No. 1 M. J. Fleming, Esq., C.E.	5	4	0	248 T	29.12	164
" "	No. 2 " " " "	5	4	0	241 T	28.07	164
D Waterford (Whitfield Court) ...	Major H. Chavasse	5	0	7	67 A	32.99	181
D " (Brook Lodge)	C. P. Bolton, Esq., C.E.	5	1	0	104 T	33.48	184

DIVISION XX.—MUNSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with .01 or more recorded.
		Diameter	Height Above Ground		1905	
		in.	ft.	in.	feet.	inches.
WATERFORD—(con.)						
D Waterford (Tycor).....	M.J. Fleming, Esq. C.E.	5	0	7	171 T	32.09 154
D Portlaw (Mayfield).....	J. Anderson, Esq.	5	4	0	70	34.64 195
D „ (The Gardens, Curraghmore)	Mr. D. Crombie	5	1	0	95	40.28 150
D „ (Milfort)	C. Morley, Esq.	5	2	2	200 T	43.06 183
D Glenam [Clonmel]	Miss Grubb.....	8	1	4	80 T	36.97 209
D Sheskin [Carrick-on-Suir]	J. Ernest Grubb, Esq... ..	8	1	4	542 T	39.33 201
TIPPERARY.						
D Clonmel (Bruce Villa)	J. H. Grubb, Esq.....	5	1	3	110 T	30.89 193
§ Cahir (Bengurragh)	Royal Meteorological Soc	5	1	0	199	32.53 217
„ Abbey	Mrs. W. Rochfort	5	0	6	...	30.92 198
Nenagh (Kilboy)	The Lady Dunalley ...	8	1	0	326	40.84 198
„ (Castle Lough)	S.G.J. Parker-Hutchinson Esq	5	1	3	120 T	31.89 212
D „ (Highlands)	John Mounsey, Esq. ...	5	1	2	470	28.65 207
Roscrea (Timoney Park)	S.G.J. Parker-Hutchinson Esq	5	1	0	475 T	27.61 ...
D Ballingarry (Gurteen)	P. Bicknell, Esq.	5	1	0	..	27.45 214
LIMERICK.						
§ Foynes	Meteorological Office... ..	5	1	0	104	31.13 218
D Limerick (Roxborough).....	A. W. Shaw, Esq.	8	1	6	108 T	30.16 209
„ (Victoria Terrace)	J. Horan, Esq.	5	1	0	60 T	28.88 214
„ (St. Michael's)	Ven Archdeacon Wynne	8	2	0	50	28.35 ...
CLARE.						
D Carrigaholt Castle.....	W. C. V. Burton, Esq.	5	1	0	16	29.26 227
D Killadysert (Paradise Hill)	F. B. Henn, Esq.	5	0	11	105 T	37.99 228
D § Newmarket-on-Fergus (Carrigoran)	Mr. A. Barker	5	1	0	86	33.06 218
D Broadford (Hurdlestown).....	Colonel W. Bentley ...	5	1	0	167 T	30.45 231
D Killaloe	F. Dudley Fletcher Esq CE	5	2	0	...	38.81 206
Ennis (Roslevan)	Mrs. Scott	5	1	11	40 T	30.92 204
D Miltown Malbay	M. Molohan, Esq.	5	1	0	400 T	35.16 240
§ Inagh (Mount Callan)	Meteorological Office... ..	5	1	0	480	51.07 244
D Lahinch (Moy House)	Miss Bowes.....	5	1	0	53	33.39 230
D Ennistymon House	H. V. Macnamara, Esq.	5	1	0	37 T	39.85 242
D „ Rectory	Rev. C. W. McDowell..	5	1	0	132	39.28 210

DIVISION XXI.—LEINSTER.

WEXFORD.

Wexford (Reclaimed Lands) ...	Mr. W. Thomas.....	8	1	3	—3 T	24.43 ...
D New Ross (Longraigue).....	J. W. Deane, Esq.....	5	1	0	210 T	31.84 189
D Wexford (Bann-aboo)	Col. J. R. Magrath ...	8	4	0	9	28.08 162
D Templeudigan (Ballindoney) ...	J. Budgen, Esq.	5	1	0	434 B	35.90 186
Enniscorthy (Monart Rectory)...	Rev. W. F. A. Ellison..	5	0	11	150 T	31.44 ...
D „ (Ballyhyland)	Mrs. Moffat.....	5	1	0	365 T	33.77 200
„ (Monksgrange).....	G. H. Orpen, Esq.	5	1	0	565 B	40.96 224
D Oulart (Wells)	C. M. Doyne, Esq.....	5	1	0	207 T	30.89 185

DIVISION XXI.—LEINSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain. 1905	Days with 01 or more recorded.
		Diameter	Height Above Ground	Height Above SeaLevel		
		in.	ft. in.	feet.	inches.	
WEXFORD—(con.)						
D Enniscorthy (Woodbrook)	Rev. Canon Blaeker ...	5	0 10	320 T	38·42	188
D Gorey (Courtown House)	The Earl of Courtown..	5	3 0	80 T	28·27	161
KILKENNY.						
D Rockenham [Waterford]	A. E. Graves, Esq.....	5	1 0	140 T	30·12	177
Inistioge (Woodstock)	G. R. B. Tighe, Esq....	6	1 0	400 T	34·57	189
" (")	" " " "	8	0 8	919 T	35·03	...
§ Kilkenny Castle	Meteorological Office...	8	1 0	208	24·95	166
" (Lavistown House) ...	Miss Butler.....	5	2 5	170	23·30	170
D Goresbridge (Barraghcore House)	H. de M. Fleming, Esq.	5	1 0	130 T	24·53	211
WICKLOW.						
D Laragh (Glendalough)	Wyndham H Wynne Esq	5	2 9	460 T	50·35	210
Roundwood (Vartry Lodge)	Spencer Harty, Esq., CE	5	1 0	720	40·61	...
"	" " "	5	1 6	800 T	37·88	...
" (Knockatemple).....	" " "	5	1 6	760 T	39·02	...
Newcastle (Killadreenan)	B. H. Steede, Esq., M.D.	8	1 2	255 T	32·35	176
Tithewere	Spencer Harty, Esq., CE	5	1 6	1000 T	38·37	...
Annacarter	" " "	5	1 6	750 T	37·32	...
Greystones (Knockdolian).....	R Cathcart Dobbs Esq CE	5	1 2	68 T	28·92	160
D† Bray (Fassaroe)	R. M. Barrington, Esq.	10	5 0	250	41·66	185
CARLOW.						
Bagnalstown (Fenagh House) ...	D. R. P. Beresford, Esq	5	1 0	340	30·27	190
" (" " ") M	" " "	5	1 0	340	26·74	...
D Carlow (Browne's Hill).....	W. Browne Clayton, Esq	5	1 0	291 T	28·80	183
QUEEN'S COUNTY.						
Abbey Leix (Blandsfort)	J. L. Bland, Esq.	5	5 0	532 T	31·33	223
D Mountrath (Castletown)	Col. W. Dunne, C.B....	5	3 0	452 T	25·43	205
D " (Ballyfin).....	J. McLaren, Esq.	8	1 0	600 T	33·31	221
KING'S COUNTY.						
D§ Birr Castle	Earl of Rosse, K.P., FRS	8	1 0	183	25·69	221
§ " "	" " "	8	0 10	183	25·61	216
Banagher	Mr. J. Deegan	5	1 0	170	21·52	...
Tullamore	Rev. R. S. Craig	5	1 0	201 T	24·61	...
D Edenderry	Lewis H. Williams, Esq.	5	5 6	200	28·54	234
KILDARE.						
D Castledermot	Rev. M. Walsh	5	2 8	...	24·30	182
D Monasterevan (Moore Abbey) ...	Mr. C. Pilgrim	5	1 0	236 T	24·81	211
D Straffan House	Mr. F. Bedford	5	2 0	240 T	25·78	187
Kilcock (Knockanally)	Miss Sibthorpe	5	1 2	290 T	27·04	...

DIVISION XXI.—LEINSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with 01 or more recorded.
		Diameter	Height Above Ground	Height Above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
DUBLIN.						
D Glen-na-Smoel (Water Works)...	F. P. Dixon, Esq., C.E.	5	1 0	514 \bar{A}	40·83	214
Carrickmines (Claremont)	John Read, Esq.	5	0 11	350	30·35	...
D Ballybrack (Streamville)	F. B. Falkiner, Esq....	5	1 5	30 B	28·96	192
Killiney (Cloneevin)	R. O'B. Furlong, Esq. CB	5	1 0	250 T	27·68	180
D Foxrock (Hillside)	G. M. W. Hill, Esq. ...	5	1 0	245	31·22	205
D Stillorgan (White Cross)	Miss Muriel E. O'Sullivan ...	5	1 0	290	30·16	188
Dundrum (Lynton)	Dr. A. S. Goff.....	5	...	200 \bar{P}	31·83	212
D† Kingstown (People's Park)	Dr. J. Byrne Power ...	8	1 0	43 \bar{A}	24·80	169
D " (Harbour Yard).....	R. D. Gray, Esq.	8	1 0	52 \bar{A}	25·19	154
Rathmines (Terenure)	F. P. Dixon, Esq., C.E.	8	0 6	125 \bar{A}	25·98	188
D " (Leinster Road)	E. H. Cannon, Esq. ...	5	0 11	170	26·16	194
D† Dublin (Fitz William Square) ...	Sir J. W. Moore, M.D.	8	1 6	54 T	25·28	193
" (Leeson Park)	Dr. C. Joynt	5	1 0	75 \bar{P}	27·16	184
† " (Trinity College)	M. S. Moore, Esq.	8	1 0	13 \bar{A}	24·06	187
D† " (Phoenix Park)	Maj. R. M. Buckland, RE	8	1 0	155 \bar{A}	24·46	208
D Glasnevin (Botanic Gardens) ...	F. W. Moore, Esq. ...	8	1 0	55	24·04	196
Malahide (The Green)	T. Bateman, Esq.	5	1 0	25 T	25·59	192
D§ Balbriggan (Ardgillan) ... No. 1	Capt. E. R. Taylor.....	5	1 0	211 T	25·10	184
§ " (") ... No. 2	" " "	8	1 0	211 T	26·62	...
§ " (") ... No. 3	" " "	5	1 0	211 T	25·24	...
MEATH.						
D Summerhill House.....	Lord Langford	5	1 0	372 T	26·43	204
D Athboy	C. P. Coghill, Esq.....	8	1 3	227	29·98	183
D Kells (Headfort).....	The Marquis of Headfort	10	5 0	227	28·31	148
D Oldcastle (Killeagh Rectory) ...	Rev. R. Butler	5	1 0	382	28·55	204
D Moynalty (Westland)	W. A. Barnes, Esq. ...	5	1 2	260 T	32·34	213
D Drumconrath (Aclare House) (R)	Admiral Singleton, C.B.	10	2 6	170 T	30·66	215
WESTMEATH.						
Athlone (The Moorings)	Capt. J. Preston.....	5	1 0	178	23·56	...
D " (Twyford)	J. P. Hodson, Esq.....	5	5 0	188 \bar{A}	27·10	224
D Moate (Coolatore)	H. A. S. Upton, Esq... 5	1 10	300	26·25	234	
D Mullingar (Belvedere)	Mr. J. Bayliss	5	1 0	367 T	31·98	193
D Streete (Daramona)	W. E. Wilson, Esq., FRS	10	1 0	276	28·38	246
LOUTH.						
D Drogheda (St. James')	L. Donegan, Esq.	5	1 0	32 T	27·74	200
D Ardee (Lissrenny) .. .	T. F. Filgate, Esq.....	8	0 10	75 T	29·44	234
Dundalk (Farndreg)	J. Barton, Esq., C.E ..	5	1 6	90 T	27·63	190
D " (Mount Pleasant)	Telford Maeneill, Esq CE	5	1 0	60 T	32·23	250
D Greenore.....	T. Chambers, Esq., C.E.	5	1 0	4 L	27·97	189
LONGFORD.						
D Ballymahon (New Castle).....	Col. W. H. King-Harman	4	2 5	250 T	27·57	199
D Cloondrah	F. Dudley Fletcher Esq CE	5	2 0	130	25·98	232
Edgeworthstown (Currygrane Ho.)	J. M. Wilson, Esq. ...	5	1 0	275 T	31·69	210

DIVISION XXII.—CONNAUGHT.

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with '01 or more recorded.	
		Diameter	Height Above Ground		Height Above Sea Level		1905
		in.	ft.	in.	feet	inches.	
GALWAY.							
D Woodpark [Scariff]	R. F. Hibbert, Esq. ...	5	1	0	170 $\bar{\pi}$	33·98	241
D Galway (Queen's College).....	W. Hare, Esq.	16	9	0	30	29·11	192
D Ballinasloe	W. H. Kempster, Esq.	5	2	6	160 $\bar{\pi}$	28·47	241
D Woodlawn	Mr. A. Porter.....	5	3	6	300 $\bar{\pi}$	35·17	223
Ahascragh (Clonbrock)	Lord Clonbrock, K.P...	10	5	6	200 $\bar{\pi}$	31·87	...
D Clifden (Kylemore House)	Mr. T. McNab	5	1	0	105	63·20	199
Tuam (Castle Hacket)	P. B. Bernard, Esq. ...	5	1	6	...	29·76	...
„ (Gardenfield)	M. H. Kirwan, Esq.	5	1	0	155 $\bar{\pi}$	35·75	...
„ („)	„ „ „	5	6	0	160 $\bar{\pi}$	35·15	229
„ („)..... weekly g.	„ „ „	5	1	0	155 $\bar{\pi}$	35·45	...
ROSCOMMON.							
D [Athlone]	F. Dudley Fletcher Esq. CE	5	2	0	128 $\bar{\pi}$	22·30	195
D Rooskey	„ „ „	5	2	0	139 $\bar{\pi}$	31·62	186
MAYO.							
D Cong (The Glebe)	Rev. R. Y. Lynn	5	1	11	112 $\bar{\pi}$	39·20	245
Ballinrobe (Cranmore)	Miss Knox	5	0	9	99	38·19	...
D Westport (Murrisk Abbey)	F. C. Garvey, Esq.....	5	1	1	18	41·90	253
D „ (St. Helen's)	Miss Kelly	6	0	11	35 $\bar{\pi}$	41·05	247
§ „ (Mallaranny)	Meteorological Office...	5	1	0	120	48·08	207
D Newport (Burrishoole House) ...	H. M. Anketell Jones Esq	5	3	0	30	42·20	242
Doo Castle [Tobercurry]	Mr. D. O'Dowd	5	4	0	...	35·28	226
§ Blacksod Point	Meteorological Office...	8	0	10	37	45·80	275
D Crossmolina (Enniscoe).....	J. Pratt, Esq.....	5	0	11	74 $\bar{\pi}$	47·48	252
SLIGO.							
Ballymote (New Park)	R. A. Duke, Esq.	5	1	6	228	37·02	...
D § Collooney (Markree Observatory)	J. R. Armstrong, Esq..	5	1	0	148 $\bar{\pi}$	38·98	240
§ „ („)	„ „ „	5	16	6	164 $\bar{\pi}$	33·11	235
D Ballysadare Bay (Glen Lodge)...	Vernon Cochrane, Esq.	5	1	0	14	37·75	271
Sligo (Ardmore)	R. S. Pettigrew, Esq...	5	1	6	65 $\bar{\pi}$	35·24	222
LEITRIM.							
D Jamestown (Albert Lock).....	F. Dudley Fletcher Esq. CE	5	2	0	146 $\bar{\pi}$	28·96	244
§ Carrigallen	Meteorological Office...	...	...	...	350 ?	36·76	170
Drumshanbo (Lough Allen Sluices)	F. Dudley Fletcher Esq. CE	5	2	0	169 $\bar{\pi}$	33·24	...

DIVISION XXIII.—ULSTER.

CAVAN.

Stradone House	Mr. J. Hart	5	1	0	280 $\bar{\pi}$	33·60	...
Cavan (Water Works)	W. H. Morris, Esq., C. E.	8	...	...	304 $\bar{\pi}$	28·77	...
D Killeshandra (Castle Hamilton)..	Major W. J. Hamilton.	3	1	0	251 $\bar{\pi}$	27·46	168
Belturbet (Cloverhill)	Mrs. Sanderson	5	1	0	202 $\bar{\pi}$	33·65	...
D Ballyconnell House	Surg.-Gen. S. B. Roe, CB	8	1	2	196	35·77	209

DIVISION XXIII.—ULSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.	Days with '01 or more recorded.
		Diameter	Height Above Ground.		1905	
		in.	ft. in.	feet.	inches.	
FERMANAGH.						
Enniskillen (Portora)	W. N. Tetley, Esq. ...	5	1 0	251 T	32·51	...
D Belleek	J. Beacom, Esq.	5	1 5	150	39·98	242
MONAGHAN.						
D Dartrey [Cootehill]	The Earl of Dartrey ...	5	2 6	265	30·86	147
D Monaghan (Rowantree House)...	Dr. J. C. Hall.....	5	5 6	240	30·04	192
ARMAGH.						
D Bridge Street [Newry]	J. L. D. Meares, Esq. C. E.	5	0 9	22 T	36·25	215
D Tanderagee.....	J. Taylor, Esq.	5	1 6	198 T	30·72	198
D Armagh Observatory.....	Dr. J. L. E. Dreyer ...	8	1 0	210 T	29·82	209
D Loughgall (Manor House)	Mrs. Cope	5	1 0	205 T	29·13	216
D Lurgan (Belle Vue)	S. A. Bell, junr., Esq..	5	0 5	200 T	25·04	189
DOWN.						
D Warrenpoint (Summer Hill).....	B. M. Kernan, Esq. ...	5	1 0	30 L	30·24	152
D Newcastle (Tullymore Park) ...	Col. Hon. R. J. Jocelyn	5	1 0	276 T	51·04	207
D Rathfryland (Ballynagappoge)...	J. Smyth, Esq., C.E....	5	1 0	300	31·48	160
D Castlewellan (Lough Island) ...	" " "	5	1 0	440 T	44·27	182
Banbridge (Katesbridge)	A. A. Mulligan, Esq...	5	1 0	230 T	27·46	168
D Seaforde	Major W. G. Forde ...	8	0 5	180 T	33·70	182
D Banbridge (Corbet Reservoir) ...	J. Smyth, Esq., C.E....	5	1 0	234	24·26	146
D " (Milltown)	" " "	8	0 8	200 T	28·03	190
D Moyallon [Portadown]	Miss M. K. Richardson.	5	0 5	130 T	30·07	211
§ Donaghadee	Meteorological Office...	8	1 6	30	26·48	209
ANTRIM.						
D Lisburn (Ulster Provincial School)	J. Woolman, Esq.	5	1 6	208	40·58	201
Stonyford (Belfast W. W.) ...	FWMcCullough Esq. CE	5	1 6	437 T	29·02	212
D† Belfast (Queen's College)	Mr. G. Robinson ...	5	1 0	62 T	31·80	221
D† " (Springfield)	T. G. Firth, Esq.	5	1 0	150 T	37·08	281
† " (Antrim Road)	FWMcCullough Esq. CE	5	7 0	144 T	35·63	212
Antrim (Ardnaveigh)	H. B. Murray, Esq. ...	7	0 9	210 T	29·19	189
Carrickfergus (Dorisland).....	FWMcCullough Esq. CE	5	1 0	250 T	34·14	231
" (South Woodburn)	" " "	5	1 0	640 T	41·60	251
" (North ")	" " "	5	1 0	735 T	43·09	254
" (Copeland)	" " "	5	1 0	424 T	33·15	215
" (Lough Mourne)...	" " "	5	1 0	596 T	40·74	228
D Ballymena (Harryville)	J. R. Williams, Esq....	5	1 5	150 T	37·84	253
D Broughshane (Quolie)	H. O'Hara, Esq., C.E..	5	1 4	893	45·01	242
§ Glenarm Castle	Meteorological Office...	8	...	45	39·62	173
Ballymoney (Balnamore)	George Smyth, Esq. ...	5	1 5	50 T	29·25	257
Stranocum (Gardenvale)	A. McNeill, Esq.	5	1 0	160	39·30	240
D Bushmills (Dundarave).....	Sir F. E. Macnaghten, Bt	5	1 0	162 T	34·81	226

DIVISION XXIII.—ULSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of	Days with 1/10 or more recorded.
		Diameter	Height Above Ground.	Height Above Sea Level	1905	
		in.	ft. in.	feet.	inches.	
LONDONDERRY.						
D Garvagh (Moneydig).....	H. R. Morrison, Esq....	5	1 0	121	33·55	186
D Londonderry (Creggan Res.).....	Mr. J. Hutchison	8	1 0	320 T	36·53	256
Limavady (Drenagh)	M. M. McCausland, Esq.	5	1 6	80 T	33·82	249
Bellarena.....	Dowager Lady Heygate	5	1 3	7	34·54	218
D Coleraine	W. R. Kennedy, Esq....	5	4 0	52	36·97	226
TYRONE.						
D Stewartstown (The Square)	A. Johnston, Esq.	5	1 4	300 T	34·58	195
D Omagh (Edenfel)	Col. L. M. Buchanan, C.B.	8	1 0	280 T	36·09	242
D Newtown Stewart (Baron's Court)	Mr. R. Bell.....	5	1 0	250 T	37·65	233
DONEGAL.						
Lough Eask Castle.....	late Maj.-Gen. H. G. White	5	1 0	170 T	54·06	236
D Raphoe (Convoy)	Rev. K. H. Thompson..	5	0 9	150 T	44·85	244
D Letterkenny (District Asylum)..	E. E. Moore, Esq., M.D.	5	1 0	183 T	41·74	258
Rathmullan	Dr. Loughnan	5	1 0	1	38·40	...
„	Col. T. E. Batt	5	0 9	60	39·81	259
D Buncrana (Rockfort).....	T. Colquhoun, Esq. ...	5	1 0	55 T	37·43	223
Ardnadrean Rectory.....	Rev. W. S. Griffith ...	5	0 10	39	42·75	...
D Dunfanaghy (St. Helen's).....	J. J. MacGrath, Esq....	8	1 0	55	42·10	246
D Horn Head.....	C. F. Stewart, Esq. ...	5	1 0	163	39·45	249
D Lough Swilly (Carrablagh)	H. C. Hart, Esq.	5	1 0	130	34·68	243
§ Malin Head	Meteorological Office...	8	1 0	220	32·33	252

62, CAMDEN SQUARE,
LONDON, N.W.

H. R. M.

RULES FOR SECURING UNIFORMITY IN RECORDING RAINFALL.

1. Selection of Site.—A rain gauge should be placed on a level piece of ground, not upon a slope or a terrace, and certainly not on a wall or roof. It should be at a distance from every object higher than itself, and should never be nearer to a wall or house than a distance equal to the height of that object, nor nearer to a growing shrub or tree than a distance equal to twice that height. Care should be taken to keep flowers or vegetables away from the gauge for a distance of at least three feet all round. If a perfectly open site cannot be obtained, shelter is least harmful on the north-west, north and east; but the exposure to south-west and north-east should always be free. The height above sea-level should be determined, if possible, by levelling from the nearest bench mark. The approximate height may be easily ascertained in most cases by reference to the maps of the Ordnance Survey. A specific name should be selected by each observer for his station.

2. Mountain and Moorland Sites.—Care should be taken that mountain or moorland gauges are not unduly exposed to the sweep of the wind. A level patch of ground or a very slight hollow should be selected, and a turf wall, about 2 feet high, surrounding the gauge at a distance of from six to ten feet is recommended.

3. Placing the Gauge.—The gauge should be planted in the earth and fixed by stakes or placed in a hole which exactly fits it in a block of cement. It should be fixed so firmly that it will neither be blown over nor tilted by the strongest wind, and it is best to be surrounded by short grass. The gauge should be occasionally examined, and repaired if any leakage or other defect is detected.

4. Height above Ground.—The funnel of a rain gauge should be set exactly level, and at a height of 1 foot above ground. If the gauge is surrounded by long grass, or likely to become so, the height may be as much as 1 ft. 6 in., but it should never be more.

5. Change of Gauge.—When an old-established gauge has to be discontinued for any reason, a new gauge should be established on a proper site one year, or, if possible, two years, before the old one is removed, so that the readings of both may be compared and the continuity of the record ensured. This rule does not apply to the substitution for an old gauge, which has become defective, of a new gauge of the same size and pattern on the same site. It is most convenient to start a new gauge on January 1st. The fact of a change, with date, distance and direction from former site should be reported when it is made.

6. Absence of Observer.—An assistant should, if possible, be trained to measure the rainfall in the absence of the observer.

When no such provision can be made it should be arranged to have the gauge visited at the usual hour, and the water bottled and labelled to be kept until the observer returns.

7. Second Gauges.—It is advantageous to have two gauges, one of them capable of holding at least 8 inches of rain. This should be read weekly or monthly as preferred, but in either case on the 1st of each month. A thorough check is thus kept on accidental errors in the readings of the daily gauge. A separate record must be kept of each gauge; the mean of the two should never be entered.

8. Recording Gauges.—When the expense is not prohibitive, observers are strongly recommended to have a self-recording rain gauge as well as an ordinary gauge for daily reading. Such a gauge should preferably record in a continuous line, so that the duration of light rainfall may be accurately measured.

9. Hour of Observation.—Rainfall should be measured at 9 a.m. daily, and the amount entered against the date of the previous day. Thus, the figure to be entered opposite each date is the amount measured at 9 on the following morning.

10. Reading the Rain Glass.—In measuring rain by means of the graduated glass the observer must pour the water carefully from the bottle or inner can into the glass. If the glass is not filled the reading should be taken by holding it upright or setting it on a level slab, then bringing the eye opposite the level of the water so as to fix the nearest line on the scale to the water surface, not necessarily the line next above or the line next below the surface, but the one of these which is nearer. Each division represents one-hundredth of an inch. If there is more water in the gauge than can be measured at once, the glass should be filled up to the .50 mark, emptied into a jar, and filled up again as often as necessary, counting the number of times, and finally measuring the residue in the usual way. The water in the jar may be measured again roughly to make sure that no mistake has been made in counting the number of half-inches. The amount should be written down before the water is thrown away. Every measuring glass should have a certificate.

11. Small Amounts.—If the gauge contains less than one-hundredth ($\cdot 01$) of an inch but more than half that amount, it should be entered as $\cdot 01$, while if there is less than half that amount the few drops may be thrown away and the day entered as if no rain had fallen. A rain glass which is conical below, as in the "Camden" pattern, allows this to be very easily determined. All water found in the rain gauge is to be treated as rain, even though it comes from melted snow, dew or mist.

12. Mode of Entry.—The result is always to be entered in hundredths of an inch, remembering that a tenth of an inch equals 10-hundredths and an inch 100-hundredths. The word "hundredths" is not to be written, but a decimal point is to be put before

the last figure but one, thus, $\cdot 10$, $1\cdot 00$. If there is only one figure a cypher must be placed before it, thus two-hundredths is written $\cdot 02$. Vulgar fractions should never be employed. The record will be clearer if days without measurable rain are indicated by drawing a short line. If there is any doubt about a figure, a ? should be placed before it and an explanatory note added.

13. Snow.—To measure snow in a Snowdon rain gauge all that is necessary is to melt the snow in the funnel by warming it before a fire and measure the resulting water as if it were rain. In some gauges there is an arrangement for melting snow by pouring hot water into a hollow space below the funnel ; in districts where there is much snow the few extra shillings necessary to provide such a gauge would be well spent. If the rain gauge funnel has no vertical rim, or if it has been more than filled, snow cannot be measured accurately. In that case an attempt may be made to estimate the amount by ascertaining with a foot-rule the average depth of snow over a considerable area (so as to make allowance for drifting), and taking one-twelfth of that depth as the equivalent amount of rain. Care must be taken in this case to measure only the fresh-fallen snow for each day ; but the method is a rough one at best.

14. Heavy Rains.—Although a self-recording gauge affords the fullest information as to heavy rains in short periods, an ordinary gauge can also be utilized. The gauge should be examined immediately on the cessation of heavy rain, the amount and the time of commencement and cessation noticed, and the water returned to the gauge, so as not to interfere with next morning's reading. As a fall of four inches may occur in one day in any part of the British Isles (though few observers believe this until they experience it), no gauge of less capacity should be purchased. If after heavy rain there appears to be any likelihood of the gauge overflowing, it should be emptied and the amount added to next morning's reading.

15. Float Gauges.—Some float gauges are still in use, read by a rod resting on a float which rises as the amount of water in the gauge increases. I do not recommend such a gauge, and strongly advise the provision of a Snowdon gauge and the disuse of the other after a year's observation of both. See Rule 5.

16. Mountain Gauges.—Five-inch Bradford gauges of great capacity, sunk deeply in the earth, are used on mountains or moors, where readings can only be taken weekly or monthly. They contain no bottle but a deep inner can, and the rain is measured first by inserting a cedar rod graduated to tenths of an inch, which is dropped vertically until its metal tip touches the bottom. The rod when withdrawn is wet up to the mark indicating the amount of rain. This amount is to be noted, and the rain is then to be measured accurately by means of a glass in the usual way.

HUGH ROBERT MILL.

The following, edited by Dr. H. R. MILL, are published for the Organization by
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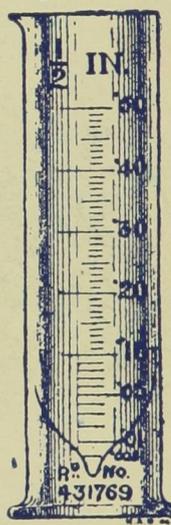
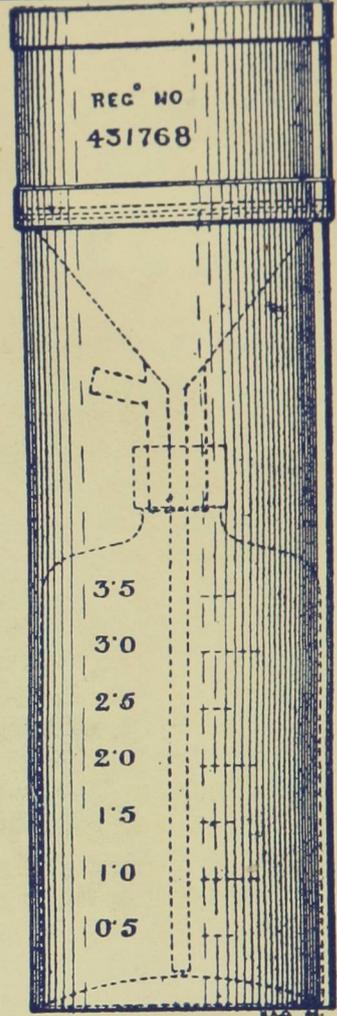
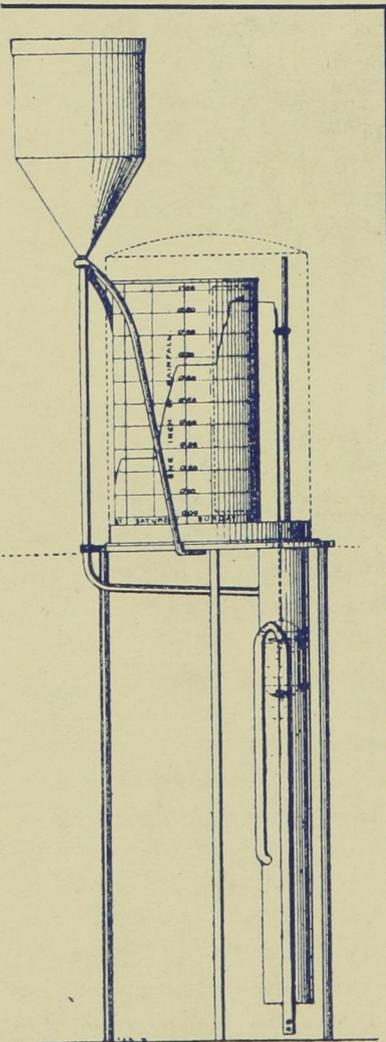
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