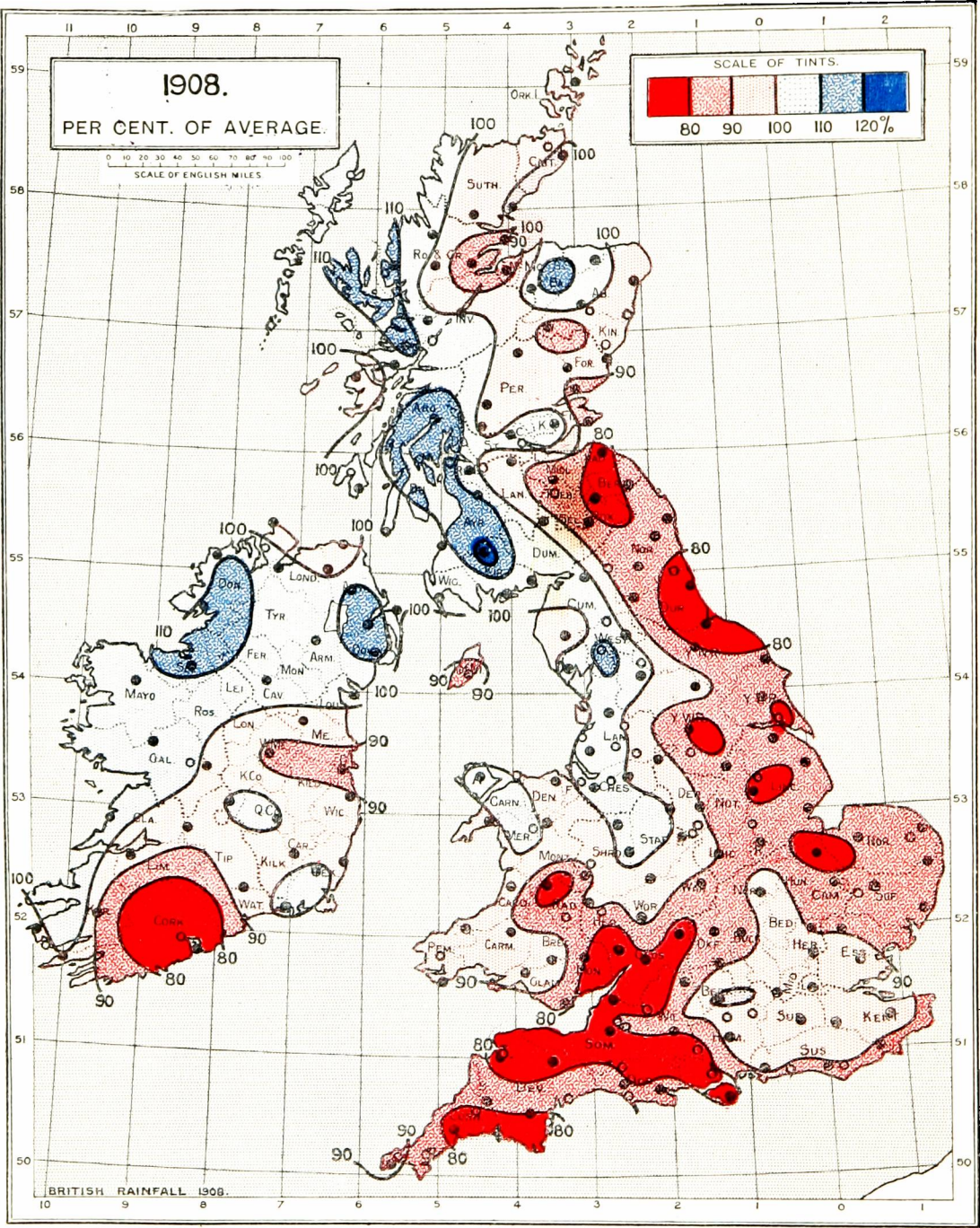


BRITISH RAINFALL,
1908.

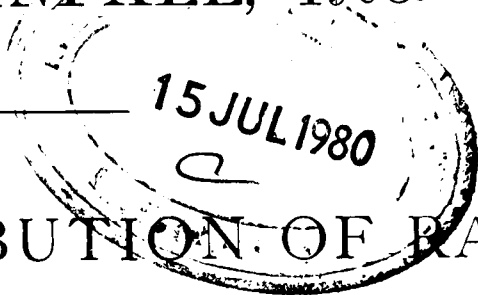


RELATION OF RAINFALL OF 1908 TO THE AVERAGE OF 1870-1899.



The Blue tint shows rainfall above the average, the darker blue a greater excess; the Red tint shows rainfall below the average, the darker red a greater deficiency.

BRITISH RAINFALL, 1908.



ON THE DISTRIBUTION OF RAIN

IN SPACE AND TIME OVER THE

BRITISH ISLES

DURING THE YEAR

1908

AS RECORDED BY MORE THAN 4,500 OBSERVERS
IN GREAT BRITAIN AND IRELAND

AND DISCUSSED

WITH ARTICLES UPON VARIOUS BRANCHES OF RAINFALL WORK

BY

HUGH ROBERT MILL

THE FORTY-EIGHTH ANNUAL VOLUME

WITH MAPS AND ILLUSTRATIONS

LONDON:

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

1909.

ERRATA IN BRITISH RAINFALL, 1907.

- p. [117], Kempsey, Bournemouth, *for* Sep. 27 | 21, *read* Sep. 28 | 22.
 p. [257], line 3 of Roxburgh, *for* ,, (Ploughlands), *read* Jedburgh (Ploughlands).

ERRATA IN BRITISH RAINFALL, 1908.

The following are all consequences of one misreading.

- p. [82], January 15th, delete last two lines of letterpress and add before last line of page :—
 ,, ,, ,, (Copper Mill)..... 6.50 ,, 2.7 ,,
 p. [102], November 22nd, delete the paragraph. The reading of 8.58 in. was for 48 hours.
 p. [104], delete all after “in 1908” in line 9 to last word of sentence ending on line 14. Also delete all the paragraph commencing on line 26 after the word “usual” in line 28.
 p. [107], Table I., 1st line, *substitute* :—
 Jan. 15 | XI. | Snowdon, Llyn Llydaw Copper Mill | 6.50 in. | 2.7 | 237.32
 p. [108]. *for* last two lines *substitute* :—

1908 ...	4.25	7.9	80.9	6.50	2.7	Snowdon, Llyn Llydaw	XI.
Diff. ...	+4.5	+0.8	+9.7	+1.08	-4.3	...	

4.26	7.0	80.9	6.67	2.8
+ .46	+ 0.4	+ 9.7	+ 1.26	- 4.2

CONTENTS.

PREFACE	PAGE
... ..	7

PART I.

REPORT— <i>Introductory—Observers and Special Services—Original Observers—Old Records—“ Wrong Day ”—The Staff at Camden Square—Improvements (and Errata) in this Volume—Annual Rainfall Maps—Rainfall of the Exe Valley—Lectures on Rainfall—Inspection of Stations—An Endowment Fund and Finance generally</i>	9
LIST OF SUBSCRIBERS	17
SPECIAL ARTICLES— <i>New Recording Rain Gauges by Dr. H. R. Mill—Ratio of Monthly Rainfall between Denton House, Brompton, and Seathwaite, by Mr. T. Gardhouse Charlton.—Rainfall Observations in Snowdonia, by Mr. A. Lockwood.—Twenty Years’ Rainfall at Carrablagh, Co. Donegal</i>	22
RECORDS OF EVAPORATION AND PERCOLATION IN 1908	37
DURATION OF RAINFALL IN 1908	46
REPRESENTATIVE RECORDS OF DAILY RAINFALL	53
RAINFALL AT THE ROYAL OBSERVATORY, GREENWICH	63
THE STAFF OF OBSERVERS	64
RAINFALL RECORDS—LOSSES AND GAINS	75
OBITUARY	89

PART II.

RAINFALL AND METEOROLOGY IN 1908 :

OBSERVERS’ NOTES ON THE DAYS—ON THE MONTHS—ON THE YEAR	[3]
HEAVY RAINS IN SHORT PERIODS	[73]
HEAVY FALLS ON RAINFALL DAYS	[78]
THE DISTRIBUTION OF RAINFALL IN TIME— <i>Rain Days and Intensity of Rainfall—Droughts—Rain Spells</i>	[112]
MONTHLY RAINFALL	[137]
SEASONAL RAINFALL	[170]
RELATION OF TOTAL FALL OF RAIN TO THE AVERAGE	[183]
EXTREMES OF RAINFALL	[192]
GENERAL TABLE OF TOTAL RAINFALL IN 1908	[193]

LIST OF ILLUSTRATIONS.

	PAGE
Relation of Rainfall of 1908 to the Average (Coloured Map)...	<i>Frontispiece.</i>
Halliwell Patent Recording Rain Gauge	23
" " " " " section	24
The Hyetograph	25
" sections	26
Speciman Charts of Recording Gauges	<i>face p.</i> 27
Curves showing ratio of Rainfall at Denton House and Seathwaite	<i>face p.</i> 28
Map of Snowdon District	30
View of Llyn Llydaw	<i>face p.</i> 30
View of result of Cloudburst in Snowdonia	<i>face p.</i> 31
Evaporation Diagram	<i>face p.</i> 37
Snow of April 24th, at Luton, Chatham	<i>face p.</i> [19]
Photograph taken at 10.5 p.m. by light of afterglow	<i>face p.</i> [19]
Diagram of Heavy Falls in Short Periods	[74]
Maps of Heavy Rains in 1908, on :—	
January 7th (Great Britain)	[81]
April 23rd, 24th and 25th (South of England)	[84]
April 24th—25th together " " 	[86]
June 3rd (Yorkshire)	[89]
June 24th (London district)	[91]
August 31st (British Isles)	[95]
October 19th (Wales)	[98]
October 20th and 21st (Dorset)	[101]
December 28th (Ireland)	[103]
Map of Number of Rain Days in 1908	[114]
Map of Absolute Droughts, June–July and July–August	[125]
Maps of Droughts and Rainspells in 1908	[129]
Specimen Maps of Monthly Rainfall	<i>face p.</i> [139]
Maps of the Total Rainfall and of the Difference from the Average	
for each Month of 1908	<i>pp.</i> [146–169]
Rainfall Map of Winter and Summer Six Months	[172]
Map of Divisions used in British Rainfall	[303]

P R E F A C E.

AFTER seven months and ten days of hard and continuous work, *British Rainfall*, 1908, is complete as far as my assistants and I can make it, three weeks earlier than last year. Printers and Bookbinders will, I am sure, complete their share in the shortest possible time.

This volume is larger by 24 pages than any other issue of *British Rainfall*.

For the benefit of those who read no more than this page, I venture to state that no part of this volume is a repetition of last year's or any other year's issue. Every page is written for this issue alone, and every illustration specially prepared for it. On p. 12 of the introductory Report a summary of the new features of the volume will be found. Of Part I., the most readable portions, apart from the special articles, will be found to be the article on the Staff of Observers, pp. 64—74, and the Obituary Notes, pp. 89—100. These notes are biographical of the few friends whose loss as fellow-workers I deplore, but they are characteristic of the thousands whose help I continue to receive. In Part II., the article on the Rainfall of the Months, pp. [137]—[182], gives an account of the growth of one department of the work.

While I am immediately responsible for the letterpress, and the various Observers for all the data on which it is founded, it is only right to say that my chief assistant, Mr. Carle Salter, has had most to do in ensuring the correct transcription and typography of the various Tables which make up the bulk of the work, and he has aided me throughout in every part of the long process of preparing the volume and seeing it through the press. In the general work of checking returns, compiling notes, and maintaining the routine of the Office, I have to acknowledge gratefully the whole-hearted co-operation of all my assistants.

HUGH ROBERT MILL.

62, CAMDEN SQUARE,
LONDON, N.W.,
10th August, 1909.

Like fire

The lit dew's lightened on the leaves, as higher
Night's heart beat on toward midnight. Far and fain
Somewhiles the soft rush of rejoicing rain
Solaced the darkness, and from steep to steep
Of heaven they saw the sweet sheet lightning leap
And laugh its heart out in a thousand smiles.

A. C. Swinburne.

R E P O R T .

Introductory.—In offering my annual Report to the Observers who constitute the British Rainfall Organization, I desire to associate them as joint authors with me of the volume now completed. The title-page is too small to contain their names, but they are all set forth in the 110 pages of the General Table. In the circular which is sent in the last week of the year to every person in the British Isles who is known to keep a record of rainfall, I ask for a copy of the record, and for money with which to pay for the examination of the data and the publication of the result. In return, I place myself under an obligation to prepare, and to deliver to those who pay, this volume, and the almost equally large volume of *Symons's Meteorological Magazine*, and to those who ask for it, free of charge, a copy of the General Table of Rainfall, extending to 100 pp. or more. I also undertake to point out any errors which may be detected in the records, to call attention to signs of deterioration in rain gauges, and to give what help I can in removing any difficulty or answering any question which may arise in connection with the observations. The two volumes show in full detail how the observations are dealt with in order to give a picture of the character of the year as regards rainfall.

Observers and Special Services.—A steady growth in the number of Observers takes place, notwithstanding increased care in testing the accuracy of new records. It gave me particular pleasure in one instance to have a record withdrawn by a new Observer, who, becoming dissatisfied with the position of the gauge, preferred that the readings should not be published, as he was confident they could be made more accurately another year. It is impossible to give too much credit to the impressive mass of voluntary co-operation represented by the 4,538 entries in the General Table; but special thanks are due to those Observers and Societies controlling a considerable number of stations. In the first place, I must thank Dr. Shaw and the Meteorological Office for supplying copies of those rainfall records received by them, about 50 this year, which would

not otherwise have appeared in these pages. Next in order come Mr. Marriott and Mr. Watt, of the Royal Meteorological Society and the Scottish Meteorological Society respectively. The help afforded by all these is not confined to the supply of new records, but is even greater in affording means of discussing doubtful returns and settling discrepancies between the copies sent to them and to me. I am indebted no less to the help of local Societies and collectors of data, especially Mr. F. Campbell Bayard (Croydon), Rev. H. A. Boys (Wessex), Mr. John Hopkinson (Hertfordshire), Mr. C. A. Markham (Northamptonshire), Miss Marshall (The Lake District), Mr. A. W. Preston (Norfolk), Mr. H. Stilwell (Dorset), Mr. T. Wainwright (North Devon), Mr. G. D. Shepherd (Cardiff), a new accession, as well as to the Cornwall County Council, the Commissioners of Northern Lighthouses, the Shannon Navigation, and all the great Water Authorities and Municipalities in the country. One slight difficulty arises in utilizing the data collected by some of these authorities, who do not all insist on their Observers stating the diameter of the rain gauge, the height at which it is set above the ground, and the height of the station above sea-level. All these data are useful, but the height above ground is absolutely necessary, as without knowing it one cannot tell whether the rainfall recorded is the true fall.

Original Observers.—So far as I am able to ascertain, the surviving Observers whose records appeared in *British Rainfall*, 1860-61, now number eleven. Their names are given below ; small capitals distinguishing those whose records also appear in the present volume.

R. BURRELL, Esq., Westley, Bury St. Edmunds.
 W. S. CLARK, Esq., Street, Somerset.
 D. Doncaster.
 W. D. Howard, Esq.
 DR. W. C. LAKE, Teignmouth.
 REV. C. B. MOUNT, Norham Road, Oxford.
 LORD PECKOVER OF WISBECH, Wisbech.
 E. P. PHILLIPS, Esq., Haverfordwest
 W. B. PUGH, Esq., Patrington.
 Col. M. F. Ward.
 J. G. Wood, Esq.

It is a great incentive to all the members of the staff at Camden Square to know that their work is watched by those who have seen

the whole development from the beginning. Some of the Observers go back in their experience far beyond the records of 1860 ; Mr. Pugh commenced to record rainfall, I believe, in 1844, no less than sixty-five years ago.

Old Records.—There are still in existence, I believe, many records of rainfall which have never been published, or if published locally, have never been collected or utilized, and I should be glad if any reader of this Report who knows of such neglected records would write to me on the subject. The chances are that I have the record already, so it is not worth while to copy it out until the absence of it from the Camden Square collection is ascertained. Within a week I have had two letters, one forwarding an old record with the words—"I had no idea that old 'returns' had even now a value ;" the other less cheerfully saying—"I regret I cannot send the rain records before 1903, my temperature, &c., papers were destroyed by mistake, and also my careful rain records with them, exactly amounting to 21 years." One case which occurred a few years ago was far worse than accidental loss ; a lady of a very methodical turn of mind registered the rain daily, and on the first of January deliberately burnt the record of the year just passed as a thing no longer useful. I have often the pleasure of sending to old Observers or their descendants copies of rain records, the originals of which have been lost, and, but for the care with which they had been copied and preserved at Camden Square, would have been lost for ever.

Another point to which I may ask attention is that when a record comes to an end, and no one can be found to carry it on in the same or another place, the gauge, if sent to me in good condition, can always be usefully employed, as I frequently hear of likely Observers who cannot afford to purchase an instrument.

"Wrong Day."—It is now so generally conceded that the date to which rainfall should be entered is that on which the 24 hours of the rainfall day begin, that I feel I may appeal to those who still enter their readings to the date on which the 24 hours end, to reconsider their position. The rule to follow is very simple, "Read the rain gauge at 9 a.m., and put down the reading to the previous day." On August 31st, 1908, more than two inches of rain fell at a number of stations, and while most observers on reading the gauge on September 1st entered it correctly to the previous day, a good many did not, with the result that adjacent stations gave two months

with widely discordant readings, and serious mistakes resulted on the monthly maps. If a very heavy fall occurred on the last day of the year, the result would be to make two years wrong, so that both totals would be utterly discordant with standard records. In order to keep things straight, if possible, I have introduced a modification in Forms A and C, in the way of a space marked for the reading on January 1st, in the following year in the annual form, and for the reading on the 1st of the following month, in the monthly form. These are intended to be used only by people who prefer to resist the appeal to conform with the methods of the majority.

The Staff at Camden Square.—There has been no change in the senior assistants, who continue to carry on the heavy work of checking and entering the returns, plotting data on maps, compiling the Tables for the Magazine, and for *British Rainfall*, and revising the bulk of the proofs; their personal responsibility increasing each year as the work grows. Mr. J. H. Ready, the shorthand clerk, has left; but his place was taken at once by a successor, who, in addition to being a competent stenographer and typist, has as keen an interest in meteorology as the other members of the staff. My permanent assistants at Camden Square are now :—

MR. CARLE SALTER, F.R.Met.Soc., Chief Assistant.

MR. R. LAMPORT, Statistical Assistant.

MR. H. E. CARTER, Statistical Assistant.

MR. D. S. SALTER, Cartographical Assistant.

MR. J. A. G. SIMPSON, Shorthand Clerk.

It has been found necessary to obtain outside assistance for part of the addressing and for copying the monthly records received on Form C on to Form A, for more convenient reference.

Improvements (and Errata) in this Volume.—We have introduced a long-desired improvement in discussing Monthly Rainfall by giving detailed maps of the actual rainfall for each month, side by side with the maps showing the percentage difference from the normal. Occasion is taken to give a historical note on the gradual development of the section dealing with monthly rainfall, which we consider to be one of the most useful parts of the work. I had hoped to save the space required for the new maps by cutting down the Observers' Notes on the Months, which are usually less full and interesting than those on the Days, or on the Year; but it is always

more difficult to save a page than to insert a dozen, and the volume has grown despite all efforts to keep it to its former bounds. Much fuller treatment is given than heretofore to the section on Heavy Rains on Rainfall Days, and the maps are both more numerous and on a larger scale than before. An attempt has also been made to systematize the less satisfactory section on Heavy Falls in Short Periods. Observers have often asked for a map showing the boundaries of the 23 divisions under which the counties of Great Britain and Ireland are grouped, and that is given in this volume at the end of the General Table. In Part I., I am glad to be able to print Mr. Gardhouse Charlton's brief communication on the relation between the rainfall at a wet and a dry station in Cumberland, in which he proves the existence of a very remarkable seasonal relationship. Mr. Lockwood's paper on the Snowdon gauges, with a map of their position, is also important. Attention is called to the list of errata, necessitated by not recognising that a symbol new to us was used to indicate a day when the gauge was not read; we thus took the accumulation of 48 hours for a 24 hours' fall, and only discovered the error after pp. [81]–[112] were printed off.

Annual Rainfall Maps.—The work of preparing maps of the rainfall of the British Isles, generously subsidized by an Observer whose desire to remain anonymous I respect, though with regret, has made good progress. The plotting has been completed from 1908 back to 1865, 44 years, and the work has been revised to insert stations which could not be located on the map at first, and to add the data from several recently discovered old records. This has been done by Mr. Donald Salter; while I have drawn the isohyetal lines on the maps back as far as 1880. A good deal of my time has been occupied with experiments as to the best way of combining isohyetal maps for a number of years so as to yield a map of normal rainfall, and the result has been to satisfy me as to the proper course to pursue, though unfortunately it is a very laborious one. There are large gaps on all the maps, the insertion in which of a trustworthy figure would be of great assistance in drawing the isohyetal lines; and the hope that some such data may be sent in before the maps are completed inspires the appeal for old records in an earlier paragraph.

Rainfall of the Exe Valley.—In connection with a Committee of the Research Department of the Royal Geographical Society,

presided over by Dr. A. Strahan, of the Geological Survey, I have prepared a map of the average rainfall of the valley of the Exe, and a paper on the subject will appear in an early number of the *Geographical Journal*. A difficulty presented itself in the small number of long records in Devonshire and the surrounding counties; and I endeavoured to overcome this by constructing four maps, each of the mean rainfall for 10 years, and then combining the four, so as to yield a map representing the average of 40 years. The work on the Exe Valley is intended to throw light on the relation between rainfall and river-flow, and the map of average rainfall is only one step in a very comprehensive research.

Lectures on Rainfall.—During the past year I have continued to give lectures for the Gilchrist Educational Trust, including one on “Rain,” at Thetford, in September, 1908; on “Climate,” at Abergavenny, and at Aberdare, Glyn Neath, Pen-y-graig, and Maerdy, in South Wales, in February, 1909, and in March on “Rain,” at Broomhill and Seaton-Delavel, in Northumberland, Usworth and New Herrington, in Durham, and at Loftus-in-Cleveland. These afforded opportunities of visiting and inspecting a large number of rain gauges, and finding several new Observers. I also gave an address on “Observing Rainfall,” at the Winter Meeting of the Association of Water Engineers, in London, in December, 1908, which has been published in the Transactions of the Association, and an address on the “Rainfall of the British Isles,” to the annual meeting of the Geographical Association, in January, 1909, which is published in the summer number of *The Geographical Teacher*. I concluded my term of office as President of the Royal Meteorological Society on January 20th, 1909, with an address on “Some aims and efforts of the Society,” dealing, among other things, with certain errors into which Meteorological Observers are apt to be led by the pressure of an uninstructed public opinion. I took part in the discussion of a series of important papers involving the study of rainfall, at the meetings of the Research Department of the Royal Geographical Society; these included papers by Mr. Bransby Williams on a new map of the average rainfall of Wales, by Mr. A. Knox on the isohyetal lines of North Africa, and by Mr. E. A. Martin on Dew Ponds. The Report of the Committee on the Rainfall and River Flow of the basins of the Exe and Medway, already referred to, was also presented to and discussed at the Society.

Inspection of Stations.—Since the completion of last volume I have been able to inspect a considerable number of rainfall stations in the counties of Hampshire, including the Isle of Wight, Middlesex, Oxfordshire, Norfolk, Herefordshire, Worcestershire, the North Riding of Yorkshire, Durham, Northumberland, Glamorgan, Breconshire, and Argyll. My special thanks are due to two Observers who gave me the help of their motor cars, and the pleasure of their company, on tours of inspection. These were Mr. C. J. P. Cave, of Ditcham Park, Hampshire, and Mr. H. J. Bailey, of Rowden Abbey, Herefordshire. The latter in the course of two very pleasant days took me to almost all the rain gauges in Herefordshire, and some beyond that county, and the only source of regret was that I had lighted upon so good a group of Observers that I could make very few suggestions for improvement. I was, however, able in the course of the year's inspecting to detect several defective rain gauges, one with a diameter too small for the measuring glass used, and one measuring glass that was very far wrong in its graduation. It is always interesting to meet Observers with whom one has long been corresponding, and in this respect I must refer with pleasure to visits at Camden Square from not a few old correspondents, and from the members of the Hertfordshire Natural History Society, under the leadership of Mr. John Hopkinson, who has done so much for the scientific study of his county.

An Endowment Fund and Finance Generally.—My efforts to secure a permanent basis for the British Rainfall Organization which shall be independant of my own life or power of working have been arrested for a time on account of anticipated legislation with respect to Water Supply and River Pollution, which seemed likely to open up fresh possibilities in the way of making the collection of rainfall statistics a matter of national care. If such legislation had been introduced it was important that the Rainfall Organization should have been recognised as an existing agency in a high state of efficiency, and capable of indefinite expansion, possessed already of an immense mass of indispensable information and experience in the methods of utilizing it. But while I paused, waiting on the leisure of a Parliament absorbed in matters of high finance—though in truth the thought of those millions can give the Chancellor of the Exchequer no more anxiety than the thought of the hundreds needed for the Rainfall work gives me—an event occurred which made a definite step necessary. Miss Frances Rouse-Boughton, who takes

a keen interest in meteorology, and has been a supporter of the Rainfall Organization for many years, wrote saying that she had intended to leave me a legacy of a hundred pounds for the benefit of British Rainfall, but had now resolved to give the money in her lifetime and so enclosed a cheque for the amount. Another well-wisher of the Rainfall Organization, hearing of the proposal to start an endowment fund, has since sent a cheque for fifty pounds which we acknowledge as heartily as the donor's desire for anonymity permits. It is certainly an added grace in making so handsome a gift, to give with it the opportunity of thanking a living friend. I am reluctant to place a gift of this kind in the ordinary income of the year, though it would be easy to expend the sum in several ways for the furtherance of the work—for instance, in equipping the office with a series of cases of pigeon-holes in which the records and correspondence concerning each station could be kept separate and accessible, in providing a large fireproof safe for the great accumulation of records, in discussing some of the results, in increasing the number of stations inspected by the occasional hire of a motor-car. I think, however, that it is best to treat this unexpected sum as the nucleus of an endowment fund ; for it is becoming evident that the subscriptions remain practically stationary, while the expenses are increasing in proportion to the increase in the number of Observers, and a fund, the interest of which would equalize the fluctuations in the income of different years, or even allow of new developments, would be a great relief of anxiety. For the present I shall say no more than that the long Obituary of the year has made unusual gaps in the subscription list, and that the new fund which will be placed in the charge of Trustees, will afford living well-wishers an opportunity to leave a permanent benefaction to the branch of science they have had a share in advancing.

HUGH ROBERT MILL.

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19

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21

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NEW RECORDING RAIN GAUGES

By DR. H. R. MILL.

THE value of a self recording rain gauge is very great ; but despite the vast amount of ingenuity which has been lavished on the problem, the production of an efficient instrument at a moderate price has presented difficulties so serious that it would be unduly sanguine on our part to believe that they have all been overcome even now.

The tipping-bucket type of rain gauge is unsatisfactory, whether it registers on a dial or a drum, because, in either case, its indications differ as the parts wear, and in very heavy rain the oscillations of the bucket cannot keep pace with the inflowing water. The record produced by such a gauge is a series of steps which make a continuous curve in heavy rain, but fail altogether to record the duration of a gentle fall. Self recording rain gauges which give a continuous line are of two types, one with a pen worked by the rise of a float, and returning to the starting point by the emptying of the float chamber by means of an automatically started syphon ; the other with a counter-poised receiver, which sinks with the weight of added water, and actuates the pen through a system of levers, the receiver emptying mechanically, either by syphon or by tipping. The chief difficulty to be overcome in every mechanical gauge is the liability of mechanism to go out of order, and hence the simpler a machine is, and the fewer its moving parts, the more likely is it to be a lasting success.

The chief use of a recording rain gauge is to measure the duration of rain, a second important use is to measure the rate at which rain falls. For these purposes the scale of the diagram must be large both for time and amount of rain, and the whole of the mechanism including the clock must be kept in perfect order. The best indication of the mechanism going wrong is when the amount as indicated by the recording gauge begins to differ from the amount caught by a standard Snowdon gauge in the same 24 hours ; hence whatever recording gauge is used I always advise a Snowdon gauge to be placed beside it. The self recording rain gauge is not a labour saving machine ; however good it may be, it wants more attention and more care than a direct reading rain gauge ; and it should be examined, and the pen set to correct time every morning, even when

no rain has fallen, or when the paper on the drum is not to be changed.

At Camden Square the standard recording rain gauge is a balanced-bucket instrument, made by Casella in 1880, (see *British Rainfall*, 1878, p. 41) and frequently overhauled and repaired. Many other patterns have been tested beside it, and few of them are without some point in which they are better than others; and all have the advantage of being much cheaper. The object of this article is to describe two recording rain gauges which have been tested at Camden Square and present many points of marked superiority.

I think it well to explain that I have no financial interest in any pattern of rain gauge, or in any firm of instrument makers. I am always ready to advise any maker of rain gauges who comes to me, free of charge, and to give them any suggestions which occur to me for the improvement of their wares. The better their gauges are, the less profit they make out of each, and the more out of all, the more I am pleased, for my one object is to make the observation of rainfall more accurate, more general, and less expensive.

The Halliwell Patent Recording Rain Gauge.

This instrument gives the best and clearest trace of any I have tested. It is made to register on the drum seven days' rain or twenty-four hours' rain, and the latter form is the only one which I recommend, as the time scale on any drum running for a week is too contracted for measuring the intensity of short falls.

The large receiving funnel, shown removed in Fig. 1, conducts the

rain by a curved pipe to the bottom of the float-chamber, shown in the middle of the central diagram of Fig. 2. The float carries a rod, the top of which rests against the lower side of the pen carriage (shown enlarged on the left hand side of Fig. 2), and pushes this up, sliding between the rigid metal guides until the float chamber is full and the pen has reached the top of the chart. The float chamber is filled by half-an-inch of rain, and a side tube projecting

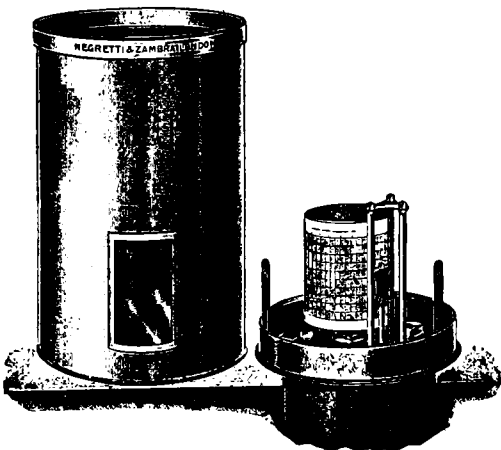


FIG. 1.—THE HALLIWELL PATENT RECORDING RAIN GAUGE, SHOWING PART PROJECTING ABOVE THE SURFACE OF THE GROUND WITH THE FUNNEL REMOVED.

on the right has hanging over it, on a delicately adjusted catch, a tube, forming the short arm of a syphon, which branches above into an inverted U-tube, forming the long arm of the syphon, (shown separately on the right hand side of the central section in Fig. 2). As the lower

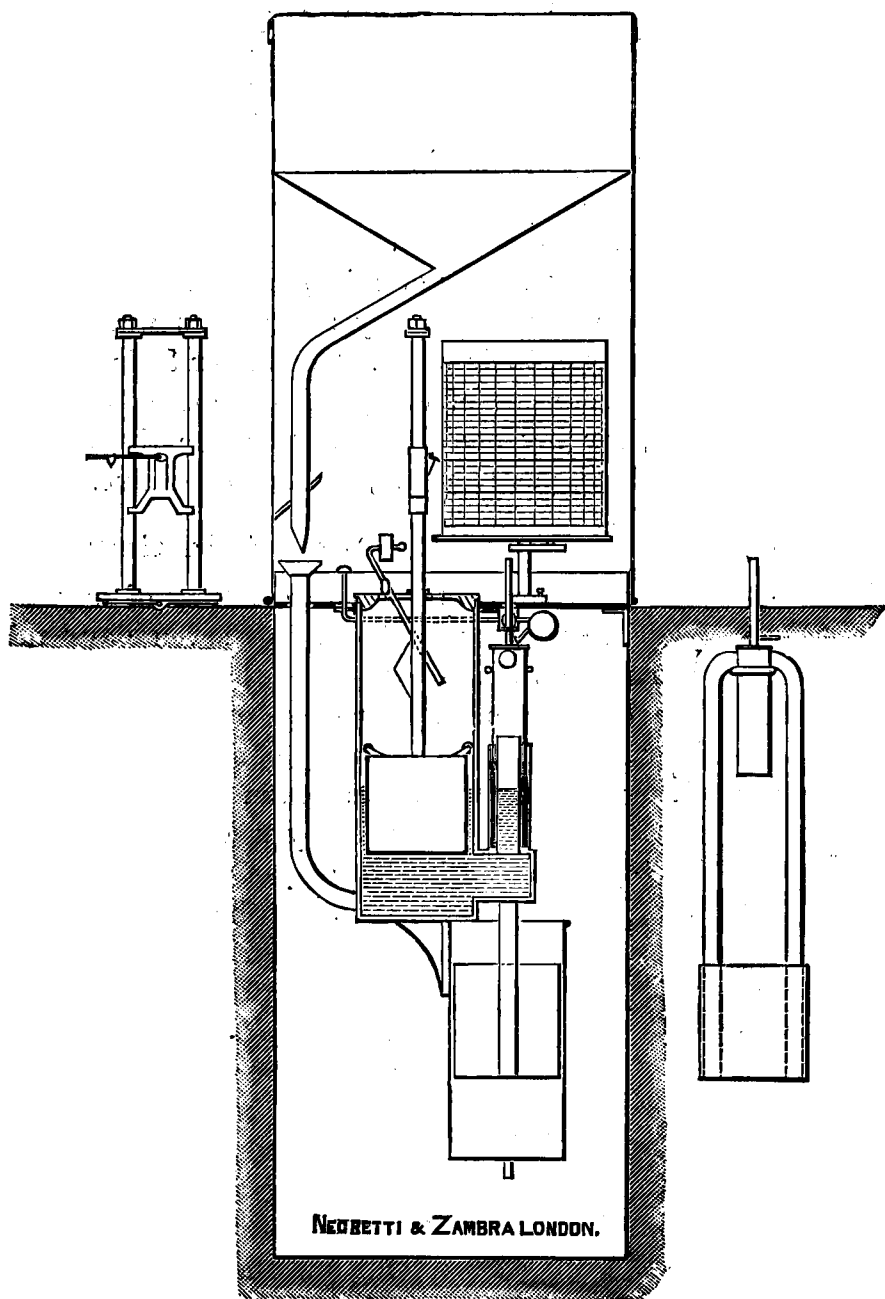


FIG. 2.—THE HALLIWELL PATENT RECORDING RAIN GAUGE IN SECTION. A VIEW OF THE PEN CARRIAGE AND GUIDES IS SHOWN ON THE LEFT; A SECTION OF THE SYPHON ON THE RIGHT.

part of the float rod emerges above, on the float chamber being filled, a triangular piece of brass attached to it throws over a small rocking weight, which detaches the suspended syphon, and this falls with the central short arm into the side tube of the float chamber, starting the syphon full-bore, and emptying the chamber in five seconds. The float falls and the pen comes to zero on the chart. The water syphoned out of the float chamber rushes into another chamber, at a lower level, with a very small orifice below, and fills it, raising a second float in that chamber, a rod from which running through the axis of the syphon, lifts the syphon up and hangs it on its catch, ready to act again. The water then slowly trickles out of the syphon-float chamber and the whole operation repeats itself for every half-inch of rain that falls.

The Halliwell gauge is rather complicated, and as mercury is required to act as a joint for the syphon, it requires some care in fitting up. The adjustment of the catch holding up the syphon is a delicate matter, as if it is too strong it may not be released, if too sensitive some accidental tremor may set it off before its time; but we are bound to say that as a rule it acts admirably. The gauge is made by Messrs. Negretti and Zambra, and it costs £17. In careful hands no mechanical gauge could be more satisfactory.

The Hyetograph.

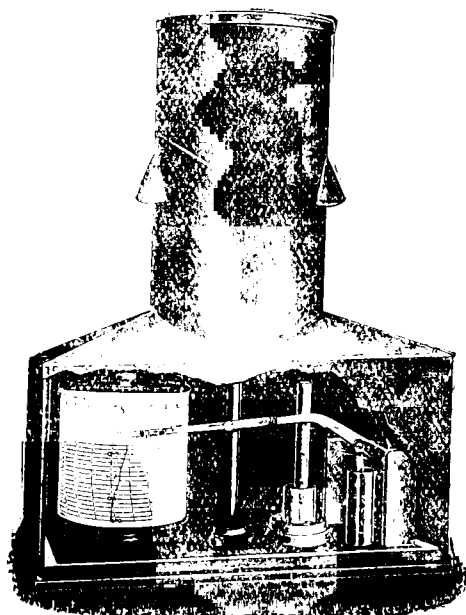


FIG. 3.—UPPER PART OF HYETOGRAPH.
GENERAL VIEW.

The ordinary rainfall Observer has neither the time nor the technical skill to tend a piece of delicate mechanism, nor does he care to spend as much as £17 on an instrument. I had long thought over some way of cheapening the recording gauge by simplifying the mechanism without sacrificing the open scale usually given by frequent discharges of the water collected. I had thrown out the suggestion that the old type of rain gauge might be reverted to, in which the necessity of automatic emptying did not arise, the receiver being large enough to contain all the rain

likely to fall in a day. I also suggested that the open scale might be secured by some arrangement by which the pen should drop automatically when it reached the top of the chart while the float rod continued to rise. Mr. Marcus Zambra, of Messrs. Negretti and Zambra, was attracted by the idea, and his firm took the matter up, Mr. Halliwell working it out and patenting the instrument.

A general view of the Hyetograph appears in Fig. 3, the lower portion which is intended to be sunk in a drain pipe or metal cylinder in the ground not being shown. Fig. 4 gives two vertical sections of the whole instrument. It could not well be more simple. The rain falling into the funnel A is carried by the bent tube B to a float chamber C which is large enough to hold a little more than

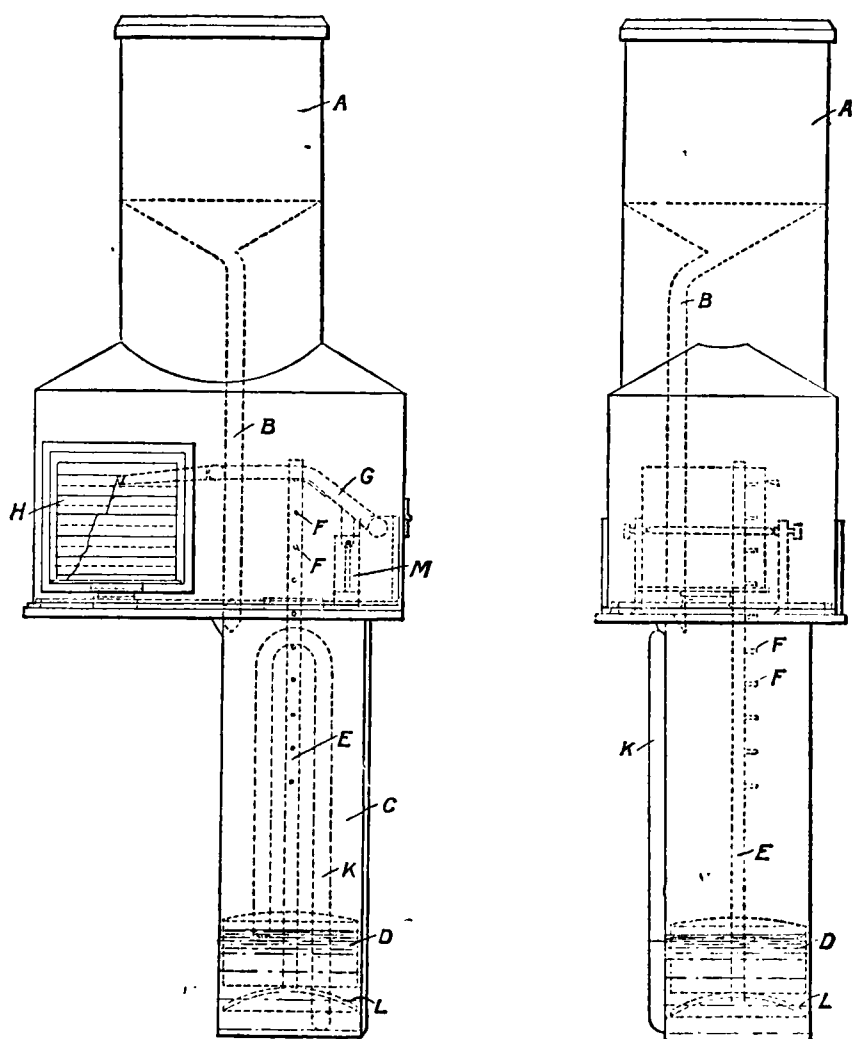
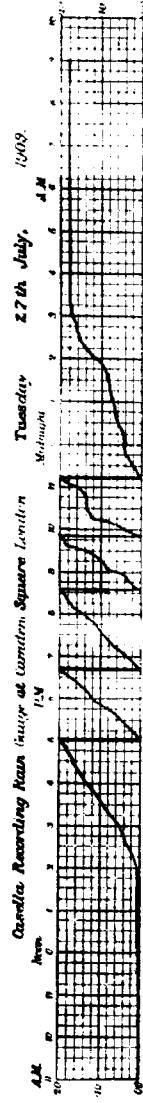
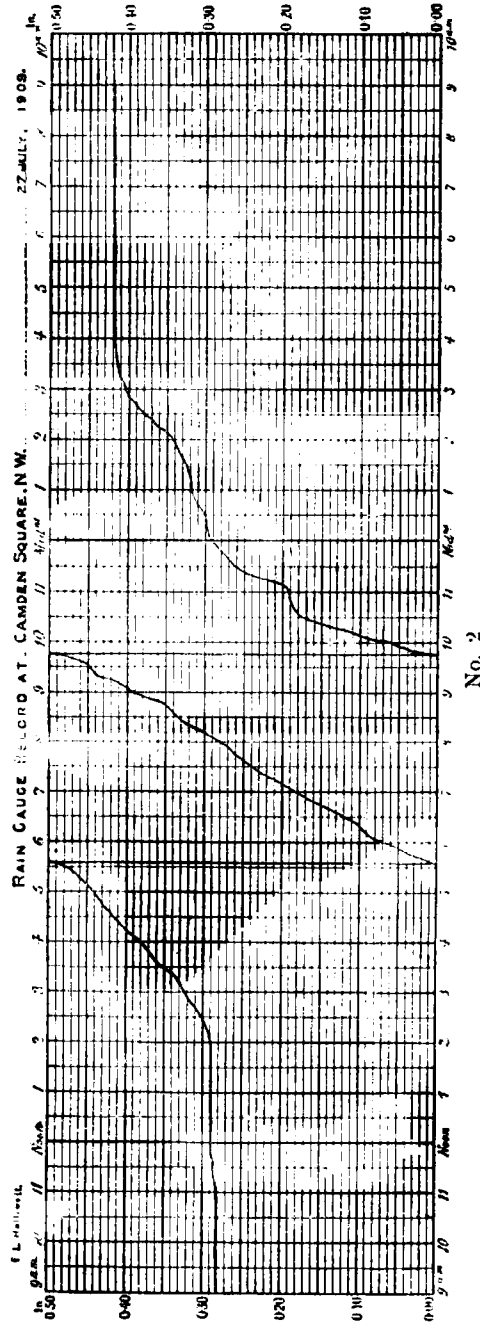


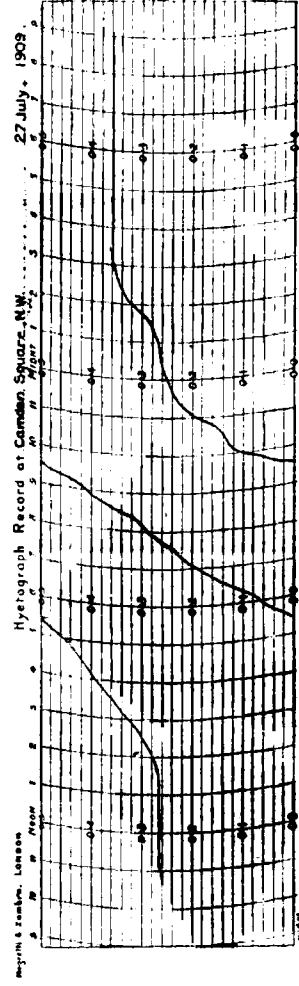
FIG. 4.—SECTIONS OF HYETOGRAPH.



No. 1.



No. 2



No. 8.

Charts from three types of recording rain gauge at Camden Square, London, N.W., on July 27th, 1908.
These charts are reduced in the proportion of 7 to 3

four inches of rain, an amount which is very rarely indeed exceeded in one day in any part of the British Isles. Of course if more than say two inches were to fall any day before evening it would be easy to empty the gauge and leave it ready to record four inches more. The float D carries a rod E which rises as the chamber fills. On this rod there is a row of projecting studs F, F at equal intervals, and the pen lever G, which is hinged at the right hand end, rests lightly, by means of a side plate, on the first of these studs with the pen at bottom of the chart when the gauge is empty. As the float rises the stud carries the lever up with it until the pen reaches the top of the chart recording half an inch of rain. At that point the lever plate slips off the stud and falls until it is brought up by the next lower stud with the pen at the bottom of the chart. The oil-brake M checks the fall of the lever so that it drops quite gently on to the lower stud. The process is repeated until the receiver is full. There is no mechanism for automatic emptying and consequently nothing to go wrong. It is recommended that the receiver be emptied every morning when the gauge is examined after rain has fallen. This is done by swinging back the pen lever, lifting the float rod a little, pressing it down gently but quickly to start the syphon K which speedily empties the receiver.

The merits of the Hyetograph are its extreme simplicity, the clearness and accuracy of its traces, and its low price ; it is being offered at £6 15s. It has answered, in a satisfactory way, all the tests which I could devise, and the only drawbacks it possesses are first, that the receiver is not large enough to hold 6 or 8 inches ; but if it were the float rod would be unmanageably long, and, second, that the pen describes the arc of a circle and not a vertical line as in the Halliwell or Casella gauges. This arises from the necessity of having an open scale, some of the magnification of the vertical rise being produced by the lever, as to get it all, either by increasing the diameter of the funnel or diminishing the diameter of the float chamber, would make the instrument more expensive or less efficient.

The accompanying plate reproduces the records of the Casella gauge, the Halliwell and Negretti and Zambra Hyetograph for the same heavy fall. The charts are all reduced in the same proportion.

Although I am well pleased with the behaviour of both of these rain gauges I shall be delighted if I can help their makers or anyone else to devise a still simpler, cheaper, and more efficient instrument. It may be that the new idea of dropping the pen without emptying the receiver will suggest other ways in which this can be done.

RATIO OF MONTHLY RAINFALL BETWEEN DENTON HOUSE, BRAMPTON, AND SEATHWAITE.

By T. GARDHOUSE CHARLTON.

At Denton House a record of 23 years rainfall shows that August is the wettest month. The discussion of Camden Square records in *British Rainfall 1902* shows that in London October is the wettest month. A 30 years' average at Seathwaite shows December or January to be the wettest month.

In thinking over these facts it occurred to me to compare the Denton House and Seathwaite records to see if any relation could be established between the monthly rainfall at the two stations. For this purpose the average fall for each month for the 23 years, 1886-1908, was computed and plotted as shown on diagram I.

The character of the two curves indicated that the falls at the two stations had a more or less definite ratio to each other. To ascertain this ratio the average fall at Seathwaite for each month was divided by the corresponding fall at Denton House. Lengths proportionate to the quotients were measured off on the vertical lines and the points so obtained were joined. The resulting curve (solid black) is shown in diagram II. In this curve the rainfall at Seathwaite is shown in terms of rainfall at Denton House taken as 100.

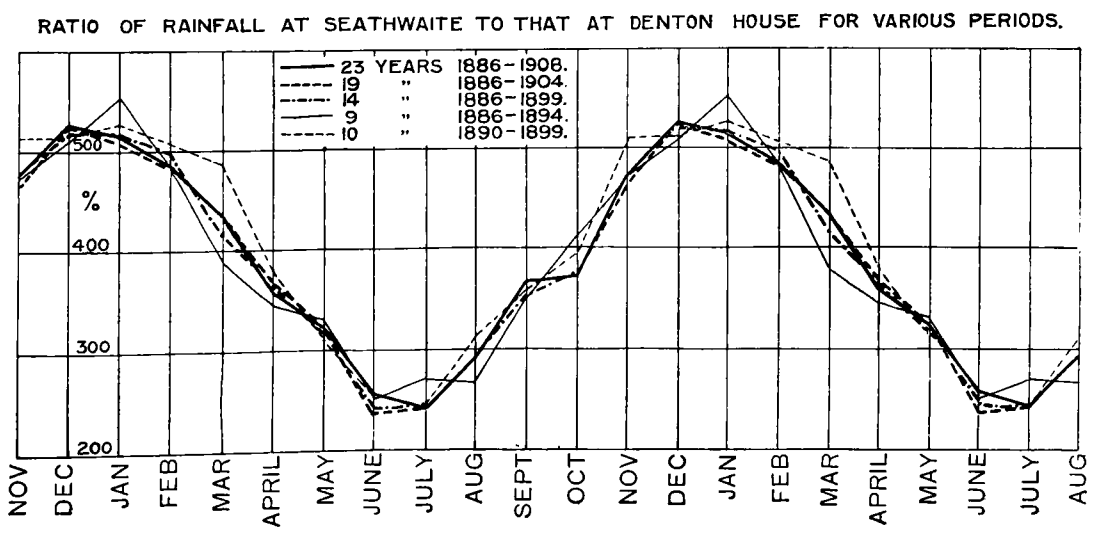
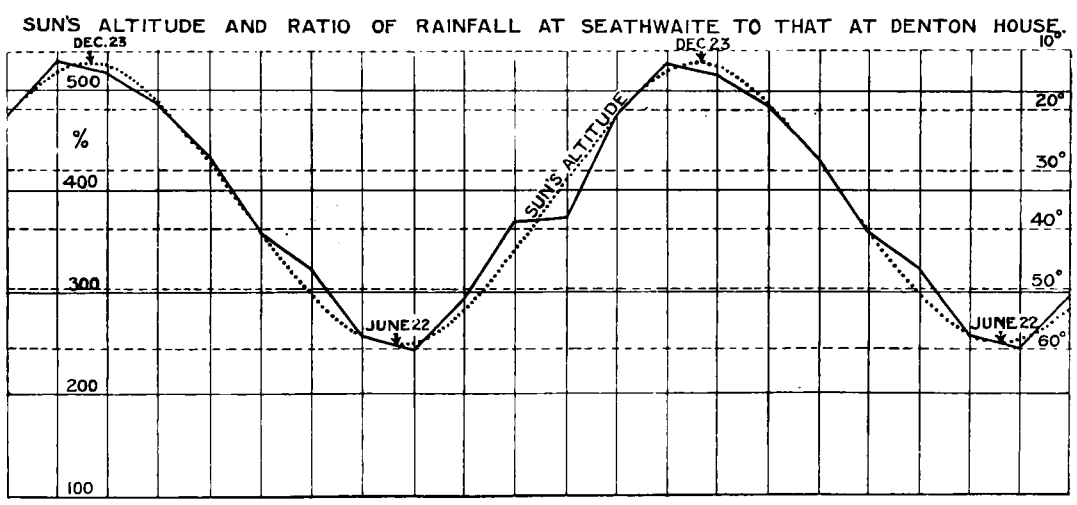
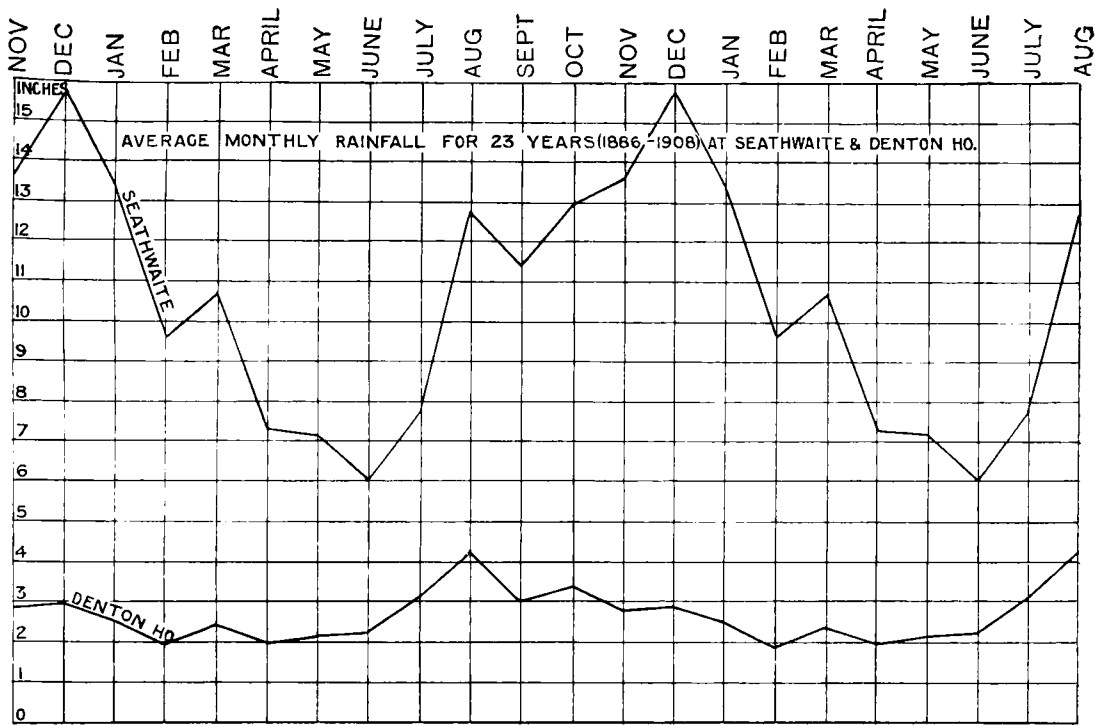
Its general outline suggested some relationship with the sun's altitude. The curve showing the variation in altitude of the sun is dotted.

The close agreement suggested further investigation to see if the values of the ratios for the 23 years were accidental or whether they still persisted for other periods.

Ratios were therefore calculated for periods of 9, 14 and 19 years starting from 1886, and for 10 years starting from 1890. The values for these periods are plotted in diagram III., and show that the general character of the ratio is maintained.

It would appear, therefore, that the ratio between the average fall for any particular month at Seathwaite and at Denton House only varies within narrow limits, and that the ratio for the various months varies approximately as the sun's altitude.

Seathwaite lies about $37\frac{1}{2}$ miles south-west of Denton House.



RAINFALL OBSERVATIONS IN SNOWDONIA.

READERS of *British Rainfall* have always been interested in the measurements of rain made from time to time on the highest mountain in Wales; but there may be some who do not remember that in the early days of systematic rainfall recording the Snowdon rain gauge, now the standard pattern, made its reputation and received its name from being used by Major Mathew and Mr. Symons in the first series of observations on the slopes of Snowdon in 1864. It was recognised at once that the rainfall of Snowdonia was heavier than that of Seathwaite, and that it competed even with the Styne, "the wettest place in England." When Major Mathew left North Wales many of his records lapsed, and none of them had been near the summit of the mountain. Many years later Mr. Gethin Jones took up the question of the rainfall of Snowdonia, and in 1898 set himself to the task of discovering the wettest spot in Wales. The last ten volumes of *British Rainfall* record his efforts and results. As we mentioned in our last volume, he has made over most of his gauges to the North Wales Power Company, the manager of which, Mr. Aitchison, and the engineer, Mr. Lockwood, have taken a keen interest in the problem, and in addition to continuing the old gauges, they have established several new ones and secured daily readings from a number. The rainfall conditions in this locality are so interesting that we have requested Mr. Lockwood to give a detailed account of his observations in 1908, which we have much pleasure in printing. The high rainfalls recorded in the year are even less surprising than the differences in the fall at adjacent gauges on particular days. The intensity of rain is calculated by Mr. Lockwood on the basis of assuming rain to have fallen in the gauges not read on Sundays when the gauges which were visited showed that a fall had taken place.

The probable value of the rainfall of the months without a reading of the gauge in Mr. Lockwood's Table has been computed, and the probable rainfall for the year at each of the stations appears in its proper place in the volume.

Rainfall in Snowdonia, with Notes on Remarkable Falls of Rain during 1908.

By A. LOCKWOOD, F.R.Met.Soc.

THERE are thirteen 5-inch rain gauges fixed on what is naturally the wettest portion of Snowdonia. The map, Fig. 1, shows the position, Table I. a description of each. Photographs (Figs. 2 and 3) are reproduced

of two of the more interesting features to give an idea of the nature of the surroundings; the gauge in Fig. 2 is the only one not of the approved Snowdon pattern.

MAP OF SNOWDON SHOWING POSITIONS OF RAIN GAUGES

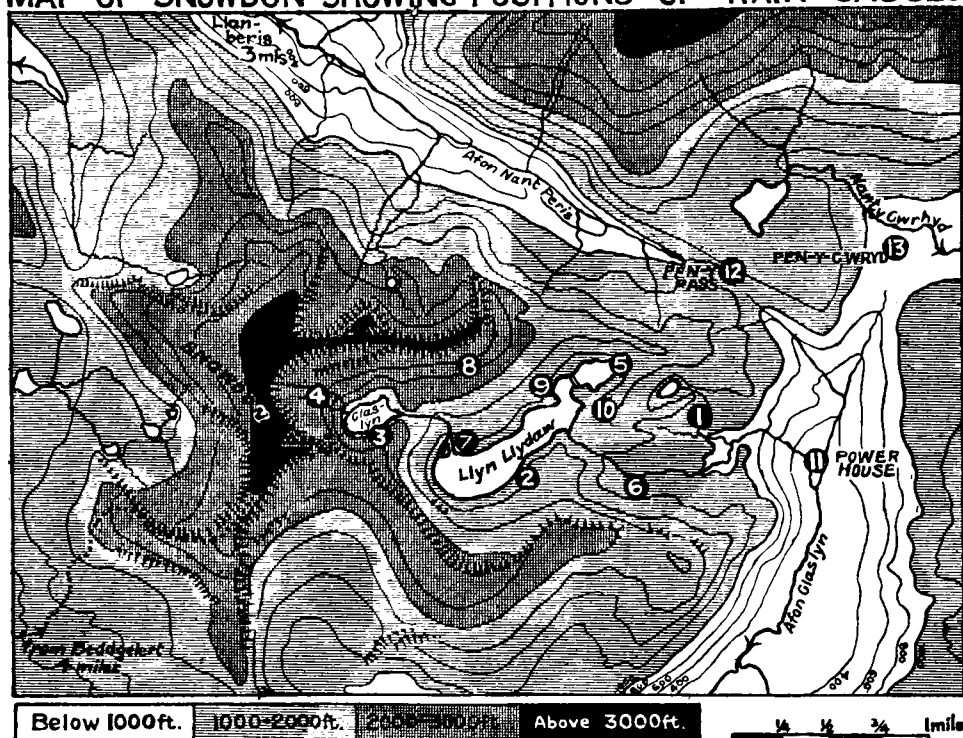


FIG. 1.

Mr. J. R. Gethin Jones, in his article "The Wettest Place in Wales," published in *Symons's Meteorological Magazine*, August, 1904, claims the place marked No. 4 on the Map, Fig. 1, as the "wettest spot in Wales," and possibly in the British Isles. The figures for 1908 for this gauge, as will be seen from Table I., were lost for the first four months, but taking them at the same percentage less as the remainder of the year, the total amounts to 160 inches against 237·32 in. for Gauge No. 9, this amount allowing for the gauge being tampered with in June.

Possibly this year may have been exceptionally favourable to a large rainfall at No. 9, nevertheless I think it is justifiable, with such a huge margin, to claim it as the wettest place in the British Isles, and though geographers perhaps require more data before altering their books, they might put a question mark after stating Seathwaite as the place where the greatest rainfall is recorded. In conclusion, I am greatly indebted to the North Wales Power and Traction Company, Ltd., to whom most of the gauges belong, for their kindness in allowing me the use of the fore-mentioned data.

The first remarkable fall of rain in 1908 was on January 15th. Rain commenced to fall on this date at 2 a.m., continuing all day. During the

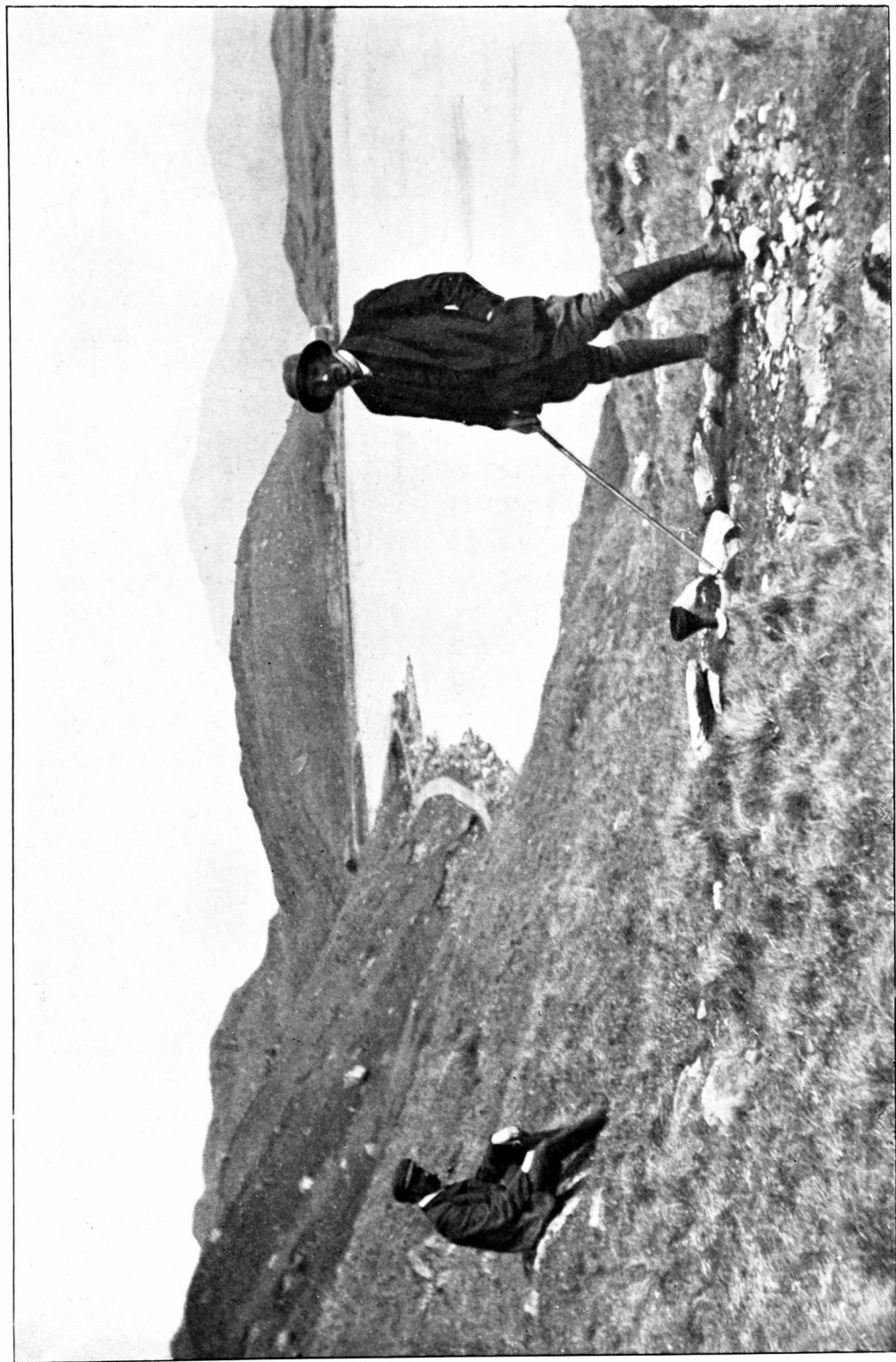


FIG. 2. Llyn Llydaw looking east, showing Gauge No. 9.

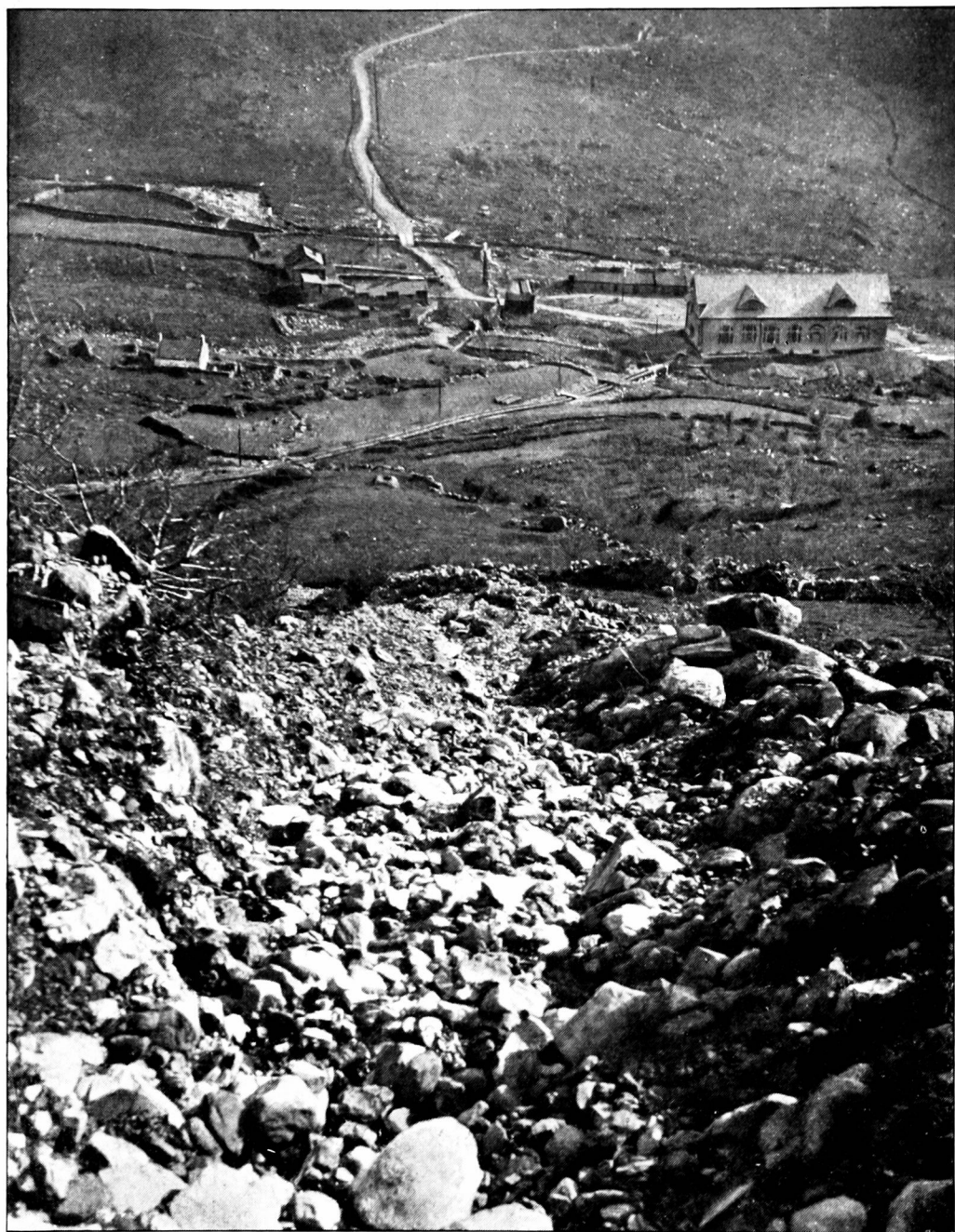


FIG. 3. View on Snowdon, showing the result of the cloudburst on
January 16th, 1908.

DESCRIPTION OF GAUGES ON MAP, FIG. 1.

Gauge.	Altitude.	REMARKS.
No. 1 ...	feet. 1080	On a grassy slope near the small stream which takes the overflow of Llyn Teyrn.
„ 2 ...	1485	On a rather boggy grass plateau, 200 yards from the foot of Lliwedd.
„ 3 ...	2050	On grass, half way between Glaslyn and the base of Cribau.
„ 4 ...	2500	On a tip-heap of the Copper Mine, on the side of a little stream Pant-y-Lluchfa.
„ 5 ...	1470	On grass, on the lower slopes of the hills between Llynoedd Llydaw and Teyrn, on the Llydaw side, N. corner.
„ 6 ...	1050	On the lower grass slopes of Gallt-y-Wenallt.
„ 7 ...	1435	On a grassy plateau, at the side of a delta made by the Afon Glaslyn on its entrance to Llyn Llydaw.
„ 8 ...	2340	On a grassy shelf, near a small pool between the Pen-y-Gwryd track and the top of Crib Goch.
„ 9 ...	1480	On a grassy slope, near the Copper Crushing Mill, on the Snowdon side of Llydaw.
„ 10 ...	1480	On the opposite side of Llydaw from No. 9, on a grassy slope near the side of the road.
„ 11 ...	310	On a mound near the Power Station.
„ 12 ...	1170	In a field 30 yards W. of Pen-y-Pass Hotel.
„ 13 ...	910	On the watershed of the Glaslyn and Conway rivers, in the Pen-y-Gwryd Garden, S.W. of the Hotel.
The altitudes of the above gauges are obtained from a 6 in. ordnance map, and checked by an aneroid barometer.		

following night a cloudburst occurred about a quarter of a mile west of the Power House, on the map, Fig. 1. The downpour continued until the 17th.

During this period the amounts registered at different places differed enormously.

1908.	No. 9.	No. 10.	No. 11.
January 13.....	·41	·00	·08
„ 14.....	2·26	·95	·69
„ 15.....	6·50	5·45	2·72
„ 16.....	6·48	5·28	·95
„ 17.....	2·68	·86	·00
5 days ...	18·33	12·54	4·44

On February 14th 3·97 in. fell at No. 9, and from 10 p.m. on the 16th to 9.0 a.m. on the 17th 2·00 in. at No. 11.

During March, only one heavy fall occurred, 3·09 in. at No. 9, on the 24th.

A snowstorm commenced at noon on April 25th and continued until

TABLE I.—MONTHLY RAINFALL IN SNOWDONIA IN 1908.

1908.	GAUGE NUMBER.													REMARKS.
Month.	1	2	3	4	5	6	7	8	9	10	11	12	13	
January ...	in. *	in. *	in. *	in. *	in. 15·75	in. *	in. *	in. 15·53	in. 36·19	in. 24·24	in. 12·62	in. *	in. June 1st.	* Not taken.
February..	11·26	10·82	9·95	*	9·60	11·86	11·41	13·85	18·77	11·77	9·89	13·16		+ Emptied.
March.....	13·57	13·19	9·73	+	10·10	17·02	14·70	43·70?	21·40	13·85	9·12	13·52		? This high figure is probably due to the water from a snow-drift melting.
April	6·31	6·02	6·31	Frozen	5·78	5·57	6·16	6·23	8·28	6·53	4·67	7·05		† This gauge was found to have been tampered with.
May	11·76	11·90	12·12		12·90	12·03	13·20	14·94	20·47	10·72	8·25	12·42	12·42	
June	7·23	8·20	7·41	8·33†	10·14	7·41	8·92	9·68	12·34	8·64	5·30	7·34	5·92	
July	12·65	12·88	12·40	11·42	12·53	11·72	13·61	13·98	14·99	12·94	8·91	13·88	10·08	
August ...	10·54	12·41	10·73	12·73	11·06	10·33	12·32	13·33	13·25	11·36	7·76	11·58	9·12	
September	15·86	16·48	13·75	17·93	14·85	16·79	17·80	19·02	26·58	16·41	11·10	17·19	13·38	
October ...	4·62	5·72	5·25	6·13	6·79	4·28	6·13	6·28	6·33	6·05	3·15	3·73	3·69	
November	15·94	17·74	15·03	18·09	16·55	16·46	19·04	19·26	29·35	16·78	10·58	16·68	11·80	
December	16·45	14·68	13·21	16·61	14·85	17·08	15·70	16·68	29·37	17·69	9·61	17·78	13·83	
Total.....	...	...	...	...	140·90	...	...	192·48	237·32	156·98	100·96	...	...

8 p.m., during which time 14 inches of snow fell at No. 11, and 19 inches at No. 9. A heavy fall of rain occurred on the 29th, 3·13 in. being measured at No. 9.

During May there were two heavy falls, 3·62 in. on the 5th and 2·96 in. on the 7th, both measured at No. 9 gauge.

On June 13th rain commenced to fall at 4.30 a.m. and continued all morning, Up to noon ·45 in. had fallen at No. 11. Heavier rain fell during the afternoon, and ·93 in. was measured at 6 p.m. Still heavier rain fell during the night, the total for the day being 2·02 in. For the two days ending at 9 a.m. June 15th, 5·50 in. of rain was measured at No. 9. As there was only one slight shower on the 14th, practically the whole amount fell on the 13th. This rain-storm caused the Afon Glaslyn to rise very quickly and flood the Gwynant valley.

During July there was only one wet day, the 9th, when the following amounts fell :—No. 9, 2·68 in. ; No. 10, 2·11 in. ; No. 11, 1·84 in.

August was showery, but with no heavy falls. At night, after a rain-storm in hot weather, a curious effect is seen on displacing turf in certain parts of the mountain side. On rubbing the top surface away, the ground underneath shines like a lot of small glow worms. A sheep jumping from one place to another and displacing the turf often causes this glimmering, which probably accounts for the supposed lights seen on the mountain side, and said by the more superstitious local residents to be a forewarning of death.

A wet spell commenced about 10 a.m. on September 8th. Very heavy showers occurred during the night. Up to 6 p.m. no rain fell at No. 9. The readings for the day were :—No. 9, 6·67 in. ; No. 10, 4·28 in. ; No. 11, 2·23 in.

An exceptionally heavy local shower was noted at gauge No. 11 on September 9th when 1·60 in. fell in a quarter of an hour. The readings for this day were :—No. 9, 1·56 in. ; No. 10, 1·18 in. ; No. 11, 1·66 in.

Two more heavy falls occurred during this month, 4·75 in. on the 16th and 3·57 in. on the 28th, both at No. 9.

There was no fall above 3 in. per day in October.

For the 48 hours ending 9 a.m. on November 23rd the readings were :—No. 9, 8·58 in. ; No. 10, 4·75 in. ; No. 11, 2·64 in. Again on the 24th No. 9 gave 3·52 in.

During December, on two occasions only, the 7th and 30th, heavy falls occurred, viz., 3·61 in. and 3·58 in. respectively, at No. 9.

EXPLANATORY NOTES ON RAINFALL TABLE NO. 1.

On referring to the Monthly Rainfall, Table I., it will be seen that for January only five gauges were read the others had not then been handed over for my observation.

In February all were read except No. 4, which was buried in snow, and could not be got at until the next month, when it was emptied ; it had been collecting for about 15 months, the exact time not being known.

It will be seen that an abnormally high rainfall was measured at gauge No. 8 for March. It is hardly likely that such a heavy fall as this should be so very local, No. 9 giving only 50 per cent. of the amount ; but, on the other hand, the gauge is in a place far from the beaten tracks, and being

rather difficult of access, it is very unlikely that it was tampered with. The large amount is probably due to the enormous snow-drifts which had been formed round the gauge melting and running into the funnel.

No. 4 was found frozen, and no reading was obtained for April. Although the amount, 9·97 in., recorded for May is for two months, it by no means shows the exact amount which fell, as very early in April the gauge funnel was frozen and continued so till well into May.

Gauge No. 13 was fixed on June 1st. Nothing unusual was found about any of the gauges after this until July, when No. 4 was found to have been tampered with. It is very probable that, excepting Nos. 9, 10 and 11, which are observed at 9 a.m. each day, all the readings in the winter months for the remainder of the gauges are somewhat low, for during a heavy snow-storm only so much as will fill the gauge funnel is measured ; against this, however, the amount from drifted snow must be considered.

TABLE OF DROUGHTS AND RAIN SPELLS.—*Absolute Drought.*

Gauge.	Began.	Ended.	Lasted.
No. 11	June 20	..... July 6	..... 17 days.

Rain Spells.

Gauge.	Began.	Ended.	Lasted.	Total Fall.	RAIN PER DAY.		
					Max.	Min.	Mean.
					in.	in.	in.
No. 9 ...	May 3	May 18	16 "	16·06	3·62	·06	1·00
" 9 ...	Aug.20	Sept. 3	15 "	12·99	3·13	·08	·86
" 9 ...	Nov.10	Nov.29	20 "	29·35	7·51	·01	1·46
" 9 ...	Dec. 3	Dec. 23	21 "	23·70	3·61	·04	1·03
No.10 ...	May 4	May 18	15 "	8·07	2·22	·05	·54
" 10 ...	Aug.20	Sept. 3	15 "	11·43	2·21	·08	·76
" 10 ...	Nov.10	Nov.28	19 "	16·78	1·80	·05	·88
" 10 ...	Dec. 7	Dec. 23	17 "	12·97	2·78	·02	·76
No.11 ...	Aug.20	Sept. 3	15 "	8·08	1·79	·12	·54
" 11 ...	Nov.10	Nov.26	17 "	9·29	2·34	·01	·55
" 11 ...	Dec. 7	Dec. 23	17 "	6·91	1·40	·03	·41

TABLE II.—INTENSITY OF DAILY RAINFALL AND NUMBER OF RAIN DAYS AT 3 GAUGES IN 1908.

Gauge.	NUMBER OF DAYS ON WHICH VARIOUS AMOUNTS OF RAIN FELL.												No. of Rain Days.	Total Rainfall.	Amount per Rain Day.
	·01 in.	·02—·04 in.	·05—·09 "	·10—·24 "	·25—·49 "	·50—·99 "	1·00—1·49 "	1·50—1·99 "	2·00—2·49 "	2·50—2·99 "	3·00—3·99 "	4·00 or over.			
No. 9	6	15	16	39	32	42	31	12	9	8	12	8	230	in. 237·32	in. 1·31
" 10	2	13	25	42	49	45	20	13	7	3	2	5	226	156·98	·69
" 11	13	21	29	58	46	45	12	6	5	1	0	0	236	100·89	·42

TWENTY YEARS' RAINFALL AT CARRABLAGH, Co. DONEGAL.

THE following analysis of the rainfall record at Carrablagh, on the shores of Lough Swilly, in the extreme north of the county of Donegal, was made by the late Mr. H. C. Hart, whose death is recorded in the Obituary list. The value of the observations, on account of the remote and thinly populated locality in which they were made, and the scrupulous accuracy of the Observer, is very great.

The gauge used was 5 inches in diameter, placed at one foot above the ground, and the results are therefore strictly comparable with the vast majority of records in the British Isles. The altitude of the station is 130 feet above sea level.

The average values of the monthly totals for the 20 years 1888–1907, were as follows, the figures in the lower line being the aggregate averages from January 1st to the end of the month in question :

Jan. in.	Feb. in.	Mar. in.	Apr. in.	May. in.	June. in.	July. in.	Aug. in.	Sept. in.	Oct. in.	Nov. in.	Dec. in.	Year. in.
3·67	3·19	3·49	2·62	2·78	2·82	3·53	4·81	3·54	4·24	4·29	4·81	43·79
..	6·86	10·35	12·97	15·75	18·57	22·10	26·91	30·45	34·69	38·98	43·79	..

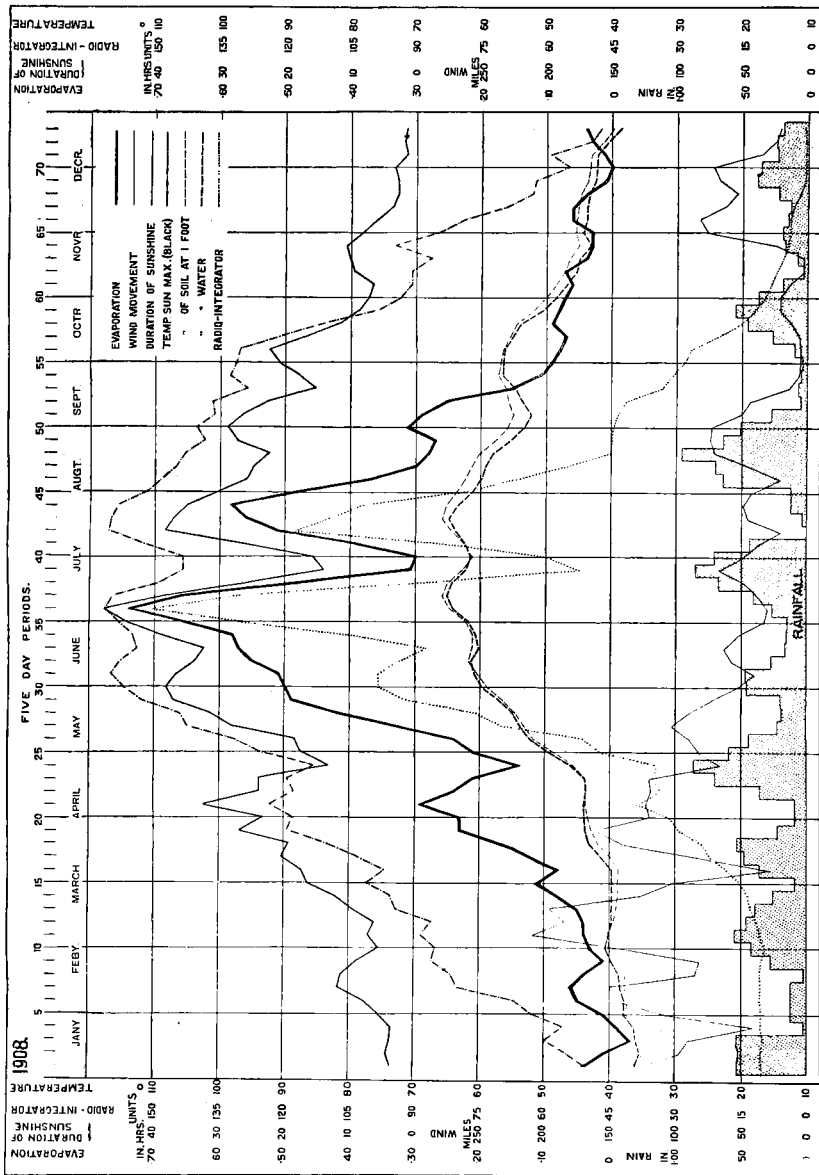
The period is hardly long enough to render the curve of monthly rainfall a perfectly normal one, but the pronounced minimum in spring and early summer, and the December maximum, are typical of the exposed westerly districts, as contrasted with more sheltered and drier localities. The second maximum, in August, is probably due to a few thunderstorms, the effect of which would very likely have been largely smoothed away had the period of observation been twice as long. Monthly totals of 7·00 in., or more, were registered on eight occasions, every month, except April, May, June, July and August, being represented, and December twice. No list, as Mr. Hart remarks, could more clearly emphasize the nature of the weather at Carrablagh. The wettest individual month was October, 1895, when 7·82 in. fell. Less than 1·00 in. in a month was recorded

on six occasions only, three times in June, twice in September, and once in February; the smallest was .58 in. in June, 1904.

Wet periods extending over 30 days, or more, were recorded six times in the 20 years, in August, 1889, 30 days; May—July, 1890, 43 days; November—December, 1893, 39 days; January—February, 1894, 32 days; December, 1894—January, 1895, 34 days, and July—August, 1907, 32 days. It is noteworthy that three of these wet spells took place during the summer months, the remaining three being at midwinter, normally the wettest season in the locality. The number of dry spells, as might be expected at a station where the average number of rain days approximates to 250 per annum, was small. Two periods of 12 days without rain occurred in 1900, one of 17 days from September 26th to October 12th, 1902, and one of 16 days from June 4th to 20th, 1903.

The summary concludes with a list of 29 dates on all of which the rainfall amounted to 1.00 in. in 24 hours. Of these one each occurred in the months from January to May, inclusive, four each in the months from June to September, inclusive, five in November, and three in December, October alone, remarkably enough, being entirely unrepresented. The feature of the list, apart from the absence of any one-inch fall in October, is the extreme moderation, taking into consideration the fairly high average fall of 43.79 in. per annum. Five daily falls only reached 1.50 in., which is no more than 3.4 per cent. of the year's average fall, and one only reached 2.00 in., on June 10th, 1892, when 2.35 in. fell. It should be noted, however, that on September 6th, 1908, which was not included in the period under discussion, a fall of 3.02 in. took place during a somewhat local downpour which affected the district immediately surrounding Carrablagh.

EVAPORATION FROM A WATER SURFACE AND OTHER METEOROLOGICAL PHENOMENA.



RECORDS OF EVAPORATION AND PERCOLATION.

THE increase in the number of records of evaporation is slower than we hoped for. We can only add one this year, but that is an important one, being situated in the grounds of the Fulton Engineering Laboratory of the University of Edinburgh, under the charge of Professor Hudson Beare. There are two new records of percolation from which evaporation may be estimated perhaps no less accurately than by direct measurement, one kept by Mrs. Lyndon, at Grayshott, Haslemere; the other by Mr. E. Mawley, at Berkhamsted. The latter is an old record, though it has not previously appeared in our pages.

The record of evaporation at Camden Square has now been kept up uniformly for 24 years. During the year 1908 a float indicator has been added to the tank, by which direct readings of the level are taken by means of a hand moving on a divided arc. This is much more easily read than the hook-gauge previously used; but both methods of reading are employed, and no difference between the two has been noticed. The comparison of evaporation with other meteorological phenomena has been continued exactly as last year, the smoothed curves of five-day means or totals showing the larger irregularities of the seasonal changes.

The diagram showing the relation of the Camden Square evaporation results to other meteorological elements has been constructed upon an identical plan with that for 1907, except that the indications of the new Wilson's radio-integrator are complete for the whole year. This curve is subject to a small constant error in the early part, due to the difficulty of setting the instrument exactly to zero. This was eventually overcome, and from December 1st the curve may be looked upon as absolutely accurate. The effect of the error is only to raise the curve about 10 units of the scale during January and February; otherwise it is negligible. The radio-integrator curve shows an unmistakeable relationship to that for evaporation during the summer. The check during June, which does not figure in the evaporation curve, is probably due to the fall of

temperature being accompanied by the increase of wind movement, from which the radio-integrator is effectually screened. The effect of wind movement on evaporation is, however, apparently far less pronounced than that of sunshine and temperature, at all events in the summer months, when evaporation is most active. The rise in wind movement for instance does not seem to have stemmed the great falling off of evaporation in July, due to dull cold weather, which forms so striking a feature of the diagram. It seems that the radio-integrator offers the best means of estimating evaporation in the absence of a tank, and comparing the monthly totals the parallelism is pronounced. Judging by the one year's observations a fair approximation to the evaporation month by month could be deduced from the radio-integrator by dividing the monthly totals by the factor 188 (the relationship of the year's totals), by which method the error in no month materially exceeds $\cdot 25$ in., and is in most months negligible.

We hope next year, on the completion of the fifth annual diagram of this series, to be able to combine the whole, and arrive at a mean value for each curve.

The Table of evaporation for past years at Camden Square shows that in 1908 the total amount was very near the average of 23 years. Seven months had less and five more than their average; but the only remarkable divergences from the average were in the case of June and July. In June, the total amount of evaporation was 3.77 in. ($\cdot 85$ in. above the average), which was only once exceeded in that month, viz., in 1901, when it was 3.85 in.; and there are only four occasions since the record began in which the evaporation for any month has been greater. In July, the amount of evaporation was $\cdot 41$ in. below the average.

The mean at the fourteen stations now available was 16.75 in., nearly an inch more than in 1907; and the range was from 20.95 in. at Downholland to 12.72 in. at Wakefield. The Downholland and Kennick figures are so large, and the Wakefield and Falkirk figures so small, that we cannot resist the feeling that some local peculiarities make the evaporation gauges at these places not representative of the districts. The Downholland gauge is checked by a three-foot square evaporation tank in the same enclosure, which gives closely accordant results, and although I have inspected it and the Wakefield gauge, I could find no apparent reason for their extreme readings. At Falkirk, the evaporation gauge is not of the standard pattern, and

the evaporation as deduced from the percolation gauge gives the more reasonable figure of 18·66 in. ; but I must confess that a mean of the two would agree best with what appears to be the general amount of evaporation. The Croydon evaporator, not of the standard pattern, is alone in showing a much lower amount of evaporation in 1908 than in 1907 ; one other, at Bolton, gave almost the same amount in the two years, but all the rest gave a substantially greater evaporation in 1908 than in 1907.

Evaporation at Camden Square, 1885-1908.

	Jan. in.	Feb. in.	March. in.	April. in.	May. in.	June. in.	July. in.	Aug. in.	Sept. in.	Oct. in.	Nov. in.	Dec. in.	Total. 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
1905.	·17	·35	·65	1·14	3·19	2·49	3·65	2·23	1·24	·78	·09	·16	16·14
1906.	·06	·21	·73	1·90	1·90	3·53	3·65	3·46	2·38	·78	·27	·16	19·03
1907.	·21	·38	1·02	1·27	1·93	2·47	2·65	2·24	1·72	·49	·27	·19	14·84
Average	·10	·26	·68	1·51	2·33	2·92	3·16	2·38	1·37	·62	·23	·09	15·65
1908.	·05	·27	·56	1·32	2·23	3·77	2·75	2·47	1·25	·48	·29	·14	15·58
Diff.	—·05+	·01—	·12—	—·19	—·10	+·85	—·41	+·09	—·12—	·14+	·06+	·05	—·07

NOTE.—c indicates condensation.

*Observations made at Park Hill House, Stanhope Road, Croydon,
by Mr. Baldwin Latham, M.Inst.C.E.*

1908	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 ex- posed in Air.	Temperature of the Dew Point at 9 a.m.
	in.	in.	°	in.	in.	°	°
Jan. ...	·225	·140	34·0	·500	—	37·2	32·8
Feb. ...	·415	·015	37·1	1·090	—	38·6	36·6
March	·730	·045	38·2	1·610	—	39·5	35·5
April .	1·455	·085	45·4	2·430	—	46·6	38·4
May...	2·545	—	60·0	4·305	—	64·6	51·3
June..	3·655	—	64·7	6·175	—	69·0	51·9
July...	3·175	—	66·1	5·575	—	70·1	56·9
Aug. ...	2·930	—	62·5	5·140	—	66·0	53·0
Sept...	1·615	·005	58·2	3·410	—	63·5	52·3
Oct. ...	1·075	·010	54·6	2·255	—	54·6	51·7
Nov. ...	·570	·055	45·4	1·015	·010	44·3	43·0
Dec...	·485	·305	41·2	·595	·085	39·5	37·2
Total .	18·875	·660	...	34·100	·095	...	...
Mean .	...	...	50·6	...	...	52·8	45·1

*Table of Rainfall and Percolation at Park Hill House, Stanhope Road, 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.

1908	PARK HILL HOUSE.			TIMSBURY.		TWYFORD.	
	Rainfall. Level of Gauge 265·00 ft. above O.D.	Percolation Gauge. <i>Chalk.</i> Level of Gauge 264·00 ft. above O.D.	Percolation Gauge. <i>Gravel.</i> Level of Gauge 264·00 ft. above O.D.	Rainfall. Level of Gauge 96·39 ft. above O.D.	Percolation Gauge. <i>Chalk.</i> Level of Gauge 89·75 ft. above O.D.	Rainfall. Level of Gauge 138·72 ft. above O.D.	Percolation Gauge. <i>Chalk.</i> Level of Gauge 137·49 ft. above O.D.
	in.	in.	in.	in.	in.	in.	in.
Jan.	1·660	1·289	1·153	1·53	1·267	1·52	1·356
Feb. ...	1·230	·703	·481	1·26	·740	1·26	·994
March ...	2·905	2·273	1·846	3·61	2·595	3·63	3·056
April ...	2·520	1·367	·683	2·59	·773	2·12	1·959
May.	2·015	·792	·311	1·71	·531	2·04	1·113
June ...	2·475	·001	·063	·65	·011	·89	—
July.	3·455	·004	—	1·68	—	1·97	·012
Aug. ...	3·400	—	—	3·75	·018	3·95	—
Sept. ...	1·470	·438	—	1·73	·018	1·86	—
Oct.	2·535	·788	—	1·24	·019	1·38	—
Nov. ...	·755	·496	—	1·11	·018	1·23	—
Dec.	2·395	1·882	1·242	3·26	·378	2·95	2·577
Total ...	26·815	10·033	5·779	24·12	6·368	24·80	11·067

Table of Rainfall and Percolation at Windwhistle House, Grayshott Hampshire. Mrs. Lyndon.

660 feet above Sea Level.

Gauge 3 ft. × 3 ft. × 3 ft.

1908	Rainfall.	Percolation.	Calculated Evaporation.
	in.	in.	in.
January	2·15	1·76	·39
February	1·25	·85	·40
March	3·56	2·64	·92
April	3·36	1·80	1·56
May	2·84	1·69	1·15
June	1·08	·10	·98
July	2·35	—	2·35
August	4·73	·04	4·69
September	1·93	·97	·96
October	2·96	1·84	1·12
November	1·42	1·11	·31
December	3·71	2·73	·98
Year	31·34	15·53	15·81

*Rainfall and Percolation at Rosebank, Berkhamsted, Herts.
Mr. Edward Mawley.*

1908.	Rainfall.	Percolation through Gauge on which short grass is growing.	Percolation through bare soil Gauge.	Deducted Evaporation from grass covered soil.	Deducted Evaporation from bare soil.
	in.	in.	in.	in.	in.
January	1·850	1·359	1·632	·49	·22
February	1·137	0·256	0·873	·88	·26
March	3·230	1·732	2·682	1·50	·55
April	3·545	2·189	2·897	1·36	·65
May	1·817	0·684	0·875	1·13	·94
June	1·329	0·220	0·459	1·11	·87
July	2·271	—	0·807	2·27	1·46
August	3·085	—	1·521	3·09	1·56
September ...	1·968	0·249	1·137	1·72	·83
October	2·184	1·094	1·577	1·09	·61
November ...	0·696	0·303	0·343	·39	·35
December ...	2·228	1·394	1·852	·83	·38
Total.....	25·340	9·480	16·655	15·86	8·68

Table of Rainfall and Percolation at Rothamsted Experimental Station, Harpenden. Mr. A. D. Hall, F.R.S.

1908.	Rainfall.	Percolation through Soil.		
		20 in. deep.	40 in. deep.	60 in. deep.
	in.	in.	in.	in.
January	1·48	1·241	1·331	1·245
February	1·33	·486	·615	·451
March	3·41	2·182	2·342	2·185
April	2·94	1·869	2·274	1·934
May	1·79	·607	·832	·679
June	1·63	·039	·074	·054
July	2·32	·446	·432	·361
August	2·86	·638	·458	·460
September	1·46	·501	·558	·525
October	2·22	1·249	1·117	1·072
November	0·75	·314	·258	·236
December	2·01	1·482	1·515	1·512
Total	24·20	11·054	11·806	10·714

Table of Rainfall and Percolation through Sandy Soil, also Calculated Evaporation therefrom, compared with Evaporation from a Free Water Surface at Cauldhame, Falkirk.

Lat. 56° 0' 37" N. Long. 3° 48' 3" W.

Rain Gauge 73 feet above O.D., and Percolation Gauge 76 feet above O.D.

Mr. David Ronald, C.E.

1908	Rainfall.	Percolation.	Calculated Evaporation from Sandy Soil.	Evaporation from Free Water Surface.
	in.	in.	in.	in.
January	4·34	3·52	0·82	0·75
February ...	2·05	1·22	0·83	0·47
March	3·74	2·86	0·88	0·39
April	1·12	0·46	0·66	1·20
May	2·68	0·97	1·71	1·85
June	1·94	—	1·94	1·86
July	3·35	—	3·35	2·30
August	3·16	—	3·16	2·15
September ...	4·92	2·38	2·54	0·82
October	1·62	0·70	0·92	0·62
November ...	3·31	2·56	0·75	0·24
December ...	2·04	0·94	1·10	0·19
Total	34·27	15·61	18·66	12·84

NOTE.—The Percolation Gauge is filled with one cubic yard of soil, placed in gauge and in same order as dug from the earth, with natural growth of grass on surface. Size of gauge 3 feet square and 3 feet deep. Surface of grass 1 inch below lip of gauge.

EVAPORATION IN 1908.

EVAPORATION.

43

County Station	London, Camden Sq.	Surrey, Croydon, Park Hill Ho.	Sussex, Isfield Place	Hampshire, Otterbourne	Devon, Moretonhampstead, Kennick
Latitude	51° 32' 20" N.	51° 22' 12" N.	50° 56' 50" N.	51° 0' 28" N.	50° 38' 30" N.
Longitude	0 8 10 W.	0 5 32 W.	0 33 40 E.	1 19 55 W.	3 41 20 W.
Altitude	111 ft.	264 ft.	50 ft.	112 ft.	842 ft.
Observer	H. R. Mill, D.Sc.	Baldwin Latham, C.E.	Major H. King.	C. H. Roberts, C.E.	S. C. Chapman, C.E.
Size of tank	6 ft. x 6 ft.	1 ft. diameter	4 ft. x 4 ft.	6 ft. x 6 ft.	6 ft. x 6 ft.
Capacity (galls.)	450	5	250	450	450
Height of lip above ground	3 inches	4 in. above water	3 inches	3 inches	3 inches
January	in. ·05	in. ·09	in. 0·05	in. ·20	in. 0·38
February	·27	·40	·22	·66	·51
March	·56	·68	·88	1·08	1·16
April	1·32	1·38	1·62	1·50	2·04
May	2·23	2·54	2·47	2·23	2·84
June	3·77	3·66	3·87	4·00	4·33
July	2·75	3·17	3·15	3·15	3·60
August	2·47	2·93	3·05	3·44	3·41
September	1·25	1·61	1·51	1·92	1·43
October	·48	1·06	·93	·83	·87
November	·29	·52	·53	·37	·42
December	·14	·18	·33	·52	·22
Year, 1908	15·58	18·22	18·51	19·90	20·45
Average, 1898-1908	16·60	16·54	...	18·97	20·01
Difference	-1·02	+1·68	...	+·93	+·44
Year, 1908	23·67	26·82	24·23	23·60	31·88
Average, 1898-1908	23·56	25·00	...	26·52	38·91
Difference	+·11	+1·82	...	-2·92	-7·03

Note, -C indicates condensation

EVAPORATION IN 1908—(continued).

County	Lincoln, Revesby Water Works	Lancashire, Downholland	Lancashire, Bolton, Heaton	Yorkshire, Wakefield, Stanley Grange	Yorkshire, Ardsley Reservoir
Station	53° 9' N. 0 3 W. 130 ft. J. Shaw.	53° 34' 38" N. 3 1 12 W. 14 ft. J. Baxendell.	53° 34' 55" N. 2 28 21 W. 521 ft. late R. H. Swindelhurst, C. E.	53° 45' N. 1 28 W. 234 ft. H. Stanley Haworth.	53° 43' 10" N. 1 33 20 W. 390 ft. C. C. Smith, C. E.
Latitude.....					
Longitude	6 ft. × 6 ft. 450	6 ft. × 6 ft. 450	6 ft. × 6 ft. 450	6 ft. × 6 ft. 450	6 ft. × 6 ft. 450
Altitude.....	2 inches	3 inches	3 inches	...	3 inches
Observer.....					
Size of tank					
Capacity (galls.)					
Height of lip above ground.....					
January	in. .02	in. .31	in. .19	in. .13	in. .19
February .....	.12	.68	.04	.38	.64
March .....	.64	1.09	.88	.53	.62
April	1.10	2.32	1.85	1.12	1.42
May.....	2.45	3.04	2.42	1.72	2.34
June	2.54	3.27	3.23	2.19	2.90
July	2.44	3.27	3.02	2.16	2.87
August	2.42	3.09	2.57	2.09	2.59
September	1.35	1.69	1.23	1.19	1.36
October .....	.95	1.05	1.11	.69	.70
November .....	.34	.57	.48	.36	.35
December .....	.10	.57	.28	.16	.21
Year, 1908.....	14.47	20.95	17.30	12.72	16.19
Average, } 1898-1908 }	16.16	(21.95)	...	...	...
Difference	-1.69	-1.00	...	...	...
Year, 1908.....	22.18	31.22	44.24	19.69	21.66
Average, } 1898-1908 }	23.74	28.86	42.35	22.65	...
Difference	-1.56	+2.36	+1.89	-2.96	...

County..... Station	Yorkshire, Harrogate, Harlow Moor 54° 0' N. 1 36' W. 480 ft. C. E. Rivers.	Peebles, Talla W. W. Victoria Lodge 55° 29' 41" N. 3 25 2 W. 904 ft. W. A. Tait, C.E. 6 ft. x 6 ft. 450 3 inches	Midlothian, Edinburgh University. ... 240 ft. Prof. T. Hudson Beare.	Stirling, Falkirk, Cauldhame. 56° 0' 37' N. 3 48 3 W. 73 ft. David Ronald, C.E. 8 in. diameter. 1½ 2 in. above water	Mean of Fourteen Stations.
Latitude.....	in. .13	in. .10	in. .28	in. .75	in. .14
Longitude .....	.57	.08	.55	.47	.40
Altitude.....	.78	.12	.67	.39	.72
Observer.....	1.23	1.23	1.28	1.20	1.47
Size of tank	2.11	2.34	1.96	1.85	2.32
Capacity (galls.)	3.51	3.14	3.06	1.86	3.24
Height of lip above ground.....	2.81	2.92	2.86	2.30	2.89
January	2.70	2.55	3.30	2.15	2.77
February	1.41	.98	.83	.82	1.33
March.....	.81	1.03	.68	.62	.84
April .....	.49	.25	.22	.24	.39
May.....	.27	.01	.14	.19	.24
June					
July.....					
August					
September					
October					
November					
December					
Year, 1908	16.82	14.75	15.83	12.84	16.75
Average, 1898-1908 } .....	...	...	...	...	...
Difference .....	...	...	...	..	...
Year, 1908	26.01	40.49	22.60	34.27	28.05
Average, 1898-1908 }	30.26	...	...	...	...
Difference	—4.25	...	...	...	...

THE DURATION OF RAINFALL IN 1908.

WE are happy to have two additional records of duration of rainfall to publish this year, Mr. Walker's at Mount St. John, Thirsk, and Mr. Wyrill's at the Cray reservoir of the Swansea Waterworks. Mr. Walker's record has been watched over with peculiar care, and is, we are convinced, as accurate as the record of any recording gauge can be; the Cray record is of unique importance, as being the only case of a recording gauge in the very wet region of the Brecon mountains. The total quantity of rain as recorded by the latter gauge—the type of which we do not know—is much less than that measured in the standard gauge not far off. This does not necessarily mean that the duration is wrong, as in heavy rain it is quite common for a mechanical gauge to fail to take full account of the fall, although the time record may be fairly correct. The total duration of the year is, as we should expect, the highest; but the figure, 1,026 hours, does not appear to be excessive for the locality, and is only a little in advance of the 933 hours recorded at the Melbury Reservoir in North Devon. The smallest duration for the year was 426 hours at Hodsock Priory; the other records ranging between 438 hours at Croydon, and 636 hours at Southport.

At Camden Square, as the subjoined Table shows, the total duration of rainfall was 501 hours, the greatest since the record began in 1881, except for the altogether exceptional year 1903, when it was 688 hours. The total amount of rain was 1 per cent. below the average for the period, and the total duration 21 per cent. above the average, the result being that the mean rate per hour was only $\cdot 047$ in., the least in the record with the one exception of the dry year 1904, when the duration was 19 per cent. above the average, and the amount 14 per cent. below, the rate per hour coming out as $\cdot 042$ in. The number of rain days was 2 per cent. less than the average, so it is obvious that in 1908 the rain was gentler and more frequent than in any previous year of the record.

We would appeal once more to the owners of recording rain gauges to let us have a copy of the record of duration; or if the labour

of getting out this record is too great, to send us the charts which will be measured and returned. It is almost necessary, in order to have a record worth taking, that the recording gauge should be provided with a drum making a revolution every 24 hours; the measurements on a drum which records the rainfall of a week can hardly ever be taken to a sufficiently close degree to be of value.

Comparison of Amount, Duration and Intensity of Rainfall, and number of Rain Days at Camden Square in 1908 with the Average for 27 years, 1881-1907.

YEAR.	AMOUNT.		DURATION.		INTENSITY.		RAIN DAYS.	
	Total.	Per cent. of average	Total.	Per cent. of average	Rate per Hour.	Per cent. of average	Total.	Per cent. of average
	in.		hours		in.			
1881	27·92	116	486·3	117	·057	98	152	95
1882	27·14	113	480·7	116	·056	96	165	103
1883	24·40	102	393·5	95	·062	106	164	102
1884	20·35	85	336·8	81	·060	103	150	94
1885	26·64	111	470·0	113	·057	98	165	103
1886	27·01	113	427·2	103	·063	108	176	110
1887	19·21	80	300·3	72	·064	110	140	87
1888	27·74	116	435·7	105	·064	110	173	103
1889	23·85	99	428·5	103	·056	96	169	105
1890	21·23	89	409·5	99	·052	89	161	101
1891	28·15	117	490·3	118	·057	97	178	111
1892	22·61	94	372·5	90	·061	105	158	99
1893	19·80	83	388·0	94	·051	87	148	92
1894	27·94	116	477·7	115	·058	99	M 185	115
1895	21·47	90	380·0	92	·057	98	137	85
1896	23·52	98	404·3	98	·058	100	157	98
1897	22·86	95	371·2	90	·062	106	164	102
1898	m 17·69	74	m 298·5	72	·059	101	140	87
1899	22·54	94	337·5	82	·067	115	144	90
1900	23·28	97	366·3	88	·064	109	173	108
1901	22·17	93	310·2	75	M ·071	122	m 128	80
1902	20·84	87	352·5	85	·059	101	162	101
1903	M 38·10	159	M 688·5	166	·055	94	179	112
1904	20·65	86	491·8	119	m ·042	72	160	100
1905	22·97	96	456·4	110	·050	86	162	101
1906	24·26	101	420·4	101	·058	100	163	102
1907	23·01	96	418·8	101	·055	94	175	109
Average.	23·98	100	414·6	100	·058	100	160·3	100
1908	23·67	99	500·7	121	·047	81	157	98
Difference from average	- ·31	- 1	+ 86·1	+21	- ·011	- 19	- 3·3	- 2

Duration of Rainfall at Camden Square in 1908.

111 feet above Sea Level.

DR. H. R. MILL.

1908.	Rainfall.	Duration.	Rate per hour.	Number of rain days.	Rate per rain day.	Duration per rain day.
	in.	hours.	in.		in.	hours.
January	1·93	34·6	·056	10	·19	3·5
February	1·68	28·8	·058	15	·11	1·9
March	2·37	76·4	·031	18	·13	4·2
April	2·38	66·1	·036	18	·13	3·7
May	1·95	29·8	·065	11	·18	2·7
June	1·26	20·8	·061	8	·16	2·6
July	3·36	44·8	·075	12	·28	3·7
August	2·94	48·4	·061	16	·18	3·0
September	1·27	23·9	·053	13	·10	1·8
October	1·95	43·1	·045	10	·20	4·3
November	·69	19·4	·036	10	·07	1·9
December	1·89	64·6	·029	16	·12	4·0
Year	23·67	500·7	·047	157	·15	3·2

*Duration of Rainfall at Park Hill House, Stanhope Road, Croydon,
in 1908.*

265 feet above Sea Level.

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

1908.	Rainfall.	Duration.	Rate per hour.	Number of rain days.	Rate per rain day.	Duration per rain day.
	in.	hours.	in.		in.	hours.
January	1·66	16·6	·100	12	·14	1·4
February	1·23	12·5	·098	17	·07	0·7
March	2·91	58·5	·050	19	·15	3·1
April	2·52	75·9	·033	16	·16	4·7
May	2·01	43·6	·046	15	·13	2·9
June	2·48	19·3	·128	7	·35	2·7
July	3·45	44·8	·077	12	·29	3·7
August	3·40	48·3	·070	14	·24	3·4
September	1·47	20·8	·071	12	·12	1·7
October	2·54	34·1	·074	13	·20	2·6
November	·75	8·8	·085	11	·07	0·8
December	2·40	54·5	·044	18	·13	3·0
Year	26·82	437·7	·061	166	·16	2·6

Duration of Rainfall at Timsbury, Hants, in 1908.

90 feet above Sea Level.

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

1908.	Rainfall.	Duration.	Rate per hour.	Number of rain days.	Rate per rain day.	Duration per rain day.
	in.	hours.	in.		in.	hours.
January	1·53	38·9	·039	14	·11	2·8
February	1·26	30·3	·042	13	·10	2·3
March	3·61	94·9	·038	18	·20	5·3
April ..	2·59	66·6	·039	14	·19	4·8
May	1·71	45·4	·038	13	·13	3·5
June	·65	18·3	·036	6	·11	3·1
July	1·68	37·0	·045	9	·19	4·1
August	3·75	50·7	·074	14	·27	3·6
September	1·73	43·7	·040	13	·13	3·4
October	1·24	25·0	·050	10	·12	2·5
November	1·11	25·0	·044	10	·11	2·5
December	3·26	82·5	·040	20	·16	4·1
Year	24·12	558·3	·043	154	·16	3·6

Duration of Rainfall at Twyford, Hants, in 1908.

139 feet above Sea Level.

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

1908.	Rainfall.	Duration.	Rate per hour.	Number of rain days.	Rate per rain day.	Duration per rain day.
	in.	hours.	in.		in.	hours.
January	1·52	34·8	·044	12	·13	2·9
February	1·26	24·9	·051	13	·10	1·9
March	3·63	76·5	·047	16	·23	4·8
April	2·12	51·0	·042	11	·19	4·6
May	2·04	38·0	·054	14	·15	2·7
June	·89	19·5	·046	6	·15	3·2
July	1·97	34·0	·058	9	·22	3·8
August	3·95	44·6	·088	13	·30	3·4
September	1·86	30·8	·060	17	·11	1·8
October	1·38	35·0	·039	11	·13	3·2
November	1·23	25·5	·048	7	·18	3·7
December	2·95	69·4	·043	17	·17	4·1
Year	24·80	484·0	·051	146	·17	3·3

Duration of Rainfall at Melbury Reservoir, Parkham, Devon, in 1908.

516 feet above Sea Level.

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

1908.	Rainfall.	Duration.	Rate per hour.	Number of rain days.	Rate per rain day.	Duration per rain day.
	in.	hours.	in.		in.	hours.
January ..	3·80	99·0	·038	19	·20	5·2
February ..	3·87	70·9	·055	26	·15	2·7
March ..	4·79	101·8	·047	23	·21	4·4
April ..	2·81	90·0	·031	18	·16	5·0
May ..	2·20	82·8	·027	19	·12	4·4
June ..	1·43	33·6	·043	9	·16	3·7
July ..	3·41	73·3	·047	15	·23	4·9
August ..	5·41	74·3	·073	18	·30	4·1
September ..	2·98	79·0	·038	24	·12	3·3
October ..	1·82	33·3	·055	17	·11	2·0
November ..	3·00	58·3	·052	22	·14	2·6
December ..	5·60	136·7	·041	27	·21	5·1
Year	41·12	933·0	·044	237	·17	3·9

Duration of Rainfall at Hodsock Priory, Notts, in 1908.

56 feet above Sea Level.

LT.-COL. H. MELLISH.

1908.	Rainfall.	Duration.	Rate per hour.	Number of rain days.	Rate per rain day.	Duration per rain day.
	in.	hours.	in.		in.	hours.
January ..	1·02	28·0	·036	13	·08	2·2
February ..	1·41	27·4	·051	15	·09	1·8
March ..	2·80	83·2	·034	20	·14	4·2
April ..	1·95	46·9	·042	17	·11	2·8
May ..	1·99	28·2	·071	16	·12	1·8
June ..	1·60	30·9	·052	8	·20	3·9
July ..	2·44	41·4	·059	13	·19	3·2
August ..	2·14	33·3	·064	15	·14	2·2
September ..	1·80	33·2	·054	16	·11	2·1
October ..	·67	17·3	·039	16	·04	1·1
November ..	1·20	24·6	·049	14	·09	1·8
December ..	1·36	31·3	·043	16	·08	2·0
Year	20·38	425·7	·048	179	·11	2·4

Duration of Rainfall at Hesketh Park, Southport, Lancashire, in 1908.

39 feet above Sea Level.

MR. J. BAXENDELL.

1908.	Rainfall.	Duration.	Rate per hour.	Number of rain days.	Rate per rain day.	Duration per rain day.
	in.	hours.	in.		in.	hours.
January	1·90	45·4	·042	14	·14	3·2
February	2·11	53·2	·040	20	·11	2·7
March	2·47	88·2	·028	17	·15	5·2
April	2·41	52·3	·046	14	·17	3·7
May	2·69	44·0	·061	16	·17	2·8
June.....	1·92	36·4	·053	9	·21	4·0
July	3·46	55·3	·063	16	·22	3·5
August	3·32	42·7	·078	15	·22	2·8
September	4·11	63·6	·065	16	·26	4·0
October	2·61	46·9	·056	12	·22	3·9
November	2·75	41·3	·067	14	·20	3·0
December	2·48	66·6	·037	23	·11	2·9
Year.....	32·23	635·9	·051	186	·17	3·4

Duration of Rainfall at Mount St. John, Thirsk, Yorkshire, in 1908.

542 feet above Sea Level.

MR. A. J. WALKER.

1908.	Rainfall.	Duration.	Rate per hour.	Number of rain days.	Rate per rain day.	Duration of rain days.
	in.	hours.	in.		in.	hours.
January	1·28	29·2	·044	17	·08	1·7
February	2·00	39·0	·051	15	·13	2·6
March	2·75	76·2	·036	19	·14	4·0
April	3·15	74·5	·042	18	·18	4·1
May	1·46	39·1	·037	17	·09	2·3
June.....	·39	13·1	·030	6	·07	2·2
July	3·94	60·4	·065	14	·28	4·3
August.....	1·73	40·2	·043	16	·11	2·5
September	2·45	52·7	·047	18	·14	2·9
October	1·12	38·1	·029	12	·09	3·2
November	1·55	28·0	·055	13	·12	2·2
Decemeber	1·31	51·2	·026	17	·08	3·0
Year.....	23·13	541·7	·043	182	·13	3·0

Duration of Rainfall at Cray Reservoir, Breconshire, in 1908.

1,030 feet above Sea Level.

MR. R. H. WYRILL, C.E.

1908.	Rainfall.	Duration.	Rate per hour.	Number of rain days.	Rate per rain day.	Duration per rain day.
	in.	hours.	in.		in.	hours.
January	6·36	102·8	·062	13	·49	7·9
February	4·88	60·5	·080	20	·24	3·0
March	7·15	100·2	·071	20	·36	5·0
April	2·86	64·8	·044	13	·22	5·0
May	5·33	82·7	·064	20	·27	4·1
June	1·84	31·0	·059	5	·37	6·2
July	6·17	76·5	·080	13	·47	5·9
August	7·67	78·8	·097	15	·51	5·3
September	4·37	136·2	·032	20	·22	6·8
October	2·59	60·3	·043	12	·22	5·0
November	5·32	82·0	·065	16	·33	5·1
December	7·18	150·5	·047	24	·30	6·3
Year.....	61·72	1026·3	·060	191	·32	5·4

Duration of Rainfall at Cauldhame, Falkirk, Stirlingshire, in 1908.

73 feet above Sea Level.

MR. DAVID RONALD, C.E.

1908.	Rainfall.	Duration.	Rate per hour.	Number of rain days.	Rate per rain day.	Duration per rain day.
	in.	hours.	in.		in.	hours.
January	4·34	73·0	·059	16	·27	4·6
February.....	2·05	59·0	·035	17	·12	3·5
March	3·74	119·0	·031	19	·20	6·3
April	1·12	8·5	·132	14	·08	0·6
May	2·68	17·0	·158	20	·13	0·8
June.....	1·94	21·5	·090	9	·22	2·4
July	3·35	30·0	·112	14	·24	2·1
August	3·16	27·0	·117	14	·23	1·9
September	4·92	39·0	·126	20	·25	1·9
October	1·62	23·5	·069	15	·11	1·6
November	3·31	33·0	·100	21	·16	1·6
December	2·04	26·5	·077	20	·10	1·3
Year.....	34·27	477·0	·072	199	·17	2·4

REPRESENTATIVE RECORDS OF DAILY RAINFALL in 1908.

REGISTER OF RAINFALL IN 1908

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

Lat. 51° 32' 20" N. Long. 0° 8' 10" W.

By DR. H. R. MILL.

RAIN GAUGE... { Diameter, 8 in.
Height of top above Ground, 9 in.
" " " Sea Level, 111 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	...	...	·14	...	...	·47	...	...	·12	...	...	...	1
2	...	·01	·03	...	·34	...	...	...	·17	...	...	...	2
3	...	·04	·22	·01	·18	...	·48	...	·67	...	...	...	3
4	...	...	...	·03	·01	·26	·33	...	·04	...	...	·08	4
5	...	...	·26	·13	·12	·01	...	·09	...	...	...	·02	5
6	...	...	·04	·03	·01	...	...	...	...	...	...	·16	6
7	1·39	...	·03	...	·08	·01	·01	...	...	...	...	...	7
8	·13	...	·06	...	...	·03	·18	...	...	...	...	·13	8
9	...	...	·04	·04	...	...	·23	...	·04	·30	...	·12	9
10	...	...	·05	·01	...	...	·03	·20	...	...	·02	·15	10
11	...	...	...	·02	·25	...	...	·02	...	...	·08	...	11
12	...	...	...	...	...	...	·59	·06	...	...	·09	·15	12
13	·01	·01	...	...	...	·02	·19	·01	...	...	·04	·05	13
14	...	...	...	...	·23	...	...	...	...	...	...	·24	14
15	...	·07	·02	...	·09	...	·09	...	·07	...	...	...	15
16	·04	·31	·04	...	...	·44	·81	...	...	·50	·01	·06	16
17	...	·26	...	...	...	·02	·39	...	...	...	...	·10	17
18	...	·19	·03	...	...	...	·03	...	...	·40	·09	...	18
19	...	...	...	·15	...	...	...	...	...	...	...	·09	19
20	...	·07	...	·01	...	...	...	·54	·02	·17	...	...	20
21	...	...	...	·04	...	...	...	·03	...	...	·22	...	21
22	...	·10	·10	·05	...	...	...	·35	·02	...	·09	...	22
23	·01	·01	...	·67	...	...	...	·73	·02	...	...	...	23
24	...	·23	·07	·03	...	...	...	·06	·02	·01	·03	...	24
25	...	·18	·83	·11	...	...	...	·01	·05	·06	...	...	25
26	·17	·07	...	...	...	...	...	·16	...	·12	...	...	26
27	...	·06	·10	·29	...	...	...	·08	·01	·37	...	·05	27
28	·11	·07	...	·54	...	...	...	·14	...	·01	...	·03	28
29	·01	...	·08	·13	·60	...	...	·16	...	...	·02	·38	29
30	·03	...	·23	·09	...	...	...	·01	...	·01	...	...	30
31	...	...	...	...	·04	...	...	·31	...	...	...	·08	31
Totals	1·93	1·68	2·37	2·38	1·95	1·26	3·36	2·94	1·27	1·95	·69	1·89	Totals
Totals from Jan. 1	1·93	3·61	5·98	8·36	10·31	11·57	14·93	17·87	19·14	21·09	21·78	23·67	Totals from Jan. 1
Rain Days	10	15	18	18	11	8	12	16	13	10	10	16	Total 157

Average of 51 years 25·05 in.

REGISTER OF RAINFALL IN 1908

Kept at Penzance, Morrab Gardens, 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.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	...	·03	·10	·03	...	·01	...	...	·02	...	...	...	1
2	...	·04	·17	·07	·10	...	...	...	·38	...	...	·03	2
3	...	·03	·07	...	·06	...	...	...	·12	...	...	·07	3
4	...	...	...	·03	·08	...	...	...	...	...	...	...	4
5	·14	·01	·79	...	·17	...	...	...	...	...	...	·13	5
6	·19	·02	·08	...	·01	...	·13	...	...	·03	...	·07	6
7	·25	...	·19	...	·02	...	·27	...	·04	·02	...	·03	7
8	·15	...	·16	...	·01	...	·02	...	·28	·08	...	·49	8
9	...	·01	·08	...	...	...	·37	...	·09	...	...	·50	9
10	...	...	·02	·11	...	...	...	...	·01	...	·26	·34	10
11	...	...	·09	...	·09	·16	·10	...	·12	...	·13	·08	11
12	...	...	...	...	·33	...	...	...	...	...	·02	·39	12
13	·01	...	·72	·12	·49	·05	·27	·01	...	...	·12	·05	13
14	...	·33	·23	·03	·43	...	·19	...	·11	...	...	·35	14
15	·08	·20	·16	...	·02	·09	·42	·02	...	1·56	...	·93	15
16	·06	·84	·09	...	...	...	·40	...	...	·21	·04	·15	16
17	·01	·10	·05	...	...	·59	·03	...	...	·65	·01	·18	17
18	·06	·02	...	...	...	...	...	·02	·02	·01	·19	·11	18
19	·02	...	...	·02	·01	·02	·02	·41	·63	·01	·03	·09	19
20	...	·02	...	...	...	...	...	·36	...	·33	·02	·05	20
21	...	·01	·55	·05	·01	...	...	·32	·90	·04	·20	·02	21
22	...	·10	·07	·06	·01	...	...	·18	·20	...	·05	...	22
23	...	·26	·17	·06	...	...	...	·07	·02	...	...	...	23
24	·04	·03	·50	·04	·11	...	·21	·25	...	...	·09	...	24
25	·01	·01	...	·17	·01	...	...	·03	·39	...	·05	...	25
26	·10	·07	...	·44	...	...	...	·74	·29	·01	...	·47	26
27	·07	·39	·42	·33	...	...	...	1·39	·08	·05	...	·12	27
28	·09	·14	·02	·09	...	...	...	·08	·01	·01	·39	1·91	28
29	·09	·22	·26	·50	...	·12	...	·20	...	...	...	·03	29
30	·14	...	·20	·01	·01	·17	...	·04	...	·20	...	·26	30
31	·01	...	·29	...	·16	...	...	·60	...	·01	...	·02	31
Totals	1·52	2·88	5·48	2·16	2·13	1·21	2·43	4·72	3·71	3·22	1·60	6·87	Totals
Total from Jan. 1	1·52	4·40	9·88	12·04	14·17	15·38	17·81	22·53	26·24	29·46	31·06	37·93	Total from Jan. 1
Rain Days	18	21	24	17	19	8	12	16	18	15	14	25	Total 207

Average of 15 years 39·91 in.

REGISTER OF RAINFALL IN 1908

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

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

By REV. H. A. BOYS, F.R.Met.Soc.

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.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	...	·01	·03	...	...	·08	...	...	·36	·01	...	...	1
2	...	·02	·04	·03	·13	...	...	...	·21	...	...	...	2
3	...	·02	·30	·02	...	·03	...	...	·30	·01	...	...	3
4	...	...	·01	·01	·19	...	...	...	...	...	...	·04	4
5	·04	...	·61	...	·09	...	...	...	...	...	...	·15	5
6	·04	·01	·03	...	·03	...	...	...	...	...	...	·01	6
7	·69	·01	·03	...	...	...	·02	...	...	...	...	...	7
8	·01	...	·08	...	·03	...	·13	...	·03	·18	...	·34	8
9	...	...	·10	...	...	...	·33	...	·06	·14	...	·18	9
10	...	...	...	...	·03	...	·04	...	·05	·02	...	·66	10
11	...	...	·06	·09	·02	·02	·04	...	...	...	·12	...	11
12	...	·02	...	...	·24	·02	...	...	...	...	·21	·06	12
13	·01	·01	...	...	·20	...	·06	...	...	...	·23	·05	13
14	·01	...	·08	...	·21	...	·23	...	·04	·01	...	·26	14
15	...	·03	·05	...	·09	·02	·02	...	·15	·02	...	·03	15
16	·02	·32	...	...	...	·12	·74	...	·02	·01	...	·16	16
17	...	·12	...	...	...	...	·03	...	...	·06	...	·01	17
18	·01	...	...	...	...	...	...	...	·13	·54	·13	·09	18
19	·01	·01	...	·01	...	...	...	·02	·29	·51	...	·10	19
20	...	...	...	...	...	...	...	·08	·49	·30	·01	·01	20
21	·01	·03	...	...	·05	...	...	·05	·01	·13	·23	·06	21
22	...	·02	·41	·13	·01	...	...	·26	·13	...	·09	...	22
23	...	·06	·03	·20	...	...	...	·33	·11	·01	...	...	23
24	·01	...	·47	·65	·04	...	...	·07	...	·01	·08	...	24
25	...	...	·01	...	·11	...	...	·01	·14	...	...	...	25
26	·05	·13	...	...	...	...	...	·31	·01	·13	·01	·02	26
27	·01	·19	·16	·48	...	...	...	·18	·08	·10	...	·10	27
28	·17	·14	...	·36	...	...	...	·46	...	·02	·12	·16	28
29	·03	...	·12	·53	·19	...	...	·05	...	·01	·07	·52	29
30	·03	...	·24	·02	...	...	...	·23	...	...	...	·23	30
31	...	...	·02	...	·28	...	...	·46	...	...	...	·06	31
Totals	1·15	1·15	2·88	2·53	1·94	·29	1·64	2·51	2·61	2·22	1·30	3·30	Totals
Totals from Jan. 1	1·15	2·30	5·18	7·71	9·65	9·94	11·58	14·09	16·70	18·92	20·22	23·52	Totals from Jan. 1
Rain Days	16	17	20	12	17	6	10	13	18	19	11	22	Total 181

Average of 12 years..... 29·25 in.

REGISTER OF RAINFALL IN 1908

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

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

By LT.-COL. HENRY MELLISH, Pres. R.Met.Soc.

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	...	...	·19	...	...	·29	...	...	·05	·01	...	...	1
2	...	...	·05	·03	·08	...	...	...	·04	·01	...	...	2
3	...	·01	·03	...	·60	·51	...	...	·44	...	...	...	3
4	...	...	·16	·26	·05	...	·08	·01	...	...	...	·03	4
5	·04	...	·27	·11	·08	...	·20	·07	...	...	...	...	5
6	·15	...	·29	·07	·07	...	·01	...	...	...	·01	·01	6
7	·15	...	·06	...	·15	...	·05	...	...	...	...	...	7
8	·30	·01	·11	...	...	...	·64	...	...	·10	·01	·13	8
9	·03	...	·01	·06	...	·01	·30	...	·13	·01	...	·22	9
10	...	...	·07	...	...	...	·08	·05	...	...	·06	·05	10
11	...	...	...	...	·01	·05	·03	·06	...	...	·16	...	11
12	...	...	...	...	·45	...	·20	·02	...	·01	·24	·03	12
13	...	...	...	·01	·11	·08	·11	...	...	...	·15	...	13
14	...	...	...	...	·19	...	·01	...	...	...	·03	·01	14
15	·05	·14	·03	...	·05	·01	·17	...	·25	...	...	·51	15
16	...	·28	...	...	...	·35	·46	...	·08	·03	...	·05	16
17	...	·02	...	...	...	·30	·18	...	...	...	...	·04	17
18	...	...	...	·03	...	...	...	...	·50	·03	...	...	18
19	...	...	·06	·13	...	...	...	...	...	·03	...	·03	19
20	...	·03	·04	·02	·02	...	...	·61	·09	·09	...	...	20
21	...	·02	...	...	...	...	...	·17	·03	...	·12	...	21
22	·01	·26	·09	·08	·03	...	...	·01	·02	·02	·10	·01	22
23	...	·13	...	·12	...	...	...	·10	·01	·03	...	...	23
24	...	·01	·26	·07	...	...	...	·14	·02	·02	·21	...	24
25	·01	·01	·72	·13	·01	...	...	·02	·05	·03	·07	...	25
26	·03	·01	·01	...	...	...	...	·17	·02	·09	·02	...	26
27	·13	·31	·10	·01	...	...	...	·04	·02	·15	...	...	27
28	·08	·09	...	·50	...	...	...	...	...	...	·01	·02	28
29	...	·08	·14	·19	·07	...	...	·04	...	...	...	·12	29
30	·02	...	·11	·13	·02	...	...	...	...	·01	·01	·08	30
31	·02	...	...	...	...	...	...	·60	...	...	...	·02	31
Totals	1·02	1·41	2·80	1·95	1·99	1·60	2·44	2·14	1·80	·67	1·20	1·36	Totals
Total from Jan. 1	1·02	2·43	5·23	7·18	9·17	10·77	13·21	15·35	17·15	17·82	19·02	20·38	Total from Jan. 1
Rain Days	13	15	20	17	16	8	13	15	16	16	14	16	Total 179

Average of 33 years..... 24·26 in.

REGISTER OF RAINFALL IN 1908

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	...	...	·15	·10	...	·10	...	...	·05	...	...	...	1
2	...	·71	·10	·85	·80	·20	...	...	...	...	...	...	2
3	...	·05	...	·36	·18	...	·12	...	·12	...	...	...	3
4	...	...	...	·22	·30	...	·20	·22	...	...	...	·02	4
5	2·87	·02	1·07	·01	1·34	...	·05	...	1·10	...	...	·99	5
6	·92	...	·46	...	·22	...	·01	...	1·90	...	...	·04	6
7	·70	·03	·77	...	·45	·10	...	...	·25	...	...	·41	7
8	·02	·10	1·50	...	1·60	·03	·92	·02	1·76	·41	...	2·06	8
9	...	·23	·71	·07	·10	·05	·37	1·14	·86	·68	...	1·05	9
10	...	·03	·45	...	·07	·06	·04	·50	·43	·21	·27	·36	10
11	...	·01	...	...	·05	·60	·46	·53	...	...	·60	...	11
12	...	...	...	...	...	·71	·05	·13	·03	...	·61	·21	12
13	...	·15	·10	...	·10	4·55	·10	...	1·35	...	·84	·64	13
14	·20	1·75	·01	...	·40	...	·01	...	2·91	·02	...	·86	14
15	3·30	·15	...	...	·02	1·03	·79	...	·25	...	...	...	15
16	1·85	·65	...	...	·29	...	2·30	...	2·56	...	·83	·62	16
17	1·15	·37	...	·10	·60	·25	·38	...	·16	...	·39	·51	17
18	·03	·09	·03	...	·30	·03	...	...	·10	·53	1·85	·25	18
19	·23	·22	...	·01	·22	·30	...	...	...	1·25	...	·27	19
20	...	·77	...	·02	...	...	...	·34	·36	·15	·15	·29	20
21	...	·74	...	...	·15	...	...	·51	...	...	3·31	·49	21
22	...	·86	1·38	·15	...	...	·13	·13	·01	...	·64	1·10	22
23	·05	·50	·03	...	...	...	...	·15	...	...	·39	·01	23
24	·10	·06	·35	·01	·43	...	·59	1·82	·01	...	·33	...	24
25	1·15	·10	·15	·26	·10	...	1·35	·80	1·01	...	·41	...	25
26	3·13	·72	·03	·14	...	...	...	3·99	1·10	·05	·22	·10	26
27	·30	·22	1·25	·03	...	...	·12	1·51	·01	·31	·20	·02	27
28	·25	·96	1·15	1·02	...	...	...	·48	·84	1·01	1·22	·60	28
29	...	...	·73	·42	...	...	·20	·36	...	·01	...	·45	29
30	·36	...	1·00	·65	·26	...	·01	·15	...	·25	...	...	30
31	·21	...	·15	...	...	...	...	1·65	...	...	...	·80	31
Totals	16·82	9·49	11·57	4·42	7·98	8·01	8·20	14·43	17·17	4·88	12·26	12·15	Totals
Total from Jan. 1	16·82	26·31	37·88	42·30	50·28	58·29	66·49	80·92	98·09	102·97	115·23	127·38	Total from Jan. 1
Rain Days	18	24	21	17	21	13	20	18	22	12	16	23	Total 225

Average of 28 years..... 129·33 in.

REGISTER OF RAINFALL IN 1908

Kept at Strata Florida, Hafod, in the County of Cardigan,

Lat. 52° 20' 50" N. Long. 3° 49' 25" W.

By T. J. WADDINGHAM, Esq.

RAIN GAUGE... { Diameter, 5 in.
 Height of top above Ground, 1 ft.
 " " " Sea Level, 580 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	...	·05	·07	...	·02	·45	...	...	·18	...	...	...	1
2	...	·07	·03	·07	...	·20	...	...	·04	...	...	·11	2
3	...	·22	·06	·08	·03	·94	...	...	·17	...	...	·02	3
4	...	·08	·07	·12	...	·01	...	·03	...	...	...	·28	4
5	...	...	...	·12	...	·09	...	·01	...	...	...	·26	5
6	·27	·03	·67	...	·47	...	...	...	·02	...	...	·06	6
7	·52	·06	·31	...	·09	·18	·53	...	...	...	...	·65	7
8	·82	·02	·20	...	·68	...	1·28	...	·53	·15	...	·15	8
9	·02	...	·26	·02	·13	·13	1·15	·03	1·52	·05	...	·55	9
10	...	·05	·40	...	·08	·02	·04	·09	·78	...	·14	·38	10
11	...	·05	·22	·08	...	·47	·52	...	·14	...	·30	·07	11
12	...	·01	·02	·05	...	·01	·03	...	...	...	·48	·33	12
13	...	...	...	...	·38	·46	·04	·05	·04	...	·34	·49	13
14	...	·11	·10	·02	·45	·27	·18	...	·33	·05	·09	1·10	14
15	...	·30	·02	·01	·15	...	·15	...	...	·08	·02	·08	15
16	·87	·35	·15	...	·12	...	1·74	...	·54	·01	·08	·40	16
17	·51	·55	·07	...	...	·08	·32	...	·01	·06	...	·30	17
18	·08	1·22	...	...	...	·02	...	...	·04	·12	·58	·35	18
19	...	·30	·01	...	...	...	·04	...	·06	·19	·05	·17	19
20	·01	·35	...	·01	...	...	...	·23	·07	·14	...	·02	20
21	...	·26	...	·04	...	...	...	·04	...	...	1·40	...	21
22	...	·16	·18	·13	·35	...	...	·57	...	...	·13	...	22
23	...	·11	·61	...	·12	...	·04	·99	·13	...	·03	...	23
24	...	·06	·03	...	...	...	·24	·34	...	...	·53	...	24
25	·04	·32	1·12	·65	·08	...	·07	·26	·42	...	·13	·02	25
26	·11	·22	·02	·03	·15	...	...	1·65	·10	...	·07	·05	26
27	·85	·73	...	...	...	...	...	·33	...	·02	·40	·12	27
28	·03	·22	·30	·52	...	...	...	·50	·03	·33	...	·07	28
29	·54	·57	·03	·42	...	...	...	·05	...	...	...	·07	29
30	·07	...	·40	·57	...	...	·02	·18	...	·30	...	·15	30
31	·33	...	·48	...	·06	...	...	·56	...	...	...	...	31
Totals	5·07	6·47	5·83	2·94	3·64	3·33	6·39	5·91	5·15	1·50	4·77	6·25	Totals
Total from Jan. 1	5·07	11·54	17·37	20·31	23·95	27·28	33·67	39·58	44·73	46·23	51·00	57·25	Total from Jan. 1
Rain Days	15	26	25	17	17	14	16	17	19	12	16	25	Total 219

Average of 17 years..... 53·94 in.

REGISTER OF RAINFALL IN 1908

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.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	...	·04	·11	·01	·05	·05	...	...	·13	...	...	...	1
2	...	·01	·24	·02	·04	·02	...	·02	·05	...	·11	...	2
3	·02	·04	·48	·14	·19	...	·04	...	·03	...	·03	...	3
4	...	...	·09	·26	·32	·03	...	·14	...	...	·08	·07	4
5	·16	...	·10	·04	·03	·03	...	·02	·10	...	·05	·05	5
6	·01	...	·43	...	·07	...	...	...	·50	·02	·10	...	6
7	·67	·07	·07	·02	...	·07	...	...	·63	...	·09	·02	7
8	·06	...	·33	·43	·15	·08	·04	·05	·28	·03	...	...	8
9	...	·02	·12	·22	...	...	·24	·30	·40	...	...	...	9
10	...	...	·11	...	...	...	·22	·03	·06	...	...	·24	10
11	...	...	·07	·03	...	·60	·03	·02	·16	...	·22	1·01	11
12	...	...	·03	...	·02	·20	...	...	...	...	·18	·14	12
13	...	...	...	...	...	·06	...	...	·13	...	·10	...	13
14	·02	·01	·10	...	·06	·06	·02	...	·27	...	·10	·22	14
15	·04	...	...	...	·05	·05	·03	...	·22	...	...	...	15
16	...	·08	·02	...	·08	·02	·60	...	·33	...	...	·02	16
17	·04	·12	...	·06	...	...	·37	·03	...	·20	...	...	17
18	...	·03	·03	·02	...	·09	·03	...	·03	·40	·07	...	18
19	...	...	·02	·07	...	·19	·01	...	...	2·06	·03	·07	19
20	...	...	...	·04	...	...	...	·03	·10	...	...	...	20
21	...	...	...	·02	·31	...	...	...	·06	...	·22	...	21
22	...	·10	·14	·07	·14	...	...	·45	·04	...	·07	...	22
23	...	·15	...	·01	...	...	...	·03	...	...	...	·03	23
24	·02	·14	·61	...	·02	...	·01	·33	...	...	·01	...	24
25	...	·16	·31	...	...	·09	·55	·07	·03	...	·02	...	25
26	·03	·06	...	·28	...	...	...	·31	·03	·08	...	·28	26
27	...	·01	·40	...	...	...	...	...	...	·23	...	1·05	27
28	·08	·11	...	...	...	...	...	·03	...	...	·08	·90	28
29	·04	·26	·02	...	...	...	·12	·08	...	...	...	·80	29
30	·06	...	·21	·30	...	...	...	·02	...	·16	...	·05	30
31	·19	...	·05	...	...	...	...	·80	...	...	...	...	31
Totals	1·44	1·41	4·09	2·04	1·53	1·64	2·31	2·73	3·61	3·18	1·63	4·95	Totals
Total from Jan. 1	1·44	2·85	6·94	8·98	10·51	12·15	14·46	17·19	20·80	23·98	25·61	30·56	Total from Jan. 1
Rain Days	14	17	23	18	14	15	14	17	21	8	18	15	Total 194

Average of 22 years..... 31·72 in. .

REGISTER OF RAINFALL IN 1908

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

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.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	...	·16	·14	·65	...	·19	...	...	·30	...	...	...	1
2	...	·96	...	1·24	·06	·27	...	...	·26	...	·02	...	2
3	...	·13	...	·95	·17	·25	...	·43	...	...	...	·18	3
4	1·04	·22	...	·16	·13	·15	...	·11	...	...	...	·38	4
5	1·16	1·00	·52	...	·04	·04	...	...	3·26	·02	...	1·74	5
6	·16	·40	·16	...	·26	...	...	...	1·22	...	...	·24	6
7	·26	·60	·34	·20	·05	·59	...	·06	·90	·31	...	2·31	7
8	...	·66	1·82	·58	1·18	·52	·17	·12	1·34	·24	...	·96	8
9	...	·50	1·03	·24	·18	·11	...	2·56	·29	·71	...	·90	9
10	·12	·13	·30	...	·02	2·35	·36	·24	·02	·76	·06	·24	10
11	·56	·66	...	·10	·04	1·42	1·35	·06	...	·02	·84	·46	11
12	...	·45	...	...	·06	·86	·26	·02	·12	...	·45	·68	12
13	·36	·68	...	...	·10	·12	...	...	1·25	·06	·06	·42	13
14	·72	·52	...	...	...	·06	...	·10	·16	·25	·02	·56	14
15	2·46	·04	...	...	...	·98	·16	...	·19	·34	1·35	·54	15
16	1·45	·06	...	...	·76	·07	·04	...	1·62	·05	·95	·36	16
17	·74	·60	...	...	·42	...	...	...	·26	·06	1·05	·66	17
18	·40	·23	...	·06	·48	·38	...	...	·08	·21	·06	·42	18
19	·16	·34	...	...	·06	·23	·06	...	·16	·03	·50	1·26	19
20	...	1·25	...	...	...	...	·26	...	·20	·04	·30	·15	20
21	...	1·32	...	...	...	...	·42	...	...	...	1·85	1·48	21
22	·58	·90	·34	·07	·62	·34	...	·30	·15	...	·75	·78	22
23	...	·70	·50	·04	...	...	·20	·08	·02	...	·36	·12	23
24	·54	·42	·22	...	...	...	·46	·50	...	...	1·23	·06	24
25	1·62	·52	·37	...	...	...	·10	·06	·23	...	·67	·28	25
26	·46	·88	...	...	·06	...	·05	·78	·41	...	·16	·06	26
27	1·52	·40	·09	...	·02	...	·28	1·26	·05	...	·90	...	27
28	·66	·35	1·29	...	...	...	·02	·92	·72	...	·16	·26	28
29	·31	·56	1·10	·02	·15	...	1·41	·54	·90	·12	·06	·08	29
30	·29	...	1·74	·34	...	...	·21	·64	...	·25	...	·15	30
31	·22	...	·25	...	...	...	·10	·22	...	...	...	·86	31
Totals	15·79	15·64	10·21	4·65	4·86	8·93	5·91	9·00	14·36	3·47	11·80	16·59	Totals
Total from Jan. 1	15·79	31·43	41·64	46·29	51·15	60·08	65·99	74·99	89·35	92·82	104·62	121·21	Total from Jan. 1
Rain Days	22	29	16	13	20	18	18	19	25	16	21	28	Total 245

Average of 41 years..... 106·77 in.

REGISTER OF RAINFALL IN 1908

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.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1	...	·02	·02	·09	...	·01	...	...	·13	·03	·22	...	1
2	...	·01	·01	·02	·10	·01	·01	...	·56	...	·01	...	2
3	...	·03	...	·03	...	...	...	...	·09	...	·02	·21	3
4	...	·02	·10	·01	·39	·01	...	·01	...	...	...	·32	4
5	·15	·14	·46	·01	·11	...	...	...	·01	...	...	·45	5
6	1·25	·12	·09	...	·01	...	...	...	·01	·01	...	·11	6
7	·08	·03	·08	...	1·01	·03	·43	...	·65	·06	...	·13	7
8	...	·10	·26	·22	·12	·20	·12	·17	·90	·18	...	·30	8
9	...	·09	·04	...	·16	...	·14	·26	·03	·16	·01	·41	9
10	...	·10	...	·26	·01	·40	·07	·01	...	·01	·30	·18	10
11	...	·01	...	...	·09	·08	·01	...	...	...	·01	·02	11
12	·01	...	·20	·10	·29	·51	·40	·13	·02	...	·15	·39	12
13	·02	·21	·10	·02	·12	·15	·01	...	·85	...	·40	·17	13
14	·35	·60	·11	...	...	·09	·08	...	·60	...	...	·21	14
15	·55	·02	·01	...	·04	·01	·56	·03	1·03	...	·18	...	15
16	·65	·62	·12	...	·05	·01	·14	...	·08	·01	...	·34	16
17	·01	·06	·06	·01	·07	·03	·01	...	·06	·28	·08	·21	17
18	...	·07	...	...	·23	·15	...	...	·14	...	·08	·25	18
19	·14	·06	...	·01	...	...	·05	...	·15	·08	·15	·08	19
20	...	·06	·52	·02	·04	...	...	·05	...	·46	·01	·01	20
21	...	·13	·04	·01	·30	·04	·06	·22	·08	...	·40	·14	21
22	·13	·03	·08	·02	·04	·11	·20	2·14	·01	...	·02	·22	22
23	·19	·04	·12	·08	·28	...	·10	·11	·02	...	·05	...	23
24	·15	·03	...	·07	·16	...	·38	·09	...	...	·41	...	24
25	·36	·22	...	·04	·01	...	·01	·05	·60	...	·24	·26	25
26	·26	·04	·03	·02	·01	...	·02	·81	·02	...	·03	·25	26
27	·12	·09	·01	·03	...	...	·01	·33	·04	...	·01	·62	27
28	·04	·03	·33	·02	...	...	...	·24	·31	·05	...	·68	28
29	·05	·10	·25	·43	...	...	·19	·23	1·07	·37	...	·13	29
30	·03	...	·10	·01	·01	...	...	·03	·02	·01	...	·12	30
31	·02	...	·09	...	·12	...	·01	·48	...	·02	...	·17	31
Totals	4·56	3·08	3·23	1·53	3·77	1·84	3·01	5·39	7·48	1·73	2·78	6·38	Totals
Total from Jan. 1	4·56	7·64	10·87	12·40	16·17	18·01	21·02	26·41	33·89	35·62	38·40	44·78	Total from Jan. 1
Rain Days	20	28	24	22	24	16	22	18	25	14	20	26	Total 259

Average of 34 years..... 45·24 in.

REGISTER OF RAINFALL IN 1908

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. 4½ in.
 „ „ „ Sea Level, 150 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	...	·04	...	·03	...	·35	...	...	·04	...	·11	...	1
2	...	·14	·07	·28	·12	·65	...	...	...	...	...	...	2
3	...	·04	...	·45	·04	...	...	...	·10	...	...	·18	3
4	...	...	...	·02	·08	...	...	·08	...	...	...	·19	4
5	·36	·02	1·12	...	·09	·05	·05	...	·04	...	...	·15	5
6	·62	·09	·24	...	·17	...	·07	...	·12	·08	·04	...	6
7	·72	·02	·28	·02	·14	·23	·32	...	·55	·10	...	·10	7
8	...	·03	·10	·08	·26	·14	·14	...	·20	·22	...	...	8
9	...	·04	·35	·02	·04	·02	·10	·30	·22	·04	...	·12	9
10	...	·02	·24	·15	...	·18	·26	·27	·10	·03	·31	·19	10
11	...	...	·03	·02	·08	·56	1·13	·15	·15	...	·10	·15	11
12	...	...	...	...	·03	·39	...	·04	·04	...	·19	·24	12
13	·03	·04	·18	...	·16	·41	·31	...	·18	...	·20	·03	13
14	·14	·17	·02	·05	·15	...	·03	...	·28	...	·03	·12	14
15	·15	·12	·23	·04	·02	·08	·32	...	·13	·04	...	...	15
16	·08	·40	·05	...	·03	·05	·40	...	·35	·26	·06	·16	16
17	·14	·18	·08	·03	...	·03	·03	...	·42	·07	·02	·06	17
18	...	·06	·10	·04	·26	·08	...	...	·04	·46	·41	·11	18
19	·04	·10	...	·02	...	...	·09	...	·63	·05	·12	·15	19
20	...	·11	...	·09	...	...	...	·10	·05	·26	·05	·02	20
21	·07	·22	·06	...	·05	...	·04	·08	·16	...	·62	·18	21
22	·03	·21	·15	·02	...	·22	·11	·04	...	...	·31	·19	22
23	·21	·18	·12	·35	·02	...	·05	·08	·02	...	·10	·04	23
24	·02	·14	·18	·16	·30	...	·20	·52	...	...	·41	...	24
25	·36	·15	·06	·02	·02	...	·21	·08	·27	...	·18	...	25
26	·09	·18	·03	...	...	...	·02	·68	·28	...	·03	·65	26
27	·18	·15	·35	·83	...	...	·03	·16	·03	·07	·48	·08	27
28	·10	·55	·16	·51	...	...	...	·37	·13	·09	·04	1·00	28
29	·15	·11	·08	·40	...	...	·03	·12	·09	·07	...	·13	29
30	·08	...	·48	·08	...	...	...	·05	...	·08	...	·12	30
31	·09	...	·03	...	·06	...	...	·46	...	·02	...	·03	31
Totals	3·66	3·51	4·79	3·71	2·12	3·44	3·94	3·58	4·62	1·94	3·81	4·39	Totals
Total from Jan. 1	3·66	7·17	11·96	15·67	17·79	21·23	25·17	28·75	33·37	35·31	39·12	43·51	Total from Jan. 1
Rain Days	20	26	25	23	20	15	21	17	25	16	20	24	Total 252

Average of 32 years..... 40·87 in.

RAINFALL AT THE ROYAL OBSERVATORY, GREENWICH.

Lat., 51° 28' 38" N. Long., 0° 0'

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

1908	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.	In Magnetic Pavilion enclosure.
Height above Ground. }	...	50ft. 8in.	50ft. 8in.	38ft. 4in.	21ft. 6in.	10ft. 0in.	5in.	5in.	1ft. 0in.
Height above Mean Sea Level. }	...	205ft.	205ft.	193ft.	176ft.	165ft.	150ft.	155ft.	150 ft.
January	9	in. 0·403	in. 0·416	in. 0·694	in. 0·807	in. 1·015	in. 1·508	in. 1·101	in. 1·515
February.....	13	0·525	0·526	0·910	1·091	1·342	1·459	1·404	1·462
March	17	1·106	1·240	1·679	1·789	2·058	2·223	2·102	2·186
April.....	15	0·918	1·132	1·540	1·732	2·120	2·103	1·996	2·046
May.....	15	0·831	1·027	1·285	1·340	1·445	1·527	1·455	1·499
June	6	1·718	1·984	2·024	2·012	2·051	2·066	2·066	2·061
July.....	12	2·616	2·772	3·278	3·544	3·648	3·664	3·691	3·614
August	14	2·026	2·249	2·637	3·076	3·260	3·283	3·251	3·229
September	12	0·701	0·845	1·037	1·161	1·222	1·219	1·176	1·186
October	10	1·434	1·667	1·818	1·939	2·015	1·965	1·908	1·907
November	12	0·348	0·377	0·613	0·592	0·717	0·764	0·740	0·752
December	15	1·138	1·298	1·572	1·758	1·889	2·003	1·848	1·964
Yearly Sums. ...	150	13·764	15·533	19·087	20·841	22·782	23·784	22·738	23·421
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 new gauge of the Standard Meteorological Office pattern added in January, 1908.

1909, January 15.

W. H. M. CHRISTIE.

THE STAFF OF OBSERVERS.

WE have to record a greater increase in the number of records received than in any year since 1903, when the exceptionally heavy rainfall brought many new Observers to light. The great increase in numbers means a proportionate increase in the work of preparing this volume, but it makes the book better by allowing of more detailed treatment of two very important branches of the work, the mapping of heavy rains and of monthly rainfall. While we welcome most those new Observers who record rainfall where the stations are farthest between, no new record is unwelcome; even if there is an Observer next door he may cease recording next year for all we know to the contrary, and then the value of the new record will be all the greater for the overlapping years.

There are 193 more records dealt with for 1908 than for 1907; 1,133 more than for 1898; and 1,947 more than for 1888, a very rapid increase of the volume of work. There were, however, 251 records in the volume for 1907 which do not appear in this, but of these 64 are likely to return next year, the remaining 187 having definitely stopped as far as it has been found possible to ascertain. On the other hand 444 records appear in this volume which were not published in *British Rainfall*, 1907, but 62 of these are old records returning, the remaining 382 being records of rainfall of which 1908 was the first complete year, or in a few cases old records which had not previously been sent for publication.

The real gain in numbers may be compared with that for the last two years thus:—

	Total gains.	Returned.	Real gain.	Total loss.	Temporary.	Real loss.	Net real gain.
1906.....	400	58	342	237	40	197	145
1907.....	375	49	326	289	81	208	118
1908.....	444	62	382	251	64	187	195

The total increase of 193 records is nearly $4\frac{1}{2}$ per cent. of the total of 1907. In England the net gain was 108 records or $3\frac{1}{2}$ per cent. increase; in Wales 40 records or 12 per cent. increase; in Scotland 30 records or over 5 per cent. increase, the total number exceeding 600 for the first time; and in Ireland 15 records or 6 per cent. increase. The case of Wales is made less remarkable from the fact

that there had been no increase last year ; but the improvement in Scotland and Ireland is most satisfactory. Compared with the state of matters in the first volume of *British Rainfall* in 1861 the number of records in England has increased ten-fold, in Wales forty-fold, in Scotland six-fold, and in Ireland twelve-fold. Since 1871 the Scottish records have been doubled, the English trebled, and the Welsh and Irish quadrupled.

The following notes refer to a few interesting points in the long list of losses and gains which concludes the section, but they must not be looked upon as exhausting all the matters of interest which a detailed study of the list would disclose.

In London there has been no loss worth mentioning. In the Golders Hill gardens, on the north side of Hampstead Heath, a rain gauge has been set up in an unfortunate exposure, which makes its indications rather uncertain. At Greenwich Observatory a standard rain gauge of the Meteorological Office pattern has been placed in the grounds of the Magnetic Pavilion, and it is most satisfactory to find that its readings confirm those of the old-fashioned gauges which have been so long in use.

In Surrey, we are glad to find that the record at Burgh Heath, where the gauge had been stolen in 1907, reappears. The region of the North Downs has received other important accessions, the most interesting being at Bicknor and on Betsom Hill, near Tatsfield, the latter being 820 feet above sea level. The basin of the Medway is now much better represented than before, at low elevations as well as on the heights.

The loss of the record at Uckfield Lodge, Crowborough, 796 feet above the sea, would have been most lamentable but for the establishment last year of a gauge close by, at Te Whare, the two having given practically identical figures for the year they ran together, the new gauge may be trusted to continue the long record of the old without any breach of continuity. The record continued on the highest point in Sussex, is matched by a very important new one in the lowest portion of the coast, at Selsey Bill, the equipment of the new station at Large Acres, including a gauge read monthly as a check on that read daily. Another interesting accession in this county is the King Edward VII. Sanatorium, near Midhurst.

Amongst the too numerous losses in Hampshire we note that the Ordnance Survey Office at Southampton disappears, but the gauge has been moved to another site, where it will be no less useful.

There are many gains in this county, including the return of Eversley Rectory, famous as the residence of Charles Kingsley, and a series of gauges near Petersfield, which give, with the existing records kept by Mr. Cave, the data for a rainfall section of the northern slope of the South Downs. Middleton House, near Long Parish, fills the awkward blank referred to last year. We specially regret the loss of Cadenham Grange, near Lyndhurst, as it leaves the New Forest poorly represented; and it happens that a very important point as to the influence of forests on rainfall might be elucidated by a close series of rainfall stations in that part of the country.

Ginge Manor, in Berkshire, fills a most useful place in supplying data for the monthly rainfall map of the Thames Valley in *Symons's Meteorological Magazine*. This map will suffer greatly by the loss of two stations near Welwyn, in Hertfordshire, a county the rain gauges in which are extremely irregularly distributed. In Buckinghamshire, Chesham Bois improves our knowledge of the rainfall on the Chilterns; but we wish for many more records on and around that range of hills. The barest part of Oxfordshire is slightly improved by Lewknor; but a gauge at Brill would be most valuable if it could be established. The County Education Committee of Oxford has been encouraging the study of meteorology in schools and we are glad to include three new records from this source amongst the insertions.

Northamptonshire shows a regrettable excess of losses; but two of the gains are of special value, Winwick Warren, in one of the highest parts of the county, and Etton, in the north-east, where rain gauges are few.

The record at Aspley Guise, in Bedfordshire, reappears after many years absence from our pages. Our applications failed to bring a response, but the record has been going on all the time, and though some of the years have been lost, we are glad to have received returns for a good many.

The departure of Saling Grove increases the great gap in western Essex, to which we referred last year, and none of the accessions in the county, welcome though they are, help to mend it.

In Suffolk the loss of Lavenham Hall last year is made up by the gain of Lavenham High Street, and a new record at Hollesley Manor is welcome on account of its position.

In Division V. we find much to be thankful for, Aldbourne is a most useful addition in Wiltshire, filling up a notable blank, and

thanks to the careful oversight of the Dorset Field Club, that county has a number of excellent new records to show. We have also received a new record from Portland Breakwater, the very heavy fall recorded at which on October 21st was one of the most remarkable to which we have to refer this year. In Devon the many losses are less serious than they look, for some will have efficient substitutes next year, while the more numerous insertions represent some most interesting positions. It is hardly fair to single out one, but Horrabridge will help to clear up an uncertainty in the map of average rainfall.

There are some unfortunate losses in Somerset, which remove several of the few gauges in the east of the Culm valley; but the addition of Exebridge, Wiveliscombe, and Liscombe, will help to define the area of high rainfall on Exmoor; and we are most happy to find in the Old Way House, Wellington, a substitute for the old Wellington record, the loss of which caused us regret last year.

In Gloucestershire the chief loss was that of Birdlip Hill, an important station for the higher part of the Cotswolds; but though the gains are few they contain two which go far to mitigate the loss, namely, Northleach Vicarage, and Temple Guiting, one of the highest stations in the upper Thames valley, and with the advantage of a record extending back several years.

Reference has been made in the Report to the inspection of Herefordshire gauges made possible by the generous help of Mr. H. J. Bailey, by whose agency the record at Munderfield Harold has been added, a record which has a special interest in being kept by Captain Enderby, son of one of the Enderby Brothers whose ships, for half a century, promoted the exploration of the Antarctic regions. We also owe to Mr. C. J. Johnstone, of Lugwardine, information of several new gauges in the neighbourhood of Hereford. The most valuable of the accessions in the county is Brampton Bryan Hall on the extreme north-west, which is in the middle of a large area on the border of Wales without rain records.

At Wem, in Shropshire, the rain record ceased at the death of the Rector in 1906, but, as happens not infrequently, the living has passed to another rainfall Observer and reappears for 1908.

Staffordshire shows badly on this occasion, its five losses being unrelieved by a single gain. The most serious loss is that of Bonehill House, Tamworth, which leaves a large area unrepresented, and thus makes a weak place in the rainfall maps. Worcestershire,

on the other hand, has much improved, perhaps the most useful accession being Hagley Rectory, near Stourbridge, 750 feet above the sea ; and in Leicestershire, though the total number of stations remains unchanged, the inclusion of Osbaston Hall, near Market Bosworth, helps to reduce the large blank left by the loss of Tamworth.

In Derbyshire the chief matter for comment is the absence of the twelve records on the new gathering grounds of the Stockport Waterworks, near Hayfield. These gauges were established, in 1901, by Act of Parliament for a term of years to enable the correct rainfall of the ground to be ascertained in order to arrange equitable compensation to the riparian owners, and the gentlemen in whose charge this work was placed sent the records year by year for publication in *British Rainfall*, and they have appeared regularly from 1902 to 1907. The available rainfall having been determined the statutory duty lapses and the records have been maintained by the Stockport Water Committee, who, without assigning any reason, have refused permission to publish the readings for 1908. We do not complain of anyone preferring not to subject their rainfall records to the impartial criticism they would certainly receive on being submitted to us for publication ; it would be a poor voluntary system which was not prepared to meet with *nolo* as well as *volo* ; but we cannot help contrasting the action of the Stockport Water Committee with that of the Derwent Valley Water Board and with that of most of the Water Authorities in the British Isles, who well know that they can only gain by having the eye of an expert cast gratuitously over the records which can so easily become useless if not kept up to the mark by the check of comparison with other work of a similar kind. Two other reservoir records have come in, one of which (Barbrook Reservoir), gives, we fear, too low a reading considering its altitude above sea-level.

In Cheshire we regret the loss of the two gauges at Hinderton ; but we are grateful that they have been continued so long, as a less keen Observer than Miss Bushell would very probably have allowed them to drop several years ago, and she has arranged for keeping up the record at Hinderton Lodge. Audlem Vicarage and Buglawton Vicarage return to our pages, and are welcomed back because their absence had left the south of the county poorly represented. Mr. F. J. Dixon, C.E., who was formerly at Harrogate, where he had started several records, and is now at Ashton under Lyne, has sent a batch of new records, including those from two reservoirs near Dukinfield.

The great County of Lancaster with 237 records has only lost 7 since last year, and has gained 14; amongst them one at the very interesting position of Rossall Beach, south of Fleetwood, which has less value than it should, because the gauge is read at 6 p.m., and the daily values cannot be compared with those of other stations. Leck Vicarage, near Kirkby Lonsdale, is a useful accession.

The central division of the West Riding of Yorkshire suffers by the loss of South Milford Rectory, in the middle of the Vale of York. This was one of the oldest records, dating back to 1867, and it is unfortunate that there is no substitute. Bradford Exchange, another old record, we part from quite cheerfully, for the gauge was 65 ft. 6 in. above ground, and its place is taken most advantageously by the new City Observatory in Lister Park. Two of Mr. F. J. Dixon's new gauges are in this division, and another extremely important group of Waterworks gauges is that on Rishworth and Soyland Moors, kept by the Wakefield Corporation. Their value is the greater because they are standard gauges very carefully read, and their indications correct our previous knowledge of this district, based on less well-exposed instruments.

The East Riding has lost two stations, one of them at Beverley, with a very valuable record, the other at Driffild, and it has only gained one, at Bridlington. More records are much wanted here and in the North Riding, which, however, has lost only one gauge, and has gained nine including a group on the high moorland, where the Tees Valley Water Board have their works; this is a most important accession, though it makes the poor equipment of the Cleveland district more apparent by contrast.

In Durham, we are glad to greet Mr. W. B. Heberden, at Stockton, a member, we believe, of the remarkable family of rainfall Observers whose activity in this direction goes back without a break to 1747. Cowshill, in Weardale, is a most interesting position, though we are a little concerned at the smallness of the rainfall recorded.

Northumberland is almost as encouraging in its improvement as Durham, having also gained six records though it has lost one. Bellingham is a most important accession, and Doddington Vicarage is also in an interesting locality; but gratitude for these must not blind us to the great dearth of rain gauges amongst the Cheviots.

Cumberland has only lost two records, but it has gained seven. Braystones comes back after being absent since 1900, and Brayton Hall, so long sent by the late Sir Wilfrid Lawson, is again in its place.

The chief gain, however, is the Blencathra Sanatorium, a most important position on the isolated mountain mass of Skiddaw and Saddleback, the northern sentinel of the Lake District, concerning the rainfall of which we were practically without information. We had heard of this gauge and have been trying to secure the record for several years without success until now.

We are sorry to lose Ravenstonedale in the east of Westmorland, but the rain gauge is being put to service in the neighbourhood and will, we hope, be represented again next year. The most important accession is Mr. Baldwin Latham's group of gauges round Hayes Water, a small lake separated from Hawes Water by the lofty ridge of High Street, named from the Roman road which is still visible running along the topmost ridge of the mountain spur, and judging by the altitude the highest of the new gauges (2,600 feet) must be almost upon the summit.

In Glamorgan six records disappear, but four of these are only temporary absences or changes of position. At Cardiff the City Observatory has been moved from Roath Park to a fine position at Penylan north of the town, and Sir William Lewis's station at Aberdare has been removed from the Mardy to Abernant House. Treharris, one of the new gauges of the Merthyr Tydfil Waterworks, proved most useful in fixing the centre of intensity of the great South Wales storm on October 19th, celebrating its first year by the high maximum fall of 4·80 in.

The south-west of Wales has lost none of its old records and has gained five, none, however, in Cardiganshire. We were able to supply a gauge free of charge to an Observer on the slopes of the Precelly Hills in Pembrokeshire—the range, it may be recalled, which inspired the well-known hymn commencing “O’er the gloomy hills of darkness”—and there was a great hurry in sending it off to reach its destination on January 1st, 1908. The record now appears from Henry’s Moat.

Brecon only loses two records, both of them survivors of the fine series planted by Mr. Symons for the London County Council when the project of a Welsh water supply for London was under discussion. After the scheme was abandoned several of the paid Observers continued to record the rainfall for a nominal sum or even without remuneration, and the most interesting of them all was at Torpantau, the highest station on the Brecon and Merthyr Railway, and there can be few higher railway stations in the British Isles. The

accessions numbering fourteen are, with three exceptions, waterworks' gauges. The group from the great Swansea reservoir at Cray is the most interesting, and the finest acquisition in South Wales for many a year. At Bwlch, near which one of the destructive downpours of July 22nd, 1907, occurred (see *B.R.* 1907, p. 31), the rainfall is probably higher than at any other position in South Wales. The new series of rain gauges set up by the Merthyr Tydfil Corporation in the Taff Fechan valley at our suggestion is designed to elucidate the very interesting distribution of rainfall in that district. The gauge on Waun Fach, the very summit of the Black Mountains, we owe to the enthusiasm of the Rev. R. P. Dansey, of Kentchurch (see *B.R.*, 1907, pp. 32-33 for map and description), and the two other gauges on the mountain were set up by Mr. Baldwin Latham in connection with proposed waterworks. They are all much exposed and wind-swept and possibly read a little too low on that account.

In Radnorshire the Birmingham Waterworks have set up a number of new rain gauges in most important places, and their action is worthy of special recognition for their waterworks are already established in the chain of artificial lakes in the Elan valley; but the Engineer is endeavouring to ascertain the total amount of water which falls upon the drainage area every year, a problem of very great difficulty, but of supreme importance from the point of view of the natural resources of the country.

There is little change in the rest of Wales except in Carnarvonshire where all the gauges quoted last year appear again, and in addition there are the interesting group of gauges on Snowdon already fully discussed in Mr. Lockwood's article, and the group of gauges on the Lake Cowlyd drainage area of the Conway and Colwyn Bay Waterworks. After seeing how freely the far-seeing practical men, who control the valuable assets of water-supply in Wales, send the rainfall data they obtain for publication in our pages, and how materially the work of one authority supports, by confirming or it may be correcting, that of another, and is supported in turn by the others, the reader may be interested in referring again to the paragraph on Derbyshire.

Scotland shows an improvement, due, in large measure, to the efforts being made by the Scottish Meteorological Society through its energetic Secretary, Mr. Watt. Only sixteen of the records published in 1907 are known to have come to an end, and the 42 new records which appear for the first time are a sign of real increase of interest as each is sent by a separate Observer, there being no new

groups of gauges amongst them. The only serious loss in the south of Scotland is that of Craigenally, in Kirkcudbright; but the new gauges at Lochrutton and Comlongan help in defining the rainfall between the shores of the Solway and the Southern Uplands. We welcome the Rev. J. S. Begg as a very keen Observer at West Linton. In the counties of Lanark, Ayr, and Renfrew we are fortunate in losing nothing and gaining several interesting records which will, we hope, throw light on a part of Scotland where we have found it exceedingly difficult to draw the rainfall lines on the map. There seem to be a few anomalous stations in the neighbourhood, but as the total number is small we do not know whether about half of them indicate less rain than they should or about half of them more than they should; the increase in the number should enable us to say. We are inclined to believe that Kype, near Strathaven, is a very important position; but the Scottish Meteorological Society, to whose courtesy we owe the figures of total rainfall, were unable to give the precise locality.

Dumbarton suffers seriously by the loss of the record at Arrochar Manse. The gauge at Arrochar House is a mechanical one, and can hardly be trusted in the absence of a check gauge of standard pattern. We are glad to find that records have been kept by the Dumbartonshire County Council in Glen Finlas and near Renton.

In Argyllshire there is a striking improvement, especially in the mainland portion of the county. Sir Andrew Noble's complete meteorological station at Ardkinglass, near the head of Loch Fyne, Mr. Robertson's at Strachur, and Mrs. Stewart's at Otter Ferry, give most useful information for the south-eastern side of the Loch, while Stronshira, facing Inveraray, and Drimlie, some miles up Glen Shira, an ancient haunt of Rob Roy, help to fill out the system on the north-western side. The whole of this romantic district, growing famous through the novels of Neil Munro, is being thrown open for the study of rainfall by the strong interest taken in the subject by a few enthusiastic Observers. We regret the loss of the record from Gruinart, Islay, consequent on the death of Miss Brown, who had saved it from extinction some years ago when the former Observer gave it up.

Perthshire has suffered some notable losses, especially that of Glenfarg, in the middle of the glen, through which the old coach road from Queensferry to Perth ran, and which became an artery of traffic once more when the great Forth Bridge was built. The loss

of Donavourd, Pitlochry, and Inverbraan, Dunkeld, are still more serious ; for they remove two of the very few gauges on the highway across the Highlands, formed by the Tay and Spey valleys. The gains in Perthshire are, however, more numerous than the losses. A new Observer has revived the valuable record at Blaircreach, on the Braes of Balquhiddy, and a most interesting set of observations comes from Glendevon, in the heart of the Ochils, which takes the place of Lynns Farm, on Sheriffmuir, the battlefield on which both sides claimed the victory in 1715. But the best of the new rainfall stations is that at Meggernie Castle, in Glenlyon, in the very midst of a great tract of country absolutely desert of rain gauges.

In Forfar the losses outweigh the gains, and the group of Water Works gauges north of Kirriemuir will be sorely missed, but Pearsie, in Glen Prosen, is a valuable acquisition. In Aberdeenshire, Fyvie Castle and Huntley are substantial gains ; but there has been no increase in Kincardineshire, the inland parts of which are *terra incognita* as regards rainfall.

From the west of Inverness-shire we have three useful new records ; that at Achnacarry, on the river from Loch Arkaig to Loch Lochy, falls in one of the barest patches of the rainfall map ; Castle Bay, Barra, at the extreme south of the long line of the Outer Hebrides, in another ; and Lynedale, in the north of Skye, in a third. Unfortunately the loss of Dunvegan, in Skye, where a series of appeals each couched in more moving language than that before, has elicited no response, creates a new gap in that neglected island. The Manse of Gairloch, in Western Ross, is an important accession, as there is no other rain gauge within many miles.

The extreme north of Scotland holds its own and improves on it. The Rev. G. Mackay of Altnaharra, has done much to keep up the records in the north of Sutherlandshire, and he has secured a new record in Strathmore which seems to have a very large rainfall. The record at Borrobol, near Kinbrace, a position of very great importance, shows a considerably smaller rainfall than we were prepared to expect. In Caithness the new gauge at Berriedale, on the Duke of Portland's estate in the south-east, and that at Buckies, near Thurso, in the north, are most important.

As regards Ireland, we owe something to the meeting of the British Association in Dublin in September, 1907 ; not that the Association as such offered any help, but the meeting took place in such torrents of rain as to excite considerable comment in the press,

and helped to give point to a letter which we wrote to the *Irish Times* in October. The result of that letter is the addition of seven excellent records, some of them in the most remote and desirable places. This experience convinces us that there must be many other records still blushing unseen which ought to be brought to view in our pages, and we beg any reader who knows of one to communicate with us. The only very serious loss in Ireland is Kylemore House, Co. Galway. We do not know whether the record has stopped or not; we can only say that circulars and letters have gone forth like the raven from the Ark and have brought no return, nor have they themselves returned. Correspondents in Ireland continue to write complaining of the imperfect data we supply as to the rainfall of Ireland; lessees of fishings write wanting to know whether July of this year was wetter or drier than the average in the west of Galway, but we cannot discover if the fine long record at Kylemore has gone, or is still going.

We are glad to welcome Skibbereen, Co. Cork, as an important aid to our knowledge of the conditions in the extreme south-west. The numerous gains around Dublin will help to define what is really one of the most interesting features in the rainfall of Ireland, the dry patch which runs inland from Dublin Bay. In Co. Mayo we rejoice in the fine record which Mrs. Sheridan is kind enough to keep, with a scrupulous accuracy most refreshing to meet with, at Slievemore Hotel, Dugort, on Achill Island. A hotel which keeps a good record of rainfall is sure to be good in every department where methodical management and punctuality are of service. Our grief over Tyrone last year has stimulated enquiry and unearthed two excellent new records, and one was accompanied by the readings for more than thirty years. We also welcome the return of Baron's Court.

A few transpositions from one county to another occur on account of farther information as to county boundaries which it seems have not always been accepted by everyone, but these are unimportant from our present point of view as they represent neither gain nor loss.

It has been suggested that the title of this work, "*British Rainfall*," may deter Irish Observers, but the full title of the volume, which is too long to quote, gives due prominence to the name of Ireland, and it is not our fault that no adjective has been found to qualify the United Kingdom of Great Britain and Ireland—an American once suggested the use of the seven initial letters to designate the country as a whole without undue preference as *Ukogbai*, but could we head our pages "*Ukogbaian Rainfall*"?

*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	A
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
1906...	3153 ...	323 ...	556 ...	227 ...	4259	163
1907...	3218 ...	324 ...	574 ...	229 ...	4345	86
1908...	3326 ...	364 ...	604 ...	244 ...	4538	193
Difference from 1907.—						
Increase	108 ...	40 ...	30 ...	15 ...	193	...
Decrease	— ...	— ...	— ...	— ...	—	—

Rainfall Records, Losses and Gains.

COUNTY.	RECORDS TERMINATED, OR <i>Absent.</i>	NEW RECORDS, OR <i>Old Ones</i> <i>Re-appearing.</i>
<i>North of the Thames (55)</i>	—	Chelsea (Paulton Square). Hampstead (Akenside Road) 2nd g. ,, (Golders Hill).
<i>South of the Thames (28)</i>	Clapham Park (Atkins Road),	Brixton (St. James's Road). Greenwich (Royal Obs.) No. 8. ,, { ,,) No. 2. ,, { ,,) No. 1.

<i>West Surrey</i> (77)	Haslemere (Jesses) 2 gauges. Hambledon (Mervel Hill). Witley (Fernside). „ (Manor). Farnham (Dippen Hall Cottage) Guildford (Wherwell Road). „ (Lansdown Ho., Merrow) „ (The Grange). Chobham (The Elms).	Haslemere (Lowder Mill). Witley (King Edward's School). Godalming (Farncombe). Farnham (West Street). Brookwood (Knapp Hill). Camberley (Portesbury Hill). Chobham (Chobham House). West Byfleet (Broad Oaks). Egham (Runnymede Park).
<i>East Surrey</i> (104)	Dorking (High Street). Kenley (Place Fell). Sanderstead (Red House). Purley (Peaks Hill).	Outwood (The Orchard). Dorking (West Street). Redhill (Station Road). Banstead (Burgh Heath Res). Chipstead (How Green Res.). Purley (Russell Hill). Beddington (Sewage Farm).
<i>West Kent</i> (114)	Woodchurch (The Rectory). High Halden Rectory. Tunbridge Wells (Mt. Ephraim Ho.) Tonbridge (Penshurst Place). „ (Somerhill Estate Office). Sevenoaks (Seal). Downe (The Rookery). Bromley (Orchard Road). Sidecup (Park Road). „ (Station Road).	Biddenden (Sandpit Wood) 8 in. g. „ „ „ 5 in. g. Paddockwood (Matfield Grange). „ Vicarage. Tonbridge (London Road). Edenbridge (Cluny). Maidstone (Allington Lock). Brasted (Coombe Bank). Tatsfield (Betsom Hill). Chelsfield (Fairtrough). Bradhurst Vicarage. Halling. Bromley (Widmore Road). Beckenham.
<i>East Kent</i> (55)	Sellinge (Penmain).	Dover. „ (Martin Mill). Chilham (Lower Ensden). Bicknor Rectory. Ramsgate (Southwood W.W.). Whitstable (Western House).
<i>West Sussex</i> (49)	--	Selsey Bill (Large Acres). Snowdon. „ „ „ „ „ Stedham (Rotherhill). Easebourne (Hollist House). Midhurst (K. Edward VII. San.). Lower Beeding (South Lodge). „ „ (Forest House).

<i>East Sussex</i> (91)	Eastbourne (Osborne House). Ringmer (Downlands). Winchelsea (The Friars). Playden (East Guldeford Lane). Lindfield (Massetts Place). Haywards Heath (Abbots Leigh). <i>Handcross</i> . Crowborough (Uckfield Lodge).	Newhaven (Poverty Bottom). Brighton (Preston Drive, Preston). ,, (Ditchling Road). Horeham Rd. (Hollycroft Cot.). Battle (North Lodge). Heathfield (The White Cottage). <i>Forest Row (Wyche Cross)</i> . Crawley Down (The Grange) <i>Snow</i> .
<i>Hampshire</i> (130)	Chale. <i>Yarmouth School</i> . <i>Ryde (Thornton)</i> . Ringwood (Bisterne). North Havant (Oaklands). Southampton (Ordnce. Sur. Off.). Lyndhurst (Cadenham Grange). East Liss (Newlands). Winchester (Wyke). Liphook (White Hill Chase). Alton (Holybourne).	Brighthelm (Pitt Place). Milford-on-Sea (Milford Ho.). Hayling Island (Lama House). Fareham (Cams Hall). ,, (The Mount). Southampton (Moorlands, Bitterne). Petersfield (Ditcham Park) <i>5m. g.</i> ,, (Downley). ,, (The Mount). East Tisted (Rotherfield Park). Barton Stacey (Moody's Down). Longparish (Middleton House). Basingstoke (Pumping Station). <i>Eversley Rectory</i> .
<i>Berkshire</i> (53)	<i>Newbury (Woodspen)</i> . Reading (Ellerslie, Tilehurst Rd.). <i>Maidenhead (Isis Cottage)</i> .	Reading (University College). Wantage (Ginge Manor). Long Wittenham (Willington).
<i>Middlesex</i> (54)	Hampton (Southwark W.W.). Sunbury (Hanworth Road). <i>Twickenham (Sewage Works) M</i> . Acton (Newburgh Road). Uxbridge (Cowley). Finchley (Victoria Public Park).	Isleworth (Mandeville House). Sipson (Hollycroft). Crouch End (Barrington Road). Woodgreen (Maryland Road). Harefield Place.
<i>Hertfordshire</i> (66)	<i>Rickmansworth (Rivermead)</i> . St. Albans (Frogmore). <i>Welwyn (Bridge House)</i> . ,, (Danesbury). Bennington (Eileen Cottage).	Shenley (Kitwells). <i>Monthly g.</i> London Colney (Bowmans). Hemel Hempstead (Church Croft). Offley Vicarage. Hitchin (Roxley Court, Willian).
<i>Buckingham-</i> <i>shire</i> (38)	Horton (Crown Inn).	Horton (Horton Cottage). Beaconsfield (Ledborough Lane). Chesham (Chesham Bois Rec.).
<i>Oxfordshire</i> (56)	Watlington Park. Wheatfield Rectory. Oxford (Radcliffe Ob.) <i>22 ft. g.</i> ,, (Norham Road). Witney. Bicester (National School).	Caversham (Hemdean Road). ,, (<i>Cane End House</i>). Goring Heath School. Henley-on-Thames (Greys Rd.). Clifton Hampden School. Brightwell Baldwin School. Lewknor (Manor House). Oxford (Warneford Asylum).

<i>Northamptonshire</i> (60)	Northampton (Balmoral Road). ,, (Gold Street). Mears Ashby. Orton (Sandy Hill Farm). Oundle (Water Works). Kingscliffe (Fineshade). Stamford (Easton). ,, (St. Martin's).	King's Sutton (Astrop). Winwick Warren. Kettering W.W. (Clover Hill). <i>Oundle School</i> . Peterborough (Ashfield). Etton [Market Deeping]. Kettering (Burton Latimer W.W.).
<i>Huntingdonshire</i> (13)	—	—
<i>Bedfordshire</i> (32)	Great Barford Vicarage.	Amphill (Flitwick). <i>Aspley Guise (Oaklands)</i> .
<i>Cambridgeshire</i> (47)	<i>Mepal Engine</i> .	Little Shelford (Manor House). Brinkley Hall. <i>Stanground Sluice</i> .
<i>Essex</i> (87)	Clacton-on-Sea (Jay Wick). Brightlingsea Hall. Braintree (Saling Grove).	Chingford (Sewardstone Lodge). Maldon (Hazeleigh Rectory). Colchester (King's Ford). Halstead (Red House). Boxted (Cheshunts). Great Chesterford Mills.
<i>Suffolk</i> (50)	<i>Sudbury</i> . Bucklesham School. Wickham Market (Campsea Ash) <i>Brandon (North Court Lodge)</i> .	Felixstowe (Trimley). Hollesley Manor. Lavenham (High Street). Bungay (Flixton Vicarage). Herringfleet (The Gables).
<i>Norfolk</i> (65)	<i>Honingham</i> .	Thetford (Ford Place Gardens). Southery. East Rudham. Blakeney (Wiveton).
<i>Wiltshire</i> (52)	<i>Pewsey (Stowell Park)</i> . Swindon (Burdorpe Park).	Corsley (Sturford Mead). Woodborough. Aldbourn (The Warren). <i>Highworth (Hannington Hall)</i> .

<i>Dorsetshire</i> (68)	Winterbourne Monkton Rectory Sturminster Marshall (Bailie Ho.). M.	Portland (H.M. Breakwater). Warmwell House. <i>Wareham</i> (<i>Stoborough</i>). Charmouth (Leslie Cot.) () <i>weekly g.</i> Bradford Peverell House. Puddletown Vicarage. Wynford House. Wimborne (Corfe Mullen). Winterbourne Whitechurch Vic.) <i>Wimborne</i> (<i>Park Homer</i>). Milton Abbas (Milton Abbey).
<i>South Devon</i> (130)	Buckfastleigh (Bossell Park). Yelverton. Kingskerswell (Barton Hall). Bickington Vicarage. Dawlish (Holcombe). Marystowe Vicarage. Exeter (Ide). Brampford Speke (The Avenue Gdns.) Honiton (St. Cyrus).	Dartmouth (Stoke Fleming). East Allington (Fallapit). Totnes (North Gate House). Edginswell (Manor House). Horrabridge. Bovey Tracey (Wolleigh). Budleigh Salterton (Knowle Ho.) Kenn (Chapel Court). Aylesbeare (Rosamondford). Ottery St. Mary (West Hill). Northleigh Rectory. Kilmington (Haddon Corner). Axminster (Lea Combe House). Tiverton (Blundell's School).
<i>North Devon</i> (42)	Torrington (Stevenstone). Abbotsham (<i>Riccard's Down</i>). South Molton. <i>Northam</i> (<i>St. Helens</i>).	Workleigh Rectory. <i>Stoke Rivers</i> .
<i>Cornwall</i> (63)	Fowey (Menabilly). Newquay (Tresillian House).	Penryn (Enys). Grampound (Creed Rectory). St. Austell (Trevarna). <i>Snowdon</i> <i>St. Mellion Rectory</i> . Bodmin (Polgwin).
<i>South Somerset</i> (49)	<i>Henstridge</i> (<i>Inwood Ho. Gdns.</i>). Taunton (Leigh Reservoir). ,, (Gatchell House).	Chard Vicarage. Wellington (Old Way House). Tintinhull (Manor House). Dulverton (Exbridge Fishery). Wiveliscombe (The Croft). Hawkrigde (Liscombe).

<i>North Somerset</i> (77)	Wells (Hillgrove). " (Priddy). <i>Frome (Mells).</i> <i>Weston-sup.-Mare (Beaumont Rd.)</i> Pensford Vicarage. Bath (Charlcombe, Hamilton House).	Castle Cary (Alford House). <i>Crunmore (Southill House).</i> Wells (Woodbury House). Burnham (Brent Knoll). Binegar (Gurneyslade). Winscombe (Wintrath). Clutton (Council Schools). Publow Vicarage. <i>Batheaston. Monthly gauge.</i> Keynsham (West View Road).
<i>West Gloucestershire</i> (75)	Bristol (Ashley Down). Birdlip Hill (The Knap) 2 gauges. <i>Gloucester (Denmark Road).</i>	Badmington (Lyegrove). Avening House. <i>Gloucester (Park Road).</i> <i>Tibberton Court.</i> Bromsberrow Pumping Station. Tewkesbury (Puckrup Hall).
<i>East Gloucestershire</i> (21)	—	Northleach (The Vicarage). Temple Guiting.
<i>Herefordshire</i> (50)	Whitechurch (The Tump). Hope-u-Dinmore (Hampton Ct.)	Hereford (Quarry House). Lugwardine (Annandale). Bartrestree Court. " (Pomona). Credenhill (Swainshill). Bodenham (Pigeon House). Bromyard (Munderfield Harold). Brampton Bryan Hall.
<i>Shropshire</i> (44)	Ludlow (The Sheet). Culmington Manor.	Bridgnorth (Cantreyn). <i>Wem.</i> Whitechurch (Tilstock Lodge).
<i>Staffordshire</i> (41)	<i>West Bromwich.</i> Tamworth (Bonehill House). Stafford (Eastgate Street). <i>Knypersley Reservoir.</i> <i>Leek (Rudyard Reservoir).</i>	—
<i>Worcestershire</i> (53)	Droitwich (Himbleton Manor). Bewdley (Winterdyne). 2nd g.	Gt. Malvern (Davenham Gdns.) Shipston (Armscote). Kempsey (Priors Court). Tenbury (Nash Court). Alvechurch (High Croft). Stourbridge (Hagley Rectory).
<i>Warwickshire</i> (32)	—	Stratford-on-Avon (Hardwicke). Foleshill (Foxford School).

<i>Leicestershire</i> (35)	Withcote Hall. Rearsby Rectory.	Blaby (Havelock House). Market Bosworth (Osbaston Hall). Croxtan Kerrial (The Vicarage).
<i>Rutland</i> (5)	—	—
<i>South Lincolnshire</i> (26)	Holywell Hall. Boston.	Stamford (St. George's Square). Boston (Bargate End).
<i>North Lincolnshire</i> (43)	Horncastle (Mareham-le-Fen). Lincoln (St. Botolphs). ,, (The Close).	Woodhall Spa (Galm House). Horncastle (Beoley House).
<i>Nottinghamshire</i> (59)	Nottingham (Waterloo Prom.) Radcliffe-on-Trent (The Cliff Ho) Nottingham (Woodthorpe). Gonalston Rectory. <i>Welbeck Gardens.</i> <i>Retford (Grammar School).</i>	Sutton Bonnington. Bulwell (Nuttall Rectory). Southwell (Elmfield). <i>Mansfield.</i>
<i>Derbyshire</i> (106)	Melbourne Vicarage. Findern (Mill Hill Farm). <i>Chesterfield (Gas Works).</i> <i>Hayfield (The Dympus).</i> ,, (<i>Edale Cross</i>). ,, (<i>Oaken Clough</i>). ,, (<i>Tunstead Clough</i>). ,, (<i>Broad Clough</i>). ,, (<i>Cluther Rocks</i>). ,, (<i>Upper House</i>). ,, (<i>Kinder Top</i>). ,, (<i>Park Hall Moor</i>). ,, (<i>Sandy Heys</i>). ,, (<i>Leygatehead Moor</i>). ,, (<i>Mill Hill</i>).	<i>Derby (Duffield Road).</i> M. Belper (Blackbrook House). Ambergate (Riverside). ,, (Reservoir Works). Holmesfield (Barbrook Res.) <i>Norton.</i>
<i>Cheshire</i> (67)	<i>Macclesfield Wincle.</i> Neston Hinderton. 2 gauges. Hooton Grange. Thurstaston (Dawpool).	<i>Audlem Vicarage.</i> Aldford. Congleton (Park Lane). ,, (<i>Buglawton Vic.</i>) Hooton Pumping Station. Stockport. Dukinfield (Higher Reservoir). ,, (Lower ,,).
<i>South Lancashire</i> (100)	Aigburth (Kelton). Woolton (Camp Hill Gardens). West Derby (Grove House). Rochdale (The Crescent).	Woolton (Roseleigh Gardens). Flixton (Shawdon). Bolton (Heaton Res.) <i>Monthly g.</i>

<i>Central Lancashire</i> (74)	Over Darwen (Sewage Works).	Wigan (The Mariebonne). <i>Monthly g.</i> Burnley (Queen's Park). Darwen (Bold Venture Park). <i>Beaton Fell (Barnsfold Res.)</i> <i>Monthly g.</i> <i>Foulridge (Cragg Nook Hill).</i> <i>Clitheroe (Low Moor).</i>
<i>North Lancashire</i> (63)	Blackpool Sanatorium. Cartmel (Pit Farm).	<i>Weeton.</i> Rossall Beach. Cockerham Vicarage. Bolton-le-Sands (The Laurels). Leck Vicarage. <i>Hawkshead (Black Fell).</i>
<i>Yorkshire.</i>		
<i>West Riding, Southern</i> (69)	Doncaster (Hexthorpe Hall). ,, (Market Place).	<i>Bolsterstone (Waldershaigh).</i> Doncaster (Wyndthorpe). Upton Moor Top.
<i>West Riding, Central</i> (131)	Halifax (Salterhebble). South Milford Rectory. Bradford (The Exchange). Leeds (Elmet Hall Roundhay).	Greenfield (Ashway Moss). ,, (Birchen Clough). Rishworth Moor (Greystones). Soyland Moor (Summit). ,, (Baitings Gate). ,, (Manshead). Wakefield (Field Head). Gomersall (Castle Hill). Halifax (Walshaw Dean Lodge). <i>Selby.</i> Pudsey (Fulneck). Bradford (Lister Park).
<i>West Riding, Northern</i> (109)	Aberford (Lotherton Hall). Bolton Percy (Appleton House). <i>Skipton (Counter Hill).</i> Harrogate (Harlow Hill Res.) <i>No. 2 g. (R).</i> ,, (St. James' Park).	Harewood (Arthington, Breary Bank). <i>Slaidburn (Cabin Hill).</i>
<i>East Riding</i> (26)	Beverley (Register House). Driffield (Lockwood Street).	Bridlington (Grammar School).
<i>North Riding</i> (65)	Bedale (Ivy Cottage Fencote). Saltburn-by-the-Sea.	Haxby (Moorlands). Scarborough (Manor Road). Richmond (Sedbury Park). Sleights (Brook Park). Baldersdale (Blackton Res.) ,, (Balderhead). Lunedale (Lunehead). ,, (Selset). Mickleton. <i>No. 2 gauge.</i>

<i>Durham</i> (49)	—	<i>Darlington</i> (<i>Public Park</i>). Stockton (Londonderry Road). Willington Rectory. Weardale (Cowshill). Pittington (Elemore Hall). Sunderland (Southwick Cem.)
<i>Northumberland</i> (57)	Holy Island (St. Aidan's)	<i>Newcastle</i> (<i>Chronicle Office</i>). " (<i>Leazes Park</i>). Heddon-on-the-Wall Vicarage. Bellingham (High Green Manor). Acklington (Broomhill Colliery). Wooler (Doddington Vicarage).
<i>Cumberland</i> (75)	Whitehaven (Hensingham Ho.) <i>Uldale</i> (<i>Chapel House Res.</i>)	<i>Braystones</i> . Egremont (Ringingstone). St. Bees (The Priory). Whitehaven (Scargill Reservoir). Cockermouth (Shatton Hall). Threlkeld (Blencathra Sanatrm.) <i>Aspatia</i> (<i>Brayton Hall</i>).
<i>Westmorland</i> (46)	Ravenstonedale. Ambleside (Lesketh How). Cliburn Rectory.	Barbon (Underfell). Kendal (Birchfield). Hayes Water (High St.) No. 3. " " No. 1. " " No. 2.

MONMOUTH, WALES AND THE ISLANDS.

<i>Monmouth</i> (31).	Newport (W.W. New Mill). Chepstow (Shirenewton Hall). Abergavenny (Dyne House)	Rogerstone (Rhiwderin). Monmouth (Leasbrook).
<i>Glamorgan</i> (56)	Cardiff (Roath Park). <i>Gilfach Goch</i> (<i>Gilfach House</i>). <i>Swansea</i> (<i>King's Dock</i>). " (Glanmor Crescent). <i>Llwynypia</i> (<i>Glyncornel</i>). Briton Ferry (Baglan House). <i>Aberdare</i> (<i>The Mardy</i>).	Cardiff (Park Place). Llantrisant (Llanilid Reservoir). Cardiff (Penylan). Treharris Service Reservoir. Aberdare (Abernant House). <i>Felindre</i> (<i>Lliw Res., Upper</i>). Merthyr Tydfil (Penbryn Filters).
<i>Carmarthen</i> (10)	—	Nantgaredig (Ystradwrallt).
<i>Pembroke</i> (16)	—	Pembroke Dock. <i>Haverfordwest</i> (<i>Portfield</i>). Whitland (Trewern). Henry's Moat.
<i>Cardigan</i> (9)	—	—

<i>Brecon</i> (67)	Torpantau Station.	Taff Fechan (Neuadd Res.) No. 4a.
	Lower Chapel (Nant-y-groes).	„ „ { „ „ } No. 10.
		„ „ { „ „ } No. 11.
		„ „ { „ „ } No. 3a.
		Swansea W.W. (Nantyrwydd).
		„ „ (Bwlch).
		„ „ (Gihirych).
		„ „ (Cray Res.)
		„ „ (Cray Res.) No. 1. (R).
		„ „ (Cray Res.) No. 2.
<i>Radnor</i> (22)	Welshfield [Builth].	Black Mountains (Waun Fach).
	Bettws Dissert.	„ „ (Pen-y-Mallwyn)
	Rhayader (Pryddellau).	„ „ (Taren-yr-Esgob)
		Trecastle (Lliwel Vicarage).
		Brecon (Penoyre).
		Birmingham W.W. (Esgair Garthen)
		„ „ („ Gader)
		„ „ (Tynant).
		Rhayader (Greenfields).
		Birmingham W.W. (Claerddu).
<i>Montgomery</i> (23)	Meifod (Coed-y-Maen).	„ „ (Cerriglwydion).
		„ „ (Calettwr).
		„ „ (Figin).
		„ „ (Aberhenllan)
		„ „ (Gwynn).
		—
		—
		—
		—
		—
<i>Flint</i> (10)	Flint (Plas Evan).	Bodfari (Cae Gwyn).
	Bagillt (Lead Works).	
<i>Denbigh</i> (33)	—	Gresford (Horsley Hall).
		Ruthin (Tymawr).
<i>Merioneth</i> (10)	—	
<i>Carnarvon</i> (46)	—	Nantlle (Dorothea Quarries).
		Snowdon (Wenallt). No. 6.
		„ (Cwm Dyli). No. 11.
		„ (Lliwedd). No. 2.
		„ (Delta). No. 7.
		„ (Glaslyn). No. 3.
		„ (Teryn). No. 1.
		„ (Llyn Llydaw, N.) No. 5.
		Lake Cowlyd Valley. C.
		„ „ „ D.
<i>Carnarvon</i> (46)		„ „ „ B.
		„ „ „ A.
		„ „ „ (Dam Site).
		Dolgarog (Aluminium Works).
		Tal-y-Cafn (Caer Rhun).

<i>Anglesey</i> (9)	—	Bodedern (Pressaddfed).
<i>Isle of Man</i> (9)	Douglas (Cronkburne).	—
<i>Isles of Scilly</i> (3)	—	St. Mary's.
<i>Channel Islands</i> (10)	—	Herm (Harbour). . .

SCOTLAND.

<i>Wigtown</i> (10)	—	Logan House.
<i>Kirkcudbright</i> (20)	New Galloway (Craigencallie).	<i>Kirkbean</i> (<i>Arbigland</i>). <i>Lochrutton</i> (Dumfries W.W.) <i>Dalry</i> (<i>The Old Garroch</i>). 5 in.g.
<i>Dumfries</i> (20)	—	Ruthwell (Comlongan). Moniaive (Jarbruck).
<i>Roxburgh</i> (12)	St. Boswells (Elliston).	—
<i>Selkirk</i> (7)	—	<i>Selkirk</i> (<i>Philphaugh</i>).
<i>Peebles</i> (22)	—	DonaldsCleuchHd.(EdinburghWW) <i>Peebles</i> (<i>Swinton Bank</i>). (R). Castlecraig [Dolphinton]. West Linton (The Rectory).
<i>Berwick</i> (8)	—	—
<i>Haddington</i> (12)	—	<i>North Berwick</i> (<i>Fidra</i>).
<i>Midlothian</i> (29)	Edinburgh (George Square).	—
<i>Linlithgow</i> (9)	—	<i>Linlithgow Academy</i> . <i>Monthly g.</i>
<i>Lanark</i> (29)	—	Biggar. ,, (<i>Shieldhill</i>). Strathaven (Kype). Airdrie.
<i>Ayr</i> (27)	—	<i>Ailsa Craig</i> . Dalry (Mount Pleasant).
<i>Renfrew</i> (34)	—	<i>Kilmalcolm Waterworks</i> . ,, (<i>St. Oswald's</i>).
<i>Dumbarton</i> (13)	Cardross (Darleith). Arrochar (The Manse).	KilpatrickHills(BurncrooksRes.) Renton (Carman Reservoir). Glen Finlas Reservoir.

<i>Stirling</i> (33)	—	<i>Strathblane</i> (<i>Craigbarnet</i>). <i>Falkirk</i> (<i>Burgh Hospital</i>).
<i>Bute</i> (7)	—	—
<i>Argyll, Main-land</i> (41)	<i>Tighnabruaich</i> (<i>Craigandaraich</i>) 6 in gauge.	<i>Holy Loch</i> (<i>Ardnadam</i>). <i>Loch Fyne</i> (<i>Otter Ferry</i>). <i>Strachur</i> (<i>Tombuidhe</i>). <i>Inveraray</i> (<i>Stronshira</i>). <i>Ardkinglas</i> . <i>Glen Shira</i> (<i>Drimlie</i>).
<i>Argyll, Insular</i> (20)	<i>Islay</i> (<i>Gruinart Post Office</i>).	—
<i>Clackmannan</i> (5)	—	—
<i>Kinross</i> (3)	—	<i>Kinross House</i> .
<i>Fife</i> (18)	<i>Beath</i> (<i>Outh</i>). <i>Colinsburgh</i> (<i>Gilston</i>).	<i>Dunfermline</i> (<i>Broomhall Gdns.</i>)
<i>Perth</i> (37)	<i>Sheriffmuir</i> (<i>Lynns Farm</i>). <i>Glenfarg</i> (<i>U.F. Manse</i>). <i>Perth</i> (<i>Pitcullen House</i>). <i>Dunkeld</i> (<i>Inverbraan</i>). <i>Pitlochry</i> (<i>Donavoured</i>).	<i>Glendevon</i> (<i>Tormaukin</i>). <i>Doune</i> (<i>High Braes</i>). <i>Balquhiddie</i> (<i>Blaircreach</i>). <i>Crieff</i> (<i>Strathearn Hydropathic</i>). <i>Dunsinnan</i> . <i>Glenlyon</i> (<i>Meggernie Castle</i>). <i>Blairgowrie</i> (<i>Rathay</i>). <i>Aberfeldy</i> (<i>Dall Avon</i>).
<i>Forfar</i> (32)	<i>Rescobie</i> (<i>Pitscandly</i>). <i>Kirriemuir</i> (<i>Longdrum</i>). ,, (<i>Glen Dye</i>). ,, (<i>Barney</i>). ,, (<i>Glen Damff</i>).	<i>Arbroath</i> (<i>Muirheads Reservoir</i>). <i>Glen Prosen</i> (<i>Pearsie</i>).
<i>Kincardine</i> (12)	<i>Laurencekirk</i> (<i>Johnstone Lodge</i>).	—
<i>Aberdeen</i> (25)	<i>Beinn Breac</i> . No. 7. <i>Ben Muich Dhui</i> (<i>Carn à Mhaim</i>) No. 5. <i>Buchanness</i> .	<i>Fyvie Castle</i> . <i>Huntley</i> (<i>Cruchie</i>).
<i>Banff</i> (7)	—	<i>Dufftown</i> (<i>Dullan Brae</i>).
<i>Elgin or Moray</i> (6)	—	<i>Elgin</i> (<i>The Manse</i>).
<i>Nairn</i> (6)	—	<i>Nairn</i> (<i>Balnaferry</i>).

<i>West Inverness</i> (26)	Skye (Oronsay). ,, (Dunvegan).	Barra (Castle Bay). Gairloch (Achnacarry). Skye (Lynedale).
<i>East Inverness</i> (11)	—	—
<i>West Ross and Cromarty</i> (13)	Kintail (The Glebe). <i>Stornoway (Butt of Lewis).</i>	Gairloch (The Manse). <i>Ullapool (Drumruinie).</i>
<i>East Ross and Cromarty</i> (9)	Fortrose (Raddery). <i>Achterneed (Glenskiach).</i> ,, (Horsehill). <i>Evanton (Swordale House).</i>	<i>Cromarty.</i>
<i>Sutherland</i> (10)	—	Kinbrace (Borrobol). Strath More (Altnacaillich).
<i>Caithness</i> (11)	—	Berriedale (Langwell). Thurso (Buckies).
<i>Orkney</i> (11)	—	<i>Pomona (Kirkwall).</i> <i>Auskerry.</i>
<i>Shetland</i> (9)	—	—

IRELAND.

<i>Cork</i> (15)	<i>Doneraile (Carker House).</i>	Skibbereen. Monkstown (Gordon Villas). Glanmire (Lota Lodge).
<i>Kerry</i> (9)	—	—
<i>Waterford</i> (11)	—	—
<i>Tipperary</i> (10)	—	*Ballina [Killaloe].
<i>Limerick</i> (5)	—	Limerick (Derravoher).
<i>Clare</i> (10)	*Killaloe. <i>Inagh (Mount Callan).</i>	Newmarket-on-Fergus (Fenloe). *Scariff (Woodpark).
<i>Wexford</i> (10)	Enniscorthy (Monart Rectory).	<i>Foulks Mill (Longraigue).</i> Enniscorthy (Summerville).
<i>Kilkenny</i> (6)	—	—
<i>Wicklow</i> (15)	—	Rathdrum (Avondale). Shillelagh (Coollatin Gardens).
<i>Carlow</i> (4)	—	Tullow (Hardymount).

* Transferred from one county to another.

<i>Queens Co.</i> (4)	—	—
<i>Kings Co.</i> (4)	<i>Birr Castle. No. 2.</i>	—
<i>Kildare</i> (5)	—	—
<i>Dublin</i> (25)	Stillorgan (White Cross). <i>Kingstown (People's Park).</i>	Dundrum (Manor Mill Lodge). Rathmines (Ormond Road). Donnybrook (Belmont Avenue). Howth (Balkill Reservoir). Malahide (Seamount).
<i>Meath</i> (8)	—	Navan (Durhamstown). Drogheda (Mullacroghan).
<i>Westmeath</i> (6)	Streete (Daramona).	—
<i>Louth</i> (4)	—	—
<i>Longford</i> (3)	<i>Longford.</i>	—
<i>Galway</i> (8)	* <i>Woodpark [Scariff].</i> Clifden (Kylemore House).	—
<i>Roscommon</i> (2)	—	Strokestown (Castlenode).
<i>Mayo</i> (9)	—	Dugort (Slievemore Hotel).
<i>Sligo</i> (3)	—	—
<i>Leitrim</i> (4)	—	—
<i>Cavan</i> (5)	—	Killeshandra (Drum Mullac).
<i>Fermanagh</i> (3)	—	Newtownbutler (Crom Castle).
<i>Monaghan</i> (2)	—	—
<i>Armagh</i> (6)	—	Tanderagee. (R).
<i>Down</i> (11)	—	Mourne Mountains (Fofanny Res.)
<i>Antrim</i> (15)	Lisburn (Ulster Provincial Sch.) Belfast (Antrim Road).	Belfast (Oldpark Filters).
<i>Londonderry</i> (6)	Coleraine.	Limavady (Culmore House).
<i>Tyrone</i> (3)	—	Cookstown (Lissan). <i>Newtown Stewart (Barons Court)</i> Sion Mills (Sion House).
<i>Donegal</i> (13)	Lough Eske Castle. Rathmullan.	—

* Transferred from one county to another.

OBITUARY.

IN any association of more than 4,000 people the annual losses by death must amount to a serious number ; but this year, though the list is closed a fortnight earlier than last year, the number is greater than past experience led us to expect. The list which follows includes 74 names, but considering the high average age of the Observers the death-rate of 16 per 1,000 is a very moderate one. We have to record the death of two of the small remnant of the 472 Observers whose names appeared in the first issue of *British Rainfall*, forty-eight years ago, and the list includes many friends, the withdrawal of whose help and encouragement will leave a blank that cannot soon be filled.

We have been able to find the age of 40 out of the 74, and the average of these is 73 years, a remarkably high figure.

The following is a list of the nonagenarians and octogenarians amongst the Observers whose death is recorded.

Observers deceased in 1908-9, of 80 years of age or more.

Mr. Henry Trethewy	94 years.
Rev. William Andson	92 „
Mr. James Batten.....	90 „
Rev. George Ridout.....	88 „
Dr. Samuel Hopkins Steel.....	87 „
Dr. Alexander Ramsay	86 „
Mr. George Washington Moon.....	85 „
Mr. J. Bartlett	84 „
Surg.-Maj. William Galt Black ...	84 „
Mr. William Henry Holmes	84 „
Mr. Robert Stewart.....	84 „
Mr. Joseph Pollard	83 „
Mr. R. Draper	81 „
Mr. John Wornham Penfold.....	80 „

So far as can be ascertained the following roll of honour includes all those who had kept up observations for 30 years or more, those who kept the record continuously in one place being distinguished by a star, and it is interesting to notice that fifteen out of the seventeen are so marked.

Records of Thirty Years and upwards.

NAME.	LAST PLACE OF OBSERVATION.	
*Mr. Robert Draper.....	Seaham Hall Gardens	46 years.
*Miss R. E. Stanton	Upfield, Stroud	42 „
*The Earl of Rosse	Birr Castle	41 „
*Rev. F. J. Young	South Milford Rectory.....	41 „
*Lady Chichester.....	Arlington Court.....	38 „
*Mr. Henry Trethewy.....	Silsoe, Beds.....	37 „
*Mr. J. W. Penfold.....	Haslemere	36 „
*Mr. J. L. Bland.....	Blandsfort, Abbeyleix.....	35 „
*Mr. R. H. Swindlehurst ...	Belmont, Bolton	34 „
*Mr. T. Mellard Reade	Blundellsands.....	33 „
*Mr. David Gillespie	Mountquhanie, Fife.....	33 „
*Dr. T. H. Hayle.....	Rochdale	33 „
Rev. Cecil Mills.....	Bisterne, Ringwood	33 „
Rev. Francis Smith	Hardwicke, Stratford-on-Avon	32 „
*Mr. James Batten.....	The High Field, Bickley.....	31 „
*Mr. Joseph Pollard	High Down, Hitchin	31 „
*Rev. George Ridout	Sandhurst, Kent	31 „

I am sorry that it has not been found possible to give more biographical notes, but it is difficult to ascertain particulars in most cases except of those who were sufficiently prominent in the view of the public, to be included in works of reference or to be the subjects of notice in the press.

The list contains the names of 9 clergymen, 3 medical men, 7 officers in the Navy or Army, and 6 ladies.

REV. WILLIAM ANDSON was one of the last of the pre-Disruption ministers of the Free Church of Scotland, a statement which tells every native of Scotland that he had reached manhood before 1843. He was indeed born in 1817, in Arbroath, licensed to preach in 1841, and ordained in 1844 to the Free Church of Kirkmahoe, Dumfries, of which charge he was senior minister at his death, 55 years later, though for the last twenty-five years his health had prevented him from performing active duties. He had many scientific interests, and I knew him as an active meteorologist for more than twenty years, having met him first in 1887, when I was engaged on a research into the temperature of rivers, in which he co-operated enthusiastically by observations on the river Nith. His interest in meteorology was then that of a beginner, as he had only recently undertaken the care of a station at the request of the proprietor of the *Dumfries Standard*, in which journal the records have been published weekly ever since; but the activity of his mind never flagged

*Continuous record in one place.

and his enthusiasm was as keen at the last as it had been at first. Indeed, many of his friends thought it was too much for his strength to prepare the numerous reports he undertook, for in addition to the regular publication in the local paper, he corresponded with the Scottish Meteorological Society, the Royal Meteorological Society, and *British Rainfall*. But his daughter thinks that the sustained interest really served to prolong his life. He kept up the observations to the last, for he had just come from reading the instruments in the garden when he was attacked by a slight shock which marked the beginning of an illness that proved fatal in ten days. He died on March 17th, 1909, within six weeks of completing his ninety-second year.

MR. ALBERT JAMES BEAVAN, J.P., of Holt, Trowbridge, died on December 8th, aged 66. He was a native of Holt, and in his early days he followed the sea, his service in the Hon. East India Company's ships having impressed him with a sense of the value of discipline and the claims of duty, which remained a leading characteristic. He was subsequently engaged as a leather manufacturer in Holt, was an Alderman of the County Council, Chairman of the Bradford Board of Guardians, and of the Rural District Council, and was connected with almost every public movement in his neighbourhood. His genial disposition and cheerful humour made him a universal favourite. Whatever he undertook he carried out, no matter how great the inconvenience to himself, and his last illness was brought on by a long bicycle ride to attend a public meeting in bad weather. He took up rainfall observations on the death of his friend, Major Gritton, in 1885, continuing the record which the Major had established, and he stuck to the observations to the last, insisting, until within a few days of his death, on having the readings brought to him in bed, and himself entering them in the book. The latest entries are almost illegible, the will to keep them up outlasting the power to use a pencil.

SURGEON-MAJOR WILLIAM GALT BLACK, a native of Bolton, studied at the University of Edinburgh, and joining the medical service of the Army went through the Crimean war with what is now the Devonshire regiment, then known as the 11th Foot. Subsequently he spent ten years in Africa, and wrote an account of his experiences there. His frequent voyages, at a time when steam navigation was hardly known on the ocean, turned his attention to meteorology, and he retained to the end of his life a special interest

in marine observations. He devised a marine anemometer on the principle of measuring the pressure of the wind on a model sail, and a marine rain gauge swung on gimbals ; and he made an important study of the little known subject of ocean rainfall. Dr. Black settled in Edinburgh when he left the Army, and for many years he frequented the meetings of the British Association, and often took part in the Meteorological Breakfasts.

MR. JOHN LOFTUS BLAND, of Blandsfort, Abbey Leix, Queen's County, was born in 1841, the son of Mr. Loftus Henry Bland, Q.C., at one time M.P. for King's County. Mr. J. L. Bland was an officer of the 6th Inniskillings, but left the Army on the death of his father in 1872, and settled at Blandsfort, the family mansion, which had been built by an ancestor in 1715. Much interested in field sports, he entered fully into the life of a country gentleman, but a serious hunting accident in 1875 compelled him to relinquish the more active pursuits, and he turned his attention to farming. Later horticulture attracted him, and he did much to improve the famous gardens at Blandsfort. He was no less interested in literature, and added many modern historical works to the fine library he had inherited. Mr. Bland had been particularly interested in the study of the weather from boyhood, and kept a continuous meteorological record from 1874 to November 19th, 1908, nineteen days before his death. He took the observations personally each morning, and on the very rare occasions when he was from home the gardener was instructed to post the records to him daily. He was a man of quiet and unassuming manners, a friend of rich and poor alike. Mr. Bland was twice married, and the record of rainfall which was continued by his widow, is, I hope, now being kept up by his son.

LADY CHICHESTER, widow of Sir Arthur Chichester, Bart., of Raleigh, and formerly of Sir Alexander Chichester, Bart., of Arlington Court, took a keen personal interest in meteorological observations, and frequently reported interesting facts as to the weather to *The Times* and other publications. These records have appeared in *British Rainfall* since 1875, and we are happy to know that they are being continued at Arlington Court by Miss Chichester.

MR. WILLIAM CLOUGH, of the Knowle, Keighley, who died at the age of 74, on April 26th, 1908, retired from the business of a worsted spinner about 20 years ago, and devoted himself to the public affairs of the town as Magistrate, Alderman and Guardian of the Poor. He had been connected with the Town Council for more than 40

years, and had had a great deal to do with the construction of the Waterworks. He was always interested in the weather, but his experience as a practical Observer began in 1881, when he started a rain gauge, though his records did not appear in *British Rainfall* until 1896. Mr. Clough took a keen interest in the publications of the Organization, and always responded cheerfully to any requests for special information on points of interest. The record, I am happy to say, is being continued by his son.

MR. GEORGE FREDERICK DEACON, LL.D., one of the leading Waterworks engineers practising at Westminster, was a life-long friend to the Rainfall Organization, although by a curious chance his name as an authority for the records under his charge has only appeared in *British Rainfall* since 1907. Mr. Deacon was born at Bridgwater in 1843, but no one who saw his alert and active figure would have suspected that he was in his sixty-sixth year at the time of his death. On the morning of March 17th, 1909, he was in his usual health, and at 1 o'clock was sitting in his office discussing some plans with his assistant, when he suddenly fell dead from heart disease. I had known Mr. Deacon for twenty years, meeting him annually at the gatherings of the British Association, where I was introduced to him by Mr. Symons; and when in 1896 he was President of the Engineering Section at the Toronto meeting of the Association, we travelled to Canada and back in the same ship. On many occasions afterwards I have been with him inspecting or laying down rain gauges in connection with waterworks, in the construction of which he was engaged, and I was attracted by the scientific as well as the professional interest which he took in his work. While sacrificing nothing required for security or utility, he took a pride in making a great reservoir a thing of beauty and an enhancement of the natural charm of the valley in which it lay.

Mr. Deacon was the author of an important article on Water Supply in the *Encyclopædia Britannica*. He was a Member of the Council of the Institution of Civil Engineers, and but for the fact that he had ceased to reside in London, he would a few years ago have joined the Council of the Royal Meteorological Society also.

He studied at the University of Glasgow, which gave him the honorary degree of Doctor of Laws a few years ago, and soon after he left it he accompanied the Atlantic Telegraph Expedition on board the *Great Eastern*, in 1865, as assistant to Professor William Thomson, afterwards Lord Kelvin. He was for a time Engineer to

the City of Liverpool, and the work by which he will be best remembered was the creation of Lake Vyrnwy, in the upper waters of the Severn (commenced in conjunction with the late Mr. Thomas Hawksley) for the water supply of Liverpool. His last important work was the design of a great system of reservoirs in the valley of the Alwen, a tributary of the Dee, for the supply of Birkenhead.

Throughout his strenuous life, Mr. Deacon seemed never to feel the need of recreation, and it was only last year, when he went to reside at Coombe Wood, Addington, that the charms of the magnificent rock-garden attached to his house began to draw his mind towards gardening as a relaxation.

MR. ROBERT DRAPER, the veteran gardener at Seaham Hall, kept a record of rainfall there for 46 years; for 42 years it was concurrent with the record kept by the late Rev. A. Bethune, at Seaham Vicarage. Mr. Draper sent in his record for 1908 with characteristic promptitude on January 2nd, 1909, with a letter in which he said that he had had a long illness, but was now fairly well considering his age; but he died at the age of 81, within two months of writing. I much regret that the record will not be continued.

MR. HENRY STORKS EATON, who died on February 7th, 1909, at the age of 75, was a Cambridge graduate, and as a young man he assisted Mr. Nathaniel Beardmore in compiling tables of rainfall and evaporation for his well-known "Manual of Hydrology," published in 1862. He had commenced making meteorological observations of a kind as a boy of 15, in 1849, and he was one of the Observers whose record (at Little Bridy, Dorset) was quoted in *British Rainfall* 1860-61, indeed, it had appeared in the quarto pamphlet, "English Rainfall 1860." He was for many years one of the officers of the Institution of Civil Engineers; he had been a Fellow of the Royal Meteorological Society for more than 50 years, and served as President during the years 1876-77. It was during his term of office that the Fellowship of the Society was first extended to ladies. He lived for some time at Croydon, and organized the meteorological work of the very active Croydon Natural History Society, starting the elaborate monthly Tables of Rainfall now compiled by Mr. F. Campbell Bayard. He subsequently made Dorchester his principal residence, though he travelled and lived much abroad, and he carried on the work of organizing the rainfall statistics of Dorset, as he had done those of the Croydon district, preparing the Tables for the

Dorset Natural History Field Club, which are now brought out by Mr. H. Stilwell. Mr. Eaton used to pay an annual visit to Camden Square to compare the Dorset records with those sent in for *British Rainfall*, and his scrupulous care in checking and verifying the returns was always of the greatest value. I have the pleasantest recollection of these visits, for Mr. Eaton was a man of kindly and genial temperament, his wide experience and extensive travels making him a most interesting companion. He was the author of many papers on meteorological subjects, and though not observing in recent years, he was always one of the staunchest friends of the Rainfall Organization, to which his death is a serious loss.

MR. H. C. HART, of Carrablagh, Co. Donegal, died on August 7th, 1908. He was a man of high attainments, and although more inclined to scholarship than science, no one was more keenly interested in meteorological observations. He kept a record at Carrablagh for 20 years, a summary of which he sent me a few months before his death, expressing the wish that it would be published in *British Rainfall*, where he thought it would be more likely to attract the attention of those interested than in any other publication. I am happy now to carry out his wishes (see p. 35), and it is satisfactory to know that his friend and neighbour, the Rev. A. C. Digby French, has undertaken to superintend the Carrablagh record and see that it is continued.

GENERAL THE HON. WILLIAM HENRY HERBERT, son of the second Earl of Powis, was born in 1834, educated at Eton, and entering the Army in 1852, served in the Crimean war. He resided latterly at Winsley Hall, near Shrewsbury, where he interested himself in local affairs, serving as Mayor of Shrewsbury in 1889-90; his rainfall record appeared first in *British Rainfall*, 1906.

MR. HENRY HEYWOOD, J.P., of Witla Court, Glamorgan, died on July 11th, 1909, at the age of 67. He was a native of Worksop. In his youth he was engaged in the engineering department of Messrs. John Brown & Co., of Sheffield, but came to Cardiff in 1870, and carried on business there. He was an earnest student of nature, and took special interest in meteorology, not only keeping up observations at his own residence, but collecting a number of other records from South Wales, which he discussed and published in the *Transactions* of the Cardiff Natural History Society; his annual reports being an important feature of that publication.

MR. W. H. HOLMES, who died on July 3rd, 1908, in his 84th year, was a native of Newcastle-on-Tyne, where he carried on the business of glass merchant, and later, in partnership with his five sons, that of paint and colour manufacturers and electrical engineers. He retired from active business work in 1899. For over 50 years he was closely identified with the management of the Newcastle Royal Infirmary, the Newcastle Dispensary, the Industrial Schools, and many philanthropic movements for the benefit of his native city. He laid out and took a lively interest in the garden surrounding his residence, Wellburn, which he built in 1879, and here a sundial was erected by his children to commemorate his golden wedding. He was a keen observer of rainfall, and his records cover a period of 28 years. The record at Wellburn, started in 1880, is being continued by his son.

THE MACLAINE OF LOCHBUIE, the twenty-first chief of the Clan Maclean, was born in the island of Java in 1845, and after education at the Edinburgh Academy, he entered the 6th Dragoons Guards, from which he retired as Captain in 1870. He acted as correspondent for *The Times* during the Franco-Prussian war, and in this capacity was present at the battles of Gravelotte, Strasburg, Metz and Thionville. He took great pride in his estate of Lochbuie, in the Isle of Mull, and was for many years keenly interested in the development of the local fisheries. He had a meteorological station at Lochbuie, in connection with the Scottish Meteorological Society, and he also established a rain gauge at Kinlochspelve. The MacLaine died on April 5th, 1909, aged 63 years.

MR. GEORGE WASHINGTON MOON was a close personal friend and relative by marriage of Mr. Symons, and he was one of the very few survivors of the group of rainfall Observers whose names appeared in the first volume of *British Rainfall*, that for 1860-61. He assisted Mr. Symons with a great deal of his literary work, and in particular spent much time in the British Museum, ransacking old serials for records of rainfall, many of the earliest records preserved at Camden Square being in his handwriting. He also helped Mr. Symons in his investigation of the floating island in Derwentwater. Mr. Moon was a lover of literature and art. He wrote two volumes of poems and several books on scriptural subjects, and he was a collector of pictures and an art critic, whose opinions were received with respect. He resided latterly at Brighton, and died on March 11th, 1909, in his 86th year.

MR. JOHN WORNHAM PENFOLD, of Haslemere, died on July 5th, 1909, at the age of 80. He was an architect and surveyor, and to him is largely due the good architectural taste which has preserved Haslemere in developing from a rural village into a residential district, almost a suburb of London, from being vulgarised and spoilt. Mr. Penfold built and endowed a cottage hospital in Haslemere, and he kept up a rainfall record there for the long period of 36 years.

MR. JOSEPH POLLARD, of High Down, Hitchin, died on May 29th, 1909, at the age of 83. He was a scholar, and devoted much attention to Biblical Archæology, his large library being particularly rich in works on this subject. His house was a finely preserved Elizabethan mansion on the summit of a spur of the Chiltern hills. When I was visiting him on one occasion, Mr. Pollard pointed in the direction of Cambridge, where the horizon was occupied by distant trees which had grown up in his life-time, so as to shut out the view of Cambridge, which although 26 miles distant was formerly so distinct that from his library window at High Down he could see the roof of his old college. Mr. Pollard had observed rainfall for 31 years.

THE REV. WILLIAM QUENNEL, honorary Canon of St. Albans, who died at his Rectory on October 24th, 1908, aged 69, after a prolonged illness, had for upwards of 35 years been an enthusiastic observer of rainfall. He began to keep a record at the time when he was Headmaster of Brentwood School, a post which he resigned in 1879, and continued to do so both at Tring, Herts, where he was Vicar from 1881 to 1892, and at Shenfield, Essex, of which place he was Rector from 1892, until his death. When at home, and until failing health prevented it, he always checked and entered the daily measurement himself, and several of his friends became Observers at his suggestion, and exchanged notes of their records with him for comparison. Canon Quennell graduated at Worcester College, Oxford, with a 2nd class in Lit.Hum. in 1861; he was also a good mathematician, and had some considerable knowledge of astronomy. Among his many interests it may be noted that he was an active Freemason, being a Past Grand Chaplain of England. He had been a Proctor in Convocation for the diocese of St. Albans; for 10 years he had been Rural Dean of Barstable (or Brentwood), and had previously held the like office at Berkhamsted; he was a member of the local Board of Guardians, and had for many years been Chairman of the Governors of Brentwood School. Canon Quennell was twice

married, but had been a widower since 1881; he had one child, a daughter, who survives him. I am indebted for these particulars to Mr. H. B. Vaizey, who has kindly arranged to continue the valuable record at Shenfield.

MR. THOMAS MELLARD READE, of Blundellsands, near Liverpool, died on 26th May, 1909, at the age of 77. He was an architect by profession, but he is best known as an enthusiastic geologist, the author of very numerous scientific papers, and of an important book in which he developed a new theory of the origin of mountains. Mr. Reade kept up observations of rainfall at Blundellsands for 33 years. He bequeathed his geological collections to the University of Liverpool.

THE REV. GEORGE RIDOUT, who had been rector of Sandhurst, near Hawkhurst, Kent, for fifty-one years, died on October 25th, 1908, at the great age of 88. He had always been much interested in meteorology, and kept full records of the weather for many years, his rainfall record extending back to 1878 without a break. Mr. Ridout's daughter most considerately arranged for the observations to be continued to the end of 1908, thus completing thirty-one years. Mr. Ridout spent much time in analysing his records and getting out means for various seasons and periods, and, as is often the case with Observers, he was gifted with a remarkable memory for figures. His interesting way of putting the variations of rainfall, and the comparison of present conditions with the past before his friends, was the means of starting many other Observers.

THE EARL OF ROSSE, K.P., F.R.S., though mainly devoted to astronomy was always interested in meteorology, and when he attended the meetings of the British Association he was usually present at the Meteorological Breakfast. He kept up the famous observatory at Birr Castle founded by his father, the third earl, who built the great reflecting telescope and started the rainfall record in 1862, which, from the time of his succession, was continued by Lord Rosse who was warmly interested in the Rainfall Organization. He was one of the leaders of scientific life in Ireland, and served as president of the Royal Dublin Society and of the Royal Irish Academy. He died on August 29th, 1908, aged 68.

MISS ROSE EMILY STANTON, of Upfield, Stroud, was one of a family of Observers of the weather. Her brother, the Rev. A. H. Stanton, of St. Alban's, Holborn, shared this interest, and her elder

sisters, the late Mrs. Devas, of Colwell, Malvern, and the late Miss Stanton, of Stoke, Newark-on-Trent, used to send records for *British Rainfall*. The observations at Upfield are being carried on by Miss Emily Rose Stanton, the twin sister of Miss Rose Emily Stanton.

MR. WILLIAM ROBERT MAURICE WYNNE, of Peniarth, died on February 5th, 1909, at the age of 68. He had been Member of Parliament for Merionethshire, Lord-lieutenant of the county and Constable of Harlech Castle. He was greatly interested in Welsh archæology and had the largest and most valuable collection of ancient Welsh manuscripts that has ever been brought together, including many of the Arthurian romances and the oldest and only perfect copy of the Holy Grail.

Observers Deceased to July 31st, 1909.

Small capitals designate Observers with 30 years' records.

Anderson, Rev. Prebendary	
Wm. Paley	Winsford, Dulverton.
*Andson, Rev. William.....	Ivy Bank, Dumfries.
Ashton, Charles H.	Ellesmere, Salop.
Bartlett, J.	Bramley, Guildford.
Bathe, J. Innes	Clonmore, Northam.
Batt, Col. T. E.	Rathmullan, Co. Donegal.
BATTEN, JAMES, J.P.	The High Field, Bickley.
Beattie, A.	Colmonell, Ayrshire.
*Beaven, Albert James, J.P.	Holt, Trowbridge.
Bell, Richard	Castle O'er, Langholm.
*Black, Surgeon-Maj. Wm.	
Galt	George Square, Edinburgh.
*BLAND, JOHN LOFTUS, J.P.,	
D.L.	Blandsfort, Abbey Leix, Queens Co.
Brown, Miss Bella ..	Gruinart, Islay.
*CHICHESTER, LADY ...	Arlington Court, Barnstaple.
Cleasby, Richard Digby, J.P.	Penoyre, Brecon.
*Clough, William.....	The Knowle, Keighley.
Cole, Hon. Arthur Edward	
Casamajor	Keswick Lodge, Norwich.
Cousland, A. S.	Craigandaraich, Tighnabruaich.
*Deacon, George Frederick,	
L.L.D., C.E.	16, Gt. George Street, S.W.
*DRAPER, ROBERT.....	Seaham Hall Gardens, Seaham.
Drought, Rev. Canon George	
Meares	Newtownmountkennedy, Co. Wicklow.
*Eaton, Henry Storks ..	Whitehall Gardens, S.W.
Forbes, J.	Cauldhame, Doune.
Foster, Col. William Henry	Hornby Castle, Lancs.
Galton, Lady	Himbleton Manor, Droitwich. .
GILLESPIE, DAVID.....	Mountquhanie, Fife.
Hamersley, Edward Samuel	Pyrton Manor, Watlington, Oxon.
*Hart, H. C.	Carrablagh, Co. Donegal.

* See Biographical Notes *ante*.

Hawarden, Viscount.....	White Hill Chase, Liphook.
HAYLE, DR. THOMAS	
HAHNEMANN.....	Drake Street, Rochdale.
Helps, Arthur Spry	The Knap, Gt. Witcombe, Glos.
*Herbert, Major Gen. Hon.	
Wm. Henry	Winsley Hall, Shrewsbury.
*Heywood, H., J.P.	Witla Court, Cardiff.
*Holmes, William Henry.....	Wellburn, Newcastle-on-Tyne.
Honeyman, W.	Dunkeld, Inverbraan, Perthshire.
Jack, Prof. Alexander.....	Queen's College, Cork.
Jacomb-Hood, Francis.....	Redlands, Emsworth, Hants.
Judson, H.	Cowley, Uxbridge.
Lewis, Charles	Kibbys, Staplegrove, Taunton.
*Maclaine of Lochbuie.....	Lochbuie Castle, I. of Mull.
Maitland, Mrs. W. J.	Witley Manor, Witley, Surrey.
Marston, Arthur	Dover.
Metcalfe, Rev. Robert	
Weston	Ravenstonedale, Westmorland.
MILLS, REV. CECIL.....	Bisterne, Ringwood.
*Moon, Geo. Washington.....	Sussex Square, Brighton.
Moore, H. Cecil... ..	Broad Street, Hereford.
Packe, Hussey	Prestwold Hall, Loughborough.
*PENFOLD, JOHN WORNHAM	Courts Hill, Haslemere.
*POLLARD, JOSEPH	High Down, Hitchin.
Potter, H. T.	Letchworth, Hitchin.
Priestman, John P.	Bradford, Yorks.
*Quennell, Rev. Canon Wm.	Shenfield Rectory, Essex.
Ramsay, Alexander. LL.D.	Earlhill, Banff.
*READE, THOMAS MELLARD	Blundellsands, Liverpool.
Reynolds, Capt. Arthur	
Sutherland	Cadenham, Hants.
*RIDOUT, REV. GEORGE....	Sandhurst, Kent.
Roberts, Arthur	Oakleigh, Court Road, Eltham.
Roper, William Oliver	Yealand Conyers, Carnforth.
*ROSSE, THE EARL OF, K.P.,	
F.R.S.	Birr Castle, Kings County.
Shoults, George Barrett	North Finchley, N.
SMITH, REV. FRANCIS.....	Hardwicke, Stratford-on-Avon.
Smith, F. Abel	Cole Orton Hall, Ashby-de-la-Zouch.
*STANTON, MISS ROSE EMILY	Upfield, Stroud.
Steel, Samuel Hopkins, M.B.	Dyne House, Abergavenny.
Stewart, Robert	Kinlochmoidart, Inverness.
Swindells, R., F.R.G.S	Oxford Road, Birkdale, Southport.
SWINDLEHURST, ROBERT	
HENRY, C.E.	Town Hall, Bolton.
Thompson George Arthur ..	Register House, Beverley.
TRETHERY, HENRY	Silsoe, Bedfordshire.
Turner, Joseph	N. Level Engine, Crowle, Doncaster.
*Williams, Griffith.....	Beddgelert
Wilson, Mrs. C. Macro	Waldershaigh, Bolsterstone, Yorks.
*Wynne, William Robert	
Maurice.....	Peniarth, Towyn.
YOUNG, REV. FREDERICK	
JOHN	South Milford Rectory, Yorks.

* See Biographical Notes *ante*.

RAINFALL AND METEOROLOGY
OF
1908.

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. The designation "F.R.Met.Soc." is added to the names of those Observers whose interest in Meteorology has led to their becoming Fellows of the Royal Meteorological Society.

It is understood that the Notes refer in each case to extreme or exceptional rather than to normal phenomena. The Notes on the Days are occasionally supplemented by short extracts from the newspaper press or by illustrations. 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 rain 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 1908,

With Notes on some of the Principal Phenomena.

NOTES ON THE DAYS OF 1908.

These Notes should be read in conjunction with those on Heavy Rains in 1908.

JANUARY.

3rd.*—*Dartmoor* (V).

“Owing to the leat on Dartmoor, by which Devonport and the naval establishments are supplied with water, being frozen, arrangements had been made with Plymouth to supply the Devonport Corporation with 2,000,000 gallons daily until the leat had been cleared sufficiently to replenish the reservoir which . . . only contained about two days' supply.”

—*Tiverton* (V). River Exe frozen, a very unusual occurrence.

5th.—*Peterborough* (III). The Great Northern Railway was running special excursion trains to the Fen Country for skaters.—*Inveraray* (XV). In 12 hours 1·56 in. of R fell.

6th—7th.—*Goring* (III). Heavy storms of H, S and R during night, when 1·19 in. fell. By 8th all the meadows were flooded.

7th.—A deep depression crossed the British Isles from west to east, giving rise to strong gales endangering shipping and to widespread heavy R or S.—*Ramsgate* (II). Heavy fall of S caused much damage to telephone wires, &c.—*Kensworth* (III). Heavy R during night and early morning. S fell to a depth of 5 inches.—*Forfar* (XVI). E. gale caused a good deal of damage.

8th.—*Tenterden* (II). S, which fell fast, covered the ground to a depth of 4 inches. The S was wet, and did a good deal of damage to trees.—*Tottingworth Park* (II). The landscape was grand in the morning, when 9 inches of S lay on the open lawn. The wreck was the worst experienced here. Great oak limbs were wrenched off, pines blown over, and shrubs like the arbutus and rhododendron were splintered and split.

* See also *Met. Mag.*, April, 1908, p. 50.

9th.—*Canterbury* (II). On the road between this and Herne Bay almost all the telephone posts were blown over to an angle of 45° .

12th.—*St. Pancras, Camden Square* (I). Min. temp. $17^{\circ}\cdot 1$, the lowest temp. of the winter. Skating was general over south central England.

13th.—*London* (I).

“The Thames presented a very curious sight, and one which is very seldom seen. From the early morning, when the tide began to recede, until late in the day when it rose again, blocks of ice came floating with the stream from the higher reaches of the river. All day people crowded the bridges and the Embankment to watch the miniature icebergs floating down amongst the shipping. There was no impediment to the general traffic, but some barges which had been laid up close to the banks overnight were caught in the ice-floe and held fast. The staging erected for the widening of Blackfriars Bridge was ice-bound, the tide in its recession having piled up tiers of ice to the height of about 15 ft.”—*The Times*.

14th—16th.—*Rousdon* (V). Continuous dense fog.

15th.—*Kendal* (X). The level of the river was higher than it had been for 20 years.

15th—16th.—*Seathwaite* (X). Great storm between 8 p.m. 15th and 8 a.m. 16th, when 3.30 in. of R fell and houses were flooded.

18th.—*St. Pancras, Camden Square* (I). Fog in evening, becoming thick towards midnight.

18th—21st.—Dense fogs prevailed in anticyclonic weather over the greater part of England.

20th—21st.—*St. Pancras, Camden Square* (I). Dense fog in night. Very black between 8.30 and 10 a.m. on 21st.

23rd—24th.—Thick fog prevailed over the greater part of England. —*St. Pancras, Camden Square* (I). Thick fog throughout 23rd and until midday on 24th. Between 3.30 and 5.30 p.m. on 23rd, objects could not be distinguished at a distance of 4 or 5 yards.

25th.—*Strachur* (XV). Rose bushes in bud and new leaves.

27th.—*Glasgow* (XIV).

“A serious accident occurred in the shipbuilding yard of Messrs. Beardmore & Co., Dalmuir, yesterday afternoon, when during the height of the storm a crane was blown down, doing great damage, and throwing two men into the river. The crane was being used in the construction of the battleship *Agamemnon*, and was lifting some heavy plates when a severe gust of wind made it sway over the rails and it collapsed. With the crane, which weighed about 20 tons, went the cranehouse and the two men therein, James McDonald, Hill View Terrace, Clydebank, and Archibald Campbell, Patterson Street, Dalmuir, who were both drowned.”—*The Times*.

28th.—*St. Pancras, Camden Square* (I). Sharp H storm at 2 p.m. lasting for 10 minutes.—*Horsham* (II). Two flashes of L, closely followed by T, at 2.30 p.m.—*Ticehurst* (II). A violent H storm lasting about 15 minutes was encountered when driving about $3\frac{1}{2}$ miles from Ticehurst, towards Wadhurst.—*Raunds* (III). TS at 4.30 p.m.—*Lynmouth* (V). Severe TS, with H and R. Gale in evening.

31st.—*Drumnadrochit* (XVIII). Three and a half inches of S fell, accompanied by heavy wind squalls.

FEBRUARY.

22nd.*—Gales were experienced in many parts of the British Isles ; and several instances of badly secured rain gauges being blown over by the wind were reported.—*Ticehurst* (II). A sudden and violent gale sprang up in the afternoon, doing considerable damage to trees, and ceasing about 7 p.m.—*Bennington* (III). Sharp squall, injuring trees and roofs.—*Thorney* (III). Terrific gale from S.W. at 4 p.m.—*Wisbech* (III). At Ferrington St. John, near Wisbech, a wooden windmill, working on a pivot, and believed to be a hundred years old, was blown over. The owner, a farmer and miller named Isaac Stacey, 56 years old, who was grinding corn at the time, was killed.—*Yarmouth* (IV). The anemometer recorded a wind velocity of 90 miles per hour.—*Norwich* (IV). Although the morning had been rough and the bar. fell somewhat rapidly, there was nothing to indicate so severe a visitation as that which came with great suddenness at 4.30 p.m. At this hour the sky suddenly became black with heavy drifting clouds, the wind rose to almost the force of a hurricane, and heavy squalls of H and R were accompanied by vivid and startling flashes of L and loud peals of T, some of which were almost overwhelmed by the noise of the wind. The storm lasted but little more than 10 minutes, after which the sun shone brightly, and cast a strange lurid light on the landscape, and on the receding dark clouds. The L continued for some time after the sun had begun to shine, and the effect was very weird. The damage done to buildings and trees both by the wind and L has had nothing to approach it since the memorable gale of March 24th, 1895.—*Burghill Court* (VI). Gale from W. Many elm and apple trees were blown down.—*Wolstaston* (VI). Terrific gale between 2 and 3.30 p.m.—*Coventry, Kingswood* (VI). Sharp storm about 3.30 p.m., lasting about

* See also *Met. Mag.*, March, 1908, p. 36.

30 minutes, and finishing with a flash of forked L and a clap of T.—*Hoar Cross* (VI). A hurricane from 3 to 3.30 p.m. blew trees down in all directions.—*Birmingham* (VI).

“The full force of the gale was felt in the Spring Hill district, and a great deal of damage, amounting probably to several thousands of pounds, was done at the Birmingham Workhouse and Infirmary. At the former institution eleven aged men were injured, several severely, one dying this morning. Among the residences which suffered was that of Mr. Jesse Collings, M.P., known as Southfield, Church Road. The chimney stack was blown down, and fell on the roof of an annexe used for cooking and kitchen purposes. The roof of this building was greatly damaged by the chimney falling through. Mr. Collings, who was in his study at the time, heard the crash, and, going out, found the kitchen about four feet deep in bricks and other debris.”

—*Waltham-on-the-Wolds* (VII). Hurricane, accompanied by T, L and H, did much damage. It commenced at 3.23 p.m., when the wind was W.S.W., but suddenly veered to due W., and again a few degrees nearer W.N.W. This peculiarly sharp twist did the excessive damage. Few weak things could resist the torsion accompanied by a gale blowing at 100 miles an hour. A church pinnacle was torn off, roofs were blown in, chimneys wrecked, windows damaged, stacks blown away, fowl-houses destroyed and fowls were killed. It lasted only 4½ minutes, and .16 in. of R fell.—*Welbourn* (VII). Furious wind, with T, L and H.—*Grimsby* (VII). Wind of hurricane force from 1 to 5 p.m., with TS lasting 2½ hours and extremely vivid L.—*Mansfield* (VII). Terrific gale, with T, H and L. Many trees were blown down.—*Wirksworth* (VII). Violent W. gale, with T and severe H storm at 2.45 p.m.—*Chelford* (VIII). A fierce gale in the afternoon, which did much harm. Trees were blown down everywhere, besides tops of trees and branches.—*Wigan* (VIII). Heavy gale caused much damage. Two trees were blown down, and falling across the tram lines, stopped the traffic. A large branch was torn off a poplar, ivy was torn from a wall, and slates were wrenched off a stable roof.—*Broughton-in-Furness* (VIII). Wild, stormy day, with heavy showers of H, R and sleet. The wind attained great violence at about 1.30 p.m.—*Wath-upon-Deerne* (IX). TS at 3 p.m. House struck by L.—*Meltham, Harewood Lodge*. (IX). Gale in the afternoon. Bar. fell .58 in. in seven hours.—*Kendal* (X). Very heavy gale, with H, S, T and L, and wind blowing at 50 miles per hour. One vivid flash of L struck the switch used for firing the time gun, and a spark about a foot long shot out from it and cracked

like a rifle.—*Henry's Moat* (XI). Severe T and L during S storm.—*Dumfries* (XII). N.W. gale. Considerable damage was done to the woods and houses.—*Lincluden House* (XII). Wind blowing with gale force, and shifting from S. to N.W., with distant T and driving R. The bar. fell 0·30 in. in 3 hours.—*Moniaive* (XII). Heavy gale, with a few peals of T and very vivid L.—*Donegal* (XXIII). A train from Burton Port, county Donegal, was crossing the viaduct over the Owencarrow Valley when the carriages were blown off the rails, and were only prevented from falling into the river below by coming into contact with the parapet.

24th.—*St. Pancras, Camden Square* (I). Sharp H shower at 4 p.m.

27th.—*Castle O'er* (XII). S all day and heavy fall of S at night, which lay to a depth of $8\frac{1}{2}$ inches.—*Colmonell* (XIV). Heavy S and H showers, with L.

28th.—*Gravesend* (II). A violent squall about 2 p.m. was followed by S and absolute calm for 10 minutes, then strong wind again from N.W.—*Crewkerne* (V). Tremendous H storm at 5.45 p.m. for 5 minutes.

29th.—*Bridgwater* (V). Eight inches of S fell from 7 to 10.30 a.m.—*Waltham-on-the-Wolds* (VII). Singular refractive sunset. Two extra images were seen, one 3° to N., another 3° nearer the zenith. Directly these vanished the whole northern heavens assumed a wild and lurid aspect from the fracto-nimbus clouds touched with gold, and ·10 in. of R fell.—*Wearhead* (X). S fell to a depth of 14 inches.

MARCH.

1st.—*St. Pancras, Camden Square* (I). S fell at 1.30 p.m., and continued with intervals all day.—*Rannoch* (XVI). A passenger train from Glasgow to Fort William and two relief trains, one from each direction, were all snowed up on February 29th on the West Highland Railway near here, and passengers were thereby delayed 27 hours.—*Drumnadrochit* (XVIII). Roads almost impassable owing to great depth of half-melted S, which fell on February 29th.

2nd.—*Harescombe Grange* (VI). S on the ground to a depth of about $4\frac{1}{2}$ inches.—*Oystermouth* (XI). TS.

3rd.—*Stockbridge, Ashley* (II). R commenced about 3 p.m., but only fell for 15 minutes, when it changed to S. At 5 p.m. the rate of fall greatly increased, and it continued heavily until past 8 p.m., and ceased about 11 p.m. Many shrubs, bushes and ivy-covered trees, had branches broken.—*Kingsclere* (II). Heavy S storm, doing

much damage to trees and yielding 1.63 in.—*Shrewton* (V). Wet S for 13 hours, lying to a depth of about 5 inches. Telegraph wires were broken down all over the district.—*Wilcot* (V). S falling all day. It commenced at 7 a.m. with N.W. wind, which changed to S.W. in the afternoon. Trees and shrubs were broken, and the church clock stopped at midnight owing to the S collecting on the hands.—*Mildenhall* (V). S 18 inches deep.

18th.—*Edinburgh* (XIII).

“The pall of fog made the morning one of the darkest of the year. Artificial light had to be used everywhere, and citizens groped their way to business in semi-darkness. As the forenoon advanced matters grew worse instead of better, and at noon it was darker in the city than it was at midnight. Day had entirely disappeared—in fact, it had never dawned—and a pitchy blackness, which was more impenetrable than the ordinary darkness of night, enveloped the city. Probably never in the memory of living inhabitants in the city has such a thing occurred. The authorities had not risen to the occasion, and the consequence was that neither the electric nor gas lamps in the city were lighted.”—*Edinburgh Evening Dispatch*.

24th.—26th.—*Hodsock Priory* (VII). Continuous R from 7.15 p.m., 24th to 8.30 a.m., 26th, a duration of $37\frac{1}{4}$ hours.

25th.—26th.—*Epsom* (II). Continuous R from 4 a.m., 25th, to 10 a.m., 26th, a duration of 30 hours.—*Gloucester* (VI). Aurora.

27th.—*St. Pancras, Camden Square* (I). Extraordinary darkness at 8.30 a.m., artificial light having to be used until 10.30 a.m.

28th.—*Drumnadrochit* (XVIII). The highest flood for many years.

30th.—*Chiddingfold* (II). A rough night, with L to N.E. at midnight.—*Gloucester* (VI). Remarkable squall from N.W. about midnight, accompanied by R, H, T, L and violent wind, causing pandemonium for about half an hour.

31st.—*Watford* (III). TS at 1.55 a.m. Distant T was followed by vivid L and two loud peals.—*Goffs Oak* (III). A sudden flash of L and simultaneous peal of T, with heavy gusts of wind from S.W., at 2.15 a.m.—*Haileybury* (III). TS at 2.10 a.m., with heavy H and R, and one sharp clap of T.—*Oxford* (III). Violent squalls with R and H at 1.15 a.m.—*Cirencester* (VI). T, H and L at 1 a.m.

APRIL.

3rd.*—*Abinger Hall* (II). TS of 15 minutes' duration at 2 p.m.—*Corton* (IV). Gale of wind, with loud T and vivid L, lasting an hour.

* See also *Met. Mag.*, April, 1908, p. 55.

4th.*—*Epsom* (II). During a TS a house in College Road was struck by L, considerable damage being done. A portion of a large square chimney on the S.W. corner of the house was cut out as if with a knife, and two hundred superficial feet of the roof-tiling on the southern side were damaged. The fall of some of the chimney bricks was arrested by the roof snow-guard along the S. side, but about three barrow loads fell on the conservatory, smashing fifty squares of glass. In a field opposite the house, and distant about 50 yards, a cow was killed by L.—*Sturminster Marshall* (V). Heavy T and L from 3.30 to 4 p.m., with R and H.

16th.—*Street* (V). Remarkable TS from 1 to 2 a.m. No R fell.

19th.†—*Wryde* (III). H stones as large as marbles.—*Dovercourt* (IV). At 9.6 a.m. there was a blinding S storm, lasting 40 minutes, which covered the fields to a depth of half an inch. Then the sun came out, and a rapid thaw took place. R, H and S recurred all day with sunny intervals.

20th.—*Sutton Bridge* (IV). The strong wind and high tide caused a great rise of water, which cut off a flock of nearly 200 sheep and lambs which were grazing on the out-marsh in Wingland, and every one was drowned.

22nd—24th.‡—*Knotty Ash* (VIII). Six inches of S.

22nd—26th.‡—*Dunrobin* (XIX). Untimely frost and S, doing much damage to fruit bloom.

23rd.‡—*Milton Bryant* (III). S fell fast from 1.30 p.m., until 6 p.m. and was then followed by fine S or sleet. The average depth was from 6 to 8 inches, which has not been equalled since Good Friday about 32 years ago.—*Newmarket* (III). So severe was the S storm that racing had to be stopped after the 3.30 race.—*Copdock* (IV). Great S storm in evening, causing much damage to trees, shrubs and all flowers.—*Little Saxham* (IV). R and sleet all the morning. Later it turned to S, which fell all the afternoon and evening, damaging trees.—*Hethersett* (IV). Heavy fall of S, which measured 9 inches deep on the morning of 24th.—*Liskeard* (V). Five inches of S.—*Stroud* (VI). S and sleet fell all day, but did not begin to lie until 5.30 p.m.—*West Linton* (XIII). Very fine spicules of icy S falling in evening and hardly covering the ground; severe S storm taking place at the same time at Edinburgh (15 miles off) and southwards

* See also *Met. Mag.*, April, 1908, p. 55.

† See also *Met. Mag.*, May, 1908, pp. 68, 69.

‡ See also *Met. Mag.*, May, 1908, pp. 65-76 and 83; June, 1908, p. 93; May, 1909, p. 71.

thence as far as Penicuick (7 miles off), which seemed to be about its southern limit. R here .03 in.—*Drummore* (XIII). S 9 inches deep.—*Aberdeen* (XVII). Min. temp. 18°. The frost did much damage to fruit.—*Buckies* (XIX). Blizzard of exceptional violence began about midnight and continued till midday. S wreaths to a depth of several feet, burying sheep and lambs in many parts of the county.

23rd—24th.*—*Epsom* (II). R fell from 12.30 p.m. to 7.30 p.m. on 23rd, when steady S commenced, lasting to 5 a.m. on 24th, when the depth was 6 inches. Rapid thaw at 7.30 a.m., and all the S had completely disappeared by noon. Average depth of S on Epsom Downs, 9 inches.—*Detling* (II). Much S in night. On the morning of 24th it was 5 inches deep, but the sun came out at 11 a.m. and the S soon disappeared.—*Christchurch* (II). Remarkable S to a depth of 14 inches, which however disappeared in less than 12 hours.—*Great Barford* (III). S from 2 p.m. on 23rd to 2 a.m. on 24th, lying to a depth of about 8 inches.—*Ivybridge* (V). S storm, which was very disastrous to fruit blossom and daffodils.—*Bridge of Earn* (XVI). Min. temp. in the night was 6°, the lowest experienced in April since records began to be taken 50 years ago. It proved disastrous to shrubs.—*Balbriggan* (XXI). Much damage done to fruit trees and early potatoes by H and frost.

23rd.—25th.*—*Ampfield Vicarage* (II) S fell to a total depth of 14 inches, mostly in the night of 24th.—*Oakley* (II). S began to fall at 4 p.m. on 23rd, and continued until 5 p.m. on 25th, when it measured 22 inches deep in the open.—*Winslow* (III). Heavy S storm; the depth was over 17 inches, and yielded 2.39 in.

24th.*—*St. Pancras, Camden Square* (I). Unusually heavy fall of S in early morning, measuring 3½ inches deep.—*Ticehurst* (II). S two inches deep at 7 a.m. It had all gone by noon.—*Bromham* (III). About 1 foot of S fell.—*Dovercourt* (IV). S in morning covered the fields to a depth of an inch and a half.—*Sturminster Marshall* (V). Sharp S storm in morning, the depth at 9 a.m. being 4 inches and at 11 a.m. 8 inches.—*Stroud* (VI). Heavy S showers in the morning, which melted in the middle of the day. Heavy S in the evening again whitened the ground and trees.—*Haslingden* (VIII). Three inches of S.—*Lampeter, Llanlear* (XI). Sudden S fall to a depth of 6 inches.—*Criccieth* (XI). Two inches of S.—*Callander* (XVI). Severe frost caused much damage to vegetation and killed some well-grown trees.—*Perth* (XVI). Min. temp., 8°·5, was the lowest for

* See also *Met. Mag.* May, 1908, pp. 65-76 and 83; June, 1908, p. 93; May, 1909, p. 71.

26 years. Fruit blossom was nipped, but potatoes were saved by a covering of S.—*Lurgan* (XXIII). Heavy S fall. At midday the depth was 6 or 7 inches.

24th—25th.*—*Headley House* †(II). Great S storm, measuring 15 inches in depth, the most ever known so late in the year.—*West Dean* (II). Tremendous blizzard; S 18 inches deep.—*Hampton Poyle* (III). Severe S storm, in consequence of which no service could be held at church on 26th.—*Shrewton* (V). Heavy S storm, the depth being 14 inches.

25th.*—*Haslemere* (II). S 12 inches deep, with drifts 3 feet deep.—*Epsom* (II). Two inches of S fell from 5 to 6 a.m., and 5 inches fell in a heavy storm between 6.45 p.m. and midnight.—*Selsey Bill* (II). Remarkable S blizzard from 3 to 4.30 p.m. It was driven by a strong N. gale, which caked the S 4 inches thick against all perpendicular surfaces facing it.—*Totland Bay* (II). H.M.S. *Gladiator* collided with S.S. *St. Paul* in a S squall at 2.30 p.m., and sank $2\frac{1}{4}$ miles from here.—*Freshwater* (II). S fell to a depth of 14 inches.—*East Cowes* (II). S 10 inches deep at 9 a.m., and continuing to fall nearly all day.—*Bournemouth, Kempsey* (II). A S storm from the N.N.W. began about 2.30 a.m., and by 9 a.m. measured $6\frac{1}{2}$ inches on the ground. The temp. was then $31^{\circ}0$, and the wind blowing a gale. At 2 p.m. the S ceased, and measured 12 inches on the level, yielding 1.27 in. in all. Some damage was done to trees and shrubs by the great weight of S.—*Milford-on-Sea* (II). N.E. gale and heavy S from 5 a.m. to 4 p.m., the fall averaging 15 inches in depth.—*Fordingbridge* (II). S fell continuously for 10 hours, and a depth of 9 inches and drifts of 16 inches were measured.—*Broughton* (II). Heavy fall of S, most of which fell between 7.30 a.m. and 4 p.m. The total depth undrifted was from 15 to 18 inches. The harm done was very slight.—*Alton* (II). Between 5.30 a.m. and noon 15 inches of S fell.—*Barton Stacey* (II). Six inches of S fell before 9 a.m., and it continued to fall to a depth of about 2 or $2\frac{1}{2}$ feet.—*Newbury, Sandleford Priory* (II). The S measured over 18 inches in depth.—*Yattendon Court* (II). Heavy fall of S, the average depth being 20 inches, causing great damage to trees and shrubs. Glass-houses suffered considerably, one large vinery having the roof broken in. Many bees were also destroyed.—*Farnborough* (II). S fell to 7 p.m., when it was 20 inches deep.—*Abingdon* (II). S began to fall at about 4 a.m., and continued until 7 p.m., but was heaviest between

* See also *Met. Mag.*, May, 1908, pp. 65-76 and 83; June, 1908, p. 93; May, 1909, p. 71.

1 and 5 p.m. It was quite 2 ft. 3 in. deep in undrifted places.—*Great Marlow* (III). Between 9 a.m. and 12.45 p.m. $1\frac{1}{4}$ inches of S fell, and 4 inches more fell during the night.—*Caversham* (III). S fell incessantly from early morning until late at night, the depth ranging between 8 and 16 inches, causing a general disorganization of trade and traffic.—*Islip* (III). The heavy S storm and the sudden thaw afterwards with torrents of R caused a serious flood in the Cherwell river, the highest that has been known in this village.—*Bicester* (III). Heavy fall of S, which measured 16 inches in depth at 11 p.m.—*Steeple Aston* (III). S fell all day, and measured 16 inches deep, but drifts were 5 and 6 feet deep. A great deal of damage was done to trees and shrubs, and the cottagers had to be dug out from their cottages.—*Blisworth* (III). S fell most of the day, and a heavy fall commenced at 5 p.m. and lasted till midnight. Its depth measured 3 feet or more, stopping road traffic. Many shrubs were broken down, and men were engaged in digging out the paths on 26th.—*Downton* (V). Heavy S storm; the depth on the morning of 26th being 15 inches on level ground.—*Stratford-sub-Castle* (V). S fell continuously for 10 hours to a depth of 15 inches.—*Wilcot* (V). S fell until 3 p.m., measuring $11\frac{1}{2}$ inches deep.—*Poole, Parkstone* (V). S fell from 5 a.m. till evening, and measured 9 inches deep.—*Stroud* (VI). S fell till about 10 a.m., and remained on the ground all day. The wind was S. till about 4 p.m., and then went to N.—*Long Compton* (VI). S thirteen inches deep.—*Honington* (VI). S eleven inches deep.—*Leamington* (VI). S eight inches deep.—*Coventry* (VI). S fell to a depth of 9 inches, and caused much damage to shrubs and garden trees.—*Chilvers Coton* (VI). The heaviest S remembered during 21 years. It, however, did little or no damage to fruit.—*Mexborough* (IX). S yielding .39 in.—*Gogerddan* (XI). A storm of H as large as marbles at about 6.30 p.m.—*Alderney, Le Huret* (XI). A very severe and unusually late S storm occurred during the early hours. S lay to a uniform depth of from 12 to 13 inches, and natives speak of the visitation as the worst of its kind since 1837.—*Sark* (XI). The S storm was comparatively slight, yielding only .29 in.—*Hawick, Branzholme* (XII). Min. temp. 14° . On the hills many lambs born during the night were frozen to death.

25th—26th.*—*Pitsford* (III). S fell on the morning of 25th for some hours and then turned to R. Before 5 p.m. S again commenced to fall heavily, and continued the greater part of the night.

* See also *Met. Mag.*, May, 1908, pp. 65-76 and 80; June, 1908, p. 93; May, 1909, p. 71.

S on the morning of 26th was 10 to 12 inches deep, and as it melted it left the roads in an awful condition. Many trees were broken, telegraph wires were down, and all traffic at a standstill.

25th.*—30th.—*Foxford* (VI). Very heavy S on 25th, yielding 1·40 in., being followed by heavy R, caused serious flooding in this district, several paths being covered by deep water. In the six days, 3·54 in. fell.

26th.*—*Greenham Common* (II). At 10 a.m. the S—probably partly melted by bright sun—lay level 2 inches above top of rain gauge, 1 foot.—*Slough, Upton* (III). S measured $5\frac{1}{2}$ inches, and broke many boughs off the trees.—*Shaftesbury* (V). Aurora at 9 p.m.—*Edington* (V.) Heavy fall of S, lasting some hours, and measuring 4 inches on the level. Intensely cold.—*Whittingehame* (XIII). S 9 inches deep in morning.

27th—28th.—*Lechlade* (VI). R and melted S caused floods.

28th.—*St. Pancras, Camden Square* (I). Thick fog at night.—*New Malden* (II). Dense fog at 9 p.m.—*Buckingham* (III). The biggest flood for 30 years.—*Oxford* (III). Heavy flood.—*Blisworth* (III). R all day, which with thaw, caused largest flood for some years.

29th.—*Great Marlow* (III). The Thames rose 3 ft. 1 in. above its summer level and caused floods.

30th.—*Maidenhead* (II). The flood in the Thames exceeded that of December, 1907, and equalled that of June, 1903. Many houses were inundated.—*Buckingham* (III). A flood unequalled for half a century did much damage. Five public-houses were inundated and compelled to close. The town crier was sent round to announce that as the gasworks were flooded there would be no gas that night.

MAY.

1st—4th.—*Maidenhead* (II). Thames in high flood.

2nd.—*Oxford* (III). A punt containing four undergraduates was upset in the flooded Cherwell by being driven against a pier while attempting to get through Magdalen Bridge, and one of the occupants was drowned.—*Cwm Dyli* (XI). TS from 8.30 p.m. on 2nd to 2.35 a.m. on 3rd.

3rd.—*Hampstead, Akenside Road* (I). Between 8.32 and 9 a.m. ·47 in. of R fell.—*St. Pancras, Camden Square* (I). In 7 minutes, at 8.40 a.m., ·24 in. of R fell.—*Walsall, Brockhurst* (VI). Torrential

* See also *Met. Mag.*, May, 1908, pp. 65-76 and 83 ; June, 1908, p. 93 ; May, 1909, p. 71.

R, with vivid L and T, from 1 a.m. till 9 a.m. Total 1·89 in.—*Bilston, The Lunt* (VI). Between 1 a.m. and 9 a.m., 1·64 in. of R fell.—*Northfield, Longbridge Place* (VI). Very heavy TS at night, when 1·79 in. of R fell in a few hours, and did much damage.

6th.—*Monymusk* (XVII). Severe but short TS. A man and horse were killed by L.

12th.—*Meltham, Harewood Lodge*. Rather severe TS from 5.50 to 6.20 p.m. ; ·21 in. of R and H fell in $4\frac{1}{4}$ minutes.

13th.—*Mill Hill. The Hollies* (III). In less than 30 minutes, about 2 p.m., ·30 in. of R fell.—*Raunds* (III). Severe TSS at 10.30 a.m. and 5 to 6.30 p.m., with H.—*Dovercourt* (IV.) T and L at 3.50 p.m. when a TS came on very sharply, and was right overhead at 4.5 p.m. Vivid and dangerous L was followed by loud T, and R and H came down in torrents. The storm lasted half an hour, and then passed away over the North Sea, and the sun shone again.—*Boston* (VII). Very heavy TS. The tower of Boston church was damaged by L.

14th.—*Stoke Bishop* (VI). TS, with L and heavy H.

22nd.—*Goldsborough Hall* (IX). Heavy TS, and severe H.

30th.—*Alton, Shalden Manor* (II). In 20 minutes ·47 in. of R fell.—*Bath* (V). TS from 5 to 7 p.m. Some damage done by L.—*Bristol* (VI). Severe TS, causing much damage to house-property by L.—*Stoke Bishop* (VI). Heavy TS, with L.—*Westbury-on-Trym* (VI).

“Joseph Stone, residing at Westbury-on-Trym, was cycling over the Downs during the storm, when his front wheel was struck by the lightning. The front wheel was buckled, and he was thrown from his machine, receiving injuries to his face and hands.”—*Western Daily Press*.

31st.—*Cowshill* (X) Severe TS about 10 p.m.—*Gogerddan* (XI). Heavy TS, with terrific R, at 5 p.m.—*Moute* (XXI). During a severe TS in afternoon, ·45 in. of R fell in half an hour.

JUNE.

1st.*—*St. Pancras, Camden Square* (I). TS at 9.30 p.m., continuing during night.—*Epsom* (II). A heavy T shower took place at 5.45 a.m., followed by distant T to the W. at 6 a.m. At 8.45 p.m. a heavy TS came up from S.W., passing N., continuing until nearly midnight. An extensive dust storm arose at 9.30 p.m., being followed, on the commencement of the R at 9.40 p.m., by a wind squall, attaining gale force, passing from S.W. to N.E. Extensive damage was caused to

* See also *Met. Mag.*, Sept., 1908, p. 153 ; and *Quarterly Journal R.Met.Soc.*, Vol. 34, p. 212.

timber in its track. The R from 9.40 p.m. to 10 p.m. measured .70 in.—*Teddington* (III). A tornado passed across Bushy Park, and tore a gap 200 yards wide in the famous avenue about 9.45 p.m., completely destroying a number of fine limes and chestnuts, most of which were about 200 years old.—*Watford* (III). TS commenced at 9.45 p.m., followed by H and heavy R at 10.15 p.m.—*Nottingham, Beeston Fields* (VII). Heavy local TS, apparently travelling from N. to S., between 3 and 4 p.m. The R was very heavy, the drains being quite incapable of carrying it off. Cellars were flooded and the roads were torn up.—*Horncastle* (VII). In a TS during the afternoon 15 sheep were killed by L at Mareham-le-Hill.—*Briton Ferry* (XI). In 10 minutes .22 in. of R fell.—*Cockburn Hill* (XIII). TS, with heavy R.—*Limerick, George Street* (XX). Between 10.56 and 11.20 a.m. .38 in. of R fell in 25 minutes.

1st—2nd.—*Detling* (II). The T from 6 to 10 p.m. was gradually getting nearer. R commenced at 11.19 p.m. on 1st. The L was very vivid between 1 and 2 a.m. on 2nd.

2nd.—*Dovercourt* (IV). Heavy TS from N.W. passed over about 1 a.m. The T was continuous, and there was sharp R, which did not last long. The display of L was particularly fine, the prevailing colours being pink, blue and white. The storm passed away to the S.E. at 1.36 a.m.—*Haileybury College* (III). A TS passed directly overhead from 2 to 2.45 a.m. The T was exceptionally loud.—*Martley* (VI). Terrific TS, with 1.45 in. of R in 20 minutes.—*Goldsborough Hall* (IX). Heavy TS between 7 and 8 a.m. For a few moments there was almost total darkness, and nearly half an inch of R fell in a very short time.—*Leyburn* (IX). In a severe TS at 8.30 a.m. a pony cart was struck by L, and the boy who was in charge, the pony, and a calf which was in the cart were instantaneously killed.—*Dumfries* (XII). Heavy TS at 10 a.m. Before the storm broke there was such darkness for 10 minutes that gas had to be lighted.—*Moniaive* (XII). Worst TS for years.

2nd—3rd.—*Mansfield* (VII). TS from 11 p.m. 2nd to 2 a.m. 3rd, during which 1.10 in. of R fell.

3rd.—*Epsom* (II). A brilliant display of sheet L between S. and W. from 10 to 11.30 p.m. was followed by a TS coming up from S.W. at the latter hour and later passing away to the E.—*Lyndhurst* (II). During a severe TS a house was struck by L, and .83 in. of R fell in 45 minutes.—*Watford* (III). TS in morning, accompanied by H stones $\frac{7}{8}$ inch in diameter, which broke glass panes in conservatory.

—*Edington* (V). TS, with .50 in. of R in half an hour.—*Astley, near Stourport* (VI). Berrington Cottages, a group of three, which were erected in 1641, were struck by L in the evening, the thatched roofs were set on fire and the cottages were destroyed.—*Walsall, Brockhurst* (VI). TS from 8.30 to 11 p.m.. R 1.11 in.—*Burnsall Rectory* (IX). In about $2\frac{1}{2}$ hours, 3.70 in. of R fell.—*Skipton* (IX). Heavy downpour from 2 to 4 p.m., accompanied by T. About 4 p.m. there was a pause of about 5 minutes, and then a heavy shower for 15 minutes. From 4 p.m. the flood in Embsay Beck rose rapidly, the period of maximum lasting about 10 minutes. By evening the stream had almost returned to its normal size. The rain gauge on Embsay Moor showed a fall of 3.79 in. for the 24 hours, but there is no record of how much of this fell between 2 and 4.20 p.m. It is, however, believed that it all fell in that period. At the reservoir under construction across Embsay Beck there is a discharge tunnel, 6 ft. 3 in. diameter, with rapid fall, through which all the flood passed. Owing to obstruction caused by a small culvert lower down, the tunnel outlet was submerged to a depth of 2 ft. 3 in. above the soffit of the arch. The entrance was also submerged to a depth of nearly 9 feet. By calculation, it is thought that the maximum rate of discharge could not have been less than 72 cubic feet per second from each 100 acres, and it was probably greater.—*Newtown* (XI). Unusually heavy R occurred, causing considerable damage to property and washing away some bridges. The Pyllaubydron brook which is usually a small stream, rose 17 feet in about half an hour. The large culvert which passes under the canal pumping-station at Newtown was unable to discharge the water, which rose several feet above the level of the road, and washed away a parapet wall and about 30 yards of the public road. At Gregynog Hall, 4 miles north of Newtown, 2.90 in. of R fell in 2 hours, and probably the bulk of this fell in less than half an hour.—*Gweedore Hotel* (XXIII). In 3 hours, 1.41 in. of R fell.

3rd—4th.—*Fulham, Edith Road* (I). TS, with much L but little R from 10 p.m. on 3rd to 3 a.m. on 4th. Severe TS at 5.45 p.m. on 4th; H stones $\frac{5}{8}$ in. by $\frac{1}{2}$ in. with core of opaque white ice.

4th.*—*St. Pancras, Camden Square* (I). TS from 2.30 to 3.30 p.m., with heavy R. TS at 5.50 p.m. and during evening.—*Norwood* (I). Mr. Marriott, observing the TS with the brontometer, reports :—

Ninety-seven flashes of lightning were observed in 27 minutes between

* See also *Met. Mag.*, June, 1908, p. 94; and July, 1908, p. 113.

6.11 and 6.38. No records of lightning were taken from 6.38 to 6.44 owing to a fresh supply of ink being required to be put into the pen, but 63 flashes were observed between 6.44 and 7.30. One hundred and twenty-three peals of thunder were recorded between 5.10 and 7.30. There were probably considerably more, but it was most difficult to distinguish between the peals.

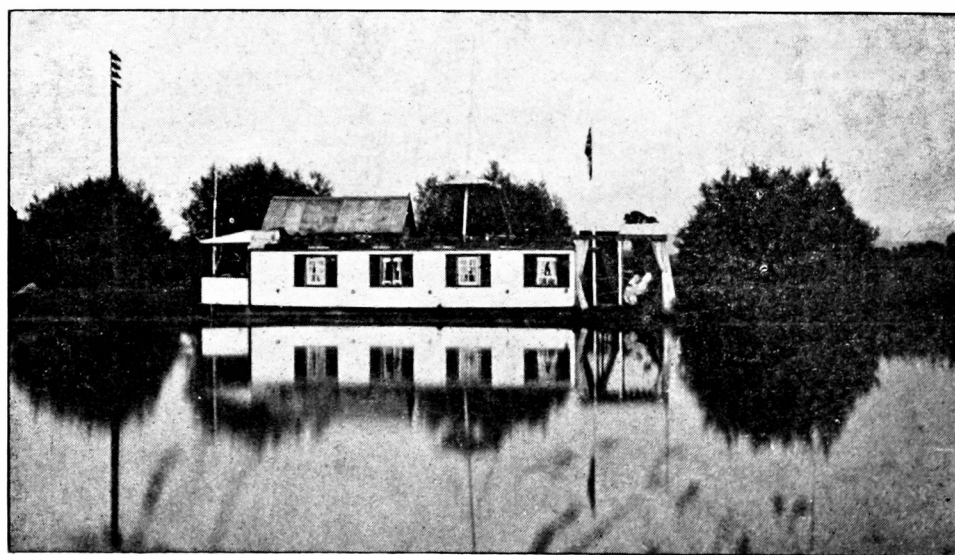
—*Witley, The Mount* (II). Between 5.40 and 5.55 p.m. .44 in. of R and H fell, accompanied by T and vivid L. The H resembled loaf sugar.—*Warlingham* (II). Severe storms, and shade temp. 82°·0. —*Epsom* (II). A heavy TS came up from S.W. and W. at 1.15 a.m., the storm remaining apparently stationary for 1½ hours, and then receding. A dazzling display of forked L was witnessed, the flashes varying between 6 and 10 per minute. No R fell. Distant T was again heard between 4.15 p.m. and 5.30 p.m., being followed by a very severe storm which worked up from the N.W. and W. at 5.45 p.m. Hot gusts of wind from N. and N.E. prevailed in the front of the storm. A very heavy fall of H occurred between 6.15 and 6.19 p.m.; many of the stones were equal in size to a blackbird's egg. Heavy R fell between 6.19 and 7 p.m., amounting to .90 in. The storm passed away to the S.E., terminating about 7.30 p.m. Another storm came up from N. and N.E. at 7.45 p.m., accompanied by heavy R between 8 and 8.10 p.m., amounting to .31 in. This storm continued to 8.45 p.m., passing E.—*Wallington* (II). H stones ¼ inch in diameter.—*Langton Green* (II). Heavy TS, with H; .93 in. fell in 2 hours.—*Tunbridge Wells* (II). An unusually violent TS from N. occurred at about 7 p.m. In the Pantiles 3·42 in. of R fell in 45 minutes; H fell, measuring an inch in diameter, breaking the glass in many greenhouses and also electric and gas street lamps. The T and L were continuous for half an hour. It was calculated (according to *The Courier*) that within 45 minutes 4 inches of R fell on the area of ground from about the top of Grosvenor Road to the bottom of Eridge Road. The sewers were overcharged with water and some manholes were blown out.—*Detling* (II). T was more or less continuous from 3.5 to 9 p.m., with a quieter interval from 4.45 to 5.15 p.m. The L was forked, and some was bluish in colour, sometimes horizontal and sometimes vertical in direction. R fell from 3.50 to 4.45 p.m., and again from 7.30 to 9 p.m.—*Bredhurst* (II). Heavy TS, when 1·33 in. of R fell.—*Worthing* (II). A TS passed over the town, commencing at 7.30 p.m., with H. Several houses were struck by L, and a semi-detached villa in Christ Church Road was much damaged. The L struck a chimney-stack, splitting it in two

and knocking a portion off on to the slated roof, through which it fell into the bedroom below. The slates from a part of the roof were stripped from the lead flashings to the eaves gutter. As the observer was taking the sunshine record at the Pier Head a severe flash of L occurred, and he was almost thrown off the ladder.—*Worthing, Goring* (II). A small thatched cottage, occupied by Samuel Huffenden, a blacksmith, was struck by L, shattering the chimneys and setting the roof on fire.—*Crowborough* (II). T and floods.—*Ticehurst* (II). The morning was fine, but close and sultry. Soon after 4 p.m. a cold wind came from the W. with a roar, and with T getting louder and louder without any L visible here till 5.15, when the storm burst with very vivid L. A good many trees, a cottage and an out-house were struck here. Heavy R fell for a short time, and then the storm subsided. Dense black clouds could be seen in the N.W., which gradually closed over us till it was quite dark, and then at 7.45 p.m. another TS broke, with terrific H stones the size of pigeon's eggs. Some were much larger, with occasional rough lumps of soft ice. The ground was covered to a depth of 2 inches in 10 minutes; 40 panes of glass were broken in the observer's house and some hundreds in the glass-houses, while crops were much damaged, especially hops. The storm appeared to have had its course from Tunbridge Wells in a S.E. direction, running for about 10 miles in a track $1\frac{1}{2}$ mile wide.—*Lower Cousley Wood* (II). During a TS at 7.53 p.m. heavy H fell, breaking some windows, smashing all glass in roofs of greenhouses and doing much damage to growing crops. The stones were mostly spherical, many exceeding an inch in diameter and weighing over half an ounce. In many places the lawns were pitted with holes an inch in diameter and half an inch deep.—*Northwood* (III). Violent wind during a TS at 2 a.m., when the chief feature was the incessant play of L, there being hardly any interval between the flashes.—*St. Albans* (III). The roads to the W. of the town were much flooded by the heavy R which fell during a TS.—*Royston, Therfield* (III). Heavy TS, in which .80 in. of R fell in 40 minutes. H stones very large and clear.—*Odsey* (III). Violent storm, with H. A house was struck by L and a chimney partly demolished.—*Leyton* (IV). In 20 minutes .83 in. of R fell.—*Bucknall* (VII). Heavy TS from 1.30 to 2 p.m. Ash tree struck by L.—*Sunderland* (X). A brief, sharp TS occurred about 10.10 a.m., with tremendous R, .33 in. falling in 17 minutes.



SNOWFALL, APRIL 24TH, 1908, AT LUTON, CHATHAM.

Photograph taken by Mr. W. Coles Finch, C.E.



PHOTOGRAPH TAKEN AT 10.5 P.M. ON JULY 1ST, 1908, IN THE LIGHT OF THE AFTERGLOW (EXPOSURE 20 SECONDS), BY MR. GEORGE EMBREY, F.I.C., F.C.S., GLOUCESTER.

13th.*—*Cwm Dyli* (XI). R fell all day and caused heavy floods, the amount measured being 2·02 in.

16th.—*Perth* (XVI). Heavy TS at 8 p.m. It was most severe in the city and to the W. of the river, and caused flooding.

21st.—*Upton-on-Severn* (VI). A day of wondrous beauty. The clearness of the atmosphere was such that small objects, such as thorn trees, were clearly seen on Malvern Hills, 6 miles away, without a glass at 5 a.m.

30th.†—*Caterham Valley* (II). Twilight all night.—*Epsom* (II). A peculiar phosphorescent glow in N.N.E. at 11 p.m. caused a marked excess of light.—*Northwood* (III). Gorgeous sunset, with much cirriform cloud about. A watch could be read easily in the open country at 11.45 p.m., and with some strain one could even read a letter.—*Watford* (III). Fine “afterglow” at night.—*Steeple Aston* (III). Fine spectacle at night, when light was continuous.—*Peterborough* (III). Remarkable twilight, it being possible to read print indoors at 9.30 p.m.—*Great Leighs* (IV). Remarkably lengthened twilight.—*Tavistock, Whitchurch* (V). In 5 minutes, ·23 in. of R fell.—*Milton Abbot, Endsleigh* (V). Terrific TS visited the valley, and 1·52 in. of R fell in about half an hour.—*Blaby* (VII). The night did not get dark.—*Nenagh, Kilboy* (XX) R 1·20 in., which fell in about half an hour during a TS.

JULY.

1st.†—*St. Pancras, Camden Square* (I). The duration of sunshine, 12·4 hours, was the greatest of the year. Beautiful afterglow between 10 p.m. and midnight.—Remarkable reflected light observed during the night, having the appearance of a prolonged twilight or afterglow; reported also at *Epsom, Gravesend* (II), *Mill Hill, Slough, Wolverton, Steeple Aston, Peterborough* (III), *Street* (V), and *Harescombe Grange* (VI).—*Gloucester* (VI). A remarkable sunset, the prevailing colours being primrose and green, flecked with wisps of purple cirrus cloud, succeeded by a golden glow in the N.W., which lasted until midnight, and a fine display of aurora borealis. It was difficult to distinguish the streamers from the cirrus clouds, for there was no quivering or darting movement perceptible, but the dusky red and rosy clouds, characteristic of the phenomenon, were in evidence until

* See also *Met. Mag.*, August, 1908, p. 136.

† See also *Met. Mag.*, July, 1908, p. 119; and *Quarterly Journal R.Met.Soc.*, Vol. 34, p. 202.

past 1 a.m., when a brilliant dawn began to come on. The combination of the afterglow and the aurora produced an effect not unworthy of "the land of the midnight sun," and such as one rarely sees in England. Incidentally it may be mentioned that the Malvern Hills were clearly visible at midnight.—*Cirencester* (VI). Sunset prolonged until 11.15 p.m.—*Hereford* (VI). An extraordinary lightness was observed at night. The sky was all cirrus wisps of a greenish hue at 10 p.m., which might possibly have reflected the sun's rays and caused the prolonged light. From 10.15 to 11.15 p.m. it scarcely seemed to get any darker, and from a bedroom window could be seen the green of the fields and the darker green of the trees beyond.—*Burghill Court* (VI). Extraordinarily prolonged twilight. It was possible to read at 11 p.m.

1st—2nd.*—*Lynmouth* (V). Aurora each night. There were no marked rays visible, but the whole light scintillated.—*Bolton-upon-Dearne* (IX). Remarkably light nights. Newspapers could be read out of doors at 10.30 p.m. on 1st.

2nd.*†—*Lancashire* (VIII).

"Our Manchester correspondent wires that, taking advantage of the tropical weather prevailing, and the bright light in the sky at night, dozens of farmers in South Lancashire and North Cheshire are now working day and night—twenty-four hours to the day—getting in the hay harvest. Owing to temporary depression in the coal trade, many colliers are working in the hayfields; and the season's crop promises, with the fine weather, to be one of the best and heaviest on record in Lancashire."—*Daily News*.

—*Kendal* (X). Shade max., $91^{\circ}0$, was the highest ever recorded here.—*Dumfries* (XII). The shade max. was $91^{\circ}0$, the highest temp. recorded since July, 1901.

3rd.—*St. Pancras, Camden Square* (I). Shade max., $87^{\circ}3$, the highest of the year.—*Lochgailhead* (XV). About 5.30 a.m. a long, even, rolling noise was heard as loud as T. Windows and china rattled in some places.

3rd and 4th.—*Northwood* (III). Between 7 and 8 p.m. on 3rd, short, premonitory rumbles of distant T were the concomitant of a small but steadily increasing patch of strato-form cloud in the N.E., with a characteristic cumulo-form thunder-edge on the west side of this patch. Between 9 and 10 p.m. the sky had thickened all over, and vivid forked L rent the clouds at the northern horizon. At

* See also *Met. Mag.*, July, 1908, p. 119; and *Quarterly Journal R. Met. Soc.*, Vol. 34, p. 202.

† See also *Met. Mag.*, August, 1908, p. 154.

1.30 a.m. on 4th, when the storm had reached its height, there were repeated crashes of T following immediately upon the L, which were as much like a dynamite explosion as could well be imagined. A house in Murray Road had some roof-tiles smashed to fragments, and an oak in a meadow at Batchworth Heath sustained some injury to the bark.

4th.—*Fulham, Edith Road* (I). TS, with heavy and continuous T and L but little R, about 2.30 a.m.—*Hampstead* (I). T was heard for some time in the N.E., but remained distant until 1 a.m., when it rapidly came nearer. R did not fall until 1.48 a.m., when it fell in torrents until 2.20 a.m. The T was not very loud, but there was a magnificent display of L, 29 flashes being observed in the minute 2.8 to 2.9 a.m. The flashes were mostly blue, but some were yellow. The centre of the storm passed overhead at 2.18 a.m., when the T and L were almost simultaneous. Tudor House, almost on the summit of the Heath, was struck and set on fire soon after 2.30 a.m., and the local fire brigade were called out in the height of the storm to extinguish the flames. No one was hurt. A chimney was struck at the bottom of Haverstock Hill, but no serious damage was done. At 8 a.m. another storm came up, with very little T and L but with intense R for 3 or 4 minutes. A third storm occurred about 8 p.m. At 8.15 p.m. there was a deluge of R with a few flashes of L and a little T, which lasted until 8.40 p.m. The garden was half under water owing to the heavy R.—*St. Pancras, Camden Square* (I). Heavy TS, with almost continuous L from 2 to 3 a.m.; .43 in. of R fell from 2 to 2.30 a.m. Another TS from 8.30 to 9 a.m., and a third from 8 to 9 p.m., in which .29 in. of R fell in 8 minutes at 8.20 p.m.—*Tunbridge Wells* (II). Heavy T and L. A tree was struck.—*Maidenhead* (II). Heavy TS from 5.30 to 8 p.m.—*Eton, Tangier Islands* (III). Heavy TS from 4.30 to 5.30 p.m. with .65 in. of R.—*Oxford* (III). T from 5.30 p.m., and TSS from 6.15 to 7.15 p.m. when R fell.—*Crickhowell* (XI).

“Both main roads and bye-roads were flooded, and on the Crickhowell to Cardiff road a $\frac{1}{4}$ -lb. trout was caught by a roadman, it having been washed by the torrent into the road. The storm did not visit Brecon, and at Talybont, two miles from Bwlch, the gardens of Major James Williams were being watered by the gardener, whereas the hailstones smashed the glass in the greenhouses at Cathedine, $2\frac{1}{2}$ miles away. Several cottagers' gardens have been ruined.”—*Western Mail*.

—*Cathedine* (XI). Heavy TS, and a fall in temp. from 80° to 50° in one hour. H stones and pieces of ice fell from 3.30 to 4.50 p.m.—

Strachur (XV). An earthquake shock lasting about 3 seconds occurred about 6.12 a.m. One report was like emptying a load of coals. Nothing was displaced in this locality, but dishes moved at Coylet and Cairndow.—*Dunmanway* (XX). After a very hot morning a TS burst on the town with a deluge of H and R, 1.63 in. falling in 40 minutes. The storm was confined within a radius of half a mile. The H stones were oval in shape and as large as small walnuts.—*Ballindoney* (XXI). During a TS no R fell in the gauge, but in a field 600 yards away, where men were making hay, it rained in torrents for nearly an hour.—*Kilkenny, Lavistown House* (XXI). The hottest day of the year. Shade max. 81°. In the afternoon .25 in. of R fell in half an hour. While the ground was steaming from the heat, heavy H stones fell. No R fell half a mile S. nor 1½ mile N. of this place.

4th—5th.—*Ledbury* (VI). Strange orange and red sunset effects, daylight remaining until 11 p.m. The appearance was certainly not due to an aurora.

5th.—*Rhiwan Hill* (XI). A moderate cloudburst occurred on the top of the hill in the Wern Ucha neighbourhood, not far from Plas Nantglyn. Pant-y-maen got a good share of it, and Llyn Bran had less. Above Nantglyn and Bylchau there were heavy showers. At Pentrevoelas, and for 3 or 4 miles nearer Llyn Bran, there was practically no R. The gauges registered 1.32 in. at Pant-y-maen and .91 in. at Llyn Bran; this fell in about an hour and a half, but much more fell above Wern Ucha than these figures indicate. The Ystrad stream, which was very low, came down in flood about 3 p.m., indicating a heavy fall in the local watershed.

7th.—*Rochdale, Fieldhead* (VIII). In 7½ mins. .08 in. of R fell.

8th.—*Tavistock, Whitchurch* (V). In 15 minutes .38 in. of R fell.—*Shepton Mallet* (V). At 2 p.m., .25 in. of R fell in 5 minutes.

12th.*—*Epsom* (II). Some remarkable barometric oscillations. At 5 p.m. there was a sudden drop in pressure from 29.49 in. to 29.38 in.—*New Malden* (II). Barograph showed very rapid oscillations, falling .10 in. in 12 minutes.—*Glenreasdell Mains* (XV). Local R storm, in which .85 in. of R fell in 35 minutes. None fell one mile away to E. or W.

13th.†—*Milton, Wootton Hill* (II). Local storm, in which 1.33 in. of R fell in about an hour and a half.—*Herne Bay* (II). Between 5 and

* See also *Met. Mag.*, August, 1908, p. 135.

† See also *Met. Mag.*, August, 1908, p. 136.

10.30 a.m. nearly 3 inches of R fell. The School Committee reported that 200 children failed to attend school on account of the storm.—*Rendlesham Hall* (IV). Heavy TS, with L and 2.49 in. of R, between 10 a.m. and 4 p.m.—*Great Glemham* (IV). In the 24 hours, 3.45 in. of R fell, the largest fall since the record began in 1891, the next greatest having been 2.00 in. on September 24th, 1905.—*Reepham* (IV). In an hour 1.00 in. of R fell.

14th.—*New Malden* (II). In 14 minutes, .35 in. of R fell.—*Oving House* (III). About .75 in. of R fell in 30 minutes.—*Macclesfield* (VIII). In 1½ hours, 1.16 in. of R fell.—*Blackpool* (VIII). In 20 minutes (1.10 to 1.30 a.m.), .32 in. of R fell.—*Summerhill House* (XXI). In 12 minutes, .50 in. of R and H fell.

17th.—*Exebridge* (V). Six miles up the river, 2½ in. of R was measured.—*Immington* (V). Four labourers walking along a railway were struck by L, which seemed to run along the rails, and one of them, Frederick Casson, was killed; the other three were knocked down, but recovered.—*Irby-upon-Humber* (VII). TS, with L, H and .52 in. of R between 0.45 and 1.15 p.m.—*Angerton Hall* (X). In half an hour, .61 in. of R fell, and the total fall amounted to 1.30 in.—*Archiestown* (XVII). R 2.29 in., one of the heaviest falls on record.

18th.—*Fingringhoe* (IV). Cloudburst in afternoon; .66 in. of R fell in an hour, the bulk of it within 20 minutes. No R was measured in Colchester.

21st.—*Tillypronie* (XVII). More than an inch of R fell in half an hour.

25th.—*Blackpool* (VIII). TS, with .20 in. of R in 15 minutes.—*Wigton* (X). TS, lasting 3 hours, with 1.75 in. of R.

AUGUST.

1st.—*Stroud, Upfield* (VI). At 7.55 a.m. the wind broke off the top of a chestnut tree, tearing away branches 15 feet in length.

10th.—*St. Pancras, Camden Square* (I). At 6 p.m., .12 in. of R fell in 5 minutes.

11th.—*Ushaw* (X). Heavy TS, with 1.00 in. of R and large H stones, which marked the leaves of the shrubs and plants.

12th.—*Forfar* (XVI). A severe frost in morning blackened many fields of potatoes.

12th—13th.—*Castletown* (XIX). Frost during night destroyed the potato crop in many places.

20th.*—*Ballybrack* (XXI). The heaviest fall of R for three years, 1·97 in. being measured.

22nd.—*St. Pancras, Camden Square* (I). Heavy T, R and H from 12.25 to 1 p.m.; ·12 in. of R fell in 7 minutes.—*Epsom* (II). At 11.13 a.m., ·16 in. of R fell in 3 minutes.—*Ardingly* (II). TS at 2 p.m.; ·23 in. of R fell in 5 minutes.—*Maidstone, Langley* (II). In 8 minutes, ·42 in. of R fell.

25th.—*West Linton* (XIII). Severe T and L from 3.30 to 4.30 p.m.

26th.*—*Lincluden House* (XII). TS, from 2.30 to 6.15 p.m.

27th.—*Darrynane Abbey* (XX). Vivid L and loud T in afternoon.

28th.—*Deptford* (I). Heavy TS, with H.—*Raunds* (III). TS, with L and ·45 in. of R in barely 5 minutes.—*Norwich* (IV). Severe TSS, from 1.40 to 2.20 p.m. and from 5.15 to 7 p.m.—*Shrewton* (V). During a TS with L, ·33 in. of R fell in 11 minutes.—*Rousdon* (V). At 11.30 a.m., ·11 in. of R fell in 2 minutes.—*Rochdale, Fieldhead* (VIII). In half an hour, ·48 in. of R fell.

29th.—*Portland* (V). TS and ·47 in. of R, which fell in half an hour.—*Castletown* (XIX). Bright low aurora during evening.

31st.*—*Moretonhampstead* (V). Between 10.15 and 10.45 a.m., ·45 in. of R fell.—*Axminster* (V). Severe S.W. gale, causing much damage to fruit.—*St. Asaph* (XI). A deep depression passed over, the wind blowing with gale force from S.S.E. at 6 p.m.—*St. Andrews* (XVI). Violent gale and heavy R during night.—*Forfar* (XVI). A strong E. gale with heavy R caused much damage.—*Darrynane Abbey* (XX). Strong N.W. gale at night.—*Miltown Mulbay* (XX). Storm did much damage to crops.—*Rathmines* (XXI). Heavy S.E. to W. gale in afternoon during the passage of a deep depression.

SEPTEMBER.

1st.—*Hastings* (II). A severe storm caused much damage to hops.—*Rousdon* (V). S. gale; wind blowing 54 miles per hour at 9.15 a.m.—*North Cadbury* (V). Twigs and branches were brought down by a gale of wind between 10 a.m. and noon, but no trees were uprooted.

2nd.—*St. Pancras, Camden Square* (I). TS at 2.15 p.m.

4th.—*Drumnadrochit* (XVIII). Aurora from 11 p.m. to 12.30 a.m.

7th—9th.—*Drumnadrochit* (XVIII). Continuous R, yielding ·52 in. on 7th, 2·19 in. on 8th, and 1·39 in. on 9th, constituting a record for three consecutive days in the history of this station.

* See also *Met. Mag.*, January, 1909, p. 235.

8th.—*New Malden* (II), Dense fog until 9 a.m.—*Gairloch* (XVIII). R 2.50 in., causing floods.—*Bettyhill* (XIX). Severe gale, and 1.98 in. of R.—*Markree* (XXII). Heavy TS, from 2 to 5 p.m.—*Londonderry* (XXIII).

“During the height of what almost might be described as a waterspout, the bank of the upper reservoir at Creggan gave way, and in five minutes the rush of 20,000,000 gallons of water had cut a gap 20 feet wide and 20 feet deep.”—*Irish Times*.

9th.—*St. Pancras, Camden Square* (I). Squalls of gale force between 10 and 11 a.m.; moderating later.—*Easton Neston* (III). S.W. gale. Stooks of corn were blown in all directions, and much damage done to standing corn. Five trees were uprooted on the Easton Neston estate.—*Raunds* (III). High wind, the anemometer registering over 40 miles per hour.—*Dolgarrog* (XI).

A cloudburst happened near the Porthllwyd and Dolgarrog Works in the Vale of Conway, exactly at the time when the barometer and the wind were changing, and when the centre of the cyclone passed nearest to North Wales. At this time several persons heard a thunderlike sound of falling water, cracking of trees, and rolling of boulders. On examining the spot, the effects showed that the falling waterspout column had made a sharp cut through the surface soil right down to the solid rock, and rushed down the slope, excavating a deep bed about 200 yards long and 15 yards wide, uprooting trees, and rolling huge boulders and debris before it over a precipice 50 feet high, into an old quarry, which checked the force of the rush and formed a receptacle for the rubbish carried down, and all happened in the course of a few seconds. There is no sign of any stream of water of any form on the slope above the dropping spot, and the rock shows signs of clean water wash of sudden rush and large volume. At the time, a workman was going up the zig-zag path now washed away by the torrent, and very narrowly escaped being caught by the rush. The scene of the occurrence is to be noticed quite distinctly when travelling by train between Talycafn and Llanrwst. The fall of rain during the day when this happened was enormous, being six inches at Snowdon, four inches at Cwm Eigiau, by Carnedd Llewelyn, three inches by Lake Eigiau, and about one and half inches down in the Vale of Conway.

10th.—*Aberystwyth, Gogerddan* (XI). Heavy storm from 4 to 5 p.m., followed by H storm at 5.5 p.m., with H stones of an abnormal size.

11th.*—*Canterbury, St. Thomas' Hill* (II). A TS, with heavy H and S, gave 1.49 in. of R in just over an hour. The depth of S and H varied from 4 inches to 2 feet. A local paper reports:—

“The rainfall was very unevenly distributed. There was less than half an inch at the Irrigation Works, about two inches at the High Street, and over

* See also *Met. Mag.*, October, 1908, pp. 172, 173.

three inches in the Wincheap and South Canterbury district, where the hail was especially heavy and damaging to the crop. Passengers to Canterbury by the 6.18 down train were greatly astonished by the aspect of affairs. Rain was falling at Faversham and Selling, but it was not until the Whitehall district just outside Canterbury was reached, that the green pastures gave place to mid-winter scenes, with the cattle and sheep standing disconsolate in the snow or hail covered fields."

—*Honiton* (V.) Heavy local TS, with H.—*Stoke Bishop* (VI). Heavy T and L.—*Gordon Castle* (XVII).

"The Spey is a wild waste of waters, and it rose from nine inches to a foot per hour. It coloured the sea for ten miles. Three miles from its mouth the river burst its banks, and swept through Gordon Castle grounds in a current fifteen feet deep and a quarter of a mile wide. Trees were uprooted, and bridges and corn sheaves swept away to the sea."—*Standard*.

15th.—*Rangemore* (VI). In 15 minutes .47 in. of R fell.—*Grimsby* (VII). TS.—*Hodsock Priory* (VII). Heavy R, .16 in. falling at the rate of 2 inches per hour.—*Meltham, Harewood Lodge* (IX). TS from 1.30 to 2 p.m., with .13 in. of R in 5 minutes.

16th.—*Cartmel, Carke* (VIII). R measured 1.51 in., and fields of corn and potatoes were under water between Grange and Levens and in the valley of the Winster.—*Broughton-in-Furness* (VIII). The wettest day for 16 years, 2.92 in. of R being measured.—*Beckfoot* (X). The highest flood known for 47 years took place; R 2.40 in.

20th.—*Rochdale, Fieldhead* (VIII). In 3 hours 1.07 in. of R fell.

22nd.—*Dalry, Blair* (XIV). In 1 hour 1.05 in. of R fell.

23rd.—*Norwich* (IV). In the evening 1.50 in. of R fell in 3 hours.

24th.—*Epsom, Ashley Road* (II). Between 3.45 and 3.51 p.m. .38 in. of R fell.—*Hollington* (II). Between 1.30 and 2 p.m. .87 in. of R fell, and there were two distant claps of T. There was practically no R $2\frac{1}{2}$ miles away.—*Great Thurlow* (IV). TS at 3.45 p.m.

29th.*—*Darrynane Abbey* (XX). Severe TS, with vivid L from 7 to 10 p.m.—*Moate* (XXI). L in evening.

29th and 30th.*—*Hedsor* (III). Hot days followed by dense fog.

30th.*—*St. Pancras, Camden Square* (I). Shade max. 79°·0.—*Epsom* (II). Shade max. 82°·0.—*Wirksworth* (VII). Shade min. 60°·0, the warmest night of the year.—*Meltham, Harewood Lodge* (IX). The hottest day of the year.

OCTOBER.

1st.*—*Sowerby Bridge* (IX). Max. temp. 81°.

2nd.*—*St. Pancras, Camden Square* (I). Thick ground fog early,

* See also *Met. Mag.*, Oct., 1908, p. 178; Nov., 1908, p. 214.

clearing at 9 a.m. Shade max. $79^{\circ}\cdot 0$, the highest temp. recorded in any October since 1859.—*Epsom* (II). Shade max. $80^{\circ}\cdot 8$.

4th.*—Dense fog at *Upton-on-Severn* (VI), *Stoke Bishop* (VI), *Waterford* (XX), and *Fanad, Tamney Rectory* (XXIII).

7th.—*St. Pancras, Camden Square* (I). Thick fog until 10 a.m.

7th and 8th.—*Cork* (XX). Heavy R. The city was partly flooded at high tide.

16th.—*Odsey [Ashwell]* (III). TS.—*Meldreth* (III). Very local storm, with $\cdot 90$ in. of R. At 2 p.m., after it was over, the road on the south could be seen practically covered with water, and on the north hardly enough fell to take the dusty whiteness off. A man who was sorting apples a few hundred yards away hesitated whether to leave his work for a few minutes.

18th.—*Sturminster Marshall* (V). Between 11.45 a.m. and 12.45 p.m. $\cdot 52$ in. of R fell.

19th.—*High Clandon* (II). Heavy R, $1\cdot 26$ in. falling in 4 hours.—*Pontypridd* (XI). R $3\cdot 55$ in. Considerable damage was done to roads in the district. The Glamorgan Canal burst in more than one place.—*Porth* (XI). Between noon and 4 p.m. $3\cdot 00$ in. of R fell.—*Dowlais* (XI). The wettest day in the 22 years' record. The R measured $4\cdot 20$ in., causing floods which did great damage.—*Treharris* (XI). In a few hours during the evening $4\cdot 80$ in. of R fell. Considerable damage was done by the flood in various parts of the borough.

21st.†—*Wyke Regis* (V). Between 5 a.m. and 5 p.m. $4\cdot 43$ in. of R fell during a TS.—*Weymouth, Westham* (V). In about 4 hours $4\cdot 00$ in. of R fell.—*Weymouth, Massandra* (V). Very heavy R, $3\cdot 40$ in. falling in 3 hours.—*Portland* (V). Heavy R, $2\cdot 67$ in. being recorded, of which $1\cdot 65$ in. fell between 9 and 11 a.m.—*Winterbourne Steepleton* (V). Heavy R with T and L in forenoon.—*Dorchester* (V). T and L in forenoon, with $2\cdot 20$ in. of R.—*Charmouth* (V). River Char in flood, and within 9 inches of the top of County Bridge arch and 3 inches over the footbridge by the sea. No flood like it had occurred since the wall approach to the bridge was washed away.

24th.—*Swanbourne* (III). Heavy H storm.—*Norwich* (IV). S storm.

27th.—*Haslemere* (II). TS with L from 3.30 to 4.30 p.m.—*Warlingham* (II). Heavy R with L and T at 5.30 p.m.

30th.—*Liscard* (VIII). In 15 minutes $\cdot 39$ in. of R fell.

* See also *Met. Mag.*, Oct., 1908, p. 178 ; Nov., 1908, p. 214.

† See also *Met. Mag.*, Nov., 1908, pp. 192, 193, 213.

NOVEMBER.

2nd.—*Strachur* (XV). Auroral display from 7 to 8 p.m. Bright greenish colour in a circle across the N.

10th.—*Haileybury College* (III). Min. temp. on grass $14^{\circ}1$.

12th.—*Cork* (XX). Much L and some T at night. A detached cottage a few miles from the city was struck and thrown down, but the inhabitants escaped unhurt.

13th.—*Emsworth* (II). T and L from 7.45 to 8.15 a.m.—*Winterbourne Steepleton* (V). T and L with heavy R at 5.30 a.m.—*Ilfracombe* (V). Sharp TS lasting 15 minutes in early morning.

14th.—*Ross* (VI). River Wye in flood, 5 feet.

17th.—*St. Pancras, Camden Square* (I). Fine sunset of a deep red colour with bands of an orange tint; clear blue sky above.—*Mansfield* (VII). Gorgeous red sunset after a dull day.—*Lynturk Manse* (XVII). Brilliant aurora in evening.

18th.—*Macclesfield* (VIII). S and H at 1.40 a.m.—*Pen-y-Gwryd* (XI). High wind. H and S during night.

22nd.—*Huntington Court* (VI). Strong gale at night, which blew down a large fir tree in the drive.—*Chelford* (VIII). Severe N.W. gale in afternoon and evening, with heavy R.—*St. Anne's-on-the-Sea* (VIII). Gale, blowing about 70 miles per hour, from 6 to 12 p.m.—*Broughton-in-Furness* (VIII). Violent wind storm all day.—*St. Asaph* (XI). W.N.W. gale during night, in which salt spray was blown from the sea, 7 miles to N., reaching this station, about 450 feet above sea-level.—*Dumfries* (XII). W. gale with T and L at 10 p.m.—*Warrenpoint* (XXIII). TS in evening, with W. wind.—*Tamney Rectory* (XXIII). Heavy storm, with T, L and H squalls.

23rd.—*Ross* (VI). Wye in flood, 8 feet, but rapidly falling.

24th.—*Otter Ferry* (XV). T, with heavy showers.—*Fort Augustus* (XVIII). S.W. gale and heavy R at 9 p.m. Some L, T and H.

24th—25th.—*Strachur* (XV). L and T from 7 p.m. on 24th to 6.30 a.m. on 25th. H at 1 and 3 p.m. on 25th.—*Inveraray* (XV). H showers with L and T.

24th—26th.—*Buckies* (XIX). Very stormy, with L and T each day.

25th.—*Dumfries* (XII) L and T at 9 p.m.—*Kilsyth* (XV). Severe storm of wind, R, H, L and T.—*Buchlyvie* (XV). H with L and T at 11 a.m.—*Otter Ferry* (XV). T, with H and R.—*Tamney Rectory* (XXIII). Heavy TS, with H squalls.

28th.—*Macclesfield* (VIII). Highly coloured sky before sunset.—

Dunmanway (XX). Brilliant afterglow in evening, with belts of green, gold, yellow and red.

28th—30th.—Thick fog reported on one or other day at *Fareham* (II), *Oving House* (III), *Therfield* (III), *Ashburton* (V), *Polapit Tamar* (V), *Gloucester* (VI), *Ross* (VI), *Grimsby* (VII), *Goldsborough Hall* (IX), *Cork* (XX), and *Dublin* (XXI).

DECEMBER.

2nd.—*Liverpool* (VIII).

“The Cunard liner *Lusitania*, after a rapid passage from New York, found so dense a fog at the bar of the Mersey, that she was unable to enter all day. The Canadian Pacific Railway steamer *Lake Champlain*, from Canada, and the American liner *Friesland*, from Philadelphia, were also detained, together with a score of vessels of all classes. It is about two years since there was such an interference by fog with Liverpool shipping.”
—*Manchester* (VIII).

“Railway traffic in South-East Lancashire has been seriously disorganised by the dense fog which has prevailed for the last four days, and the collieries have been unable to get empty wagons, with the result that several pits in Manchester and Bolton districts had to “ring out” the colliers. Close upon 10,000 colliery workers are affected.”

3rd.—*Sunderland* (X). The foggiest day ever recorded here. The greatest distance visible during the 24 hours was only 250 yards.

7th.—Dense fog was recorded at *Tenterden* (II), *Therfield* (III), *Oxford* (III), *Steeple Aston* (III) and *Worcester* (VI).

10th.—*Exeter* (V). TS at about 5 a.m.—*Stoke Bishop* (VI). Strong squally winds with L.—*Markree* (XXII). T, L and H.

11th.—*St. Pancras, Camden Square* (I). Unusually low bar., 28·818 in. at 9 a.m.; but recovering somewhat towards evening. Boisterous night.—*Dumfries* (XII). T and L at 2 a.m.

13th—14th.—*Norwich* (IV). T and L in evenings.

14th.—*Hampstead* (I). Heavy H storm, lasting 5 minutes, at 11.40 p.m.—*Wood Green* (III). T at 11.40 p.m.—*Haileybury College* (III). TS at 11.45 p.m.—*Hassobury* (IV). TS about midnight, with vivid L and large H stones.—*Ystradwrallt* (XI). TS, with H, L and R. *Aberystwyth* (XI). Heavy TS.

15th.—*Newport, Llwyngwair* (XI). R 1·71 in. This remarkable R was local, but very heavy while it lasted. It caused the highest flood known for 20 years in the river Nevers.

17th.—*Epsom* (II). Sheet L at 9.30 p.m.—*Norwich* (IV). L in

evening.—*Rousdon* (V). Sudden squalls, with R and H.—*Darrynane Abbey* (XX). TS in night.

21st—30th.—*Drumnadrochit* (XVIII). Whilst most of the country was visited by heavy S storms, the total fall here was only .53 in., of which only .01 in. was melted S.

23rd—24th.—*St. Neots* (III). S fell continuously with N. wind from 2 p.m. on 23rd to 2 a.m. on 24th to a depth of 8 inches.

25th.—*Wickwar* (VI). Roses in bloom in the garden.

26th—28th.—*Morrison* (XI). S $7\frac{1}{4}$ inches deep, yielding .62 in.—*Alford* (XVII). S storm blocked the railway for about 3 days.

26th—29th.—*Tortworth* (VI). Four inches of S, yielding .37 in.—*Gloucester* (VI). S fell almost continuously.—*Porth* (XI). S from 4 to 6 inches deep, with drifts on country roads from 12 to 42 inches in depth. This was the greatest S storm remembered in twelve years.—*Precely* (XI). S fell heavily in the night of 26th, and measured $8\frac{1}{2}$ inches in undrifted places. Nearly 5 inches more fell between 27th and 29th, and there were drifts more than 12 feet deep in many places. The branch railway and many roads were blocked.

26th—30th.—*Whithorn, Cutroach* (XII). Almost continuous S. The roads and railway tracks were blocked, so that for several days communication was only possible by telegraph.

27th.*—*Raunds* (III). L at 11 p.m.—*Truro* (V). Severe TS from 5.15 to 5.45 p.m.—*Wolstaston* (VI). Heavy S fall, with severe frost and S.E. gale. The roads became quite impassable.—*Dolaucothy* (XI). S over 6 inches deep.

27th—28th.*—*Swerford* (III). Fine R which soon turned to S, and this continued until the evening, the temp. falling to 17° by the morning of 28th; the S was about an inch deep. The 28th was bright and cold, followed at night by more S, which continued to fall till about 5 a.m., when the sky cleared. The average depth of S on the ground at that time was about 5 inches. No large flakes of S fell at any time.—*Arbroath* (XVI). A severe S storm and gale caused a dislocation of railway traffic for several days.

27th—29th.*—*Torquay* (V). S commenced to fall about 3.30 p.m. on 27th, and continued at intervals to 2.30 p.m. on 29th. Measurements made in the open varied from 6 to 18 inches according to the elevation.—*Burghill Court* (VI). Continuous S, reaching a depth of 5 inches. The temp. never rose above 22° .—*Knotty Ash*

* See also *Met. Mag.*, January, 1909, p. 233, 234; March, 1909, p. 32; and *Quarterly Journal R.Met.Soc.*, Vol. 35, pp. 81–89.

(VIII). Six inches of S.—*Howick Hall* (X). Heavy falls of S. On 29th, strong wind drove it into drifts and the roads were blocked.—*Dalbeattie* (XII). Severe S storm. There was much drifting and the roads were blocked.—*Forfar* (XVI). Great S storm. The average depth was 27 inches.—*New Deer* (XVII). Roads and railways were blocked by S, and there was no communication with the outer world for over five days. No newspapers or letters reached New Deer until the morning of January 4th.—*Alvey* (XVIII). Little or no S fell at Alvey, in contrast to the heavy falls to the E., N. and S.—*Buckies* (XIX). Severe S storm, with S.E. gale. The railway and roads were all blocked, but owing to the severity of the gale it was impossible to ascertain how much S fell. Wreaths from 7 to 8 feet deep were quite common.

28th.*—*Sudbury* (IV). About 8 a.m. a very slight shock of earthquake was felt.—*Ilderton* (X). Severe S storm, with strong wind. The roads and railways were blocked.—*Ystrad Mynach* (XI). Six inches of S.—*Strachur* (XV). S fell in a high gale during the evening.—*Tighnabruaich* (XV). Heavy S fall blocked the roads.—*Arduaine* (XV). A severe S storm caused more blocking of the roads than has occurred for many years. It was freezing and blowing hard all the time it fell, and although the depth was probably only about 6 inches, it drifted badly.—*St. Andrews* (XVI). Bad storm of S.E. wind, with S at night.—*Drumnadrochit* (XVIII). S. or S.E. gale. The most violent felt here for many years.—*Ballindoney* (XXI). Heavy R storm, lasting about 18 hours, and causing floods everywhere in the district.—*Enniscorthy, Woodbrook* (XXI). The R measured 2.55 in., which was the heaviest fall in the 10 years record.

28th—29th.*—*Tunbridge Wells* (II). S commenced about 7.45 p.m. on 28th, and continued all day on 29th till about midnight.—*Shrewton* (V). S fell to a depth of 8 inches—*Carlisle* (X). Heavy S.E. gale on night of 28th and morning of 29th, with S.—*Kirkby Lonsdale* (X). Severe S storm during the night from E.S.E. There were drifts from 3 to 8 feet deep on account of the severe gale and hard frost.—*Bodnant Hall* (XI). Blizzard. The max. temp. on 29th was 22°.—*Girvan, Glendoune* (XIV). On 28th 4 inches of S fell, and on 29th 5 inches. The S was accompanied by a hurricane which drifted it to a depth of 14 feet in some parts. Trains were snowed up for 24 hours.—*Buchlyvie* (XV). S. gale with S, which fell to a

* See also *Met. Mag.*, January, 1909, pp. 233, 234; March, 1909, p. 32; and *Quarterly Journal R. Met. Soc.*, Vol. 35, pp. 81-89.

depth of 5 inches.—*Aberdeen* (XVII). Heavy S and gale from S. and S.S.W. L and T in the early morning of 28th.—*Lochmaddy* (XVIII). The most severe gale experienced here for nearly 30 years.—*Castletown* (XIX). Rough weather was experienced on 28th, and by 10 p.m. a S storm set in and the wind increased to the force of a whole gale from S.S.E. This continued to about 4 p.m. on 29th, and by that time all the country roads were blocked. The S in some places was from 15 to 20 feet deep.

28th—30th.*—*Kentchurch* (VI). S two inches deep on 28th, and seven inches deep on 29th and 30th.—*Ranmoor* (IX). Three days of extreme cold, the max. and min. temp. being respectively 24°, 17°; 20°, 17°; 27°, 12°.

29th.*—*St. Pancras, Camden Square* (I). Steady fall of S from 7.45 a.m. to 5 p.m., and then a gentle fall until 7 p.m. Undrifted S was more than 3 inches deep. Shade max., 23°·7, was the lowest max. temp. on record for December in 51 years.—*Abinger Hall* (II). About 7 or 8 inches of S fell.—*Wallington* (II). The shade max., 23°·8, was the lowest in December since 1890.—*Maidstone* (II). S fell to a depth of 7 inches.—*Westbourne* (II). S storm from 6.15 a.m. to 6.40 p.m., giving 1·03 in. of melted S.—*Horsham* (II). S commenced at 7 a.m., and fell for 12 hours, to a depth of 8 inches.—*Horeham Grange* (II). Heavy S storm all day, with strong S.E. wind; 6 inches of S on the ground.—*Ticehurst, Myskyns* (II). About 7.30 a.m. S began to fall in very fine hard flakes, which the wind drove through the chinks of closed windows on S. and E. sides of house. At 9 a.m. there was half an inch of S on the ground. It continued thus to 8 p.m., and then fell fitfully to 11 p.m., when five inches lay.—*Ryde* (II). Heaviest S storm since 1881.—*Bournemouth, Kempsey* (II). S fell, with strong E wind, from early morning until 4 p.m., yielding ·70 in., and measuring 6½ in. on the level.—*Southampton* (II). The S, which was fine and powdery, measured 7 inches in the open.—*Botley* (II). Heavy fall of light and powdery S, which measured 7½ inches in undrifted places.—*Strathfieldsaye Gardens* (II). Temp. did not rise above 22° all day, and fell to 2° at night.—*Hartley Wintney* (II). In the morning the temp. fell to 2°·0 in the screen. Such a low reading had only occurred once before, in February, 1900, when the thermometer fell to 0°.—*Goring* (III). S fell somewhat heavily all day, with wind varying between S.E. and N.E.

* See also *Met. Mag.*, January, 1909, pp. 223, 234; March, 1909, p. 32; and *Quarterly Journal R. Met. Soc.*, Vol. 35, pp. 81-89.

Intense cold at night.—*Downton* (V). S fell to a depth of 8 inches.—*Poole, Parkstone* (V). S fell from 6 a.m. to 4 p.m. and measured 7 inches deep.—*Winterbourne Whitchurch* (V). Heavy fall of S, measuring $8\frac{1}{2}$ inches deep.—*Arminster* (V). Severe S storm for a few hours. The depth amounted to 4 inches.—*Wincanton* (V). S began to fall at 5 a.m., and by night the average depth was 6 inches.—*Stow-on-the-Wold* (VI). The max. temp. was only $21^{\circ}0$. S fell continuously, but was so dry that it was more like ice dust. The depth was 6 inches, and the drifts varied from 1 to 3 feet in depth.—*Pontesbury* (VI). Heavy S, with rough wind and very deep drifts.—*Moniaive* (XII). S fell to a depth of 9 or 10 inches.—*Buchlyvie* (XV). Severe S. gale and S storm for some hours in early morning. S 5 inches deep.—*St. Andrews* (XVI). Roads impassable and trains blocked by S.—*Tillypronie* (XVII). Heavy S storm. Roads blocked.

29th—30th.*—*Hampton Poyle* (III). Greatest cold recorded since February, 1905. The shade min. on 29th was $5^{\circ}0$.

30th.*—*Witley* (II). In the morning the temp. fell to $2^{\circ}0$.—*Wallington* (II). The shade min., $11^{\circ}7$, was the lowest December temp. since 1890.—*Horsham* (II). Min. temp. $3^{\circ}0$, the lowest in the 20 years' record.—*Broughton* (II). The frost at night was probably the severest known here, the temp. being but $1^{\circ}0$.—*Edington* (V). Remarkable thaw in the morning melted the S and caused a heavy flood.—*Mansfield* (VII). The temp. at 9 a.m. was $11^{\circ}0$, which is the lowest recorded here since 1895.

31st.*—*Wrington* (V). Complete lunar rainbow in N.E. at 11.45 p.m.—*Ballantrae* (XII). The body of James Cunningham, a postman, who had been missing since the 28th when he started on his round between Ballantrae and Glenapp, was found in a snowdrift near Killingtrigan. His failure to return caused a search party to be sent out.—*Ballycastle* (XXIII). On the 28th Daniel Skullion, bread cart driver, of Ballycastle, left for Cushenden, distant about eleven miles, over a bleak mountain road. Two men passing over Glens mountain on the 30th discovered the bread cart about eight miles up the mountain, but no man or horse was to be seen. After an all-day search the horse was found buried in snow 200 yards from the cart. No trace of Skullion was found. Over 100 persons were engaged in digging in the snow, which was in some places 20 ft. deep.

* See also *Met. Mag.*, January, 1909, pp. 233, 234; March, 1909, p. 32 and *Quarterly Journal R. Met. Soc.*, Vol. 35, pp. 81-89.

OBSERVERS' NOTES ON THE MONTHS.

JANUARY.*

ENGLAND.

I. LONDON.—*St. Pancras, Camden Square.* In the first two weeks two short spells of severe frost occurred, separated by a sudden thaw and 1·38 in. of R on 7th, the heaviest daily fall in January since the record started in 1858. In the latter half anticyclonic conditions prevailed, and dense fogs were frequent, but the temp. was considerably higher. Fine and bright after 27th. Mean temp. $36^{\circ}\cdot7$, or $1^{\circ}\cdot4$ below the average. Duration of sunshine 32·5 hours, and of R 34·6 hours. R ·05 in., or 3 per cent., below the average of 50 years.

II. SOUTH EASTERN COUNTIES.—*Haslemere.* R ·43 in. below the average. Mean temp. $33^{\circ}\cdot8$, or $2^{\circ}\cdot3$ below the average.—*Wallington.* Mean temp. $36^{\circ}\cdot5$, or $1^{\circ}\cdot7$ below the average of 20 years. Duration of sunshine 50·2 hours (Jordan), or 4·3 hours below the average.—*East Grinstead.* R ·59 in. below the average of 18 years.—*Totland Bay.* The coldest January for 11 years. Duration of sunshine 99·1 hours.

III. SOUTH MIDLAND COUNTIES.—*Eton.* Although the R was only 1·65 in., the Thames was in a state of flood during part of the month.

IV. EASTERN COUNTIES.—*Copdock.* Mean temp. $35^{\circ}\cdot8$. Duration of sunshine 74·3 hours.—*Norwich.* In the first week there were wind, frosts and clear skies, skating being general. Mean temp. $35^{\circ}\cdot9$, or $1^{\circ}\cdot4$ below the average.

V. SOUTH WESTERN COUNTIES.—*Weymouth.* Mean temp. $39^{\circ}\cdot9$. Duration of sunshine 82·3 hours.—*Tavistock, Whitchurch.* Cold and fine, with less than half the average R. The mean daily temp. varied from $23^{\circ}\cdot1$ on 3rd to $48^{\circ}\cdot0$ on 16th.

VI. WEST MIDLAND COUNTIES.—*Cirencester.* Remarkably changeable; hard, dry frosts alternating with extreme mildness, brilliant days with densely foggy ones, calms with gales.—*Hoar Cross.* Bright and sunny till 20th, then dense fogs and S and R to the end. Duration of sunshine 54·5 hours.—*Mayfield House [Ashbourne].* Mean

* See also *Met. Mag.*, February, 1908, pp. 17, 23.

temp. $34^{\circ}2$. Duration of sunshine 53·2 hours.—*Worcester*. Three spells of frost were followed by more or less rapid thaws. The first frost, though short, was so severe as to freeze the Severn above Worcester Bridge, making skating possible on it, a somewhat unusual occurrence. In the latter part of the month there were dense fogs.—*Edgbaston*. R 1·10 in. below the average of 21 years. Duration of sunshine 20·5 hours, or 13·7 hours below the average.

VII. NORTH MIDLAND COUNTIES.—*Louth*. R ·83 in. below the average of 36 years.

VIII. NORTH WESTERN COUNTIES.—*Chatburn*. R 2·13 in. above the average of 19 years.—*Blackpool*. From 1st to 12th, and again from 18th to 24th, the weather was fine, frosty and bright, but the intervening period was dull and unsettled, with high winds during the last week. Mean temp. $36^{\circ}7$, or $1^{\circ}7$ below the average. Duration of sunshine 59·8 hours, or 21 hours above the average. R ·62 in. below the average of 35 years.

IX. YORKSHIRE.—*Sheffield*. The month was tolerably merciful in its weather, a warm wave and a cold one following each other in almost rhythmic succession. Fogs were very frequent; one maintained a thick impenetrable obscurity for 28 hours. Duration of sunshine 59·1 hours.

SCOTLAND.

XIV. SOUTH WESTERN COUNTIES.—*Colmonell*. R ·25 in. above the average of 32 years.

XV. WEST MIDLAND COUNTIES.—*Buchlyvie*. R 1·09 in. above the average of 19 years.

IRELAND.

XXI. LEINSTER.—*Ballybrack*. The first week was bright and bracing, but dull, damp weather prevailed during the rest of the month, and winter flowers were very backward. R 1·13 in. below the average of 30 years.—*Bulbriggan*. R ·61 in. below the average of 15 years.

FEBRUARY.*

ENGLAND.

I. LONDON.—*St. Pancras, Camden Square*. The first half was dry and fine, with high bar.; the second half cloudy and showery. Mean

* See also *Met. Mag.*, March, 1908, pp. 33, 34, 43.

temp. $41^{\circ}7$, or $1^{\circ}9$ above the average; shade max. $54^{\circ}5$ on 17th, min. $28^{\circ}0$ on 13th. Duration of sunshine 53.1 hours, and of R 28.8 hours. R .06 in., or 4 per cent., above the average of 50 years.

II. SOUTH EASTERN COUNTIES.—*Warlingham*. The early part was dry with some very fine, though rather foggy, days. A violent gale on 15th was followed by a succession of wet days, but the amount of the falls was small. Mean temp. $40^{\circ}3$.—*Epsom*. Dry weather was experienced with a degree of warmth above the average, several days being very genial especially during the middle period. Mean temp. $40^{\circ}8$.—*Wallington*. Mean temp. $41^{\circ}8$, or $3^{\circ}1$ above the average. Duration of sunshine 61.6 hours (Jordan), or 2.3 hours below the average.—*Selsey Bill*. Mean temp. $42^{\circ}1$. Duration of sunshine 91.1 hours.—*East Grinstead*. R .70 in. below the average of 18 years.—*Maidenhead*. Mean temp. $39^{\circ}1$. Duration of sunshine 68.3 hours.

III. SOUTH MIDLAND COUNTIES.—*Amptill*. R .43 in. below the average of 17 years.

IV. EASTERN COUNTIES.—*Copdock*. Large number of rain days with a disproportionately small fall of R. Mean temp. $40^{\circ}5$. Duration of sunshine 70.9 hours.

V. SOUTH WESTERN COUNTIES.—*Tavistock*, *Whitchurch*. Warm, damp, and cloudy with R above but rain days below, the average. The mean daily temp. varied from $47^{\circ}5$ on 20th to $36^{\circ}4$ on 29th.

VI. WEST MIDLAND COUNTIES.—*Westbury-on-Trym*. R .93 in. below the average of 36 years.—*Mayfield House* [*Ashbourne*]. Mean temp. $40^{\circ}5$. Duration of sunshine 55.7 hours.

VIII. NORTH WESTERN COUNTIES.—*Chatburn*. R .42 in. above the average of 19 years.—*Blackpool*. Dull, but fairly dry till 12th, but from this date it was changeable and showery. The last week was very rough with frequent R and H squalls. Mean temp. $41^{\circ}3$, or $2^{\circ}0$ above the average. R .28 in. below the average of 35 years. Duration of sunshine 73.3 hours, or 10.3 hours above the average.

IX. YORKSHIRE.—*Keighley*. R .45 in. below the average of 23 years.—*East Layton Hall*. Fine weather in the early part enabled farmers and gardeners to get their ground cultivated, but the last week was very stormy with a heavy fall of S on 27th.

SCOTLAND.

XV. WEST MIDLAND COUNTIES.—*Buchlyvie*. R .84 in. below the average of 19 years.

XVI. EAST MIDLAND COUNTIES.—*St. Andrews*. The first half was wonderfully mild and pleasant with still sunny days, but the latter half was unsettled with high winds and S on the last three days. Vegetation was very forward.

XVIII. NORTH WESTERN COUNTIES.—*Drumnadrochit*. R 1·80 in., and rain days 7, above the average of 22 years.

IRELAND.

XXI. LEINSTER.—*Ballybrack*. R 1·73 in. below the average of 30 years.—*Rathmines*. Anticyclonic conditions prevailed until 14th, after which a series of depressions followed until the close. The last three days were cold with frequent H, S, and sleet.—*Balbriggan*. R ·50 in. below, and rain days 3 above, the average of 15 years.

XXIII. ULSTER.—*Banbridge, Milltown*. R ·94 in. below the average of 45 years.

MARCH.*

ENGLAND.

I. LONDON. *St. Pancras, Camden Square*. Much R and S fell in the early part, followed by strong winds from 8th to 11th. Changeable weather, with a good deal of R and low temp. characterised the latter part. Mean temp. 41°·1, or 1°·0 below the average; shade max. 58°·1 on 24th, min. 25°·6 on 15th. Duration of sunshine 97·6 hours, and of R 76·4 hours. R ·68 in., or 40 per cent., above the average of 50 years.

II. SOUTH EASTERN COUNTIES.—*Wallington*. Duration of sunshine 91·4 hours (Jordan) or 24·0 hours below the average. Mean temp. 40°·5, or 1°·7 below the average.—*Sevenoaks*. The old adage, "March many weathers," was very true. The usual March gales occurred about the second week and on the last day, but no great damage was done.—*Selsey Bill*. Duration of sunshine 152·7 hours. Mean temp. 41°·6.—*East Grinstead*. R 1·24 in. above the average of 18 years.—*Maidenhead*. Duration of sunshine 113·2 hours. Mean temp. 37°·1.

III. SOUTH MIDLAND COUNTIES.—*Harrow Weald*. R 1·28 in. above the average of 15 years.—*Amphill, Higham Bury*. R 1·21 in. above the average of 17 years.

IV. EASTERN COUNTIES.—*Copdock*. Cold and unpleasant almost throughout, with but 108·8 hours of sunshine. Mean temp. 39°·8.

* See also *Met. Mag.*, April, 1908, pp. 58, 63.

V. SOUTH WESTERN COUNTIES.—*Weymouth*. Duration of sunshine 126·1 hours. Mean temp. $46^{\circ}8$.—*Tavistock, Whitchurch*. Wet, rather cold and damp. The daily mean temp. varied from $34^{\circ}8$ on 4th to $46^{\circ}4$ on 8th.—*Edington*. Cold and wild, with frequent gales from all quarters and excessive R. There was scarcely one genial day. R above and temp. below the normal.

VI. WEST MIDLAND COUNTIES.—*Mayfield House [Ashbourne]*. Wet and cold, with frequent frosts and low day temp. Duration of sunshine 101·1 hours.—*Birmingham*. R 1·31 in. above the average of 21 years. Duration of sunshine 57·4 hours.

VII. NORTH MIDLAND COUNTIES.—*Louth*. R ·71 in. above the average of 36 years.

VIII. NORTH WESTERN COUNTIES.—*Liverpool*. R 1·17 in. above the average of 35 years. Duration of sunshine 95·1 hours.—*Manchester*. There were only occasional foretastes of spring, and gardeners were becoming impatient of the general tardiness, but some crowded days of glorious sunshine (duration 55·5 hours) atoned in some measure.—*Blackpool*. Cold and changeable. R ·13 in. above the average of 35 years. Duration of sunshine 125·2 hours, or 17·2 hours above the average. Mean temp. $39^{\circ}4$, or $1^{\circ}9$ below the average.

IX. YORKSHIRE.—*Leeds*. One whole week was sunless, a statement which conveys a meagre idea of the inclement weather that prevailed, a mixture of R, S, sleet with high winds, days of intense gloom, fogs and cold nights. However, on 31st 11·2 hours of sunshine were recorded, bringing the duration for the month up to 103·0 hours.

SCOTLAND.

XIV. SOUTH WESTERN COUNTIES.—*Colmonell*. R 2·32 in. above the average of 32 years.

XV. WEST MIDLAND COUNTIES.—*Buchlyvie*. The beginning was wet, the middle dry, and the latter part was wet and very stormy.

IRELAND.

XX. MUNSTER.—*Miltown Malbay*. Coming in like a lion, March went out in a rain-storm. Continuous cold and drizzle kept all agricultural work at a standstill, the soil being all puddle.

XXI. LEINSTER.—*Ballybrack*. R 1·14 in. above the average of 30 years.

XXIII. ULSTER.—*Banbridge, Milltown*. R 1·20 in. above the average of 45 years.

APRIL.*

ENGLAND.

I. LONDON.—*St. Pancras, Camden Square*. Changeable, showery weather with low temp. characterised the first half, but from 15th to 17th bright, sunny conditions prevailed. Temp. again fell on 18th, and then followed a week of wintry weather, with much R and S. On the morning of 24th, S fell to a depth of $3\frac{1}{2}$ in. in open places. Temp. rose considerably at the close. Mean temp. $44^{\circ}7$, or $3^{\circ}4$ below the average; shade max. $65^{\circ}5$ on 30th, min. $28^{\circ}4$ on 9th. Duration of sunshine 141.8 hours, and of R 66.1 hours. R .73 in., or 45 per cent., above the average of 50 years.

II. SOUTH EASTERN COUNTIES.—*Warlingham*. Singularly unlike our notion of April. Cold and stormy, with several heavy S storms and much R. Vegetation was very backward. Mean temp. $42^{\circ}7$ — *Wallington*. R 1.06 in. above the average. Mean temp. $44^{\circ}2$, or $3^{\circ}1$ below the average. Duration of sunshine 132.5 hours (Jordan), or 25.1 hours below the average.—*Sevenoaks*. The month was cold, and S fell on 23rd, 24th and 28th. R 1.20 in. above the average.—*Selsey Bill*. Duration of sunshine 179.8 hours. Mean temp. $44^{\circ}5$. —*East Grinstead*. R 1.07 in. above the average of 18 years.—*Shanklin*. Duration of sunshine 198.5 hours. Mean temp. $45^{\circ}4$.—*Maidenhead*. Gales, R and TSS were experienced during the first week, followed by sunshine and frosty nights to 17th. Gales with much S followed to 25th, and R fell to the end. The Thames was in flood at the end.

III. SOUTH MIDLAND COUNTIES.—*Harrow Weald*. R 1.70 in. above the average of 15 years.—*Potters Bar*. Duration of sunshine 96.8 hours.—*Slough*. Cold winds to Easter retarded vegetation and foliation, and robbed flowering shrubs of colour and blossom, and elm trees of winged seed. Much S in the third week was followed by serious floods at the close.—*Amphill, Higham Bury*. R 1.78 in. above the average of 17 years.

IV. EASTERN COUNTIES.—*Copdock*. Mean temp. $43^{\circ}2$. Duration of sunshine 148.3 hours.

V. SOUTH WESTERN COUNTIES.—*Wilcot*. R 1.86 in. above the average of 20 years.—*Weymouth*. Duration of sunshine 165.6 hours. Mean temp. $45^{\circ}8$.

VI. WEST MIDLAND COUNTIES.—*Ledbury, Putley Court*. The frosts in the early part were remarkably destructive to gooseberries and

* See also *Met. Mag.*, May, 1908, pp. 75, 83.

black currants. A crop of 50 tons of gooseberries was cut down to 3 tons. Plums and apples were little injured.—*Birmingham, Edgbaston*. R $\cdot 87$ in. above the average of 21 years. Duration of sunshine 74.1 hours, or 39.7 hours below the average. Mean temp. $40^{\circ}9$, or $4^{\circ}4$ below the average.

VII. NORTH MIDLAND COUNTIES.—*Louth*. R 1.43 in. above the average of 37 years.

VIII. NORTH WESTERN COUNTIES.—*Liverpool*. R 1.78 in. above the average. Duration of sunshine 144.0 hours.—*Chatburn*. R 1.39 in. above the average of 19 years.

IX. YORKSHIRE.—*Sheffield*. Duration of sunshine 101.6 hours. Mean temp. $42^{\circ}2$, or $3^{\circ}2$ below the average.

X. NORTHERN COUNTIES.—*Darlington*. Exceedingly wintry, S falling on each day from 18th to 26th, and 17° of frost being registered on 24th.

XI. WALES.—*St. Asaph*. R $\cdot 49$ in. above the average of 15 years.

SCOTLAND.

XV. WEST MIDLAND COUNTIES.—*Buchlyvie*. R 1.52 in. below the average of 19 years.

XVIII. NORTH WESTERN COUNTIES.—*Drumnadrochit*. R $\cdot 30$ in. below, and rain days 1 above, the average of 22 years.

IRELAND.

XXI. LEINSTER.—*Ballybrack*. R $\cdot 75$ in. above the average of 30 years.—*Rathmines*. The worst April on record. The early part, though dry, was cold and harsh with frequent frosts, but a fair amount of sunshine. In the last week an unparalleled period of wintry weather occurred. S fell heavily and low minima were recorded on successive days. The mean temp., $42^{\circ}9$, was the lowest in the record.

XXIII. ULSTER.—*Banbridge, Milltown*. R 1.00 in. above the average of 45 years.

MAY.*

ENGLAND.

I. LONDON.—*St. Pancras, Camden Square*.—Sunny and very warm, the mean temp. being $57^{\circ}4$, or $3^{\circ}4$ above the average. Duration

* See also *Met. Mag.*, June, 1908, pp. 85, 86, 103.

of sunshine 173·7 hours and of R 29·8 hours. Shade max. 77°·9 on 27th; min. 42°·2 on 23rd. R ·08 in., or 4 per cent., above the average of 50 years.

II. SOUTH EASTERN COUNTIES.—*Wallington*. R ·35 in., and rain days 4, above the average of 20 years. Duration of sunshine 195·9 hours (Jordan), or 3·0 hours below the average. Mean temp. 56°·3.—*Folkestone*. R ·70 in. below the average. Mean temp. 53°·8, or 1°·9 above the average.—*Maidenhead*. Overcast and showery in the first half, followed by cloudy and sunny weather to 20th, after which R and squalls prevailed. Duration of sunshine 179·0 hours.

IV. EASTERN COUNTIES.—*Copdock*. Anticyclonic conditions prevailed and the mean temp., 55°·6, was the highest yet recorded for May. The foliage could hardly be surpassed for beauty, opening as it did, late, and without any check in the way of frost or gales. Duration of sunshine, 196·7 hours.

V. SOUTH WESTERN COUNTIES.—*Weymouth*. Duration of sunshine, 211·3 hours. Mean temp. 54°·4.—*Tavistock*, *Whitchurch*. Warm, damp, and foggy, with R slightly below, and rain days slightly above, the average. Daily mean temp. varied from 64°·4 on 27th to 46°·0 on 13th. / 2

VI. WEST MIDLAND COUNTIES.—*Birmingham*. R ·90 in. above the average of 21 years. Duration of sunshine 141·4 hours, or 5·9 hours above the average. Mean temp. 54°·9, or 3°·9 above the average.

VII. NORTH MIDLAND COUNTIES.—*Louth*. R ·11 in. below the average of 37 years.—*Hodsock Priory*. Warm with normal R and sunshine. The mean temp. was the highest in 33 years.

VIII. NORTH WESTERN COUNTIES.—*Chatburn*. R 1·07 in. above the average of 19 years.—*Blackpool*. A sunny month although the early part was showery. Mean temp. above the average. The duration of bright sunshine, 229·5 hours, exceeded the average by 26 hours. R ·82 in. above the average.

SCOTLAND.

XII. SOUTHERN COUNTIES.—*Jardington*. The weather was almost ideal. The first fortnight had cloudy skies and frequent showers, but after 16th there was more sunshine with higher temp. which was extremely favourable to vegetable growth.

XIV. SOUTH WESTERN COUNTIES.—*Colmonell*. R ·80 in. below the average of 32 years.

XV. WEST MIDLAND COUNTIES.—*Buchlyvie*. R .56 in. above the average of 19 years.

XVI. EAST MIDLAND COUNTIES.—*Coupar Angus*. Light R and rather cold weather to 26th when a sudden change to the other extreme was experienced, and the month closed with a wave of heat. unprecedented for 30 years whereby the mean temp. was raised to $52^{\circ}0$, or $3^{\circ}0$ above the average.

XVIII. NORTH WESTERN COUNTIES.—*Drumnadrochit*. R .74 in., and rain days 4, below the average of 22 years.

IRELAND.

XXI. LEINSTER.—*Ballybrack*. R 1.01 in. below the average of 30 years.—*Balbriggan*. R .23 in., and rain days 5, above the average of 15 years.

XXIII. ULSTER.—*Banbridge, Milltown*. R .78 in. below the average of 45 years.

JUNE.*

ENGLAND.

I. LONDON.—*St. Pancras, Camden Square*. Warm weather with TSS was experienced in the first week and the remainder of the month was bright and sunny. Mean temp. $61^{\circ}8$, or $1^{\circ}4$ above the average. Duration of sunshine 240.0 hours, and of R 20.8 hours. Shade max. $86^{\circ}0$ on 4th; min. $41^{\circ}1$ on 7th. R 1.04 in., or 45 per cent., below the average of 50 years.

II. SOUTH EASTERN COUNTIES.—*Wallington*. Sunshine 256.2 hours (Jordan), or 54.0 hours above the average. Mean temp. $59^{\circ}5$, or $0^{\circ}2$ above the average.—*East Grinstead*. R .93 in. below the average of 18 years.—*Shanklin*. Duration of sunshine 329.6 hours. Mean temp. $58^{\circ}6$.

III. SOUTH MIDLAND COUNTIES.—*Harrow Weald*. R .41 in. below the average of 15 years.—*Amptill, Higham Bury*. R .97 in. below the average of 17 years.

IV. EASTERN COUNTIES.—*Copdock*. Duration of sunshine 238.7 hours. Mean temp. $60^{\circ}0$.

V. SOUTH WESTERN COUNTIES.—*Weymouth*. Duration of sunshine 276.9 hours. Mean temp. $59^{\circ}5$.—*Winterbourne Steepleton*. The driest June in the 16 years' record.—*Tavistock, Whitchurch*. Warm

* See also *Met. Mag.*, July, 1908, pp. 111, 123.

and sunny with large daily range of temp. The mean daily temp. varied from $67^{\circ}\cdot5$ on 3rd to $49^{\circ}\cdot5$ on 15th.

VI. WEST MIDLAND COUNTIES.—*Mayfield House* [*Ashbourne*]. Duration of sunshine 200·0 hours. Mean temp. $55^{\circ}\cdot4$.

VII. NORTH MIDLAND COUNTIES.—*Louth*. R $\cdot78$ in. below the average of 36 years.

VIII. NORTH WESTERN COUNTIES.—*Chatburn*. R $\cdot26$ in. below the average of 19 years.—*Blackpool*. During the early part the weather was unstable, although fair generally, but from 18th to the end it was very bright and dry. R $\cdot08$ in. above the average of 35 years. Duration of sunshine 225·5 hours, or 26·5 hours above the average. Mean temp. $56^{\circ}\cdot0$, or $0^{\circ}\cdot8$ below the average.

XI. WALES.—*Carmarthen*. The finest and brightest June for many years, and unusually hot. A splendid hay harvest was secured, but water supplies were getting very low.

SCOTLAND.

XVIII. NORTH WESTERN COUNTIES.—*Drumnadrochit*. R $\cdot66$ in. below, and rain days 1 above, the average of 22 years.

IRELAND.

XX. MUNSTER.—*Broadford*. R $\cdot35$ in. below, and rain days 1 above, the average of 23 years.

XXI. LEINSTER.—*Ballybrack*. R $\cdot28$ in. below the average of 30 years.

XXIII. ULSTER.—*Banbridge, Milltown*. R $\cdot16$ in. below the average of 45 years.

JULY.*

ENGLAND.

I. LONDON.—*St. Pancras, Camden Square*. Hot and dry at the beginning, the mean max. temp. for the first three days being $85^{\circ}\cdot9$. Dull and rainy weather continued to 18th, but the remainder was fine, bright and rainless. Duration of sunshine 161·5 hours, and of R 44·8 hours. Shade max. $87^{\circ}\cdot3$ on 3rd; min. $47^{\circ}\cdot2$ on 20th. R 1·02 in., or 43 per cent., above the average of 50 years.

II. SOUTH EASTERN COUNTIES.—*Wallington*. R $\cdot61$ in. above, and rain days 1 below, the average of 20 years. Duration of sunshine

* See also *Met. Mag.*, August, 1908, pp. 125, 131, 143.

193·2 hours (Jordan), or 22·4 hours below the average, and mean temp. $62^{\circ}3$, or $0^{\circ}4$ below the average.

III. SOUTH MIDLAND COUNTIES.—*Harrow Weald*. R 1·21 in. above the average of 15 years.—*Amphill, Higham Bury*. R ·49 in. above the average of 17 years.

V. SOUTH WESTERN COUNTIES.—*Weymouth*. Duration of sunshine 237·0 hours. Mean temp. $62^{\circ}4$.—*Tavistock, Whitchurch*. R above, and temp. slightly below, the average. The mean daily temp. varied from $68^{\circ}6$ on 4th, to $55^{\circ}2$ on 12th.—*Edington*. The first week was brilliant with great heat. A break came on 10th, and the middle period was somewhat unsettled and showery, the remainder being fine and summerlike but without excessive temp.

VI. WEST MIDLAND COUNTIES.—*Mayfield House [Ashbourne]*. Duration of sunshine 174·7 hours. Mean temp. $58^{\circ}9$.—*Birmingham, Edgbaston*. Duration of sunshine 150·5 hours, or 5·8 hours above the average of 21 years.

VII. NORTH MIDLAND COUNTIES.—*Buxton*. R ·23 in. below the average of 35 years. Duration of sunshine 177·8 hours. Mean temp. $57^{\circ}2$, or $0^{\circ}6$ below the average.

VIII. NORTH WESTERN COUNTIES.—*Chatburn*. R 2·29 in. above the average of 19 years.

IX. YORKSHIRE.—*Sheffield*. The month maintained its true character, for while the downpours were copious they were not of long duration. The R was ·15 in. above the average of 26 years, and practically all fell between 4th and 17th. Duration of sunshine 156·8 hours, and mean temp. $60^{\circ}0$.

SCOTLAND.

XIV. SOUTH WESTERN COUNTIES.—*Colmonell*. R ·27 in. below the average of 32 years.

XV. WEST MIDLAND COUNTIES.—*Buchlyvie*. R ·49 in. above the average of 19 years.

XVIII. NORTH WESTERN COUNTIES.—*Drumnadrochit*. R 1·09 in., and rain days 6, below the average of 22 years.

IRELAND.

XXI. LEINSTER.—*Ballybrack*. R ·08 in. below the average of 30 years.

XXIII. ULSTER.—*Banbridge, Milltown*. R ·84 in. above the average of 45 years.

AUGUST.*

ENGLAND.

I. LONDON.—*St. Pancras, Camden Square.* The dry, sunny weather of the latter part of July continued until 4th, giving an absolute drought of 17 days. With the exception of a few fine days in the middle, the remainder of the month was unsettled with frequent R and occasional TSS. Duration of sunshine 179·3 hours, and of R 48·4 hours. Mean temp. $60^{\circ}\cdot9$, or $1^{\circ}\cdot2$ below the average. Shade max. $83^{\circ}\cdot9$ on the 3rd; min. $45^{\circ}\cdot4$ on 12th. R $\cdot61$ in., or 26 per cent., above the average of 50 years.

II. SOUTH EASTERN COUNTIES.—*Wallington.* R $1\cdot14$ in. above the average of 20 years. Duration of sunshine 196·3 hours (Jordan), or 1·8 hours below the average, and mean temp. $59^{\circ}\cdot9$, or $1^{\circ}\cdot8$ below.—*East Grinstead.* R $2\cdot83$ in. above the average of 18 years.—*Bishops Waltham.* During the last 12 days 6·25 in. of R fell, an unprecedented amount for 12 consecutive days in the 33 years' record.

III. SOUTH MIDLAND COUNTIES.—*Harrow Weald.* The early part was dry and hot, but the latter part was stormy with much R, causing damage to the fruit crops. R $\cdot23$ in. below the average of 15 years.—*Goring.* Beautiful weather prevailed to 20th. The heat was never excessive, and the harvest was got in well and cheaply. Trees, especially aspens, showed yellow leaves in the third week, and rooks began their wild autumnal flights in the fourth.—*Amptill, Higham Bury.* R $\cdot33$ in. above the average of 17 years.

IV. EASTERN COUNTIES.—*Copdock.* Duration of sunshine 175·8 hours. Mean temp. $59^{\circ}\cdot6$.

V. SOUTH WESTERN COUNTIES.—*Weymouth.* Duration of sunshine 259·6 hours. Mean temp. $61^{\circ}\cdot8$.—*Tavistock. Whitchurch.* Fine, but rather cold to 18th, after which the weather was very wet. The mean daily shade temp. varied from $64^{\circ}\cdot6$ on 3rd to $50^{\circ}\cdot8$ on 31st.—*Truro.* Little or no R fell up to 19th, after which the downpour was almost continuous, and seriously hindered saving the corn in this district.—*Edington.* On 20th an entire revolution in the weather of the summer took place, and the rest of the month was wild, wet and autumnal. Though the R was above the average, it was entirely confined to the last ten days.

VI. WEST MIDLAND COUNTIES.—*Clifton, Durdham Down.* The greater part was favoured with such continuous sunshine that people

* See also *Met. Mag.*, September, 1908, pp. 150, 153, 163.

generally considered that the land was sorely in need of rain. In the latter part the clouds dropped their moisture in unstinted measure, so that the R was 1·11 in. above the average of 21 years.—*Mayfield House [Ashbourne]*. Duration of sunshine 171·5 hours. Mean temp. 56°·0.—*Birmingham, Edgbaston*. R ·47 in. below the average of 21 years. Duration of sunshine 133·2 hours, or 8·2 hours below the average.

VII. NORTH MIDLAND COUNTIES.—*Louth*. R ·81 in. below the average of 37 years.—*Buxton*. R ·69 in. below the average of 35 years. Duration of sunshine 167·4 hours. Mean temp. 54°·8.

VIII. NORTH WESTERN COUNTIES.—*Chatburn*. R 2·10 in. below the average of 19 years.—*Blackpool*. Fair and bright to 19th, but afterwards showery and unsettled. R ·08 in. below the average of 35 years. Duration of sunshine 197·0 hours, or 32·0 hours above the average. Mean temp. 57°·7, or 1°·7 below the average.

IX. YORKSHIRE.—*Bradford*. The first half was remarkably fine, but during the latter half a series of cyclonic disturbances passing over the country brought low temp. and plentiful R. Duration of sunshine 187·0 hours.

XI. WALES.—*Cardmarthen*. The early part was fine and summerlike, but the latter part was wet and stormy, and much damage was done to fruit and corn.

SCOTLAND.

XV. WEST MIDLAND COUNTIES.—*Buchlyvie*. The first three weeks were fine, with comparatively small R, but the last ten days were unsettled and wet. Much corn ripened, but little reaping could be done. R 1·04 in. below the average of 19 years.

XVIII. NORTH WESTERN COUNTIES.—*Drumnadrochit*. R ·23 in., and rain days 5, below the average of 22 years.

IRELAND.

XXI. LEINSTER.—*Ballybrack*. R ·51 in. above the average of 30 years.

XXIII. ULSTER. — *Banbridge, Milltown*. R 1·27 in. below the average of 45 years.

SEPTEMBER.*

ENGLAND.

I. LONDON.—*St. Pancras, Camden Square*. Strong winds and R prevailed during the first four days, after which the weather was

* See also *Met. Mag.*, October, 1908, pp. 177, 183.

very changeable, bright sunshine alternating with dull, showery conditions until 25th. The last days were exceptionally fine and unusually warm. Duration of sunshine 129·3 hours, and of R 23·9 hours. Mean temp. 57°·1, or 0°·6 below the average. Shade max. 79°·0 on 30th; min. 38°·5 on 13th. R ·94 in., or 43 per cent., below the average of 50 years.

II. SOUTH EASTERN COUNTIES.—*Wallington*. R ·32 in. below the average of 20 years. Duration of sunshine 165·2 hours (Jordan), or 5·5 hours above the average, and mean temp. 56°·6, or 0°·9 below the average.—*East Grinstead*. R 1·00 in. below the average of 18 years.—*West Dean*. Temp. below the average to 28th, when a spell of summer heat set in, with dense fogs in morning and at night.

III. SOUTH MIDLAND COUNTIES.—*Harrow Weald*. R ·33 in. below the average of 15 years.—*Amphill, Higham Bury*. R ·61 in. above the average of 17 years.

IV. EASTERN COUNTIES.—*Copdock*. It opened cold, wet and unpleasant, and with the exception of three distinct and very brief spells, about 8th, 19th and 30th respectively, the weather continued cold. Duration of sunshine 173·3 hours. Mean temp. 56°·6.

V. SOUTH WESTERN COUNTIES.—*Weymouth*. Duration of sunshine 141·0 hours. Mean temp. 57°·6.—*Tavistock, Whitchurch*. Cold, damp and foggy, becoming warm towards the close. The daily mean temp. varied from 47°·7 on 12th to 67°·3 on 30th.

VI. WEST MIDLAND COUNTIES.—*Mayfield House [Ashbourne]*. Duration of sunshine 91·6 hours. Mean temp. 53°·4.

VII. NORTH MIDLAND COUNTIES.—*Louth*. R ·80 in. below the average of 37 years.

VIII. NORTH WESTERN COUNTIES.—*Chatburn*. R 1·83 in. above the average of 19 years.—*Blackpool*. With the exception of a few bright, warm days at the end, the weather was unseasonable and very wet between 8th and 25th. R ·53 in. above the average of 35 years. Duration of sunshine 119·9 hours, or 8·1 hours below the average. The mean temp., 55°·5, was normal.

SCOTLAND.

XII. SOUTHERN COUNTIES.—*Dalbeattie, Little Richorn*. Particularly mild and wet. The harvest was much interfered with, and a great quantity of grain was spoiled.—*Moniaive*. The wettest September on record, but mild throughout, the mean temp. being 52°·0.

XIII. SOUTH EASTERN COUNTIES.—*West Linton*. A wretched

month on the whole; damp, cloudy and gloomy, especially in the fortnight from 13th to 26th, during which only 13 hours of sunshine were recorded.

XV. WEST MIDLAND COUNTIES.—*Buchlyvie*. R 3·68 in. above the average of 19 years, and the greatest in September during the record. Except in the early days of the month, the harvest was practically at a standstill and much corn sprouted.

XVI. EAST MIDLAND COUNTIES.—*Braco*. The wettest September on record. In the whole of the Strathallan district scarcely a sheaf was secured and hardly a dry day experienced. Black fogs were common, and crops were going fast to the bad.—*Coupar Angus*. Persistently wet, with a few morning frosts in the early part.

XVIII. NORTH WESTERN COUNTIES.—*Drumnadrochit*. R 3·65 in., and rain days 9, above the average of 22 years.

IRELAND.

XXI. LEINSTER.—*Ballindoney*. The wettest September remembered, and most disastrous for the harvest. No oats or barley had been drawn out of the fields at the close, and much was in stooks and growing. A thick fog set in on 27th, and never lifted by day or night until the close.—*Ballybrack*. R ·59 in. above the average of 30 years.

XXIII. ULSTER.—*Banbridge, Milltown*. R ·46 in. above the average of 45 years.

OCTOBER.*

ENGLAND.

I. LONDON.—*St. Pancras, Camden Square*. After four hot days, with morning fog, generally fair and mild weather followed to 20th, after which it was dull and cool. Duration of sunshine 84·8 hours, and of R 43·1 hours. Mean temp. 53°·9, or 4°·1 above the average, and the highest in 51 years, except in 1861, 1898 and 1906. The shade max., 79°·0 on 2nd, was the highest in any October since 1859; min. 32°·9 on 25th. R ·72 in., or 27 per cent., below the average of 50 years.

II. SOUTH EASTERN COUNTIES.—*Farnham*. “St. Luke’s summer” continued to 20th, and after a week of almost midwinter temp. the weather was again sunny to the close.—*Warlingham*.. Remarkably summerlike weather until about 20th with roses and other summer

* See also *Met. Mag.*, November, 1908, pp. 188, 191, 203.

flowers in full bloom. Mean temp. $54^{\circ}3$.—*Wallington*. Duration of sunshine 135·5 hours (Jordan), the greatest amount recorded in October since 1888. Mean temp. $53^{\circ}9$, the highest in 23 years, excepting only $54^{\circ}1$ in 1906.—*East Grinstead*. R 1·89 in. below the average of 18 years.

III. SOUTH MIDLAND COUNTIES.—*Harrow Weald*. R ·94 in. below the average of 15 years.—*Amphill, Higham Bury*. R ·46 in. below the average of 17 years.

IV. EASTERN COUNTIES.—*Copdock*. Duration of sunshine 115·0 hours. Mean temp. $53^{\circ}5$.

V. SOUTH WESTERN COUNTIES.—*Weymouth*. Duration of sunshine 133·0 hours. Mean temp. $56^{\circ}4$.—*Tavistock, Whitchurch*. Warm, dry and fine with great variations of temp. The mean daily temp. varied from $68^{\circ}5$ on 2nd to $38^{\circ}7$ on 25th.—*Edington*. Remarkable for the persistency of high temp., especially during the daytime. The shade max. of 80° on 1st was the highest recorded in October since 1895, and also the highest reading obtained during the whole summer after July 4th. There were nine readings of 70° or above, one occurring as late as the 19th, and there were only three days on which the temperature failed to reach 60° .

VI. WEST MIDLAND COUNTIES.—*Hoar Cross*. Remarkably summer-like. At the close trees were still in full leaf owing to the high temp. and sunshine. Primroses, poppies, sweet peas and other flowers were in full bloom, making this month one of the most remarkable in the 27 years' record.—*Mayfield House [Ashbourne]*. Duration of sunshine 81·3 hours. Mean temp. $51^{\circ}0$.

VII. NORTH MIDLAND COUNTIES.—*Louth*. R 2·21 in. below the average of 37 years.—*Hodsock Priory*. Dry and warm, with high bar. The max. temp. on each of the first four days, and the mean temp. of the month, were all higher than in any of the previous 32 years.—*Buxton*. R 4·27 in. below the average of 35 years. Duration of sunshine 94·9 hours, or 19·4 hours above the average. Mean temp. $51^{\circ}1$, or $5^{\circ}9$ above the average.

VIII. NORTH WESTERN COUNTIES.—*Bolton*. Duration of sunshine 62·8 hours, or 6·3 hours above the average of 22 years. Mean temp. $56^{\circ}1$, or $8^{\circ}7$ above the average.—*Chatburn*. R 2·89 in. below the average of 19 years.—*Blackpool*. Bright, mild and pleasant, with mean temp. $53^{\circ}7$, or $4^{\circ}7$ above the average. R 1·48 in. below the average of 35 years, and duration of sunshine 120·4 hours, or 28·4 hours above the average.—*St. Michaels-on-Wyre*. The fine October

was the feature of the year. There had been less R in previous Octobers, but never so few wet days. It was also the warmest in the record dating from 1876.

IX. YORKSHIRE.—*Huddersfield*. R 2·19 in. below the average, and the lowest except in 1904, during 20 years. The mean temp. was 6°·0 above the average.

XI. WALES.—*Bettws-y-Coed*. Duration of sunshine 121·6 hours.

SCOTLAND.

XII. SOUTHERN COUNTIES.—*Jardington* [*Dumfries*]. The first few days were more like July than October, being very warm, and the month was mild throughout. The fields were covered with a rich green, and pasture was abundant. The bar. was never below 30 in., except on 9th.

XV. WEST MIDLAND COUNTIES.—*Buchlyvie*. R 3·27 in. below the average of 19 years.

XVI. EAST MIDLAND COUNTIES.—*Coupar Angus*. The mean temp., 52°·1, was the highest registered in October since 1881.

XVIII. NORTH WESTERN COUNTIES.—*Glenelg*. The finest October in living memory. Mild almost throughout, with an unusual amount of sunshine.—*Drumnadrochit*. R 2·97 in., and rain days 9, below the average of 22 years. Temp. was high, and the weather delightful, except from 24th to 26th. At the close trees were in full foliage.

IRELAND.

XXI. LEINSTER.—*Rathmines*. Unprecedentedly high temp. The mean was 52°·2, and temp. exceeded 60°·0 on 16 days, and exceeded 70°·0 on 2 days. The R was much below the average, and gales were conspicuous by their absence.

XXIII. ULSTER.—*Banbridge*, *Milltown*. R ·30 in. below the average of 45 years.—*Killybegs*. R 3·95 in. below the average of 21 years.

NOVEMBER.*

ENGLAND.

I. LONDON.—*St. Pancras*, *Camden Square*. The R was the lowest for November in 51 years, with three exceptions, viz., 1858, 1871 and 1901. Duration of sunshine 48·2 hours, and of R 19·4 hours.

* See also *Mct. Mag.*, December, 1908, pp. 205, 206, 223.

Mean temp. $46^{\circ}8$, or $3^{\circ}8$ above the average. Shade max. $58^{\circ}5$ on 12th; min. $23^{\circ}1$ on 10th. R 1.61 in., or 70 per cent., below the average of 50 years.

II. SOUTH EASTERN COUNTIES.—*Epsom*. Fine and sunny, with a marked absence of R and very open conditions, excepting for a frosty period from 8th to 10th. Fog was prevalent at the beginning, and again towards the close. Mean temp. $45^{\circ}3$.—*Wallington*. Duration of sunshine 84.9 hours (Jordan), the greatest recorded in November since 1894. Mean temp. $46^{\circ}4$.—*East Grinstead*. R 2.13 in. below the average of 18 years.—*Hartley Wintney*. Almost unprecedented for high temp., small R, abundance of sunshine and absence of fog.

III. SOUTH MIDLAND COUNTIES.—*Goring*. Beautiful autumnal weather, and almost continuous high temp. At the close currant bushes were full of buds, and birds sang at sunrise and sundown as in spring.—*Amphill, Higham Bury*. R 1.30 in. below the average of 17 years.

IV. EASTERN COUNTIES.—*Copdock*. Dry, with steady bar. and little wind, except from 22nd to 24th. There was but little fog. Duration of sunshine 71.4 hours. Mean temp. $44^{\circ}9$.

V. SOUTH WESTERN COUNTIES.—*Weymouth*. Duration of sunshine 103.8 hours. Mean temp. $49^{\circ}8$.

VI. WEST MIDLAND COUNTIES.—*Mayfield House [Ashbourne]*. Duration of sunshine 56.2 hours. Mean temp. $42^{\circ}9$.

VII. NORTH MIDLAND COUNTIES.—*Louth*. R 1.35 in. below the average of 36 years.—*Buxton*. R .71 in. below the average of 35 years. Duration of sunshine 55.2 hours. Mean temp. $42^{\circ}3$.

VIII. NORTH WESTERN COUNTIES.—*Bolton*. R .21 in. below the average of 20 years. Duration of sunshine 19.6 hours. Mean temp. $44^{\circ}0$.—*Chatburn*. R .23 in. above the average of 19 years.—*Blackpool*. R .43 in. below the average of 35 years. Duration of sunshine 57.4 hours, or 10.4 hours above the average. Mean temp. $45^{\circ}4$.

SCOTLAND.

XV. WEST MIDLAND COUNTIES.—*Buchlyvie*. R .37 in. below the average of 19 years.

XVI. EAST MIDLAND COUNTIES.—*Coupar Angus*. R .89 in. below the average. Mean temp. $41^{\circ}8$.

XVIII. NORTH WESTERN COUNTIES.—*Drumnadrochit*. R .26 in. above the average of 22 years, and rain days normal.

IRELAND.

XXI. LEINSTER.—*Ballybrack*. R 1·56 in. below the average of 30 years.

DECEMBER.*

ENGLAND.

I. LONDON.—*St. Pancras, Camden Square*. Dull, sunless and mild weather prevailed until 27th, then cold with S. Duration of sunshine 14·0 hours, and of R 64·6 hours. Mean temp. 40°·5, or 1°·3 above the average. Shade max. 52°·9 on 13th ; min. 14°·4 on 30th. The shade max. on 29th was 23°·7, the lowest in December during 51 years. R ·22 in., or 10 per cent., below the average of 50 years.

II. SOUTH EASTERN COUNTIES.—*Hailsham*. A month of heavy R and unseasonably mild weather until the last week, when frigid winds led up to severe frost and a great fall of S.—*East Grinstead*. R 1·26 in. above the average of 18 years.

III. SOUTH MIDLAND COUNTIES.—*Hitchin*. The S and cold at the end of the month were almost unique. Roses which had grown freely during autumn were much injured.—*Goring*. A gloomy month, with fogs, R and scarcely any sunshine. The temp. was often high, and growth therefore precocious.—*Amphill, Higham Bury*. R ·57 in. below the average of 17 years.

IV. EASTERN COUNTIES.—*Copdock*. Dull, still, sunless and mild till 26th, then a brief spell of intense cold. Duration of sunshine 15·8 hours. Mean temp. 37°·9.

V. SOUTH WESTERN COUNTIES.—*Weymouth*. Duration of sunshine 51·1 hours. Mean temp. 45°·1.—*Tavistock, Whitchurch*. The daily mean temp. varied from 49°·4 on 21st to 29°·6 on 28th.—*Edington*. Fine till 4th, and the next three weeks were very unsettled with strong winds and squalls of R. On 23rd the weather changed, the wind shifting to E., and became very cold. On 27th S fell for some hours, and on 29th a heavy fall commenced, with a strong E.S.E. wind, and continued till noon, the fall lasting about 12 hours.

VII. NORTH MIDLAND COUNTIES.—*Louth*. R ·86 in. below the average of 37 years.—*Buxton*. R 1·79 in. below the average of 35 years. Duration of sunshine 21·0 hours. Mean temp. 33°·0.

* See also *Met. Mag.*, January, 1909, pp. 232, 251 ; February, 1909, p. 10 ; and *Quarterly Journal R. Met. Soc.*, Vol. 35, p. 81.

VIII. NORTH WESTERN COUNTIES.—*Chatburn*. R 1·09 in. below the average of 19 years.—*Blackpool*. In the first week fogs were unusually prevalent, and severe wintry weather was experienced in the last week. R ·52 in. below the average of 35 years. Duration of sunshine 29·8 hours. Mean temp. 39°·9.

SCOTLAND.

XVII. NORTH EASTERN COUNTIES.—*Monymusk*. Unusually mild until 26th, when wintry conditions set in. The heavy S which fell was blown by the high wind into the roads and over the railway, which was blocked for 2½ days.

XVIII. NORTH WESTERN COUNTIES.—*Drumnadrochit*. R ·26 in. below, and rain days 1 above, the average of 22 years.

IRELAND.

XXI. LEINSTER.—*Ardgillan*. R ·80 in. above the average of 16 years.

XXIII. ULSTER.—*Banbridge, Milltown*. R ·26 in. below the average of 45 years.—*Tamney Rectory*. Extremely mild and humid, with an almost total absence of frost or severe weather, leading to extraordinary precocity of vegetation. R was frequent, but not excessive. Mean temp. 41°·5.

OBSERVERS' NOTES ON THE YEAR 1908.

[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 necessarily comparable with the average at any other station.]

ENGLAND AND WALES.

DIVISION I.—LONDON.

FULHAM, EDITH ROAD, WEST KENSINGTON.—A fine, warm and pleasant year, with no great extremes of temp. except during the last three days, which were unusually cold. R 1·57 in. below the average. There were two absolute droughts, three partial droughts and one rain spell.—*G. Searle.*

ST. PANCRAS, CAMDEN SQUARE.—The most striking feature of the rainfall of the year was its unusually equable distribution. In comparison with the average of 50 years, one month only, November, showed a divergence exceeding 50 per cent. Four of the remaining months had a fall within a quarter of an inch of the normal amount. January and February had average falls, but slight excesses occurred during the spring, resulting in an aggregate surplus of 1·50 in. at the end of May. This was reduced by a dry June to ·46 in., but heavy R in the first half of July and the latter part of August, brought the fall of both these months above the average and increased the excess since January 1st to 2·09 in. The autumn months were dry, November especially so, and the aggregate excess was converted into a deficiency of 1·40 in. by the end of December. During the year, dry periods of some intensity lasted from January 9th to 25th, extending with a short break until February 14th; from May 16th to 28th; from June 17th to July 2nd, and from July 18th to August 9th. The two last mentioned periods included absolute droughts from June 18th to July 2nd, and from July 19th to August 4th. A partial drought lasted from September 4th to October 8th, ·31 in. of R falling in 35 days. The wet periods were of a less important character, the only "rain spell" lasting from August 29th to September 4th, 16 days with 3·58 in. of R. The daily fall only once reached one inch, 1·38 in. on January 7th. The number of rain days

recorded kept close to the normal, the total for the year being 157, or 4 below the average. The duration of rainfall for the year was 500·7 hours, or 88·3 hours above the average of 23 years; the chief excesses in duration occurred in March and April. November alone had less than 20 hours duration. The mean temp. in the early months of the year was fairly uniform, but April proved cold, owing mainly to the severe frosts and S storms of the last week. May was sunny and warm, and the summer months generally were normal, but warm weather was prolonged much later than usual in the autumn, the mean temp. of October and November exceeding the average by 4°·0. The mean temp. for the whole year was 50°·5, or 0°·7 above the average. No extremely high max. temp. readings occurred, the highest being 87°·3 on July 3rd, but the max. temp. of 79°·0, on October 2nd, was the highest in that month since 1859. The shade temp. reached, or passed, 80° on 14 days. Frost occurred in the screen on 44 days, and on the grass on 106. The latest frosts of the spring were, in the screen on April 26th, and on the grass on April 27th, and the earliest of the autumn, in the screen on November 10th, and on the grass on October 25th. The absence of frost during October, and its comparative absence during November, formed one of the most notable features of the year. The total duration of sunshine was 1355·9 hours; there were 80 sunless days. Only in June, with 240·0 hours, did the sun shine for more than 200 hours in any month. Once in January, and once in December there was a week without recorded sunshine.—*Hugh Robert Mill, F.R.Met.Soc.*

DIVISION II.—SOUTH EASTERN COUNTIES.

SURREY.

HASLEMERE, HAZELHURST.—The R of March, April, May and August aggregated 6·75 in. above the average, but in February, June, October and November the deficiency amounted to 6·65 in. The total for the year was 1·28 in. below the average.—*T. P. Newman, F.R.Met.Soc.*

LYDEN CROFT [EDENBRIDGE].—The year was characterised by rather frequent dry periods up to the end of November, and the expectation of total deficiency of R was justified. The December precipitation of 3·79 in., however, served to raise the total to ·53 in. above the average of 18 years.—*C. Planck.*

EPSOM, ASHLEY ROAD.—Three events of marked distinction were the late and heavy S storms prevailing from April 23rd to 26th, the severe series of TSS during the first week in June, and the prolongation of midsummer heat into late September and early October, with max. temp. exceeding 80°. There was a noteworthy absence of wind during the autumn months. No well defined period of severe frost occurred, but the closing days of December were marked by very low temp. During the year there were 71 frosts in the screen and 142 on the grass. The mean temp. was 49°·7.—*Spencer C. Russell, F.R. Met. Soc.*

WALLINGTON, COTSWOLD.—R ·55 in., and number of rain days 10, above the average of 20 years.—*F. Campbell Bayard, F.R. Met Soc.*

KENT.

TENTERDEN.—The R was 4 inches below the average of 40 years, the greatest deficiency being in September, October and November. A partial drought occurred from January 9th to February 14th, 37 days, with ·28 in. of R. Absolute droughts occurred from June 17th to July 1st, and from July 20th to August 3rd. The only day on which the temp. exceeded 80° was June 4th, with 85°·0. The total duration of sunshine was 1821 hours (Jordan).—*J. Ellis Mace.*

HYTHE, HILLHURST FARM.—R 2·65 in. below the average of 24 years.—*G. F. Deedes.*

RECVLVER.—The dry January and early February enabled land work to be got on with in good form. A fair spring season followed but later the weather seemed to have a damaging effect on the crops as they matured. The cold and R in July retarded cereals, and the R of August and early September was damaging to harvest work.—*Allington Collard.*

MARGATE, CLIFTONVILLE.—R 1·18 in. below the average of 28 years.—*John Stokes, F.R. Met. Soc.*

SUSSEX.

CHICHESTER, WESTGATE.—R 3·38 in. below the average of 65 years.—*G. Ashley Tyacke.*

FUNTINGTON.—The principal features were a late spring, two hot spells in June-July and July-August, and a wonderfully warm autumn. The artesian well never ceased to overflow; it generally does so in September or October.—*J. A. Greenwood.*

STONEHURST, FIVE ASHES.—The spring was cold and late, but the autumn was mild and prolonged. The R was deficient, and the largest monthly amounts were in July and August, at a bad time for agriculture.—*Emily Aston, F.R.Met.Soc.*

HAMPSHIRE.

SHANKLIN. — Remarkable for low R, which was a matter of great concern to those responsible for the public water supply.—*E. C. Cooper.*

TOTLAND BAY, ASTON HOUSE.—R 5·84 in. below the average of 22 years, the year being the driest in the record.—*John Dover, F.R.Met.Soc.*

BOURNEMOUTH, KEMPSEY.—A dry year. January, February, June, October and November, did not receive half their average of R, and May also had a deficiency, whereas of the six months with an excess, only March received 50 per cent. more than its due, and the aggregate monthly values were always under the average.—*E. L. M. Colville.*

STOCKBRIDGE, ASHLEY.—The intermittent King's Somborne stream began to flow about the middle of January. It rose rapidly to an apparently constant flow, which continued to about July 22nd, when the flow lessened. On August 1st the upper springs were practically dry, and by the 26th all flow had ceased. The stream continued dry to the end of the year.—*Legh S. Powell.*

HARTLEY WINTNEY.—A beautiful year. The first three months were very dry, R falling only on 43 days. April appeared to be the most erratic month, with TSS on the first three days, succeeded by S showers from the 19th to 25th, when the noteworthy S storm of the 25th occurred. The exceedingly bright nights of June 30th and July 1st were followed by a summer prolonged throughout the months of August, September, October and November.—*W. G. Machin, F.R.Met.Soc.*

BERKSHIRE.

MAIDENHEAD, THE FIRS, CASTLE HILL.—The early part of the year was damp, with fog, frost, S and R. April was cold, and the trees in full blossom were covered with S. July was damp and warm, with very bright sunsets, and September was cold and windy, with T and R. Leaves remained on the trees, and dahlias were

in flower, until November 10th, when there was 10° of frost. December was damp and mild till 27th, when heavy S set in, with keen frost.—*J. W. Duncan, F.R.Met.Soc.*

DIVISION III.—SOUTH MIDLAND COUNTIES.

MIDDLESEX.

PONDERS END, BYLOCK HALL.—The winter was cool but not severely cold. There was a spell of cold, with S, in late April, but a complete change on 29th to warm weather, and vegetation responded in a manner suggestive of a Canadian or Siberian spring. May was persistently warm, and June was a magnificent sunny month. It was very wet from August 20th to September 4th, but the autumn was fine, warm and dry, with much sunshine, especially in October.—*Harold E. Freir.*

HERTFORDSHIRE.

WATFORD, WEETWOOD.—The R was about .50 in. above the average, and was distributed fairly equally over the four quarters of the year, except that the third quarter had rather more than its share, and the fourth quarter rather less. There were absolute droughts from June 18th to July 2nd, and from July 21st to August 4th, inclusive.—*J. Hopkinson, F.R.Met.Soc.*

BUCKINGHAMSHIRE.

WINSLOW.—Cheerless weather prevailed to the end of March, with frequent fogs and moderate R. The lambing season was bad in consequence, and the death-rate among lambs was high. The S storm of April was followed by several temperate months, and an average hay crop was well secured. A showery September and a mild, dry October, produced abundant autumn grass. The latter months were dull and humid, with frequent fogs and scanty R.—*R. A. Easton.*

OXFORDSHIRE.

ABINGDON, CULHAM VICARAGE.—The R was below the average, mainly owing to the small amounts in the last three months. The water supply was getting very low, causing the possibility of a serious deficiency in the summer of 1909.—*F. C. Clutterbuck.*

BANBURY, BODICOTE.—Rather an extraordinary year as regards R, for up to the end of August it was 2 inches above the average of 15

years, but at the close of the year the R was 1·29 in. below the average.—*J. F. Starkey.*

NORTHAMPTONSHIRE.

WELLINGBOROUGH, CROYLAND ABBEY.—R ·62 in. below the average of 40 years.—*E. Sharman.*

DIVISION IV.—EASTERN COUNTIES.

ESSEX.

COLCHESTER, HILL HOUSE, LEXDEN.—A cold spring, culminating in the great S storm of April 23rd, was followed by beautiful weather in May and June. July and August were cool, but the autumn was remarkably mild and late. The heat of the first week of October was unprecedented.—*S. F. Hurnard.*

SAFFRON WALDEN.—R 3·41 in. below the average of 34 years.—*S. Leverett.*

SUFFOLK.

IPSWICH, ROOKWOOD, COPDOCK.—The most remarkable features were the great S storm of April 23rd, the wonderful heat of early October, and the equally uncommon cold of December 29th and 30th. The mean temp. 49°·1 was exactly the average. The total duration of sunshine was 1585 hours, a little below the average.—*F. L. Bland.*

DIVISION V.—SOUTH WESTERN COUNTIES.

WILTSHIRE.

MAIDEN BRADLEY.—R 2·40 in., and rain days 12, below the average of 21 years.—*A. W. Hartopp.*

SALISBURY PLAIN, SHREWTON.—The summer was remarkable for two rather long partial droughts, each including an absolute drought, and separated only by a brief spell of not very heavy R, yet the crops can scarcely be said to have suffered from drought, save that roots were rather backward.—*F. J. Wardale.*

BRADFORD, THE CHANTRY.—The summer was delightful, being dry and sunny, but never sultry. The hay crop was better than might have been expected. Fruit crops suffered from the late frosts and cold winds, but pears did very well, and quinces, peaches and apples did fairly.—*J. Beddoe.*

DORSETSHIRE.

BEAMINSTER VICARAGE.—R 7·64 in. below the average of 36 years.—*A. A. Leonard.*

WIMBORNE ST. GILES, ST. GILES HOUSE.—Mean. temp. 49·8. Total duration of sunshine 1903 hours.—*W. E. Axford.*

DEVONSHIRE.

ASHBURTON, DOLBEAR.—The winter months were dry on the whole, though in March R was excessive. April was cold, with S from 23rd to 25th. There were long droughts in the summer, but R, when it did fall, was heavy. The autumn was dry and very mild.—*W. W. Battiscombe.*

TAVISTOCK, STATSFORD, WHITCHURCH.—A dry year as to R and rain days, but with damp and rather warm air. The only rain spells were 19 days ending December 22nd, with 4·55 in., and 16 days ending September 3rd, with 5·83 in. The max. temp. rose to 70°, or above, on 38 days; frost was recorded in the screen on 31 days, and on the grass on 98 days. Mean temp. 49°·5.—*Edwin E. Glyde, F.R.Met.Soc.*

POLAPIT TAMAR, [LAUNCESTON].—R 6·15 in. below the average. A partial drought occurred from 17th July to 18th August, 33 days, with ·23 in. of R. Rain spells, of 16 and 18 days duration respectively, occurred from August 19th to September 3rd, and from December 5th to 22nd.—*R. C. Coode.*

SIDMOUTH, SIDMOUNT.—R 2·41 in. below the average of 20 years.—*C. Radford.*

AXMINSTER, LEA COMBE HOUSE.—Agriculturally the year was fairly good. Cereals were short in the straw owing to their rapid ripening, but roots, thanks to the very mild and moist autumn, were a bountiful crop. Pastures were in full feed till Christmas, and the hay crop was one of the best in quality and the cheapest secured for many years. Fruit was only moderate, apples being much damaged by the September gales.—*A. C. F. Luttrell.*

TIVERTON, BROOMHILL.—R 5·96 in. below the average of 29 years.—*Wm. T. Bayne.*

PETROCKSTOW, HEANTON SATCHVILLE.—R 4·66 in. below the average of 18 years.—*A. Eames.*

CORNWALL.

REDRUTH, TREVINCE.—R 4·06 in., and rain days 4, below the average of 21 years.—*E. B. Beauchamp.*

REDRUTH, TREWIRGIE.—R 15 per cent. below the average of 29 years. Rain spells occurred from February 9th to March 9th, 30 days, with 4·84 in. of R; from August 19th to September 4th, 17 days, with 5·74 in. ; and from November 30th to December 23rd, 24 days, with 4·00 in. Mean temp. 50°·5.—*Arthur Pearse Jenkin, F.R.Met.Soc.*

EMPACOMBE [DEVONPORT].—R 3·92 in. below the average of 19 years. The summer was the driest on record.—*J. Sandercock.*

CALLINGTON, MOUNT LODGE.—The R was about 8 in. below the average, but the number of rain days was only slightly below. A rain spell of 19 days occurred from December 3rd to 21st.—*G. Brown.*

SOMERSETSHIRE.

NORTH CADBURY RECTORY.—The driest year in the record, and the first year without a single “inch” fall. Absolute droughts of 20 and 32 days respectively occurred from June 17th to July 6th, and from July 18th to August 18th.—*H. A. Boys, F.R.Met.Soc.*

EDINGTON.—A moderately rainy period began at the end of February, and lasted till mid-May. During the greater part of this time the weather was very much disturbed and generally inclement, with marked low temp. An intensely dry period succeeded, and lasted till the latter part of August. During this time R was very deficient, two absolute droughts of 21 and 26 days, respectively, occurring in June-July and July-August. The weather was generally still and quiet, with bright sunshine and absence of electrical disturbance. The temp., with the exception of a few days, was moderate. A period of intense R and general disturbance followed, and lasted till the end of October, broken by a brilliant fortnight in the first part of that month. This gave way in November to moderate drought, which continued more or less to the end of the year. On the whole the year was a distinctly pleasant and fruitful one, and though not quite perfect in point of weather, it was a very striking contrast to its miserable predecessor.—*A. C. F. Luttrell.*

STON EASTON.—R 5·44 in. below the average of 40 years.—*H. E. Hippisley.*

EAST HARPTREE, HARPTREE COURT.—R about 6·75 in. below the average of 26 years, caused by the extreme dryness of June, October and November.—*W. W. Kettlewell.*

DIVISION VI.—WEST MIDLAND COUNTIES.

GLOUCESTERSHIRE.

CLIFTON, DURDHAM DOWN.—R 5·40 in. below the average of 21 years.—*M. H. Dix.*

CLIFTON, PEMBROKE ROAD.—R 7·76 in., or 22 per cent., below the average of 35 years, being deficient in every month except March, April and August. There was absolute drought for 18 days, ending on July 6th, and for 23 days, ending on August 9th. The year was remarkable for the sharp frost and heavy S near the end of April, for the fine dry summer, and the extremely mild autumn.—*R. F. Sturge, F.R.Met.Soc.*

FRAMPTON COTTERELL, PARK HOUSE.—A remarkably fine and dry year, the only months showing an excess of R being March, April and August. Absolute droughts were experienced from June 18th to July 3rd, and from July 18th to August 9th, inclusive, and partial droughts from June 2nd to July 7th, 36 days, with ·36 in. of R, and from July 17th to August 21st, 36 days, with ·15 in.—*H. H. Harding, F.R.Met.Soc.*

GLOUCESTER, BELGRAVE ROAD.—R 4·55 in., or 18·5 per cent., and rain days 2, below the average of 25 years.—*W. Piffe Brown.*

CIRENCESTER, DOLLARWARD HOUSE.—The first two months were dry and mild, but March and April were very cold, with remarkable S at the end of the latter. A very fine summer was followed by an extremely mild and dry autumn, with alternation of drought and rain periods which was prolonged till Christmas, when a sudden burst of extreme cold and heavy S ended the year. The R was 5 inches below the average.—*C. P. Hooker, F.R.Met.Soc.*

HEREFORDSHIRE.

MUCH DEWCHURCH, BRYNGWYN.—The year was remarkable for a mild winter and cold spring, the great cold during three days in the last week of April doing much damage to fruit. The summer was dry and somewhat warm until August 20th, and after a month of broken and rather cold weather there followed a beautiful warm and dry autumn.—*James Rankin, F.R.Met.Soc.*

WHITNEY-ON-WYE.—Spring seed sowing was late owing to the R, but much hay was got in well at the end of June and beginning of July. The weather was bad for the corn harvest, and much of the grain sprouted. There was a plentiful supply of apples and plenty of grass all the autumn.—*W. Burgess.*

PEMBRIDGE, DILWYN.—R 33 in. above the average of 20 years.—*T. Lambert Hall.*

WARWICKSHIRE.

HAMPTON-IN-ARDEN, HAMPTON MANOR.—The spring was late, but summer good, with plenty of sun; the autumn was mild and open; the winter rather severe. The season was good for fruit of all kinds, which ripened well.—*W. R. Cooper.*

DIVISION VII.—NORTH MIDLAND COUNTIES.

LEICESTERSHIRE.

WALTHAM-ON-THE-WOLDS.—R 4.68 in. below the average. There were 99 frosts in the screen and 165 on the grass.—*George Higgens.*

BELVOIR CASTLE.—R 4.02 in. below the average. Mean temp. $47^{\circ}7$, or $0^{\circ}3$ below the average. Duration of sunshine 1484.8 hours, or 27.2 hours below the average; 65 sunless days.—*W. H. Divers.*

LINCOLNSHIRE.

BUCKNALL.—A remarkable year for the great number of rain days and small amount of R. Crops suffered from the wet state of the seed ground in spring, but at the close of the year water was scarce and ditches and ponds were nearly dry.—*Joshua Bint.*

LOUTH, WESTGATE.—R 5.47 in. below the average of 37 years.—*F. Fawcett.*

NOTTINGHAMSHIRE.

PLUMTREE, NORMANTON-ON-THE-WOLDS.—R 3.20 in. below, and rain days 10 above, the average of 17 years.—*T. A. Hill.*

WORKSOP, HODSOCK PRIORY.—A warm year, though with little really hot weather, and rather dry throughout. May and October were unusually warm months, but on the other hand the latter part of April was cold, and there was a sharp spell of frost after Christmas. March was the only wet month, while October was particularly dry, and there were no heavy falls. Root and hay crops were good, and corn crops up to the average.—*H. Mellish, F.R.Met.Soc.*

DERBYSHIRE.

WIRKSWORTH, BRIDGE HOUSE.—The most remarkable features were the excessive cold and heavy S fall of the last week of April, followed by the burst into summer weather on 1st May, and the remarkable warmth from 29th September to 4th October.—*Thomas Gibbs.*

DIVISION VIII.—NORTH-WESTERN COUNTIES.

CHESHIRE.

CHESTER, CHRISTLETON HALL.—The winter was changeable, with sharp frosts. Spring commenced cold, and vegetation was quite 14 days late at the end of April. The latter half of May and June were much warmer. Summer began hot, but became showery and unsettled, and the corn harvest was prolonged. The autumn was changeable, but the weather was generally open to Christmas, when sharp frosts set in.—*John Weaver*.

LANCASHIRE.

GARSTON, GRASSENDALE PARK.—R 0·03 in. above the average of 28 years.—*E. C. Abraham*.

BLUNDELLSANDS, PARK CORNER.—R 1·24 in. above the average of 32 years. Generally speaking the R was evenly distributed over the twelve months.—*A. L. Reade*.

BROUGHTON-IN-FURNESS.—R 2·36 in. above, and rain days 2 below, the average of 10 years. On the whole the year may be looked upon as a fine one, the autumn months being especially so. After the disastrous cold and wetness of September, the temp. in October was abnormally high, that of the first three days being the highest on record. The year was almost without violent winds and TSS.—*C. P. Chambers, F.R.Met.Soc.*

DIVISION IX.—YORKSHIRE.

WEST RIDING.

SHEFFIELD, TYLECOTE, RANMOOR.—R 5·25 in. below the average of 25 years. The autumn was remarkably fine, and only half the average quantity of R fell during the last three months.—*James Dixon, F.R.Met.Soc.*

DONCASTER, WADWORTH HALL.—R 1·76 in. below the average of 19 years.—*J. C. Ross*.

WATH-UPON-DEARNE, CHAPEL STREET.—R 4 inches below the average. Mean temp. 2°·0 below the average. Duration of sunshine 1354 hours, or a little below the average; 85 sunless days. S fell on 26 days, and the latest and earliest frosts were respectively on April 27th and September 12th. There were 10 TSS and 2 gales.—*F. J. Burman*.

STAINBOROUGH, WENTWORTH CASTLE.—R 5·73 in. below the average of 30 years.—*William Fisher*.

BARNSLEY, CHURCH STREET.—R about 4 inches below, and rain days 5 above, the average of 40 years. The deficiency in October and November coincided with exceptional prevalence of scarlet and enteric fever.—*F. J. Sadler.*

MELTHAM, HAREWOOD LODGE.—The driest year since 1893, the R being 16 per cent. below, and rain days 2 per cent. above, the average. The year was remarkable for the small range of the monthly totals, for the driest October with one exception in 28 years, and for the driest fourth quarter since 1871. The temp. was slightly above the average, October being the warmest for many years. TSS were few and insignificant.—*C. L. Brook, F.R.Met.Soc.*

WAKEFIELD, WALTON HALL.—The least R in 33 years' record, except for 16·00 in. in 1905. Five of the months had less than an inch, and there were absolute droughts for 17 days in January, 15 days in June and 18 days in August, and partial drought for 33 days about August. The mean min. temp. was $41^{\circ}6$, the highest except in 1898 in 33 years, but the mean max., $54^{\circ}5$, had been exceeded 18 times.—*Edward Simpson.*

HORBURY, HIGHFIELDS.—Abnormally dry during the second half of the year. Ponds and ditches were all dry at Christmas, though the top soil kept moist nearly all the time. From July 5th to 19th R fell daily, and all hay remained in the fields. Shockingly bad harvest weather was also experienced during the whole of September.—*J. H. Green.*

WAKEFIELD, STANLEY GRANGE.—R 3·99 in. below the average of 19 years. Mean temp. $47^{\circ}5$, or $0^{\circ}2$ above the average. Duration of sunshine 1236 hours.—*H. Stanley Haworth, F.R.Met.Soc.*

HALIFAX, HALL INGS. SOUTH OWRAM.—The fifth dry year in succession. R 7·35 in. below the average of 18 years.—*G. E. Aspinall.*

NORTH RIDING.

LEYBURN, BOLTON HALL.—R 43 in. below the average of 32 years.—*F. Scrivener.*

INGLEBY MANOR.—The lowest R registered in 25 years. Hay was good and well got in, wheat poor, barley and oats fair, and roots above the average.—*De L'Isle.*

DIVISION X.—NORTHERN COUNTIES.

DURHAM.

SUNDERLAND, WEST HENDON HOUSE.—The R was 6·96 in. below

the arithmetical average, and 6·62 in. below the geometrical mean, for the 46 years, 1860-1905. This was the smallest annual amount in the record. In three other years only was the fall less than 20 inches, namely, 1884 with 19·12 in., 1893 with 19·58 in., and 1905 with 19·71 in. April was the wettest month, with 2·76 in., and June the driest, with ·76 in. October was also a dry month, the fall being ·99 in. S fell on 25 days, the greatest depth attained being 6½ inches on December 29th. The year was foggy, especially so in December.—*T. W. Backhouse, F.R.Met.Soc.*

CUMBERLAND.

MILLOM, LEYFIELD.—R 1·07 in. below, and number of rain days 5 above, the average of 18 years.—*Cedric Vaughan.*

SEASCALE, WHINTHWAITE.—R 1·21 in. above the average of 19 years.—*Robert Hellon.*

BRAMPTON, DENTON HOUSE.—R 3·46 in., and number of rain days 8, below the average of 22 years.—*B. Gardhouse.*

DIVISION XI.—MONMOUTH, WALES AND THE ISLANDS.

MONMOUTHSHIRE.

CHEPSTOW, PIERCEFIELD PARK.—R 5·55 in. below the average of 40 years.—*Henry Clay.*

LLANFRECHFA GRANGE.—The crops of apples and pears were good, but wall fruit was small for want of R. The hay harvest was good and the root crop good, but the grain harvest was injured by R.—*F. J. Mitchell, F.R.Met.Soc.*

GLAMORGANSHIRE.

COWBRIDGE, FONMON CASTLE.—R about 4 inches below the average of 24 years.—*O. H. Jones.*

CARMARTHENSHIRE.

CARMARTHEN, THE FRIARY.—The weather for the hay harvest was the best for many years, but much R in August did immense damage to standing and cut corn. It was a bad fruit year in these parts except for strawberries, but there was plenty of fodder until late in the year.—*L. M. Bowen-Jones.*

PEMBROKESHIRE.

ST. DAVIDS.—April proved very favourable for corn sowing, and heavy crops were obtained; but the quality of the grain was not

satisfactory. No drying winds were experienced during the harvest and corn was consequently not carried in good condition. Hay crops were, however, good and well saved, green crops were heavy and potatoes abundant and of excellent quality.—*D. J. Williams.*

BRECON.

CRICKHOWELL, GWERNVALE.—Marked deficiency of R in each quarter of the year except the third, when there was an excess of 4.47 in. The total deficiency for the year was 5.57 in.—*E. Pirie-Gordon, F.R.Met. Soc.*

FLINTSHIRE.

ST. ASAPH, ST. BEUNO'S COLLEGE.—The R was slightly above the average but the distribution was somewhat abnormal. Each of the first nine months, except January and August, had R above the average, whilst the last three months all had a deficiency. October, usually the wettest month, was one of the driest, with R about one-third of the average, whilst all previous temp. records for the month were exceeded on each of the first four days. Unusual mildness characterized the last three months, until the last week of December which was exceptionally severe.—*J. Rowland.*

CARNARVONSHIRE.

LLANDUDNO.—The R was evenly distributed during the year. The spring was late, but all crops were abundant and in this corner of North Wales the hay and corn harvests were gathered under very good conditions.—*William Little.*

ISLE OF MAN.

DOUGLAS, WOODVILLE.—A gloomy year with considerable deficiency of sunshine throughout. An extremely cold spring, and probably the coldest April on record. There was hardly any sunshine, save on 4 or 5 warm days at the end of June and in July. The weather completely broke up about mid-August, September being very wet, gloomy and cold. October was the redeeming month of the year being fine and dry, and the warmest on record. November also was unusually warm and the weather continued generally mild to December 23rd, when it became very cold and wintry to the end, with a blizzard of S and violent E.S.E. gales from 27th to 29th.—*Herbert Story.*

GUERNSEY.

ST. MARTINS, LES BLANCHES.—A remarkably dry year, the R being more than 9·50 in. below the average, and decidedly the least during 15 years. The fall was deficient throughout, March and September being the only months with totals above the average. Both October and November were dry, wonderfully sunny and very mild. In spite of the dryness, the rain days were only 5 below the average for the year. Absolute drought from July 18th to August 13th, inclusive, and partial droughts from May 16th to June 28th, 44 days, with ·43 in. of R, and from July 17th to August 20th, 35 days, with ·32 in.—*Basil T. Rowsell.*

ST. PETER PORT, ST. MARTIN'S ROAD.—Only one year, 1866 with 25·85 in. of R, had been drier in 66 years. The event of the year was the absolute drought lasting for 32 days in July and August.—*A. Collenette.*

SCOTLAND.**DIVISION XII.—SOUTHERN COUNTIES.****WIGTOWN.**

WHITHORN, CUTROACH.—A remarkable year for the equal distribution of R over the months, ten of them having, approximately, 3 inches each. October, usually the wettest month, had only 1·56 in., and December 5·21 in.—*J. G. Martin.*

DUMFRIES.

LOCHMABEN, ESTHWAITE.—The outstanding features of the year were the S and frost in the last week of April, the splendid summer and autumn that followed, marred only by the unusually heavy R of September, and the severe S storm in the last week of December.—*W. J. Halliday.*

ROXBURGH.

MELROSE, DISTRICT ASYLUM.—R 2·45 in. below, and rain days 4 above, the average of 26 years.—*A. C. Pattman.*

DIVISION XV.—WEST MIDLAND COUNTIES.**STIRLING.**

BUCHLYVIE, THE MANSE.—R 1·67 in. below, and number of rain days 7 above, the average of 19 years. The R of September was the largest, and of October the smallest of these months during 19 years.—*John A. Macdonald.*

DIVISION XVI.—EAST MIDLAND COUNTIES.

FIFE.

KILMANY, MOUNTQUHANIE HOUSE.—The spring was cold, but without much R, except in March. There was a heavy fall of S and severe frost in the latter part of April, but warm summerlike weather followed until September, when there was much R. The later months were mild and misty.—*David Dinwoodie*.

PERTH.

COUPAR ANGUS.—A remarkable feature was the large number of rain days, and the generally light falls. The high nocturnal temp., particularly in autumn, was also noteworthy.—*John Robertson*.

DIVISION XVII.—NORTH EASTERN COUNTIES.

KINCARDINE.

CRATHES, PINWOOD.—The summer was bright, warm and comparatively dry. Crops were good, and were got under cover in splendid condition.—*James Smith, F.R.Met.Soc.*

ABERDEEN.

BALMORAL CASTLE.—R 5·42 in. below the average. The summer months were very warm.—*John M. Troup*.

ALFORD, LYNTURK MANSE.—A fine summer, a very good harvest season, and fine open weather up to Christmas.—*James B. Duncan*.

NAIRN.

CAWDOR CASTLE.—The year was remarkable for long spells of drought, May, June and July being very dry ; also for the abnormally mild weather, especially in October, but continuing in a modified degree all through the winter.—*David Chapman*.

DIVISION XVIII.—NORTH WESTERN COUNTIES.

INVERNESS.

GLENELG MANSE.—There was great heat at the end of May, the end of June, the beginning of July and the beginning of October. September was unusually wet, but October and the first half of November were very dry. October was one of the finest in the memory of the oldest inhabitant. There was occasional frost during November and December, but little S.—*Alex. Mactaggart*.

LOCH NESS, DRUMNADROCHIT.—R 1·78 in. above, and rain days 4 below, the average of 22 years. From May to August only 7·22 in. fell, but the fall in September was 3·65 in. above the average and a record for that month.—*Angus Grant*.

ROSS AND CROMARTY.

BRAEMORE HOUSE.—The autumn was the finest remembered by the oldest inhabitant, and wonderfully mild from the middle of October to the end of November. Tea roses and many other flowers were in bloom in November and lilac putting out a few flowers. Potatoes were harvested without a day of R or frost, and turnips were all lifted by the end of the year although usually on the ground through January. There was no S till December.—*Alice Fowler*.

ALNESS, ARDROSS CASTLE.—The spring months were cold and frosty, with S in February, and it was wet till May. The summer was fine and warm, but September was excessively wet. October was abnormally fine and dry with high temp., and November and December were normal, with S in the last week of the year. Frost was common in the winter months, but was never severe.—*W. Laing Minty*.

DIVISION XIX.— NORTHERN COUNTIES.

CAITHNESS.

CASTLETOWN, THE CLETT.—A rather cold and wet spring was followed by a dry, warm and sunny summer. Autumn and the first part of winter were mild, September unusually wet, and October unusually dry. The harvest on the whole was good, but in many places, owing to the mild damp weather, it was late in being got in.—*John Calder*.

ORKNEY.

BALFOUR CASTLE.—The spring was marked as good till about April 22nd, when there was a week of S and keen frost. The summer was very sunless, with a marked absence of wind, but the autumn was one of the finest on record. The winter was mild and very wet, with severe S and gale from December 27th to 29th.—*W. Liddell*.

IRELAND.

DIVISION XX.—MUNSTER.

CORK.

MIDDLETON, BALLYNACURRA.—The R was rather below the average, but the distribution unfortunate. The wettest months were March and September. There was a deficiency of warmth and sunshine during the early months of the year, but much heat and drought in June and early July, and a hot dry period in August. The cereal harvest was, however, late. There was much fog in autumn, and December was mild and wet.—*J. H. Bennett.*

CORK, FERNHURST AVENUE.—R 5·61 in., and rain days 1, below the average. Absolute drought for 17 days, ending on June 15th. Mean temp. 48°·7, or 1°·3 below the average of 25 years. Frost on 44 days.—*William Miller.*

MALLOW, SUMMER HILL.—Twelve months of persistently deficient R. In three months only was there an excess, and the aggregate was always below the average, the total for the year being 5·52 in. short. Only 1896 and 1906 had less R during the last 19 years.—*J. F. Williamson.*

MITCHELSTOWN CASTLE.—A dry year, except at seed time, when March had 4·30 in. of R, and in harvest, when 10 inches fell in about 40 days from August 21st. The total for the year was 3·50 in. below the average. July was unusually dry, and the latter months of the year mild and open with little frost or S.—*W. D. Webber.*

KERRY.

DARRYNANE ABBEY.—A mild year, but with many rain days. R 97 per cent. of the average.—*D. O'Connell.*

TIPPERARY.

NENAGH, CASTLE LOUGH.—R 2·82 in., and rain days 6, below the average of 30 years.—*S. G. J. Parker-Hutchinson.*

NENAGH, HIGHLANDS.—Spells of dry weather at the end of June and beginning of July, and at the end of July and beginning of August, helped to save the hay and pushed on the corn crops. September had heavy R, which was against harvesting, but corn was secured in fair order. The autumn was one of the finest remembered, with very slight frosts, and grass springing up like summer.—*John Mounsey.*

DIVISION XXI.—LEINSTER.

DUBLIN.

BALLYBRACK, STREAMVILLE.—R 3·55 in. below the average of 30 years.—*F. B. Falkiner.*

KILLINEY, CLONEEVIN.—R 2·01 in. below, and rain days 10 above, the average of 23 years.—*R. O'B. Furlong.*

RATHMINES, LEINSTER ROAD.—R about 3·50 in. below the average. The S storms and frosts of the latter end of April were unprecedented. The summer was finer and drier than the “alleged summer” of 1907, but it did not deserve the encomiums passed on it by the Dublin press. The weather broke on the 20th August, and from that date to the end of September miserable weather was “enjoyed.” Max. temp. above 70° was recorded in October. November and December were mild, damp and very muggy.—*E. H. Cannon.*

DIVISION XXIII.—ULSTER.

MONAGHAN.

MONAGHAN, ROWANTREE HOUSE.—The first part of February was mild, but the latter part and all March were rainy and wild. April was a bad spring month, but May and June were very good. July and August were changeable, but September was the worst month in the year. The last three months of the year were mild, except for the last week of December.—*J. C. Hall.*

ANTRIM.

BELFAST, SPRINGFIELD.—The wettest year since 1903, and as in 1897 the R of each month exceeded 2 in. The finest portion of the year was from May to August.—*Thomas G. Firth.*

DONEGAL.

FANAD, TAMNEY RECTORY.—The spring was the only season that could be called actually bad. March and April proved a bad seed time, but the summer was generally bright, and the autumn beautiful. The extraordinary floods in September rendered it a bad month for harvesting operations, but the magnificent October saved the situation, and crops proved fair generally.—*A. C. Digby French.*

LOUGH SWILLY, CARRABLAGH.—R 9·61 in. above the average of 20 years.—*A. C. Digby French.*

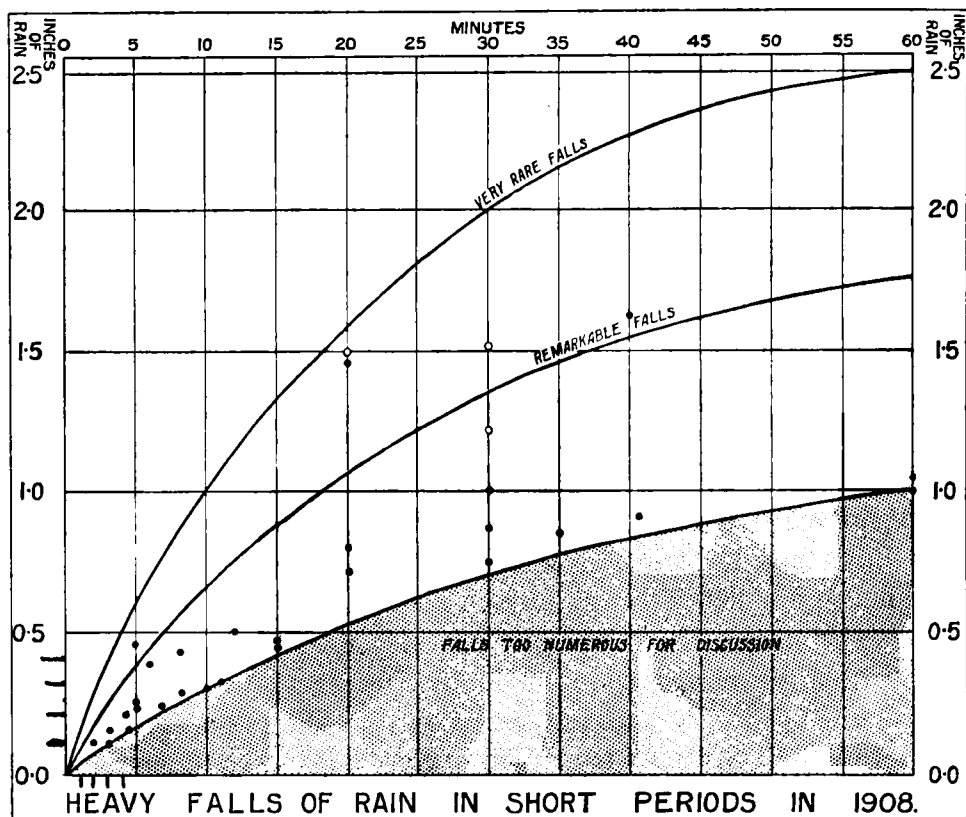
HEAVY RAINS IN SHORT PERIODS.

FROM many points of view the intensity of rainfall of short duration appears one of the most interesting of the phenomena with which we have to deal, and we wish that we could deal with it in a more thorough and systematic way than has been possible hitherto. In order to do so we must have more numerous and more exact measurements of the fall of rain in short intervals of time, and these involve the use of a special form of rain gauge. The old-fashioned storm-gauges, in which the fall could be followed from minute to minute by observing the rise of a float or the movement of a hand on a dial, have almost fallen out of use; the modern recording gauges rarely give a trace on a sufficiently open scale to enable fractions of an hour to be estimated, the usual drum revolving once in seven days being useless for this purpose. Some Observers who possess good recording gauges, with a drum revolving once in 24 hours giving a good time-scale, have not the time necessary to work up the traces and in consequence our list of heavy falls in short periods is more imperfect and less systematic than it ought to be. Most of the observations we are able to record were made by Observers who timed heavy showers and read their rain gauges as soon as the rain ceased to fall; but there is no guarantee that the heaviest falls were observed in all cases, or that the same proportion of the heavy falls occurring were measured in different years.

Making full allowance for all these elements of uncertainty the observations we are able to place on record have still a certain positive value as recording intensities which have occurred, and as they have been going on for many years they may be treated as of some value also for purposes of comparison.

We return to the old custom of showing the heaviest falls reported in the year in the form of a diagram, but restrict its scope to durations of one hour or less. In order to decide what intensities should be viewed as sufficiently important to include in the list, or to accentuate as of exceptional interest, all the values reported for periods of one hour or less since 1878 were plotted on a diagram, and the lines were drawn by taking account of the distribution of the dots so as to divide the diagram into four areas representing (1) by the shaded area, falls which are too numerous for detailed

discussion and, therefore, need not be put on record, (2) falls which are worthy of notice but are not uncommon, (3) those which are really remarkable, and (4) above the upper curve, falls of such remarkable intensity as occur very rarely. The limits of these



curves are slightly higher than those used in earlier volumes of *British Rainfall* so that the number of entries in the following Table has been somewhat reduced. The values can be readily ascertained from the diagram, but the points on the curves corresponding to each ten minutes are given in Table I.

In Table III. the remarkable falls for the year are distinguished by a cross, and the falls of very rare intensity by two crosses. The instances now considered worthy of two crosses are few in number, and we quote in Table II. all those which have been reported in *British Rainfall*, or known to occur, during the last 40 years for periods of one hour or less, giving the place and date of occurrence for each.

Although only 33 cases of such falls have been reported in 49 years there can be no doubt that showers of equal intensity are more

TABLE I.—*Limits of Remarkable Falls.*

Minutes.	WORTHY OF NOTICE.		REMARKABLE.		VERY RARE.	
	Amount.	Rate per hour.	Amount.	Rate per hour.	Amount.	Rate per hour.
	in.	in.	in.	in.	in.	in.
10.....	·30	1·80	·65	3·90	1·00	6·00
20.....	·53	1·59	1·06	3·18	1·58	4·74
30.....	·70	1·40	1·35	2·70	2·00	4·00
40.....	·82	1·23	1·54	2·31	2·26	3·39
50.....	·92	1·10	1·67	2·00	2·42	2·90
60.....	1·00	1·00	1·75	1·75	2·50	2·50

TABLE II.—*Rainfalls of very rare Intensity lasting for one hour or less.*

Year.	Date.	Div.	Station.	Amount.	Duration.		Rate per hour.
				in.	hr.	min.	in.
1888	Mar. 24	XI.	Chepstow, Shirenewton Hall..	·33	0	2	9·90
*1906	June 17	IX.	Ilkley, Eaton Road.. ..	·50	0	4	7·50
1893	Aug. 10	VIII.	Preston, Corporation Offices...	1·25?	0	5?	15·00?
„	June 14	XI.	Chepstow, Shirenewton Hall..	·62	0	5	7·44
1906	Aug. 2	II.	Guildford, Piccard's Rough ...	·89	0	8	6·68
1892	July 3	VIII.	Bolton, The Park	1·00?	0	9?	6·67?
1902	May 30	III.	Cambridge, Sydney Street....	1·10	0	10	6·60
1878	June 23	I.	St. Pancras, Camden Square..	1·00	0	10	6·00
1906	Aug. 2	II.	Haslemere, Lower Street.....	1·46	0	15?	5·84?
1878	June 23	I.	St. Pancras, Camden Square...	1·43	0	15	5·72
1875	Aug. 7	II.	Canterbury, Harbledown	2·12	0	20	6·36
1878	June 23	I.	St. Pancras, Camden Square...	1·80	0	20	5·40
1897	„ 24	III.	Luton Pumping Station.....	1·65	0	20	4·95
1878	„ 23	I.	St. Pancras, Camden Square...	2·30	0	28	4·93
1880	July 22	XI.	Cowbridge, Ash Hall.....	2·90	0	30	5·80
1895	June 27	IX.	Middleton-in-the-Wolds	2·00	0	30	4·00
1902	Sep. 10	II.	Surbiton, Vronvelin.....	2·00	0	30	4·00
1904	July 27	„	Cooling, Broomy Farm.....	2·66	0	45	3·55
1895	June 26	V.	Marlborough	2·71	0	50	3·25
1903	July 18	VI.	Betley Hall [Crewe]	2·53	0	50	3·04
1905	„ 9	III.	Enfield, Carisbrooke	2·44	0	50	2·93
1901	„ 29	II.	Wadhurst, Lower Cousley Wood..	3·25?	0	55	3·55?
„	„ 12	„	Maidenhead, Lowood.....	3·63	1	0?	3·63?
1903	May 30	„	Beddington Corner	3·50	1	0	3·50
1897	July 21	IV.	Ipswich, Bishops Hill.....	2·95	1	0	2·95
1895	June 26	VI.	Worcester, Diglis Lock.....	2·75	1	0	2·75
1873	July 28	XVII.	Fettercairn	2·60	1	0	2·60
1889	June 7	II.	Tonbridge, Ferndale.....	2·60?	1	0?	2·60?
1886	July 25	VIII.	Sale, Brooklands.....	2·58	1	0	2·58
1899	„ 22	V.	Dorchester, Water Works....	2·56	1	0?	2·56?
1875	„ 22	„	Trowbridge, Sunnyside.....	2·53	1	0	2·53
„	June 29	III.	Cardington	2·50	1	0	2·50
1886	July 25	IX.	Wakefield, Stanley Vicarage..	2·50	1	0	2·50

* Did not appear in *British Rainfall*.

common than the numbers appear to imply, and we hope that renewed attention will be directed to this interesting aspect of rainfall work by observers whose time is at their own disposal. It is convenient to remember that the greatest fall recorded in one hour in any part of the British Isles is 3·63 in. ; the greatest fall in half an hour (or in three-quarters) is 2·90 in. ; the greatest in a quarter of an hour 1·46 in. ; the greatest in five minutes (or in ten minutes) 1·25 in. It is quite likely that heavier falls have taken place, but none heavier have been authenticated so far as we are aware.

The figures quoted in Table III. for 1908 are entered on the diagram in their appropriate places as a black dot when the data are definite, as a ring when some uncertainty attaches either to the time or the measurement of rain. It will be noticed that none of the falls of less than an hour's duration have the double cross denoting that they are very rare. It is right, however, to mention an instance reported in a newspaper, but not communicated to us by the Observer, which, if the observation had been authenticated, would not only have had the double cross as very rare, but would have been unprecedented. This was a fall of 3·42 in. in 45 minutes, said to have been observed at the Pantiles, Tunbridge Wells, during the great thunderstorm of June 4th.

All the falls in the list took place in the months from May to September when thunderstorms are common, with the exception of two, one of no great interest at Waltham-on-the-Wolds in February, and one on October 21st when the very rare, indeed unprecedented, fall of 6·50 in. occurred at Portland Breakwater in 5 hours. This amount was divided between two rainfall days, but the particulars are too definite not to receive full credence.* Although no other falls in the neighbourhood rivalled this in magnitude the splash centred about Portland, as may be seen from the map reproduced in the section on Heavy Falls on Rainfall Days, the whole precipitation of the two days having occurred in the one shower ; and the position is thus that at which the maximum intensity would be expected.

The very severe thunderstorm in Yorkshire on June 3rd, a map of which is given in the following section, produced two records of very heavy rain, at Burnsall and Embsay Moor ; and if records for shorter periods had been available there can be little doubt that they would have merited the double cross.

* See also *Met. Mag.* for November, 1908, p. 192.

TABLE III.—*Heavy Rains in Short Periods in 1908.*

Date.	Div.	Station.	Amount.	Duration.	Rate per hour.
			in.	hr. min.	in.
Aug. 28 ...	V.	Rousdon [Lyme Regis].....	·11	... 2	3·30
„ 22 ...	II.	Epsom, Ashley Road.....	·16	... 3	3·20
July 14 ...	„	Brasted, Combe Bank	·11	... 3	2·20
May 12 ...	IX.	Meltham, Harewood Lodge ...	·21	... 4½	2·96
Feb. 22 ...	VII.	Waltham-on-the-Wolds	·16	... 4½	2·13
Aug. 28 ...	III.	Raunds	·45	... 5	5·40 x
June 4 ...	II.	Brasted, Combe Bank	·25	... 5	3·00
July 8 ...	V.	Shepton Mallet	·25	... 5	3·00
Aug. 22 ...	II.	Ardingly	·23	... 5	2·76
June 30 ...	V.	Tavistock, Whitchurch.....	·23	... 5	2·76
Sept. 24 ...	II.	Epsom, Ashley Road.....	·38	... 6	3·80
May 3 ...	I.	St. Pancras, Camden Square..	·24	... 7	2·06
Aug. 22 ...	II.	Maidstone, Langley	·42	... 8	3·15
July 4 ...	I.	St. Pancras, Camden Square..	·29	... 8	2·18
June 4 ...	II.	Epsom, Ashley Road.....	·31	... 10	1·86
Aug. 28 ...	V.	Shrewton	·33	... 11	1·80
July 14 ...	XXI.	Summerhill House	·50	... 12	2·50
Sept. 15 ...	VI.	Burton, Rangemore	·47	... 15	1·88
June 4 ...	II.	Witley, The Mount	·44	... 15	1·76
Sept. 11 ...	„	Canterbury, Medical Hall ...	1·50	... 20?	4·50?x
June 2 ...	VI.	Martley.....	1·45	... 20	4·35 x
„ 4 ...	IV.	Leyton	·83	... 20	2·49
„ 1 ...	II.	Epsom, Ashley Road.....	·70	... 20	2·10
„ 30 ...	V.	Milton Abbot, Endsleigh	1·52	... 30?	3·04?x
„ „ ...	XX.	Nenagh, Kilboy	1·20	... 30?	2·40?
July 21 ...	XVII.	Tillypronie	1·00	... 30	2·00
Sept. 24 ...	II.	Hastings, Hollington.....	·87	... 30	1·74
July 14 ...	III.	Oving House	·75	... 30	1·50
„ 12 ...	XV.	Glenreadell Mains.....	·85	... 35	1·46
„ 4 ...	XX.	Dunmanway, The Rectory ...	1·63	... 40	2·45 x
June 4 ...	II.	Epsom, Ashley Road.....	·90	... 41	1·32
Sept. 22 ...	XIV.	Dalry, Blair.....	1·05	1 0	1·05
July 13 ...	IV.	Reepham	1·00	1 0	1·00
„ „ ...	II.	Milton, Wootton Hill	1·33	1 30?	·89? .
„ 5 ...	XI.	Nantglyn, Pant-y-maen	1·32	1 30?	·88? .
„ 14 ...	VIII.	Macclesfield	1·16	1 30	·77 .
June 3 ...	XI.	Newtown, Gregynog Hall.....	2·89	2 0	1·45 x .
Oct. 21 ...	V.	Portland, H.M. Breakwater ..	2·28	2 0	1·14 .
„ „ ...	„	Upwey, Portland W.W.	1·65	2 0	·83
June 3 ...	IX.	Embsay Moor	3·79	2 20?	1·60?x .
„ „ ...	„	Burnsall Rectory	3·70	2 30?	1·48?x .
Oct. 21 ...	V.	Weymouth, Massandra.....	3·40	3 0	1·13 x .
July 25 ...	X.	Wigton, Brookfield	1·75	3 0	·58
Sept. 23 ...	IV.	Norwich	1·50	3 0	·50
June 3 ...	XXIII.	Gweedore Hotel	1·41	3 0	·47
July 13 ...	II.	Herne Bay	2·65	3 30	·76
Oct. 21 ...	V.	Weymouth, Westham	4·00	4 0?	1·00?x
„ 19 ...	XI.	Porth.....	3·00	4 0	·75
„ 21 ...	V.	Portland, H.M. Breakwater ..	6·50	5 0	1·30xx
July 13 ...	IV.	Rendlesham Hall	2·49	6 0	·42

HEAVY FALLS ON RAINFALL DAYS IN 1908.

THE section dealing with heavy falls on rainfall days brings to light every year a number of interesting examples of heavy showers which are worthy of being mapped and studied in detail. It serves as a measure of the growth of accurate observations, as, unless a daily record has been kept carefully throughout the year, it is impossible to extract from it the rainfall of the wettest day. It also enables us to compare one year with another by means of the percentages which the rainfall of the wettest day bears to that of the whole year. Finally, it enables us to detect at a glance those stations where the rainfall is entered to the day of observation instead of to the previous day, and so helps us to correct the records and to make the monthly and annual totals at all stations strictly comparable. The data to be dealt with are all much more precise and systematic than those handled in the discussion of heavy rains in short periods; but here also there are certain limitations which must be kept in mind. We deal primarily with the wettest day of the year only at each station, and do not take account in the summary tables of other days which may be nearly equally wet; though if two days with exactly the same fall are wetter than any others both are included. The limits of the rainfall day are from 9 a.m. on the day given to 9 a.m. on the following day, hence the records of gauges which are read at hours other than 9 a.m. cannot be admitted to comparison. It may happen that a heavy fall of rain is in progress at 9 a.m., and the rainfall is thus divided between two days, neither of which receives enough to make it the wettest day of the year, although the shower as a whole might have brought down by far the heaviest fall in 24 consecutive hours. Thus, the rain of the wettest day may have fallen in one complete shower, or in several showers, or in a portion only of a shower which was in progress at the time of observation.

Some of these limitations are evaded in the cartographic studies of heavy falls, which have been made more complete and elaborate in every succeeding issue of *British Rainfall* since 1900. The effort is always made to map a complete shower, *i.e.*, the whole of the rain in a fall that continues without intermission; for instance, the snow-

storm of April 25th in Hampshire and the shower of the forenoon of October 21st near Weymouth, which were divided between two days because they were in progress at 9 a.m., are mapped in each case as one shower by taking the total rainfall of the two days. In cases of two or more violent thunderstorms occurring on the same day it is impossible to separate them, and the maps fail to present the simple splash due to a shower. But with the heavy and more uniform precipitation that accompanies the passage of a cyclonic depression across the country it is always possible, by grouping two or more days, to map the whole extent of the smear caused by the fall of the rain in the rainy portion of the storm track. While only the maximum falls (which may be conveniently designated as *M*) are used for the various summary Tables, they are supplemented by the rainfall for the same period at stations where it was not the wettest day, and in the construction of some of the maps more than a thousand separate stations have been utilized to throw light on the features suggested by a score of *M*. In this way the exact form of the areas affected by rain, and the precise way in which the rain varies within the wet area, can be ascertained and laid down on the maps. The addition of the track of the depression, taken from the map of depression tracks in the *Monthly Weather Report* of the Meteorological Office, forms a bridge between the specialized study of rain and the larger field of meteorology.

In 1908 the number of records available for the study of maximum falls was 3593, an increase of 128 over 1907, and 891 more than in 1900. We are glad to notice an improvement in the number of returns from Scotland, though it is barely sufficient to raise the percentage to the whole number by 1 as compared with last year. In 1908 there were for England and Wales, with 49 per cent. of the land surface of the British Isles, 83 per cent. of the records available for the discussion of maximum falls; for Scotland, with 24 per cent. of the area, there were 11 per cent. of the records, and for Ireland, with 27 per cent. of the area, only 6 per cent. of the records, the same as last year.

The total number of maximum falls is dealt with in various ways in the Abstract which forms Part II. of this section, and Part I. is devoted to a Chronicle of the more remarkable falls. For many years the limit adopted for a remarkable maximum fall has been 2·50 inches, or 7·5 per cent. of the total rainfall for the year at the place of observation. The former limit ensures that no very large maximum

fall escapes notice, the latter does justice to the falls of dry localities, which though smaller in total amount may be no less remarkable than a fall of 2·50 in. in a wet locality. The number of instances of maximum falls large enough to be quoted in the Chronicle was small in 1908, though greater than in the previous year. They numbered 173, and as many have often been quoted for a single day.

Part I.—Chronicle.

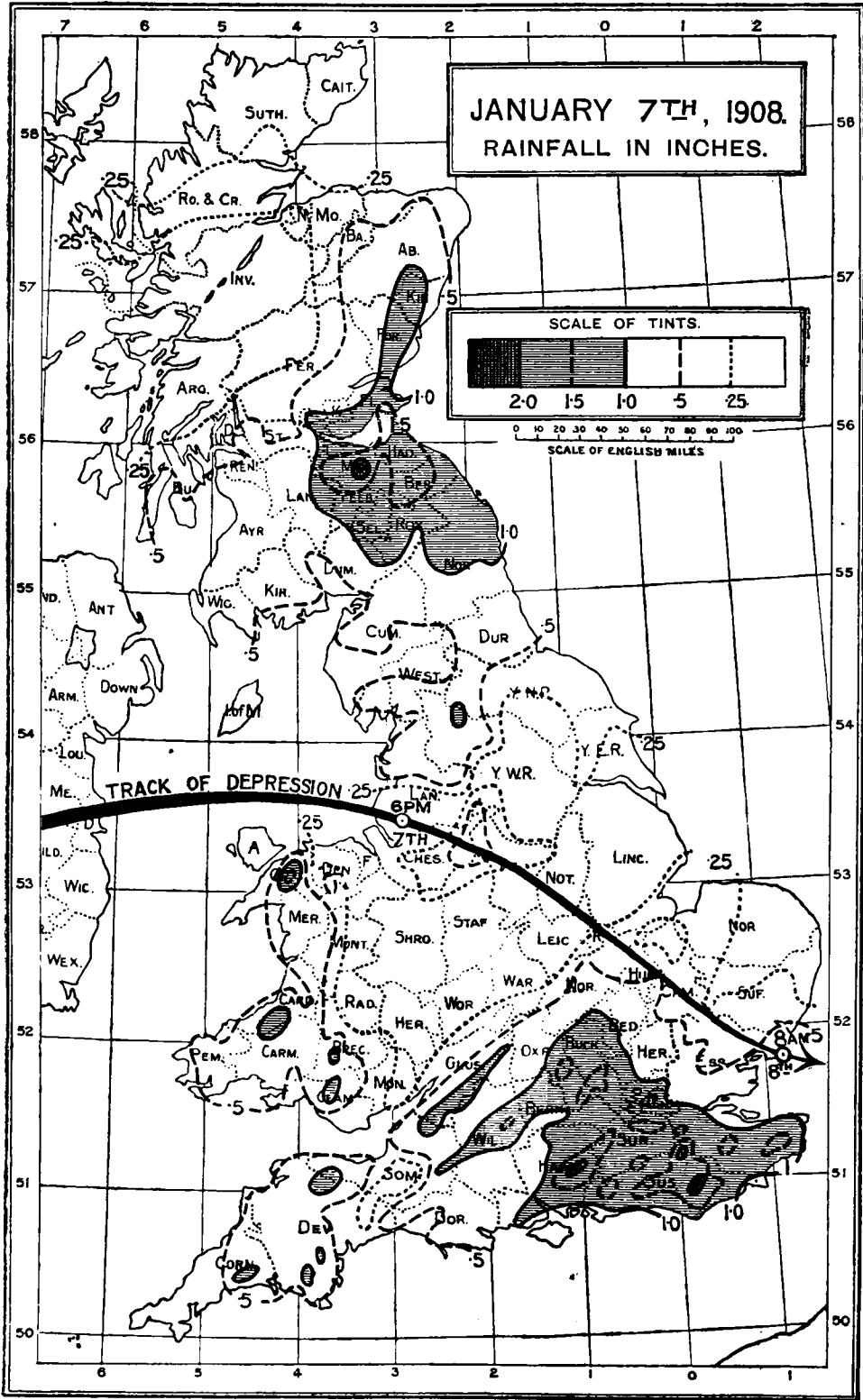
January 5th.

The first **M** of the year occurred at half a dozen stations on the west of Scotland, one of which was large enough to chronicle.

XV. Mull (Kinlochspelve) 2·66 in. or 2·8 per cent.

January 7th.

This was a day of widespread rain or snow, and no less than 500 **M** were recorded, mainly grouped in two large areas, one occupying the south of England, the other the south of Scotland. The actual amount of the falls was not very great, and only six were large enough to include in this Chronicle; but in London, at any rate, the amount was very unusual for the time of year, no such high fall having been measured at Camden Square during January in the previous 50 years. As the rain of this day presented some features of special interest a map was constructed, which shows that there was some rain over the whole of Great Britain, except a few places in the north and west of Scotland. Two prominent splashes of more than 1 inch appeared. The northern lay in the south-east of Scotland, included a considerable area with over 1·50 in., and culminated in 2·58 in. on the Pentland Hills. The southern splash showed a large area with more than an inch extending west by north from the coast of Kent to the Cotteswolds, and followed by a narrow tract lying a little further west. The splash was similar to that of a summer thunderstorm, in being divided into a series of parallel bands of alternate higher and lower rainfall running from south-west to north-east, several having more than 1·50 in., and two culminating in observations exceeding 2·00 in. The track of the depression accompanying this double downpour crossed from Ireland to Lancashire and turned south-eastward to the mouth of the Thames, running almost midway between the northern and the southern splashes, a decidedly unusual state of things.



In order to compare the extent of the splashes with those of other storms the following measurements were made :—

Northern Splash.

	Area, sq. miles.	General Rainfall, inches.	Volume of Rain, sq. miles x inches.
Over 2 inches... ..	36	2·20	79
1—2	4892	1·28	6261
Total over 1 inch	4928		6340

The general rainfall of the area over 1 inch was 1·29 in.

Southern Splash.

	Area, sq. miles.	General Rainfall, inches.	Volume of Rain, sq. miles x inches.
Over 2 inches.....	79	2·06	164
1—2 „	8003	1·32	10564
Total over 1 inch	8082		10728

The general area of the rainfall over 1 inch was 1·33 in.

Both Splashes.

	Area, sq. miles.	General Rainfall, inches.	Volume of Rain, sq. miles x inches.
Over 2 inches.....	115	2·11	243
1—2 „	12895	1·31	16825
Total over 1 inch	13010		17068

The general rainfall of the two areas with more than 1 inch taken together was 1·31 in.

II.	Tenterden (Summerhill)	1·94 in.	or 7·5 per cent.
„	Bentley (Marelands)	1·92 „	7·5 „
XIII.	Whittingehame Gardens ..	1·78 „	7·6 „
„	Pentland Hills (Glencorse Reservoir) ...	2·58 „	7·4 „
„	Dalkeith Gardens.....	1·45 „	7·6 „
„	Musselburgh (Levenhall)	1·91 „	9·7 „

January 15th.

An ordinary winter heavy rain giving M at about 20 stations in the Lake District, North Wales, the west of Scotland and south of Ireland. ~~Four of these were considerable falls, one of them almost the greatest of the year.~~ The fall on Snowdon at the Intake of the waterworks on Llyn Llydaw was 5·45 in., which is confirmed by the reading of 6·50 in. at the Copper Crushing Mills on Llyn Llydaw, half a mile distant. The latter would have been the M were it not for the extraordinary fall of 8·58 in. at that station on November 22nd.

X.	Dungeon Ghyll	3·22 in.	or 2·9 per cent.
XI.	Blaenau Festiniog (Oakley Quarries) ...	3·31 „	3·1 „
„	Snowdon (Llyn Llydaw Intake)	5·45 „	3·5 „
„	„ (Cwm Dyli)	2·72 „	2·7 „

March 27th.

M occurred at a considerable number of stations on each day from March 24th to 28th, mainly in the east of England and in Scotland. On the 27th there was one fall large enough to include.

XV. Ballachulish (Glencoe)..... 2·95 in. or 3·4 per cent.

March 28th.

Half a dozen **M** in the wettest part of Scotland yielded only two noteworthy amounts.

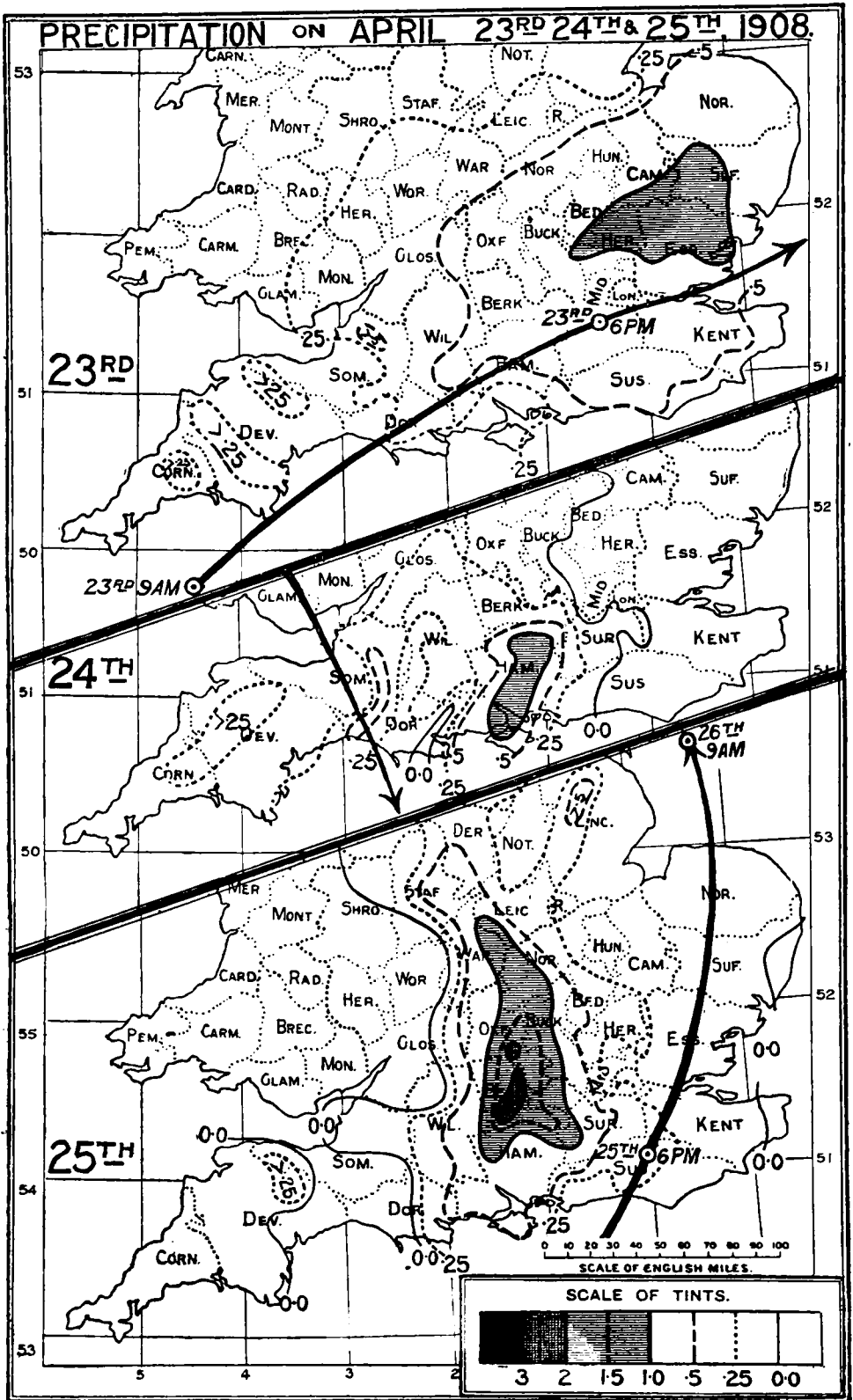
XV. Morvern (Kingairloch)..... 3·20 in. or 3·0 per cent.
XVIII. Glenquoich 2·62 „ 2·4 „

April 23rd to 25th.

During Easter week a large part of the southern half of England was visited by snow-storms, which were most severe on the 23rd, 24th and 25th, and brought the **M** to about 200 stations on these days, chiefly on the 23rd in the counties immediately to the north-east of London, and on the 25th in the counties immediately to the west and south-west. Although the amounts in themselves were not very remarkable, the showers of the three days were so interesting that we have mapped them in detail, and studied afresh the whole question which was dealt with in a preliminary way in *Symons's Meteorological Magazine* at the time.*

On the 23rd a small secondary depression passed in an east-north-east direction up the Channel, the centre being about Epsom at 6 p.m., and in the North Sea by the following morning. The precipitation, as the map shows, lay mainly on the left of the track. It was very light and irregular in the west; as much as half an inch was first reached at Salisbury and the wet area widened rapidly, while the fall increased until more than an inch fell over a considerable area in Hertfordshire, Essex and Suffolk, Berkhamsted, Thetford and Southminster forming the angles of a triangle within which the precipitation expressed as rain exceeded one inch, and within which about a foot of snow lay on the ground on the early morning of the 24th. The precipitation in the morning fell as rain, changing through sleet to thick snow in the afternoon, stopping the races at Newmarket, and doing damage to shrubs at many places. As the intensity of the precipitation was not great the usual measurements of areas have not been made.

* *Met. Mag.*, May, 1908, pp. 65-74.



At 9 a.m. on the 24th the centre of a new small depression was in the north of Ireland, and as this travelled south-eastward it was in North Wales at 6 p.m., and in the English Channel south of the Isle of Wight next morning. The early part of the day had been bright and clear in the Midland and Southern Counties, melting the snow that had fallen on the 23rd, but as the centre of the depression approached snow began to fall in the evening and increased during the night, while on the morning of the 25th, from 5 to 9 a.m., a very heavy fall set in on the shores of Southampton Water and northwards towards Farnham. There is reason to believe that most of the precipitation shown on the map of the rainfall day of the 24th occurred after midnight on that date.

By 9 a.m. on the 25th the depression had changed its direction and was moving slowly north-eastward, the centre being about Horsham at 6 p.m., and snow fell in showers and squalls all day long on the left of the track towards the west, the cruiser *Gladiator* being sunk in collision with the liner *St. Paul* in Southampton Water during a very thick snow-squall in the afternoon. On the right or east side of the track there was no precipitation at all, or at most less than one-tenth of an inch. By 9 a.m. on the 26th when the rainfall day ended, the centre of the depression was out in the North Sea, and the weather was fine, though snow lay to a great depth in the central area.

It is quite evident that the same shower, or series of showers, which commenced on the early morning of the 25th, and so got entered to the rainfall day of the 24th around Southampton Water, continued throughout the 25th, spreading northward across Berkshire into Oxfordshire, and substantial justice would be done to it by combining the precipitation of the two days. This we have done in the map on p. [86] which presents the whole smear, of which the two preceding maps showed the earlier and later splashes. It is interesting to notice how the area of high rainfall, in fact, almost the whole area with rain, is enclosed within the two arms of the cyclone track, while the region of heaviest fall was nearer to the track of the 25th than to that of the 24th. In other cases in which a cyclone track has curved sharply to the left in its progress the same concentration of rain on the concave side of the curve has been shown, notably in the maps of the rains of June 13th—15th, 1903 (*B.R.*, 1903, pp. 19–25) and June 29th—July 1st, 1905 (*B.R.*, 1905, pp. [107]–[108]). On the other hand, in those cases in which the

II.	Yattendon Court	2·12 in. or	7·9 per cent.
„	Farnborough Rectory	2·41 „	7·8 „
„	Wallingford (Aston Upthorpe)	1·80 „	7·6 „
„	„ (Woodlea)	1·85 „	7·7 „
„	Long Wittenham (Manor House)	1·97 „	8·0 „
„	„ „ (Willington)	2·33 „	9·7 „
„	„ „ (Lovegrove's Cottage)	2·00 „	8·4 „
„	Abingdon (The Square House)	2·18 „	9·4 „
„	„ (Park Road)	2·22 „	9·2 „
„	„ (Sewage Works)	2·06 „	9·3 „
„	„ Union	2·20 „	8·8 „
III.	„ (Culham Vicarage)	1·80 „	7·5 „
„	„ („ School House)	2·00 „	8·9 „
„	„ („ College)	1·70 „	7·6 „
„	Oxford (Radcliffe Observatory)	1·84 „	7·8 „
„	„ (Headington Hill)	1·80 „	7·5 „

April 27th.

M were reported at about 20 stations in the west of England and north of Ireland, only one of which is important.

XXIII. Newcastle (Tullymore Park)..... 2·90 in. or 5·0 per cent.

May 2nd.

M at about 50 stations, chiefly in the west of England, one of which may be quoted.

VI. Halesowen (Frankley)..... 2·43 in. or 8·1 per cent.

June 3rd.

A day of typical summer thunderstorms, occurring at a time of great heat, either the 3rd or 4th being the hottest day of the month, with temperatures exceeding 80° in most parts of England. **M** were recorded at about 50 widely-scattered stations; but as the irregular thundery weather was continued on the 4th, yielding about thirty **M**, it was not always possible to be sure whether some of the new Observers might not have entered their readings to the wrong day; but the falls of the two days have been carefully separated. The map, which is not reproduced, shows how, while the larger part of England and Wales was without rain (and practically none fell in Scotland or Ireland), there were three tracts of country where thunderstorms made themselves felt—these were (1) the east of Kent, where the rain fell to the east of a line from Bexhill to Whitstable; (2) a narrow strip running southward from St. Albans to Midhurst, and then diverging south-east to Shoreham and west to the New Forest; (3) in the west of North Devon, and (4) a great stretch of country extending from Bristol to Middleton in Teesdale. Nos.

3 and 4 lay in the same line from S.S.W. to N.N.E., the other two were arranged parallel to this, separated by broad stretches of country without rain. Each area contained one or more splashes where more than one inch of rain fell, indicating a centre of thunder-storm activity, the largest area containing no less than ten such splashes arranged in three rows parallel to each other and to the general direction, and of these three had patches with more than two inches of rain, while the most northerly that appears on the map was distinguished by a fall of more than four inches. From descriptions of the damage done by floods at Askrigg in Wensleydale, there seems to be no doubt that another heavy splash should be placed in that valley at a position from which we have no records of rainfall, so that its existence can only be inferred from the effects. Some details of the terrific storm in Yorkshire are given in the Observers' Notes on the Days, and we add further particulars to show the serious results which necessarily follow such heavy falls.

An eyewitness of the storm writing to a local newspaper, *The Pioneer*, says :—

“When the train was nearing Catchall my companion said, ‘What is yon?’ and pointed to what appeared to be a long white streak of something formed down the slope from the top of Thorpe and Cracoe Fell. Then several more came to view, and we realised what it was: huge streams of water were forming channels down the mountain side, and it was indeed a picture. The black cloud above, and the equally dark fell, only broken by the now numerous rushing white torrents, were plainly to be seen from Cracoe Station, the vivid flashes adding an awful grandeur to the scene.”

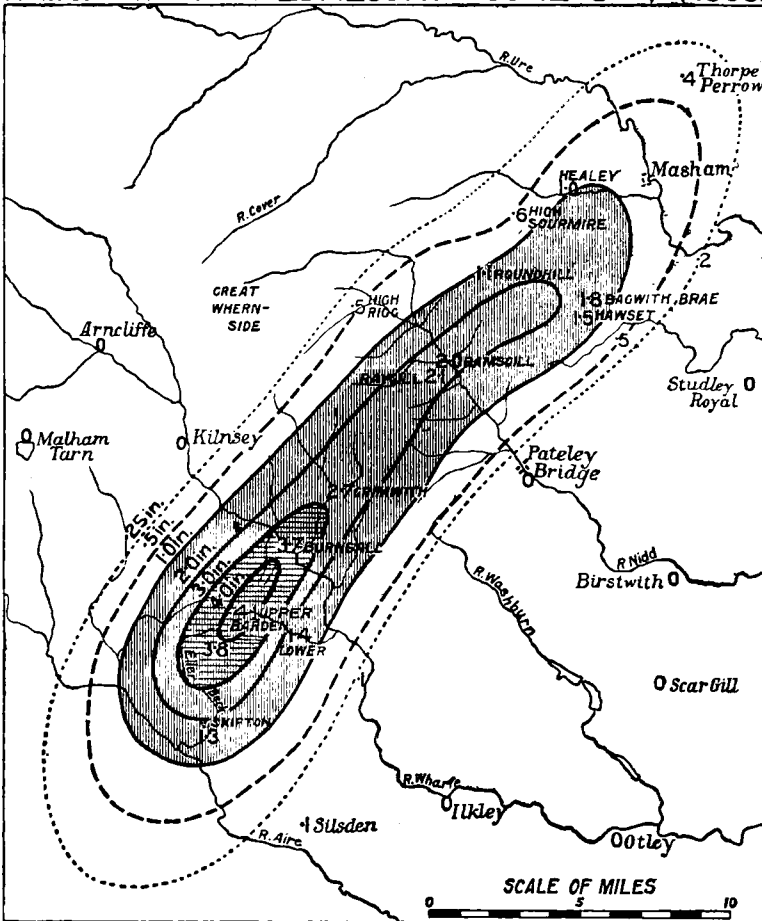
The effects of the torrents which carried off the great rainfall on Barden Fell, the centre of the area with more than four inches shown on the map, was described by Mr. A. Gilligan to the Yorkshire Geological Society, and he states that the channels cut out in a few hours by this storm were in some cases excavated to a depth of 20 feet in the solid grit, and that the breadth in some cases was 12 feet. The water-level rose 10 feet in Barden Beck, and much damage was done to the waterworks at Barden reservoirs, though the main retaining dams were too solidly constructed to give way. A well-informed journalist writing in the *Yorkshire Daily Observer* says :—

“On one little lateral stream known as Kittlety Syke, where one of the Duke of Devonshire's private roads is carried by a culvert and bridge over the stream, the flood took away the whole as cleanly as one might cut a wedge out of a cheese. In Far Long Gill, another lateral stream flowing down to the reservoir on its south side, where the branch pipe-line already

referred to is carried by a bridge over the stream, the flood took away the bridge, but happily did not carry the pipes with it. The jointing of these pipes was so well done that they have stood the strain themselves unsupported without showing any sign of giving way.

By far the worst damage, however, has been done at the head of the Lower Barden Reservoir where the water from Barden Beck comes into it. . . . During the height of the storm the debris brought down by the flood rapidly filled up the bottom of the residuum lodge, burst through the embankment, and so forced its way direct into the main reservoir, carrying

RAINFALL OF WEDNESDAY JUNE 3RD, 1908.



with it an enormous mass of sand, estimated at something like sixteen thousand cubic yards in volume. The sand has spread out like a huge delta at the head of the reservoir, and even under favourable circumstances as regards weather it will take at least four months to clear it out."

Another writer, speaking of the Skipton district says:—

"Eller Beck, which traverses the Embsay Moor water-shed and is fed by a large number of moorland streams, soon overflowed its banks. The volume of water increased to an alarming extent, and about four o'clock, after carrying away two bridges on the links of the Skipton golf course, the

water rushed into what is known as the Long Dam, in Skipton Castle Woods. The banks soon gave way and the beautiful ravine, which has been admired by thousands of visitors, was reduced to a very sad state. At the Skipton end of the Long Dam is the Round Dam, from which the surplus water passes by means of a clough into a continuation of the Eller Beck Stream. The Round Dam was soon a seething mass of water which rushed over the banks. The banks themselves soon became undermined and gave way with a great thud."

We give a large scale map of that particular splash, but the map of England (which we cannot reproduce as the features would not be prominent on so small a scale) is in a way the more interesting feature in showing how symmetrical the irregularity of the rain on a typical thunderstorm day really is. The exact measurements of area in the different rain belts are :—

	0—·50 in.	·50—1·00 in.	1·00—2·00 in.	2·00—3·00 in.	Over 3·00 in.	Total.
	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.	sq. m.
(1) Kent	729	72	7	...	...	808
(2) S. Midlands	1,462	112	40	...	...	1,614
(3) N. Devon	245	65	11	...	...	321
(4) Wales & N. England	11,614	3,509	1,404	168	13	16,708
Total	14,050	3,758	1,462	168	13	19,451

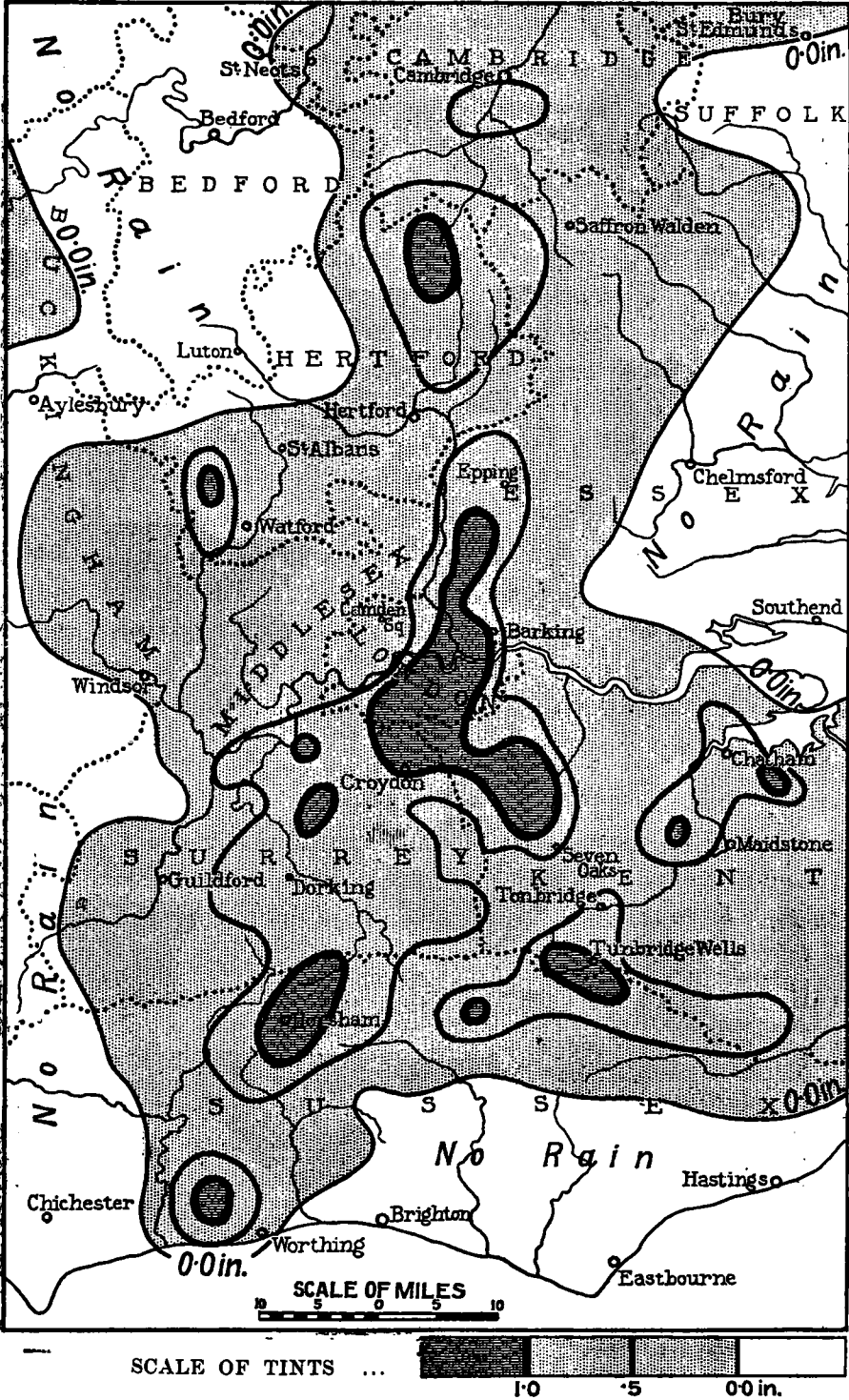
Taking the rainfall for the great storm in Yorkshire, shown in the map on p. [89], the figures for comparison with other storms are :—

	Area, sq. miles.	General Rainfall, inches.	Volume of Rain, sq. miles x inches.
Above 4 inches	2·5	4·05	10
3—4 „ 	11	3·50	40
2—3 „ 	31	2·45	75
1—2 „ 	61	1·50	92
Total.....	105·5		217

The general rainfall of the area above 1 inch was calculated as 2·05 in. It is interesting to compare this with the very similar, but more severe, thunderstorm splash of July 12th, 1900, on Rombald's Moor, above Ilkley (*B.R.*, 1900, pp. 16–22).

VI.	Cheadle (The Heath House)	2·78 in.	or 8·3 per cent.
IX.	Embsay Moor	3·79 „	...
„	Upper Barden Reservoir.....	4·06 „	8·8 „
„	Burnsall Rectory	3·70 „	8·2 „
„	Grimwith Reservoir.....	2·68 „	5·9 „
XI.	Newtown (Dolfor).....	2·50 „	7·6 „
„	„ (Gregynog)	2·89 „	6·9 „

RAINFALL OF JUNE 4TH, 1908.



June 4th.

About 30 **M**, none of them large enough to quote, resulted from a series of short but violent thunderstorms, accompanied by severe hail showers, between Cambridge on the north and Worthing on the south. We have been unable to obtain the record containing a fall of 3·42 in. which a newspaper reports at Tunbridge Wells on this afternoon; if authenticated this would have been one of the most remarkable **M** of the year. The map representing the distribution of rain is distinguished by its extreme patchiness, no less than 11 separate small areas having received more than 1 inch, and, probably, if the network of stations had been even closer more small splashes would have been discovered. We must remember that in some parts of the country, particularly the west of Ireland and the Scottish Highlands, a distribution of this kind could not be detected, as there might be only three or four records available from which to construct a map of the same extent, as compared with the 500 stations used here. This is so striking an example of the importance of having many closely adjacent records, that we print the map on a large scale on p. [91]. The line of "no rain" separates the region with ·05 in. or more from that in which ·04 in. or less was reported. The small splash north of Hertford was associated with the passage of a violent little whirlwind.*

June 13th.

M occurred at more than 50 stations in the wettest part of the north of England, in the extreme north-east of Ireland and the south-west of Scotland. Some large falls, including the Seathwaite **M** of 4·55 in., have to be recorded.

VIII.	Skelwith Fold [Ambleside]	2·61 in.	or	3·1 per cent.
IX.	Ingleton (Kingsdale Head).....	3·00	„	4·4
„	Sedbergh (Croasdale Beck).....	2·60	„	4·0
X.	Borrowdale (Seathwaite)	4·55	„	3·6
„	Buttermere (Hassness)	3·82	„	3·8
„	Ambleside (Skelwith Bridge)	2·88	„	3·3
„	Elterwater Hall	2·50	„	2·9
„	Grasmere (The Wray)	2·87	„	3·1

July 4th.

Severe thunderstorms brought **M** to about a dozen widely scattered stations, but only small patches received heavy rain, and two only enough to require special notice.

* See graphic description, with map of the track and photograph of some of the damage done, in *Met. Mag.* for July, 1908, pp. 113-116.

VI.	Tibberton Court	1·85 in.	or	8·3 per cent.
XI.	Crickhowell (Penmyarth)	2·55 „		7·2 „

July 9th.

About 25 stations, chiefly in Wales and the west of England, recorded **M**, two of which are quoted below, including the extraordinary fall of 4·75 in. at Bwlch, to the north of the Brecon Beacons, in the upper valley of the Cray.

XI.	Cardiff W.W. (Beacons Res.)	2·53 in.	or	3·4 per cent.
„	Swansea W.W. (Bwlch)	4·75 „		3·5 „

July 12th.

Very unsettled barometric conditions prevailed, leading to sudden squalls and thunderstorms, which brought **M** to about 100 stations in Kent and East Anglia, where rain gauges are very numerous, though the area affected was small. Nine of the **M** deserve notice on account of the large percentage they made of the annual fall.

II.	Chislehurst (Hawkwood)	1·80 in.	or	7·6 per cent.
„	Erith (Crossness)	2·02 „		9·9 „
„	Eastry	1·86 „		7·7 „
„	Sandwich (Upton House, Word)	2·16 „		9·1 „
„	„ (St. George's Golf Club)	1·39 „		7·5 „
IV.	Grays Sewage Works	1·91 „		10·0 „
„	Orsett	1·82 „		8·5 „
„	Barking Cemetery	1·85 „		8·2 „
„	North Ockendon	1·88 „		9·5 „

July 13th.

The unsettled thundery weather continued, and about 100 **M** were registered, chiefly in Suffolk and Norfolk and in the north of Ireland. The most remarkable was at Great Glemham, but the number of high percentages quoted below shows that the storms were as a rule very severe.

IV.	Manningtree (Bradfield Lodge)	1·93 in.	or	8·9 per cent.
„	Harwich (Coastguard Station)	1·25 „		7·7 „
„	Lawford (Dale Hall)	1·94 „		9·7 „
„	Dedham (Dalethorpe)	2·10 „		11·2 „
„	Langham Rectory	1·79 „		8·5 „
„	Boxted (Cheshunts)	2·37 „		11·4 „
„	East Bergholt (Ackworth House)	1·50 „		7·8 „
„	Ipswich (Woolverstone Park)	1·62 „		7·8 „
„	„ (Orwell Park)	1·81 „		8·5 „
„	„ (Belstead Hall)	1·77 „		7·9 „
„	„ (Museum)	1·96 „		8·8 „
„	„ (Parkside)	1·85 „		8·8 „
„	„ (Dale Hall)	1·91 „		8·6 „
„	Hollesley Manor	2·20 „		11·3 „
„	Woodbridge Abbey	2·07 „		10·1 „

IV.	Woodbridge (Melton Asylum)	1·75 in. or	9·5 per cent.
„	Rendlesham Hall	2·61 „	13·7 „
„	Aldbrough (Aldringham House).....	2·15 „	11·0 „
„	Great Glemham	3·45 „	16·0 „
„	Norwich (Heigham).....	1·70 „	7·6 „
XI.	Gresford (Horsley Hall)	2·43 „	7·8 „
XXIII.	Carrickfergus (Dorisland)	2·93 „	7·9 „
„	„ (North Woodburn).....	2·93 „	6·5 „

July 16th.

This day had the heaviest rainfall of the year at about 150 stations, chiefly in the south and west of England and in Wales, and amongst them five were large enough to note.

V.	Challacombe	2·55 in. or	4·6 per cent.
„	Simonsbath	2·53 „	4·1 „
VI.	Brilley Vicarage	2·50 „	7·1 „
XI.	Glyncorrwg	2·75 „	3·7 „
„	Swansea W.W. (Nantyrwydd).....	2·96 „	3·5 „

July 17th.

Three notable falls occurred in the Spey Valley, and about 50 M of less importance were recorded in different parts of the country.

XVII.	Dufftown (Victoria Terrace)	2·71 in. or	8·1 per cent.
„	Craigellachie (Cragganspey)	3·35 „	11·1 „
„	Archiestown (Benview)	2·29 „	7·8 „

August 20th.

About 60 moderate M were reported in the north-west of England, and about 30 in the east of Ireland, of which the following were remarkable.

XXI.	Greystones (Knockdolian)	2·60 in. or	9·1 per cent.
„	„ (Clonsilla)	2·67 „	8·5 „
„	Killiney (Cloneevin).....	2·09 „	8·1 „
„	Kingstown (Harbour Yard)	2·00 „	8·3 „
„	Rathmines (Ormond Road)	1·86 „	7·6 „
„	Donnybrook (Belmont Avenue)	2·10 „	8·7 „
„	Dublin (Leeson Park).....	1·84 „	7·5 „

August 26th.

About 50 M in the north of England, west of Scotland and north of Ireland, during thunderstorms, yielded one of considerable magnitude.

X.	Borrowdale (Grange)	3·56 in. or	4·2 per cent.
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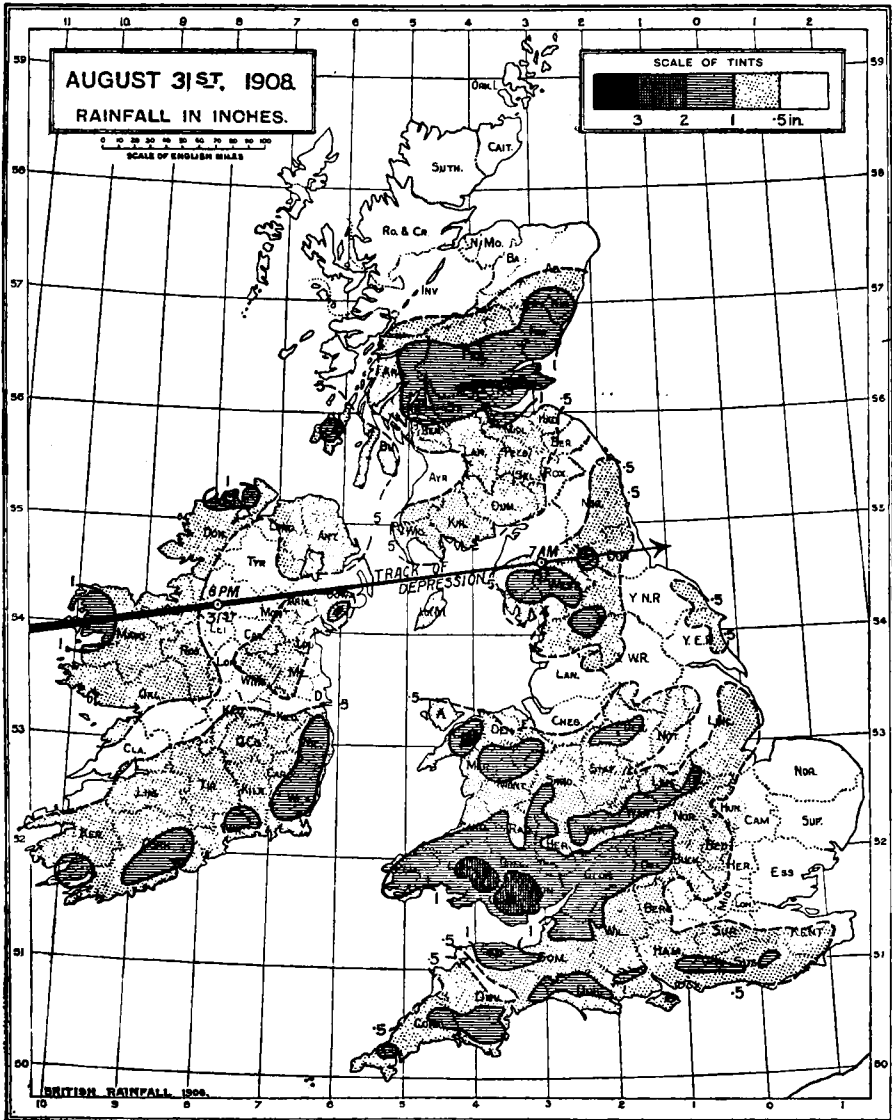
August 29th.

Half a dozen thunderstorm M yielded one substantial fall in the west of England:

V.	Weston-super-Mare (Worle)	2·25 in. or	8·3 per cent.
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August 31st.

August went out in a cyclonic rain accompanying a deep depression which moved eastward across the north of Ireland and England, and brought M to about 380 stations, eleven of which, chiefly in Wales and the west of England, are within the limits for quotation.



As this was one of the most widespread rains of the year, a map has been prepared which brings out a somewhat unusual arrangement. A large area with more than one inch of rain, occupies the south of Scotland, and in the heart of it a narrow strip with more than two inches runs from east to west, the whole lying on the left of the

track of the depression in the position in which one would expect to find it. But a very much larger area with more than an inch lies in the south of Wales and England, broken up into groups of patches and containing in Wales a considerable area with more than two inches. This appearance would suggest a parallel cyclone-track in the English Channel or south of it, if the familiar generalization of the highest fall being on the left of the track holds good. Rare instances have occurred before in which the track lay between two smears, and so far as can be seen at present, this is another of them.

The usual measurements have been made treating this as a single storm with the following result :—

	Area, sq. miles.	General Rainfall, inches.	Volume of Rain, sq. miles x inches.
Over 3 inches.....	25	3·16	79
2—3 ,, 	1148	2·22	2549
1—2 ,, 	20740	1·30	26962
Total.....	21913		29590

From this the general rainfall of the area with more than 1 inch was 1·35 in. The largest **M** observed in the storm were :—

VI.	Tortworth School	2·09 in.	or	7·9 per cent.
„	Chalford (Hyde House)	2·27 „		8·5 „
„	Stroud (Stanley Park).....	1·87 „		7·6 „
„	Mitcheldean (Blaisdon)	1·64 „		7·6 „
XI.	Ebbw Vale (Iron Works)	2·55 „		5·0 „
„	Mountain Ash (Darranlas Reservoir) ...	2·50 „		4·5 „
„	„ (Clydach Reservoir).....	3·34 „		4·9 „
„	Treherbert (Bute Colliery).....	2·54 „		3·3 „
„	„ (Tyn-y-waun)	2·56 „		3·3 „
„	Cwmaman Colliery	2·60 „		4·0 „
XVI.	Dollar (Dollarbeg).....	2·65 „		7·1 „

September 5th—9th.

The very heavy rains of the early part of September gave **M** of sufficient magnitude to quote on each of five consecutive days, especially in Scotland and Ireland, and though the whole number of **M** was comparatively small, that was on account of the few rainfall stations which exist in the part of the country principally affected rather than that the area affected by heavy rain was insignificant. On the 8th a reservoir was breached at Creggan and on the 9th a remarkable cloudburst took place on Snowdon.

September 5th.

XV.	Ardgour	2·90 in.	or	2·9 per cent.
XVIII.	Loch Shiel (Glenfinnan)	3·26 „		2·7 „

September 6th.

XXIII.	Mulroy Gardens	3.35 in.	or	6.6 per cent.
„	Fanad (Tamney Rectory)	3.56 „		7.6 „
„	Lough Swilly (Carrablagh).....	3.02 „		5.7 „

September 7th.

XIV.	Shaws W.W. (Gryfe Reservoir)	2.70 in.	or	4.2 per cent.
„	„ „ (Compensation Reservoir)	3.15 „		4.4 „
„	„ „ (Loch Thom)	3.05 „		4.2 „
„	Greenock (Prospect Hill)	2.56 „		3.9 „
XV.	Dunoon (Reservoir)	2.70 „		2.9 „
„	„ (Redhurst)	2.62 „		3.1 „
XVI.	Loch Leven Sluice	2.58 „		6.9 „

September 8th.

IX.	Slaidburn (Brennand)	2.80 in.	or	3.9 per cent.
XI.	Eigiau Lake (Dam Site)	3.00 „		3.2 „
XVII.	Nairn (Achareidh)	1.65 „		7.7 „
XVIII.	Inverness (High School)	2.30 „		9.1 „
„	Evanton (Novar Gardens)	3.20 „		8.1 „
„	Alness (Ardross Castle)	3.60 „		9.1 „
„	Cromarty	2.15 „		9.6 „
„	Fearn (Lower Pitkerrie).....	1.98 „		9.7 „
„	Tarbatness	1.55 „		7.9 „
XIX.	Strathmore (Achnacaillich)	4.06 „		6.4 „
„	Berriedale (Langwell)	2.78 „		7.9 „
XX.	Carrigaholt Castle	2.78 „		7.0 „

September 9th.

XVII.	Keith Station.....	2.62 in.	or	7.6 per cent.
„	Dufftown (Dullan Brae)	2.25 „		7.8 „
„	Ardclach (Glenferness)	2.67 „		7.9 „

September 16th.

A wet day in the Lake District giving about 25 M of which one only need be given.

VIII.	Broughton-in-Furness	2.92 in.	or	5.1 per cent.
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October 17th.

About 20 M chiefly in the south of England included one which must be noticed.

II.	West Thorney (The Manor House)	1.99 in.	or	8.8 per cent
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October 18th.

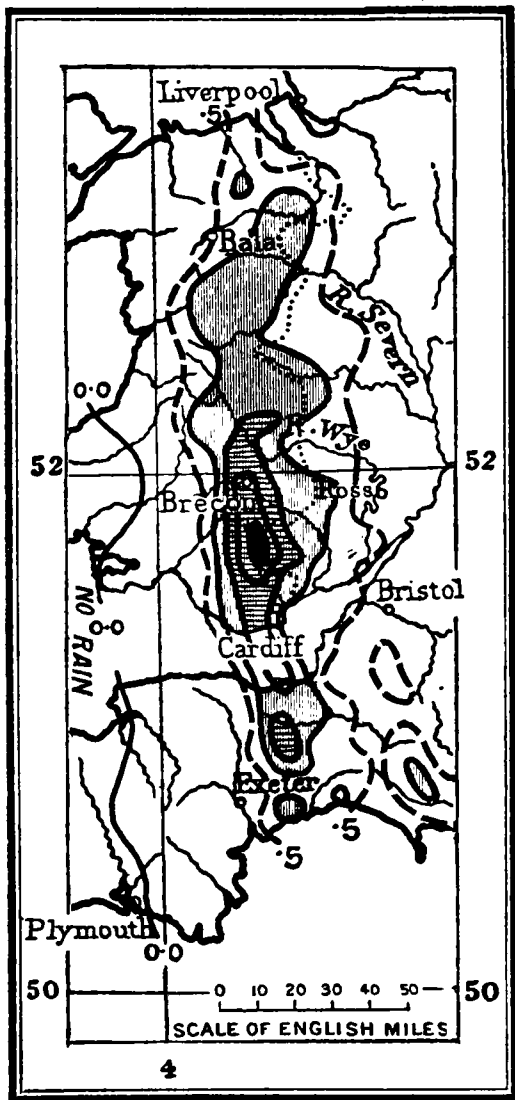
A heavy and wide-spread rain accounted for more than 100 M, chiefly in the south of England, Wales and the south of Scotland, three stations in the neighbourhood of Portsmouth recording a notable amount.

II.	Portsmouth (Eastney).....	1.44 in.	or	7.9 per cent.
„	Hayling Island (Littlemead).....	1.73 „		8.3 „
„	„ „ (Lama House)	1.96 „		8.9 „

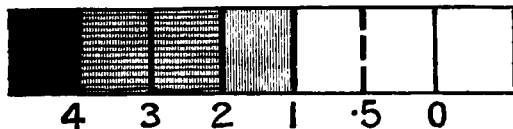
October 19th.

A very widespread downpour of the winter type produced a series of large falls in Wales and the south of Scotland, while the precipitation

RAINFALL OF OCTOBER 19TH, 1908.



SCALE OF TINTS.



was considerable for a long distance round the centres of heaviest fall. Although less than 100 M were recorded, twenty of them were large enough to claim recognition below, and the distribution of the rain was interesting enough to justify the preparation of a special map of a portion of South Wales. The form of the smears suggests that a small secondary depression may have been formed and pursued a track of some length before filling up; but no track is shown on the Meteorological Office maps. Though pretty heavy rain fell in parts of Scotland the remarkable part of the storm was confined to Wales and Somerset, where a continuous belt about 170 miles long and nowhere more than 30 miles wide had more than one inch, and enclosed a strip 80 miles long and about 15 miles wide with more than two inches. Within that heavy splash the very large falls of 4·20 in. at Dowlais, and 4·80 in. at Treharris, were amongst the most remarkable of the year.

The measurements are :—

	Area, sq. miles.	General Rainfall, inches.	Volume of Rain, sq. miles x inches.
Over 4 inches.....	29	4·40	127
3—4 ,, 	123	3·40	417
2—3 ,, 	433	2·40	1039
1—2 ,, 	2354	1·38	3260
Total.....	2939		4843

This corresponds to a general fall of 1·65 in. for the whole area on which more than 1·00 fell.

V.	Quantockshead (St. Audries)	2·45 in.	or 9·5 per cent.
X.	Alwinton (Biddleston Hall)	2·20 ,,	7·6 ,,
„	Ilderton (Lilburn Cottage).....	1·74 ,,	7·9 ,,
XI.	Barry (Canon Street)	2·51 ,,	8·5 ,,
„	Pontypridd (Maesderwen, Graig).....	3·63 ,,	7·4 ,,
„	„ (The Reservoir)	3·55 ,,	7·0 ,,
„	Treharris Service Reservoir	4·80 ,,	9·9 ,,
„	Mountain Ash (Maesydderwen)	3·45 ,,	6·9 ,,
„	„ „ (Darranlas Reservoir) ...	2·50 ,,	4·5 ,,
„	Aberdare (Abernant Hospital)	2·55 ,,	4·6 ,,
„	Merthyr Tydfil (Penbryn Filters).....	3·44 ,,	6·8 ,,
„	Dowlais (Gwernllwyn).....	4·20 ,,	8·2 ,,
„	Taff Fechan (Pentwyn Reservoir)	3·20 ,,	5·2 ,,
„	Cardiff Water Works (Cantreff Res.) ...	2·68 ,,	3·7 ,,
„	Taff Fechan (Neuadd Reservoir) No. 11.	3·40 ,,	5·4 ,,
„	Llanfrynach (Tymawr)	3·31 ,,	8·8 ,,
XIII.	Coldstream (The Hirsell).....	1·78 ,,	7·8 ,,
XVI.	Kirriemuir (Lednathie)	2·87 ,,	7·1 ,,
„	Montroseness.....	1·71 ,,	8·4 ,,
„	Montrose (Kinnaber W.W.)	2·11 ,,	8·4 ,,

October 20th and 21st.

This was the most remarkable instance of a very heavy local fall which we have to chronicle this year, but unfortunately it fell at a very awkward hour, the downpour being in full force at 9 a.m., when observations should be made. As a result the readings were somewhat irregular in time, and at some places more than the fair share of the rain was assigned to the rainfall day of the 20th. Less than 50 M were reported for the two days, about an equal number for each, and to give a fair account we quote the rainfall for the four days, 18th to 21st, at all stations which had more than 2·00 in. as an aggregate of the two days, 20th and 21st, printing the M in heavy type. All of these cases occurred in Dorset.. The large amount of 3·98 in. at the Portland Breakwater on the 20th was measured at 10 a.m. on the 21st, so it is not strictly comparable with the other M.

Heavy Rain in Dorset, October 18th—21st, 1908.

STATION.	Oct. 18.	Oct. 19.	Oct. 20.	Oct. 21.	Total of 20th and 21st.	Total, 18th—21st.
	in.	in.	in.	in.	in.	in.
Portland, H.M. Breakwater*..	(1·45)	1·00	3·98	2·91	6·89	9·34
Weymouth, Wyke Regis.....	1·03	·41	1·80	2·63	4·43	5·87
„ Westham	·99	·48	1·13	2·93	4·06	5·53
„ Massandra	·96	·37	·84	3·73	4·57	5·90
Chickerell, Montevideo	·76	·24	1·70	1·50	3·20	4·20
„ Rectory	·88	·27	1·04	1·27	2·31	3·46
East Fleet, Fleet House.....	1·05	·24	1·05	1·35	2·40	3·69
Abbotsbury, New Barn	1·02	·24	·19	2·25	2·44	3·70
Upwey, Portland Water Works	1·03	·45	·56	2·67	3·23	4·71
Winterbourne Herringstone....	·92	·67	·92	2·32	3·24	4·83
Abbotsbury, Littlebredy	1·04	·27	1·17	1·67	2·84	4·15
Winterbourne Steepleton.....	1·01	·66	·48	2·20	2·68	4·35
Dorchester Water Works	·80	·96	·85	1·38	2·23	3·99
„ Wollaston House...	·85	1·22	·82	1·24	2·06	4·13
Lyme Regis, Colway Cottage...	·80	·49	1·15	·98	2·13	3·42
Bradford Peverel	·95	·71	·73	1·33	2·06	3·72
Wynford House.....	·95	·40	·51	2·26	2·77	4·12
Maiden Newton, Cattistock Lodge	·86	·65	·53	1·83	2·36	3·87
Broadwindsor, Blackdown Ho.	·94	·48	1·60	·75	2·35	3·77
Chedington Court..	·84	·26	1·22	1·32	2·54	3·64

* Read at 10 a.m.

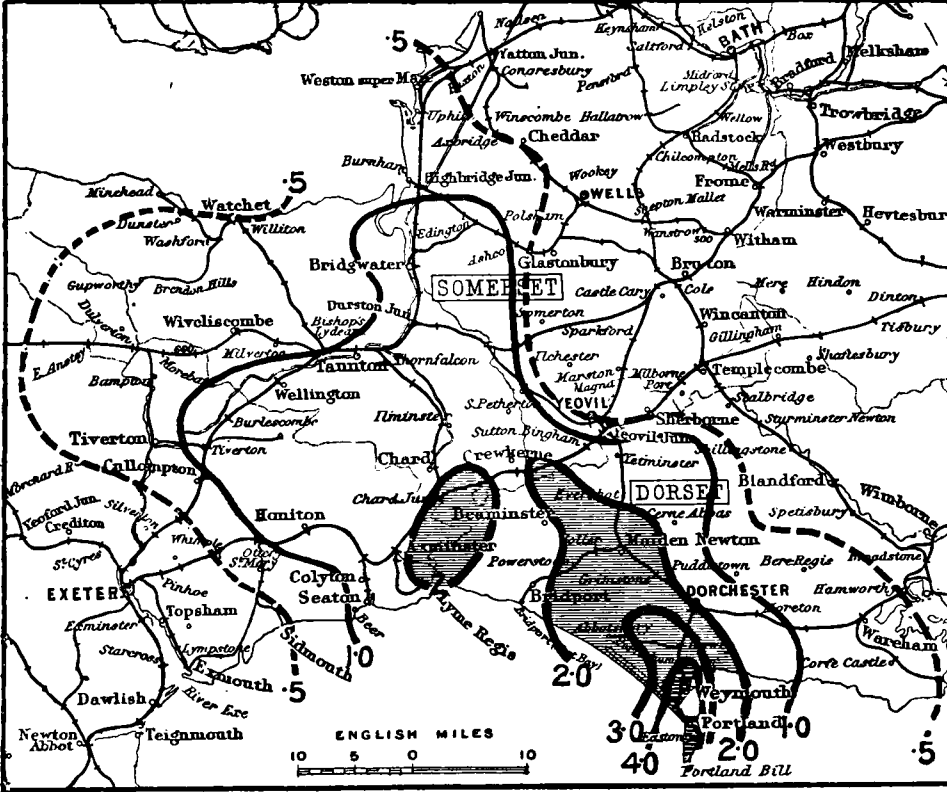
It is to be remarked that while the two days' rain for which a map has been constructed was undoubtedly the result of a single heavy fall in progress at the time of observation, there was altogether a run of four very wet days in the south of Dorset, the 18th, 19th, 20th and 21st, and it would probably be an error to ascribe the splash on the map solely to the influence of the depression which crossed Cornwall from north-west to south-east on the 20th. It should be mentioned that in this map the shading is confined to the area with more than 2 inches of rain, but the 1 inch line is very clearly shown. Observations detailed in *Symons's Meteorological Magazine* for November, 1908, make it probable that practically the whole of the great fall of the 20th and 21st occurred in about five hours, and in this case the record at the Portland Breakwater of 6·50 in., or possibly 6·89 in., coming down in five hours is probably unique in the south of England. In the absence of a self-recording gauge it is difficult to speak with certainty as to the rate of fall, and even if there

had been a recording gauge at work it is doubtful if it could have coped successfully with so severe a strain. The measurement of the map of the rainfall of the two days shows :—

	Area, sq. miles.	General Rainfall, inches.	Volume of Rain, sq. miles x inches.
More than 4 inches	11	5·00	54
3—4 inches.....	29	3·50	101
2—3 „	206	2·42	498
1—2 „	812	1·49	1211
Total.....	1058		1864

This corresponds to a general fall of 1·76 in. over the whole area with more than 1 inch of rain.

RAINFALL OF OCTOBER 20TH & 21ST 1908.



For the sake of uniformity the usual list of M is added ; but it must be remembered that the Portland Breakwater figure was not for the same 24 hours as the others.

October 20th or 21st.

V.	Portland (H.M. Breakwater).....	3.98 in.	or 11.9 per cent.
,,	Weymouth (Wyke Regis)	2.63 ,,	9.6 ,,
,,	(Westham)	2.93 ,,	11.9 ,,
,,	(Massandra)	3.73 ,,	13.0 ,,
,,	Abbotsbury (New Barn).....	2.25 ,,	8.5 ,,
,,	Upwey (Portland Water Works)	2.67 ,,	8.6 ,,

November 21st.

M at about 40 stations in the north of England and west of Scotland one of which may be noted.

IX.	Slaidburn (Whitendale)	2.52 in.	or 3.6 per cent.
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November 22nd.

see. An isolated **M** at one of the most puzzling stations with which we have to deal. The reading of 8.58 in. at Llyn Llydaw Copper Crushing Mill on a day when only 4.75 in. was recorded at the Llyn Llydaw Intake would have been classed as incredible were it not for the extreme care with which the Snowdonian rain gauges are supervised by Mr. Lockwood (see Part I. of this volume).

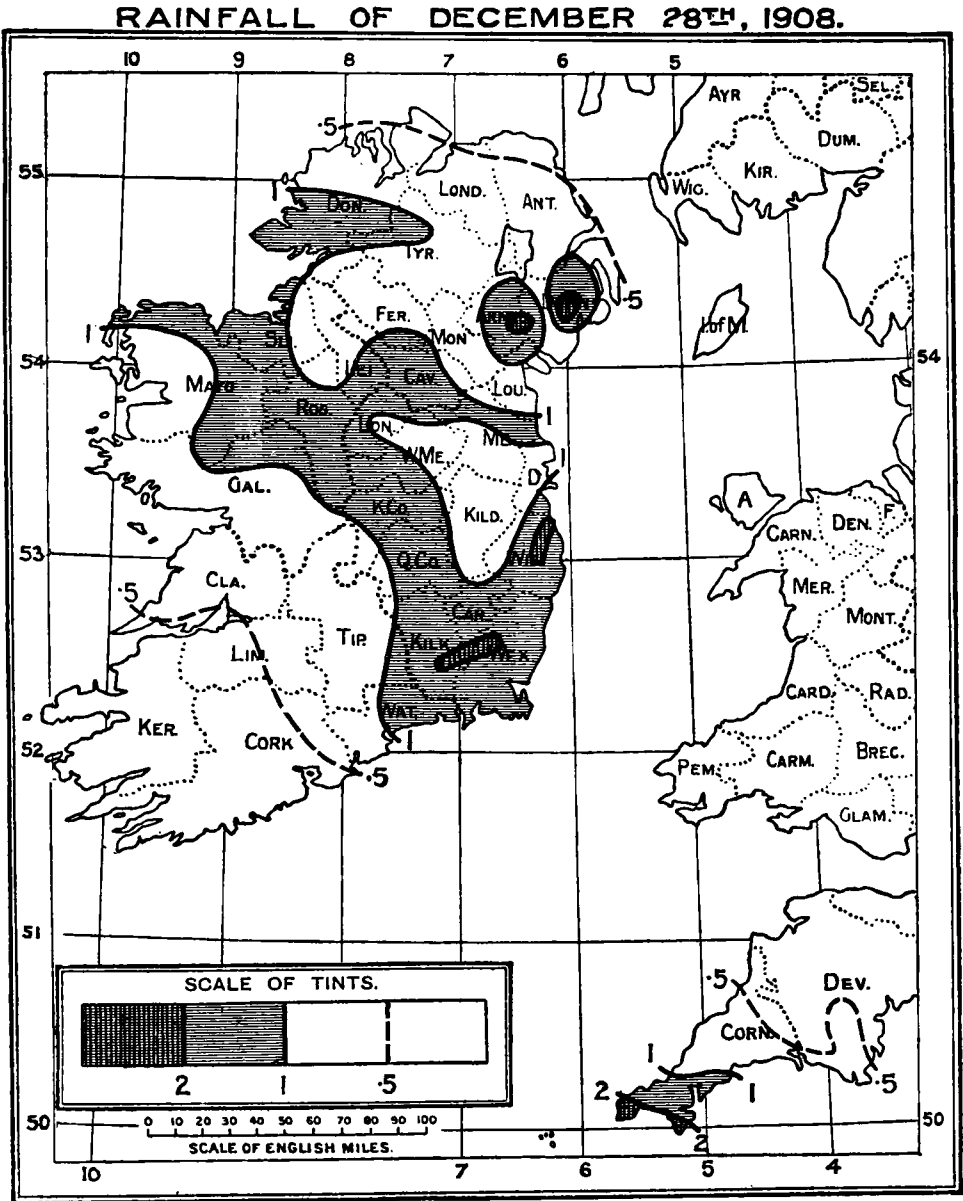
The situation of Llyn Llydaw is very remarkable, and the extremely high rainfall is possibly due to the configuration of the narrow valley giving rise to strong local ascending currents of air in certain conditions of the wind.

XI.	Snowdon (Llyn Llydaw Copper Mill)	8.58 in.	or 3.6 per cent.
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December 28th.

Although less than 60 **M** were recorded, and they were confined to Cornwall and Ireland, the day was one of widespread, moderately heavy, winter rain over the greater part of Ireland where the rain gauges on which we have to rely are few and far between. An equally widespread fall in England would have resulted in many hundred **M**; but the intensity of the rain was not in proportion to the large area affected and only two entries fall to be noted here. We may, however, give a map of the distribution of rainfall which presents some points of interest. The wet belt is seen crossing Ireland from north-west to south-east and it reappears in the extreme south-west of Cornwall.

XXI.	Enniscorthy (Woodbrook)	2.55 in.	or 4.9 per cent.
XXIII.	Castlewellan (Lough Island Reservoir).	2.54 ,,	5.5 ,,



Part II.—Abstract.

Having dealt with the more important maximum falls with reference to the individual wet days which they serve to immortalize, we have next to consider them so as to derive some of the general characteristics which will enable us to compare the year under discussion with earlier years. The comparisons which can be made suffer from the inevitable imperfection which dogs the steps of every

progressive work. Thanks to the growing interest and the increasing accuracy, uniformity and punctuality of the Observers, the data we have to deal with each year are more complete and trustworthy than the year before, and, although we are prepared to sacrifice anything that is not essential to ensure continuity with past usage, we can neither resent nor ignore the steady improvement which weakens the uniformity necessary for perfect comparison. Following custom, we give in Table I. the sixteen largest maximum falls on rainfall days in 1908 ; and this Table is more interesting than usual, for it records a new extreme never before reached. Hitherto the fall at Seathwaite of 8·03 in. in 1897 has been the greatest known to occur in a rainfall day in any part of the British Isles. It succeeded the record of 7·74 in. at Ben Nevis in 1894, and is now surpassed by 8·58 in. at Llyn Llydaw on Snowdon in 1908. The sixteen falls are unusually widely scattered. They include four from South Wales representing a thunderstorm on July 9th, and the very heavy rain of October 19th ; three from the Lake District, representing June 13th and August 26th ; two from Snowdon, both winter rains, in January and November, and the only instances supplied from the winter months ; two from the terrific Yorkshire thunderstorm of June 3rd ; two from the Dorset deluge of October 20th and 21st, which would have come nearer the top of the list but for the accident of the great fall splitting on the 9 a.m. boundary between two rainfall days ; two from the north of Scotland on September 8th, and one from the north-west of Ireland on September 6th.

Table II., which for economy of space comes after Table III., shows that the mean of the 16 greatest *M* was considerably higher than usual, and that the highest of them had never been surpassed since the study of maximum falls commenced in 1865. It must be borne in mind, however, that no rain gauge had been read daily at Llyn Llydaw until 1907.

Table III. gives the sixteen highest percentages of the total rainfall amongst the *M* of 1908, and here the first place goes to the heaviest falls in the driest localities. The highest of all, 16 per cent. at Great Glemham, and eight others, occurred in the great thunderstorms of July 12th and 13th in East Anglia ; four were due to the heavy downpours of October 19th to 21st in South Wales and Dorset, and two to the Easter-week snowstorm of April 25th.

Table IV. compares the highest percentages of various years, and shows that there was nothing much out of the common in 1908, the

mean of the sixteen highest percentage *M* and the highest for the year were above the average, but not greatly so, and both had been exceeded on many occasions.

Table V. is always the most interesting, as the data it deals with are more fairly comparable than the others. The mean percentage to total rainfall of all the 3596 maximum falls was 4·4, practically the average, for though the mean amount of all the *M* was only 1·31 in. or ·14 in. below the average (practically identical with that of 1907), the mean amount of annual rainfall for all stations was 30 inches, or 3 inches below the average. If 33 inches be taken as 100 per cent. of the average, the mean fall of 1908 was 91 per cent., and the mean maximum falls 4 per cent., both being lower than the normal. It must be remembered that the 3596 stations which were dealt with are not uniformly distributed, but are much closer in the dry parts of the country than in the wet, so that the mean is considerably below the true general rainfall. But, on the other hand, the increase from year to year is greatest in those regions where the stations are already the most numerous, so that the column of ratios gives a very fair account of the fluctuations of general rainfall from year to year, and the last column shows how the maximum fall expressed as a percentage of the general average varies from time to time.

In Table VI. the number of *M* exceeding two and three inches respectively is set forth for the years since 1882, and while the whole number necessarily varies with the total number of records, the percentage to the total number of each year is a fair basis of comparison. Viewed thus, the proportion of maximum falls exceeding 2 inches in 1908 was much below the average, it had only been lower on three occasions since 1882, viz., in 1887 (the driest year on record), 1902 and 1907. The proportion of falls of 3 inches or over was also below the average (although the actual number recorded was 1 above the average—the number of records in 1908 being 1197 above the average of the 26 years), but to a less extent, there having been eight earlier instances as low or lower. The Chronicle has shown that although patches with more than 2 and even more than 3 inches appeared on the maps on several occasions, they were always of very small extent, and we may state as one of the characteristics of 1908 that the heavy falls were unusually restricted in area, the absence of very heavy widespread rains of the winter cyclone type being especially noticeable.

Dividing the records into the three great groups, we get the following summary :—

Summary of Maximum Falls in 1908.

	No. of Records.	Mean Amount.	Mean Percent- age of Annual Fall.	Falls of 2·00 in. or more.	Per Cent. of Total.	Falls of 3·00 in. or more.	Per Cent. of Total.
		in.		No.		No.	
England & Wales...	3002	1·26	4·5	182	6·1	29	1·0
Scotland	386	1·54	4·2	68	17·6	9	2·3
Ireland	208	1·47	4·0	29	13·9	2	1·0
	3596	1·31	4·4	279	7·9	40	1·1

On examining the list we see that the mean amount of the *M* was greatest in Scotland, and least in England and Wales, while the mean percentage they formed of the annual total rainfall was greatest for England and least for Ireland. The range was not great, only from 4·5 to 4·0, that is to say, the wettest day of the year had from four and a half to four hundredths, or in a vulgar fraction from $\frac{1}{22}$ to $\frac{1}{25}$ of the whole year's fall. The proportion of *M* over 2 inches to

Comparison of Maximum Falls.

	No. of Records.	Mean Amount.	Mean Percent- age.	Falls of 2·00 in. or more.	Per Cent. of Total.	Falls of 3·00 in. or more.	Per Cent. of Total.
		in.		No.		No.	
ENGLAND AND WALES—							
1905.....	2719	1·28	4·9	176	6·5	12	0·4
1906.....	2846	1·31	4·6	310	10·9	24	0·8
1907.....	2915	1·30	4·2	97	3·3	18	0·6
1908.....	3002	1·26	4·5	182 78	6·1 5·9	29 5	1·0 0·8
SCOTLAND—							
1905.....	332	1·29	3·5	32	9·6	2	0·6
1906.....	325	1·68	3·9	78	24·0	6	1·8
1907.....	342	1·59	3·9	21	6·1	3	0·9
1908.....	386	1·54	4·2	68 7	17·6 4	9 8	2·3 4
IRELAND—							
1905.....	199	1·88	5·9	72	36·2	31	15·6
1906.....	194	1·14	3·3	7	3·6	0	0·0
1907.....	208	1·21	3·1	2	1·0	2	1·0
1908.....	208	1·47	4·0	29 30	13·9 4·4	2 3	1·0 4

the whole number was greatest in Scotland, where in proportion to the number of records they were three times as numerous as in England and Wales ; while the proportion of M more than 3 inches was nearly two and a-half times as great in Scotland as in England and Wales or Ireland.

A comparison for four years of the data for each of the three kingdoms is given above, but the period for which this analysis is available is still too short to allow of any useful generalization.

TABLE I.—*Maximum Falls in 1908.*

Date.	Div.	Station.	Depth.	Per Cent.	Total.
Nov. 22 ...	XI.	Snowdon, Llyn Llydaw Copper Mill	6.58 in.	8.9	237.32 in.
Jan. 15 ...	"	" " " Intake.....	5.45 "	3.5	156.98 "
Oct. 19 ...	XI.	Treharris, Service Res.	4.80 "	9.9	48.37 "
July 9 ...	"	Fforest Fawr, Bwlch	4.75 "	3.5	135.08 "
June 13 ...	X.	Borrowdale, Seathwaite ...	4.55 "	3.6	127.38 "
Oct. 19 ...	XI.	Dowlais, Gwernllwyn	4.20 "	8.2	51.27 "
June 3 ...	IX.	Upper Barden Reservoir ...	4.06 "	8.8	46.14 "
Sept. 8 ...	XIX.	Strathmore, Achnacaillich...	4.06 "	6.4	63.31 "
Oct. 20 ...	V.	Portland, H.M. Breakwater	3.98 "	11.9	33.41 "
June 13 ...	X.	Buttermere, Hassness	3.82 "	3.8	100.99 "
Oct. 21 ...	V.	Weymouth, Massandra	3.73 "	13.0	28.59 "
June 3 ...	IX.	Burnsall Rectory.....	3.70 "	8.2	44.96 "
Oct. 19 ...	XI.	Pontypridd, Maesderwen, Graig	3.63 "	7.4	49.10 "
Sept. 8 ...	XVIII.	Alness, Ardross Castle	3.60 "	9.1	39.47 "
" 6 ...	XXIII.	Fanad, Tamney Rectory ...	3.56 "	7.6	46.75 "
Aug. 26 ...	X.	Borrowdale, Grange	3.56 "	4.2	84.91 "
July 13	IV	Great Glemham	3.45	16.0	21.62 ✓
Oct 19	XI	Mountain at Maesderwen	3.45	6.9	49.91 ✓

TABLE III.—*Maximum Percentages in 1908.*

Date.	Div.	Station.	Per cent.	Fall.	Total.
July 13 ...	IV.	Great Glemham	16.0	3.45 in.	21.62 in.
" 21 ...	"	Rendlesham Hall	13.7	2.61 "	19.02 "
Oct. 21 ...	V.	Weymouth, Massandra	13.0	3.73 "	28.59 "
" 20 ...	"	Portland, H.M. Breakwater	11.9	3.98 "	33.41 "
" 21 ...	"	Weymouth, Westham	11.9	2.93 "	24.57 "
July 13 ...	IV.	Boxted, Cheshunts.....	11.4	2.37 "	20.84 "
" " ...	"	Hollesley Manor.....	11.3	2.20 "	19.48 "
" " ...	"	Dedham, Dalethorpe	11.2	2.10 "	18.71 "
" 17 ...	XVII.	Craigellachie, Cragganspey..	11.1	3.35 "	30.11 "
" 13 ...	IV.	Aldborough, Aldringham House	11.0	2.15 "	19.52 "
Apr. 25 ...	II.	Bucklebury Place	10.4	2.50 "	24.00 "
July 13 ...	IV.	Woodbridge Abbey	10.1	2.07 "	20.45 "
" 12 ...	"	Grays Sewage Works.....	10.0	1.91 "	19.14 "
Oct. 19 ...	XI.	Treharris, Service Res.	9.9	4.80 "	48.37 "
July 12 ...	II.	Erith, Crossness	9.9	2.02 "	20.40 "
Apr. 25 ...	"	Long Wittenham, Willington	9.7	2.33 "	23.98 "

1907 3.53 7.3 59.3 4.86 9.4 Kingbridge, Westcombe T.

[108]

BRITISH RAINFALL, 1908.

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	4.4	86.2	6.38	3.6	"	"
1867 ...	3.17	9.0	m 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	m 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	m 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 ...	m 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	M 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 ...	M 5.24	5.3	95.1	8.03	5.6	"	"
1898 ...	4.61	5.3	100.8	6.70	M 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	Ilkley, 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	Skelwith Bridge ...	X.
1905 ...	3.90	M 11.5	42.6	5.71	14.0	Glen-na-Smoel	XXI.
1906 ...	3.63	m 4.3	90.0	6.15	4.7	Seathwaite	X.
1907 ...	3.86	6.5	77.5	5.90	3.0	Snowdon, Llyn Llydaw	XI.
Average	3.79	6.6	70.8	5.44	7.2		
1908 ...	4.88	7.0	80.0	M 28.53	8.6	Snowdon, Llyn Llydaw	XI.
Diff. ...	+1.09	+0.4	+9.2	+3.09	+1.4		

1908 ... 3.93 8.0 60.7 4.80 9.9
 Diff. ... 4.26 7.0 80.9 6.6 2.8
 +.14 +1.4 -10.1 -6.4 +2.7 Treharvis XI

TABLE IV.—*Comparison of Maximum 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.
1905 ...	13·8	3·67	26·7	14·9	3·98	Cofton Vicarage	V.
1906 ...	10·5	2·51	24·0	11·9	2·50	Cambridge, Herschel House	III.
1907 ...	10·7	3·01	28·5	12·5	3·40	Lincoln, St. Botolph's	VII.
Aver....	10·3	2·85	28·1	13·1	3·76	.....	„
1908 ...	11·4	2·78	24·5	16·0	3·45	Great Glemham.	IV
Diff. ...	+ 1·1	— ·07	— 3·6	+ 2·9	— ·31	.....	„

TABLE V.—*Comparison of the Mean of all the Maximum Falls of 1908 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	m 3·4	1·59	M 47	M 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	M 1·83	37	112	M 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	m 1·14	m 25	m 76	m 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	M 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 „
1905.....	3250	4·8	1·31	27	82	4·0 „
1906.....	3365	4·5	1·40	31	94	4·2 „
1907.....	3465	4·1	1·32	32	97	4·0 „
Average.	1795	4·5	1·45	33	100	4·4 „
1908.....	3596	4·4	1·31	30	91	4·0 „
Diff.....	+1801	—0·1	—·14	— 3	— 9	—0·4 „

TABLE VI.—*Maximum 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
3	1505	.....	170	.....	11·3
4	1691	.....	138	.....	8·2
5	1801	.....	179	.....	10·0
6	1718	.....	158	.....	9·2
7	1921	.....	52	.....	m 2·7
8	1974	.....	374	.....	18·9
9	1812	.....	170	.....	9·4
1890	2081	.....	345	.....	16·6
1	2218	.....	270	.....	12·2
2	2231	.....	470	.....	21·1
3	2267	.....	183	.....	8·1
4	2321	.....	313	.....	13·5
5	2423	.....	249	.....	10·3
6	2465	.....	249	.....	10·1
7	2598	.....	275	.....	10·6
8	2691	.....	373	.....	13·9
9	2791	.....	283	.....	10·0
1900	2702	.....	641	.....	M 23·7
1	2747	.....	497	.....	18·1
2	2832	.....	163	.....	5·8
3	2936	.....	625	.....	21·3
4	3093	.....	246	.....	8·0
5	3250	.....	280	.....	8·6
6	3365	.....	395	.....	11·7
7	3465	.....	198	.....	3·4
Mean	2399	.....	283 ✓	.....	11·8 ✓
1908	3506	.....	270	.....	7·8
Diff.	+1197	.....	4	.....	4·0
1908	3596	.....	275	.....	7·7
Diff.	+1197	.....	- 8	.....	- 4·1

1908 3596 275 7·7 36 1·0
 Diff. +1197 - 8 - 4·1 - 4 - 0·6

THE DISTRIBUTION OF RAINFALL IN TIME.

IN the preceding section we utilized one reading from every daily record of rainfall reported to us, and in every case in which the wettest day of the year was the same at a number of adjacent stations, we constructed maps with the aid of data from hundreds, and, in some cases, thousands, of other stations in order to discuss fully the incidence of heavy rains on particular days.

We have now to deal with other aspects of the distribution of rainfall in time, but we are hampered in doing so by two sets of difficulties. The first set are difficulties arising from the time we ought to devote to the work ; the more complete a discussion is made the later must be the publication of the annual volume, hence if we were to endeavour to analyse fully all or most of the records we receive, the result would be ancient history before it could be presented to our readers. The second set are difficulties of opportunity. A great many of the records we receive, though perfect so far as the annual total is concerned, and perhaps perfect also as regards the monthly totals and the fall of the wettest day, cannot be fully trusted for the classification of falls according to magnitude, either because the gauge is not visited every day when no apparent fall of rain has occurred, and very small falls are apt to be omitted, or because the measuring glass is not graduated so as to show $\cdot 01$ in. quite clearly, or because the hour of observation differs from the standard 9 a.m. ; and from one or more of these causes many useful records do not give us the data necessary for the special study of time relations. Very few Observers employ self-registering rain gauges of sufficient accuracy, or work up the records of such instruments so as to obtain measurements of the actual duration of rainfall. Hence in studying the distribution of rainfall in time over the country as a whole, we must confine ourselves to the rain day as a unit, and deal in turn with the number of rain days, the frequency of falls of particular intensities, the sequence of rainless

days in sufficient number to form droughts, and the sequence of rain days in sufficient number to form rain spells. This restriction results from lack of opportunity to do more. Want of time makes it impossible to deal exhaustively with the full number of records of adequate accuracy, and we have to fall back in consequence on the complete discussion of a comparatively small number of records, selected for their known accuracy and for their uniform and representative distribution over the British Isles. The mean of the 73 stations selected, all of which are quoted in the Intensity Table, gives a fair approximation to the general conditions of the country, and the mean of the stations in each of the three kingdoms is also a fair approximation to the truth. The discussion, as a whole, has been carried on in exactly the same way for six years, and in a few years more we should be able to have a set of mean values which will serve as a satisfactory basis for comparison. The treatment of droughts alone has been carried on long enough to enable us to compare the conditions of any year with the average of a long period.

I.—Rain Days and Intensity of Rainfall in 1908.

The special efforts we have been making in recent years to promote strict uniformity in measuring small quantities of rain, and the introduction of the Camden rain glass in which the half-hundredth point, which determines whether a light fall is to be counted or disregarded, have apparently led to an increased number of rain days being noted by some Observers, who formerly got less than the proper number. No reform seems to be free from the risk of abuse, and we are almost inclined to fear that some Observers have failed to realize that the half-hundredth mark on the Camden glass is not the mark of $\cdot 01$ in., for we find more instances than before of an excessive number of rain days being recorded. We can hardly believe that so great a number of days has really occurred as is reported in some cases, but as local conditions undoubtedly do give rise to considerable variations, we have been sparing in the deletion of the number of days quoted in the General Table, on the ground of excess. The numerous blanks in the last line of the General Table usually mean that some Observers fail to examine their rain gauge *every day*, and that recognising the number of days to be too small, we have cut out the figure after careful comparison with the records of surrounding stations.

shows very small strips in Sussex and Essex with less than 150 rain days; the whole south of England, except the Cornwall-Devon peninsula, had less than 175 days, and the line of 175 days recurred at intervals along the east coast of Britain, from Suffolk to Aberdeenshire. More than 200 days with rain were recorded in the north of the Cornwall-Devon peninsula, throughout most of Wales, the north-west of England, and in all parts of Scotland, except a strip round the east coast, as far north as the shores of the Moray Firth. The increase in the number of rain days westward is broken by narrow strips along the Irish, Welsh, and Lancashire coasts, with less than 200 days, but west of this the number increases steadily to the west with more than 250 along the west coast of Ireland and the extreme west of Scotland. Those parts of the country where more than 200 days had rain in 1908 are shaded on the map, and those where there were more than 250 rain days, are shown in a darker tint. As usual, the run of the lines of equal number of rain days is roughly in accord with that of the isohyetal lines of total annual rainfall.

The average numbers of rain days taken as a standard in the following summaries depend on 12 years only, and are probably less trustworthy than the average amounts of rain deduced from records of thirty years or more; but the number of days with rain does not seem to vary so much as the amount of rainfall does from year to year. The little Table which follows shows that the general number of rain days in England and Wales was 189, or 8 more than the average; in Scotland 221, or 15 more than the average, and in Ireland 228, or 12 more than the average. The amount of rain as deduced from the 73 stations was identical with the average

Number of Rain Days and Total Fall compared with the Average.

	Average 1891—1902.*			Year 1908.†			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	189	32·37	·171	+ 8	—3·20	—·026
Scotland	206	43·93	·213	221	43·98	·199	+15	+ ·05	—·014
Ireland	216	42·38	·196	228	39·36	·173	+12	—3·02	—·023
British Isles	197	39·63	·201	206	36·92	·179	+ 9	—2·71	—·022

* Mean of 62 Stations. † Mean of 73 Stations.

for Scotland, and about three inches less than the average for England and Ireland. The differences of the number of rain days and amount of rain from the average in the last six years are given in the form of percentages in the accompanying summary, from which it appears that in respect of both rain days and average rain-

Difference from Averages of 1891-1902 expressed as percentages.

	1903.		1904.		1905.		1906.		1907.		1908.	
	Rain Days.	Total Rain.	Rain Days.	Total Rain.	Rain Days.	Total Rain.	Rain Days.	Total Rain.	Rain Days.	Total Rain.	Rain Days.	Total Rain.
England and Wales	+17	+26	+4	-11	+3	-16	+ 6	+ 2	+12	+ 2	+4	-9
Scotland	+18	+35	+6	- 3	+8	- 2	+10	+10	+13	+ 6	+7	0
Ireland	+17	+21	+7	- 2	+2	-15	+ 7	- 7	+11	- 3	+6	-7
British Isles	+16	+26	+5	- 8	+3	-12	+ 7	+ 2	+11	+ 1	+5	-7

fall 1908 was very similar to 1904. It is remarkable that in each year of the six the number of rain days should have been above the average of the 12 years with which they are compared ; and though this fact suggests the possibility of the average we had adopted being too low, we are of opinion that if so it is probably only by a little, as many Observers have commented on the number of rain days being exceptionally high in 1908 compared with the rainfall.

The smallest mean daily intensity of rainfall noted in the large Table was .11 in. per rain day, the same as in 1907, but occurring on this occasion at five stations, viz., Blisworth, Geldeston, Market Overton, Hodsock Priory, and Bothalhaugh. The highest was at Dungeon Ghyll, .41 in. per rain day ; at Seathwaite, which does not appear in the Table, it was .57 in., and at Glenfinnan, in the wettest part of the west of Scotland, it was .49 in.

The large Table of the Intensity of Daily Rainfall supplies the most rigid test of the minute accuracy of rainfall records that can be applied, and the smallest divergence from accuracy in the graduation of the rain glass may give rise to a large discrepancy in the number of days entered in each group, and such an error would most likely affect the number corresponding to the smallest reading, that of .01. Here, also, the strict interpretation of Rule 11 is necessary to ensure uniformity of readings, and we have little doubt that the considerable range in the number of days with .01 in. of rain which is to be found between stations in the same natural region results from faults of the glass or interpretation of the rule. We feel sure, however, that errors may lie on the side either of too much or of too little, and so we trust that in dealing with considerable numbers one set may

counterbalance the other, and the summary for the three kingdoms or groups of several divisions reflect the natural differences which exist in different geographical conditions. The figures of 1908 may be compared with those of the five previous years for general purposes as follows :—

England and Wales.

General Number of Days on which various amounts fell.

Year.	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.	Total.
1903...	24	39	36	52	35	19	5	1	211
1904...	24	41	34	47	28	12	2	0	188
1905...	26	42	35	45	24	12	2	0	186
1906...	21	38	35	50	31	14	3	0	192
1907...	22	43	36	53	32	14	3	0	203
1908...	24	42	34	48	27	12	2	0	189
Average of 6 years }	24	41	35	49	29	14	3	0	195

The close resemblance between 1908 and 1904 in the distribution of the frequency of rainfall of various amounts strikes the eye at once ; and, indeed, the general similarity of the five last years is so great, and the totals in every case so near the average of the six years, that but for the exceptional year 1903, it would look as if this particular method of discussing rainfall revealed little to distinguish one year from another. It may be noted that the number of days with a fall less than ·10 in. is practically identical with the number having a fall greater than ·10 in.

Scotland.

General Number of Days on which various amounts fell.

Year.	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.	Total.
1903...	21	39	39	63	48	27	7	0	244
1904...	19	42	42	58	36	18	5	0	219
1905...	19	43	40	61	37	19	3	0	222
1906...	18	42	37	60	44	20	4	1	226
1907...	20	45	43	62	42	19	4	0	232
1908...	19	46	42	57	35	17	5	0	221
Average of 6 years }	19	43	40	60	40	20	5	0	227

The similarity of the distribution of rainfall from year to year, according to daily amount, is as close in the case of Scotland as in England ; but 1908 differs from the earlier years in having had a greater number of days with less than ·10 in., and a smaller number between ·10 in. and ·99 in., than in any of the five previous years.

Ireland.*General Number of Days on which various amounts fell.*

Year.	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.	Total.
1903...	23	41	42	72	50	20	4	0	252
1904...	24	42	41	67	40	15	2	0	231
1905...	20	46	46	63	31	13	2	0	221
1906...	16	44	42	75	40	13	1	0	231
1907...	18	46	47	74	39	14	2	0	240
1908...	23	46	44	62	36	15	2	0	228
Average of 6 years	21	44	44	69	39	15	2	0	234

In Ireland, 1908 had more days with rainfall between ·01 in. and ·04 in. than in most previous years, and rather fewer days with ·10 in. to ·49 in., but the difference in the incidence of rain gauged by this test was not great.

Considering the British Isles as a whole the number of stations which never recorded so much as one inch of rain in a day was 22 out of the 73, a larger proportion than in any of the five years except 1905. This is quite in agreement with the absence of wide-spread falls of heavy rain which was referred to in the previous section. It is noteworthy that except in the two extreme years 1903 and 1904 the number of stations with one-inch falls occurring more than three and more than five times, has remained nearly the same, representing, no doubt, the stations which have a high rainfall normally, while the stations with one or two instances of one-inch falls may occur in any part of the country, even the driest, and the number naturally varies with the frequency of thunderstorms or of rainy cyclones.

Falls of 1·00 in. or more.

Number of Stations out of 73 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
1906.....	15	21	11	12	14
1907.....	16	17	12	15	13
1908.....	22	15	9	14	13

In the comparison of one part of the country with another the difference in the total number of rain days obscures the real relationships. We have accordingly calculated the proportional number of rain days for four typical stations, and for various portions of the British Isles, to the value they would have if the total number of

rain days were the same at each ; and the number selected is 206, the general number for the year. The result shows proportionally the smallest number of days with $\cdot 01$ in. at Dungeon Ghyll, which also has by far the largest number of days with more than one inch, being typical of a district favoured by frequent heavy rain, and differing completely from Ballinasloe, where the frequency of small falls is the leading feature. Similar contrasts, softened by the larger areas under consideration, are shown in the figures for the four divisions representing the driest parts of England, where the number of days with the smallest fall is greatest, and those for Wales and the Lake District, where it is least.

Frequency of Falls of Rain in 1908 reduced to 206 rain days.

	$\cdot 01$ in.	$\cdot 02$ — $\cdot 04$ in.	$\cdot 05$ — $\cdot 09$ in.	$\cdot 10$ — $\cdot 24$ in.	$\cdot 25$ — $\cdot 49$ in.	$\cdot 50$ — $\cdot 99$ in.	$1\cdot 00$ — $1\cdot 99$ in.	2·00 in. and over.
STATIONS.								
Camden Square.....	29	48	41	50	24	13	1	0
Dungeon Ghyll	9	37	33	33	33	36	20	5
Inveraray	20	27	38	47	28	35	11	0
Ballinasloe	37	50	30	48	29	11	1	0
GROUPS.								
England, I.—IV....	34	45	40	52	26	8	1	0
England and Wales	26	46	37	52	29	13	2	0
Wales & Lake Dist.	16	40	31	52	36	23	8	0
Scotland.....	18	43	39	53	32	16	5	0
Ireland	21	41	40	56	32	14	2	0
British Isles	23	44	38	53	31	14	3	0

Here we ought to correct a misconception which not unnaturally arose from the loose wording of the concluding paragraph of this section in *British Rainfall*, 1907, p [110], where we failed to make it clear that the groups of rainfall amounts $\cdot 01$, $\cdot 02$ — $\cdot 04$, $\cdot 05$ — $\cdot 09$, &c., are merely arbitrary, and not to be compared, *inter se*, as we might compare the frequencies of falls arranged in a uniform series of $\cdot 01$, $\cdot 02$, $\cdot 03$, &c. In most cases of moderate rainfall, in England and Wales at least, the most frequent value in a conscientiously kept record, where measurements are made by means of an accurate glass, is $\cdot 01$ in., and the frequency of each fall diminishes as the amount increases. We should be glad to receive analyses of long records giving the number of times that each reading of the rain glass has been recorded, but the labour of making such analyses is very great, and we cannot expect to get many.

Intensity of Daily Rainfall and Number of Rain Days at 73 Stations in 1908.

Div.	STATION.	Number of Days on which various amounts of Rain fell.								No. of Rain Days.	Total Rainfall.	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.												
I.	St. Pancras, Camden Square.....	22	37	31	38	18	10	1	0	157	23.67	in. .15
II.	Hythe, Hillcrest Road	33	31	33	42	22	10	2	0	173	25.75	in. .15
"	Brighton, Old Steyne.....	18	29	24	36	22	6	1	0	136	21.45	in. .16
"	Bournemouth, Kempsey	31	32	23	35	27	10	0	0	158	23.92	in. .16
III.	Basingstoke, Sherborne St. John.....	21	42	30	43	23	6	3	0	168	25.93	in. .15
"	Oxford, Magdalen College	24	41	34	33	22	6	2	0	162	21.82	in. .13
IV.	Blisworth, Grief House.....	50	37	39	39	16	10	0	0	191	21.85	in. .11
"	Colchester, Lexden.....	18	38	25	45	14	4	0	0	144	17.40	in. .12
"	Saffron Walden, Market Place.....	22	41	36	47	18	5	1	0	170	21.02	in. .12
"	Geldeston [Beccles]	39	37	37	48	19	3	0	0	183	19.44	in. .11
"	Swaffham	28	36	40	52	26	1	0	0	183	21.46	in. .12
V.	Bishops-Carmings	27	33	23	45	30	10	2	0	170	27.07	in. .16
"	Torquay, Cary Green.....	27	36	33	43	24	10	0	0	173	25.24	in. .15
"	Barnstaple, N. Devon Athenæum.....	11	48	43	66	25	9	0	0	202	28.35	in. .14
"	St. Austell, Trevarna.....	20	34	40	55	31	18	1	0	199	36.83	in. .19
VI.	Crewkerne, Merefield House	18	47	26	39	27	13	2	0	172	30.01	in. .17
"	Ross, The Graig	29	50	31	39	16	10	0	0	175	21.71	in. .12
VII.	Shifnal, Neachley	41	65	39	43	25	14	0	0	227	29.51	in. .13
"	Market Overton	29	53	51	50	15	7	1	0	206	23.08	in. .11
"	Louth, Westgate.....	19	45	35	52	21	7	0	0	179	23.12	in. .13
"	Worksop, Hodsock Priory	32	43	38	41	16	9	0	0	179	20.38	in. .11
VIII.	Chellaston.....	33	36	31	55	19	7	0	0	181	23.08	in. .13
"	Northenden, Wythenshawe	35	37	34	50	34	12	0	0	202	31.05	in. .15
IX.	St. Michael's-on-Wyre Vicarage	23	42	35	50	34	20	1	0	205	37.37	in. .18
"	Harrogate, Harlow Moor.....	28	48	40	53	27	6	0	0	202	26.01	in. .13
"	Sedburgh, Akay	14	25	30	55	53	24	8	2	211	63.07	in. .30
"	Lowthorpe, The Elms	15	67	33	49	22	6	0	0	192	22.69	in. .12
X.	Darlington, Hurworth Grange.....	11	50	36	45	19	5	0	0	166	20.96	in. .13

Intensity of Daily Rainfall and Number of Rain Days at 73 Stations in 1908—(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.	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	in.				
X.	ENGLAND & WALES—(con.)	45	66	34	42	22	6	0	0	215	22·94	in. ·11		
"	Morpeth, Bothalhaugh	15	40	49	54	27	13	0	0	198	30·22	·15		
"	Brampton, Denton House	12	48	43	43	43	48	26	7	270	109·73	·41		
XI.	Dungeon Ghyll	16	32	30	50	43	34	12	5	222	77·32	·35		
"	Treherbert, Tynywaun	13	33	27	72	38	27	7	0	217	53·53	·25		
"	Llanwrda, Dolaucothly	16	44	31	40	33	21	7	0	192	44·91	·23		
"	Haverfordwest, High Street	19	45	33	59	27	17	4	0	204	40·27	·20		
"	New Radnor, Ednol	8	42	29	52	44	24	8	0	207	53·57	·26		
"	Lake Vyrnwy	24	28	28	63	36	8	3	0	190	33·46	·18		
"	Denbigh, Garn	24	56	32	49	31	13	0	0	205	30·76	·15		
"	Llandudno													
XII.	SCOTLAND.													
"	Whithorn, Cutroach	5	42	40	65	34	12	3	0	201	37·38	·19		
"	Lincuden House [Dumfries]	21	64	37	56	44	15	3	0	240	41·66	·17		
XIII.	Hawick, Branxholme	11	49	51	66	22	8	1	0	208	29·02	·14		
XIV.	Edinburgh, Royal Observatory	22	45	42	40	13	5	2	0	169	21·27	·13		
XV.	Girvan, Pinmore	9	69	39	78	47	27	0	0	269	52·15	·19		
"	Buchlyvie, The Manse	47	37	37	54	43	22	5	0	245	50·29	·21		
"	Inveraray, Newtown	25	34	47	58	35	43	14	0	256	74·68	·29		
"	Strontian, Laudale	7	24	43	76	42	37	14	0	243	73·98	·30		
XVI.	Islay, Eallabus	16	49	41	69	61	17	3	0	256	51·22	·20		
"	Blair Atholl	25	39	40	53	32	12	0	0	201	31·35	·16		
XVII.	Dundee, Eastern Necropolis	30	64	41	37	20	5	3	0	200	25·39	·13		
"	Aberdeen, Cranford	9	59	44	46	23	10	2	1	194	30·56	·16		
"	Strathdon, School House	32	38	43	47	27	10	2	0	199	30·96	·16		
XVIII.	Keith	20	43	43	50	24	11	2	2	195	34·64	·18		
"	Fort Augustus, St. Benedict's	20	28	41	50	33	26	3	0	201	43·93	·22		
"	Loch Torridon, Bendamph	2	22	39	76	54	33	24	1	251	93·35	·37		

RAIN DAYS.

[121]

Intensity of Daily Rainfall and Number of Rain Days at 73 Stations in 1908—(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.	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.			
XVIII. XIX. " "	SCOTLAND—(con.)											
	Alness, Ardross Castle	26	57	48	42	38	13	2	1	227	39.47	in. .17
	Altnaharra	12	43	41	64	35	18	2	1	216	42.75	in. .20
	Thurso, Buckies	17	57	48	58	33	7	1	0	221	31.66	in. .14
XX. "	IRELAND.											
	Cork, The Palace	25	34	34	50	33	14	1	0	191	31.91	in. .17
	Darrynane Abbey	23	46	53	65	44	25	2	0	258	49.11	in. .19
	Glenmel, Bruce Villa	11	52	41	54	28	12	2	0	200	32.77	in. .16
	Glenties, Traverston	25	76	42	52	40	21	1	0	257	42.87	in. .17
	Miltown Malbay	45	48	39	69	37	16	4	1	259	44.78	in. .17
	Emisecorhy, Ballyhyland	48	39	44	53	38	14	7	0	243	43.74	in. .18
	Bray, Fassaroe	17	34	45	55	23	14	3	2	193	36.93	in. .19
	Abbey Leix, Blandsfort	35	43	41	64	28	16	2	0	229	36.51	in. .16
	Moynalty, Westland	12	55	42	60	34	11	3	0	217	35.82	in. .17
	Ballinasloe	45	62	37	59	36	13	1	0	253	34.90	in. .14
	Westport, St. Helen's	22	51	52	63	50	19	3	0	260	49.64	in. .19
	Collooney, Markree Observatory	16	31	50	80	44	21	0	1	243	47.26	in. .19
	Monaghan, Rowantree House	9	46	32	63	25	6	1	0	182	26.29	in. .14
	Banbridge, Milltown	15	61	47	58	28	8	1	0	218	30.58	in. .14
	Bushmills, Dundarave	9	31	47	75	36	12	0	0	210	37.10	in. .18
	Convooy	14	33	50	70	51	22	1	0	241	49.51	in. .21
XXIII. " " " " " "	ENGLAND & WALES (Mean)	24	42	34	48	27	12	2	0	189	32.37	in. .17
	SCOTLAND (")	19	46	42	57	35	17	5	0	221	43.98	in. .20
	IRELAND (")	23	46	44	62	36	15	2	0	228	39.36	in. .17
	BRITISH ISLES (")	23	44	38	53	31	14	3	0	206	36.92	in. .18

both Cork, 12.5

Glenties 12.5

Monaghan 12.5

Westport 12.5

Monaghan 12.5

Seaford 12.5

II.—Droughts in 1908.

It has been usual for many years to distinguish two classes of dry spells of weather, one in which no rain is recorded, the other when a long period has a very small rainfall. The two are defined thus:—

- I. The ABSOLUTE DROUGHT or period of *more than* 14 consecutive days no one of which is a rain day.
- II. The PARTIAL DROUGHT or period of *more than* 28 consecutive days the mean rainfall of which does not exceed .01 in. per day.

The study of droughts has been carried on by the use of a limited number of selected stations uniformly distributed over the country, and for many years 50 stations were employed for this purpose. Since 1903 a more uniform and slightly closer network of 73 stations has been employed, and the names of these are given in the foregoing Table of Intensity of Rainfall. All the stations at which droughts were recorded during the year are tabulated at the end of this section and particulars given of the date and duration of each drought. During 1908 the number of absolute droughts recorded was 54 at 38 stations, 23 of which registered one drought each, 14 registered two droughts each and one registered three. The number of partial droughts was 38 at 23 stations, of which 11 registered one partial drought, 9 registered two, and 3 registered three each. Compared with the five years available for the purpose the number of absolute droughts is seen to have been the greatest, but the number of partial droughts was exceeded in 1905.

Comparison of Droughts at 73 Stations.

	ABSOLUTE DROUGHTS.				PARTIAL DROUGHTS.			
	No. of Droughts at 73 Stations	Duration.		Stations without one.	No. of Droughts at 73 Stations	Duration.		Stations without one.
		Mean.	Greatest.			Mean.	Greatest.	
		days.	days.			days.	days.	
1903	16	19	25	57	24	34	41	51
1904	9	16	18	64	13	34	41	60
1905	19	17	20	54	43	36	48	44
1906	53	17	25	34	29	36	55	45
1907	41	19	25	37	22	32	41	52
1908	54	18	32	35	38	35	54	50

The comparison may be extended backwards to 1888 by calculating the proportional number of droughts at 50 stations corresponding to the actual number observed at 73. This is done in the following Table which shows that only six years out of the previous 20 have had more absolute droughts than 1908, while 9 years have had more partial droughts. The mean duration of the absolute droughts was the same as the average, but the mean duration of the partial droughts was two days less than the average.

Comparative Summary of Droughts.

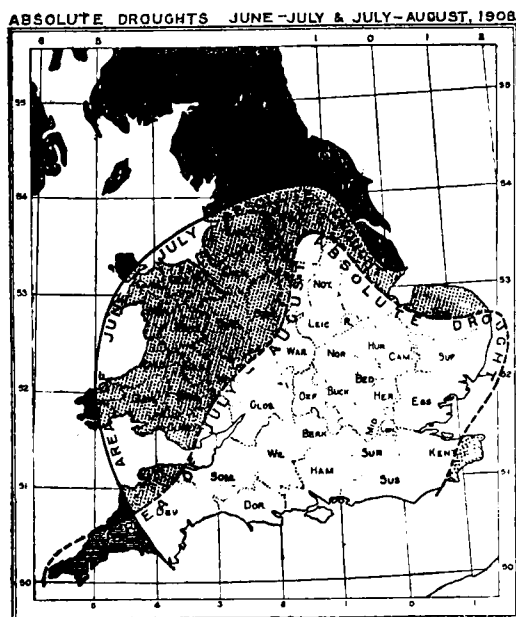
	ABSOLUTE DROUGHTS.				PARTIAL DROUGHTS.			
	No. of Droughts at 50 Stations	Duration.		Stations without one.	No. of Droughts at 50 Stations	Duration.		Stations without one.
		Mean.	Greatest.			Mean.	Greatest.	
		days.	days.			days.	days.	
1888	17	17	20	35	4	42	50	46
1889	42	21	30	13	38	34	45	15
1890	13	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
1905*	13	17	20	37	29	36	48	30
1906*	36	17	25	23	20	36	55	31
1907*	28	19	25	26	15	32	41	36
Mean	29	18	25	27	24	37	55	30
1908*	37	18	32	24	26	35	54	34
Diff.	+8	0	+7	-3	+2	-2	-1	+4

* Reduced to value of 50 stations for comparison.

The study of droughts requires account to be taken of the dates and the extent of the area affected by each continuous spell of dry weather, and on looking at the dates recorded in the Table which concludes this section we see that three of these are represented at one station only ; April 7th-21st at Bishops Cannings, May 24th-June 10th at Cork and October 20th-November 10th at Fort

Augustus. These may consequently be considered as of local interest only, affecting small areas; and only that at Fort Augustus was included in a long-continued partial drought.

There remain two dates for all the other droughts, 35 of which are entered to June-July, and 16 to July-August. The June-July drought commenced between June 16th and 19th in England, but between the 18th and 27th in Scotland and Ireland, and it ended between July 2nd and 6th in England, and between the 6th and 11th elsewhere. The average duration was 17 days, the shortest 15 days, at nine stations, the longest 21 days, at two. It prevailed over the greater part of England and Wales excepting Cornwall, Pembroke and the north of England beyond the Ribble and the Ouse. It also occurred in isolated areas in the south-east and the north-east of Scotland. At six stations in the south-west of England this drought was included in a partial drought of more than a month's duration, accounting for a substantial diminution of the annual rainfall. The widespread character of the dearth of rain in June-July is shown by the continuous lines on the accompanying map.



The second important absolute drought commenced between July 18th and 24th, and terminated between August 3rd and 18th, the duration varying from 15 to 32 days. It prevailed in the south of England, and extended northward as far as Worksop, but did not enter Wales. It lay entirely within the area of the June-July drought, except that it included Cornwall, and its area is shown clearly on the map. It was included at almost all stations in a partial drought of from 33 to 36 days' duration, and at

every station but one it followed the absolute drought of June. The result of these two droughts was an exceedingly dry summer in the south and south-west of England, where in some districts the want of rain was severely felt.

The only partial droughts not associated with the two summer

absolute droughts were those of January-February in the eastern Midlands, and a very circumscribed instance at Edinburgh in December.

The map showing the distribution of droughts, and shaded to indicate the region where no droughts were recorded, is remarkably similar to that of 1907, so similar, indeed, as respects the sharper inflections in Ireland and Scotland as to cause some anxiety lest the measuring glasses in use at some of the stations are not exactly uniform in their graduation ; but its most remarkable feature is the great preponderance of droughts, both absolute and partial, along a broad strip of the extreme south of England.

Droughts in 1908.

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Amount.
			Days			Days	in.
ENGLAND & WALES.							
St. Pancras (Camden Square) ... <i>London, North.</i>	June 18 July 19	July 2 Aug. 4	15 17	Sep. 4	Oct. 8	35	·31
Hythe (Hillcrest Road) <i>Kent, East.</i>	June 17	July 2	16	None			
Brighton (Old Steyne)..... <i>Sussex, East.</i>	June 17 July 19	July 6 Aug. 4	20 17	Jan. 8 July 17	Feb. 15 Aug. 19	39 34	·35 ·13
Bournemouth (Kempsey) <i>Hampshire.</i>	June 17 July 18	July 6 Aug. 18	20 32	Jan. 8 June 2 July 17	Feb. 14 July 7 Aug. 19	38 36 34	·30 ·14 ·18
Basingstoke (Sherborne St. John) <i>Hampshire.</i>	June 18 July 18	July 6 Aug. 4	19 18	July 18	Aug. 21	35	·33
Oxford (Magdalen College) <i>Oxfordshire.</i>	June 18 July 19	July 3 Aug. 4	16 17	Jan. 8 July 17	Feb. 15 Aug. 19	39 34	·26 ·25
Blisworth (Crieff House)..... <i>Northamptonshire.</i>	June 18 July 19	July 6 Aug. 4	19 17	Jan. 8 July 18	Feb. 14 Aug. 19	38 33	·31 ·19
Colchester (Lexden)..... <i>Essex.</i>	June 18 July 19	July 2 Aug. 3	15 16	Jan. 8 July 18 Sep. 12	Feb. 14 Aug. 19 Oct. 15	38 33 34	·32 ·26 ·34
Saffron Walden..... <i>Essex.</i>	June 18 July 21	July 2 Aug. 4	15 15	Jan. 10	Feb. 14	36	·35
Geldeston [Beccles]..... <i>Norfolk.</i>	June 18 July 19	July 3 Aug. 3	16 16	July 18	Aug. 19	33	·25

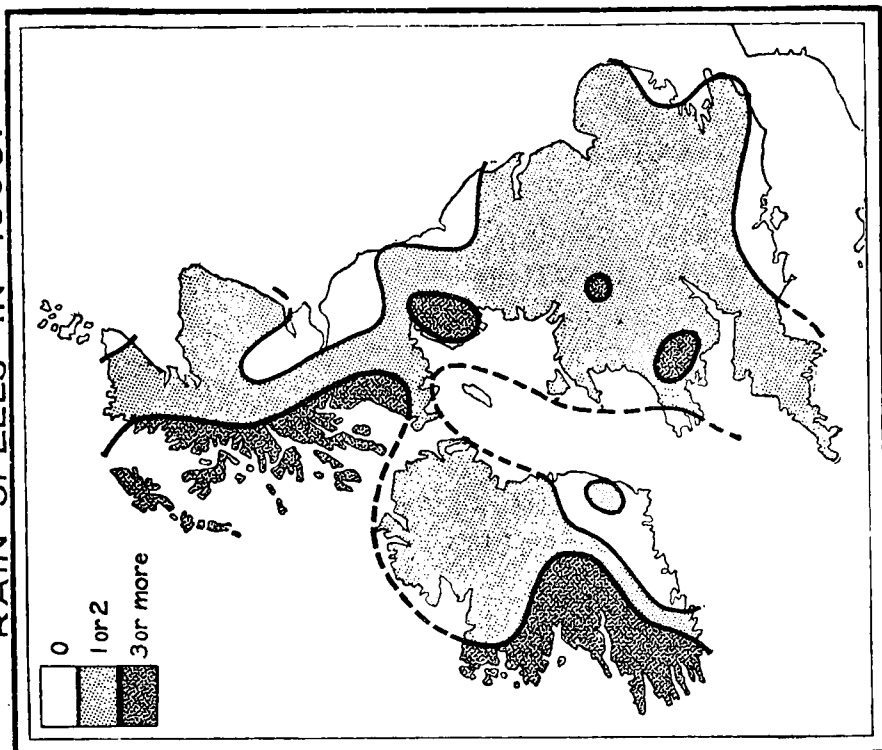
Droughts in 1908—(continued).

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Last- ed.	Began.	Ended.	Last- ed.	Amount.
ENGLAND & WALES—(con.)			Days			Days	in.
Swaffham <i>Norfolk.</i>	June 18	July 2	15	None			
Bishops Cannings..... <i>Wiltshire.</i>	Apr. 7 June 16 July 19	Apr. 21 July 6 Aug. 12	15 21 25	June 4 July 17	July 7 Aug. 21	34 36	·28 ·32
Torquay (Cary Green)..... <i>Devon, South.</i>	June 17 July 18	July 6 Aug. 18	20 32	May 15 July 16	July 7 Aug. 18	54 34	·52 ·34
Barnstaple (N. Devon Athenæum) <i>Devon, North.</i>	June 16	July 6	21	June 8 July 17	July 6 Aug. 19	29 34	·28 ·26
St. Austell (Trevarna)..... <i>Cornwall.</i>	July 25	Aug. 12	19	May 26 July 17	Jun. 29 Aug. 18	35 33	·34 ·27
Crewkerne (Merefield House) ... <i>Somerset, South.</i>	June 17 July 18	July 6 Aug. 18	20 32	Jan. 8 June 9 July 17	Feb. 12 July 7 Aug. 20	36 29 35	·34 ·28 ·30
Ross (The Graig) <i>Herefordshire.</i>	June 18 July 25	July 6 Aug. 9	19 16	July 17	Aug. 21	36	·36
Shifnal (Neachley) <i>Shropshire.</i>	June 19	July 6	18	None			
Market Overton <i>Rutland.</i>	June 18 July 20	July 2 Aug. 3	15 15	None			
Louth, Westgate..... <i>Lincolnshire.</i>	None			Sep. 23	Oct. 22	30	·26
Worksop (Hodsock Priory) <i>Nottinghamshire.</i>	June 18 July 18	July 3 Aug. 3	16 17	July 18	Aug. 19	33	·24
Chellaston <i>Derbyshire.</i>	June 18	July 4	17	None			
Northenden (Wythenshawe)..... <i>Cheshire.</i>	June 18	July 4	17	None			
Harrogate (Harlow Moor) <i>Yorkshire, W.R. (N.)</i>	June 18	July 3	16	July 18	Aug. 19	33	·33
Lowthorpe (The Elms) <i>Yorkshire, E.R.</i>	None			July 19	Aug. 16	29	·27
Darlington (Hurworth Grange)... <i>Durham.</i>	None			Jan. 9 July 18	Feb. 15 Aug. 19	38 33	·24 ·30
Treherbert (Tyn-y-waun) <i>Glamorganshire.</i>	June 20	July 6	17	None			

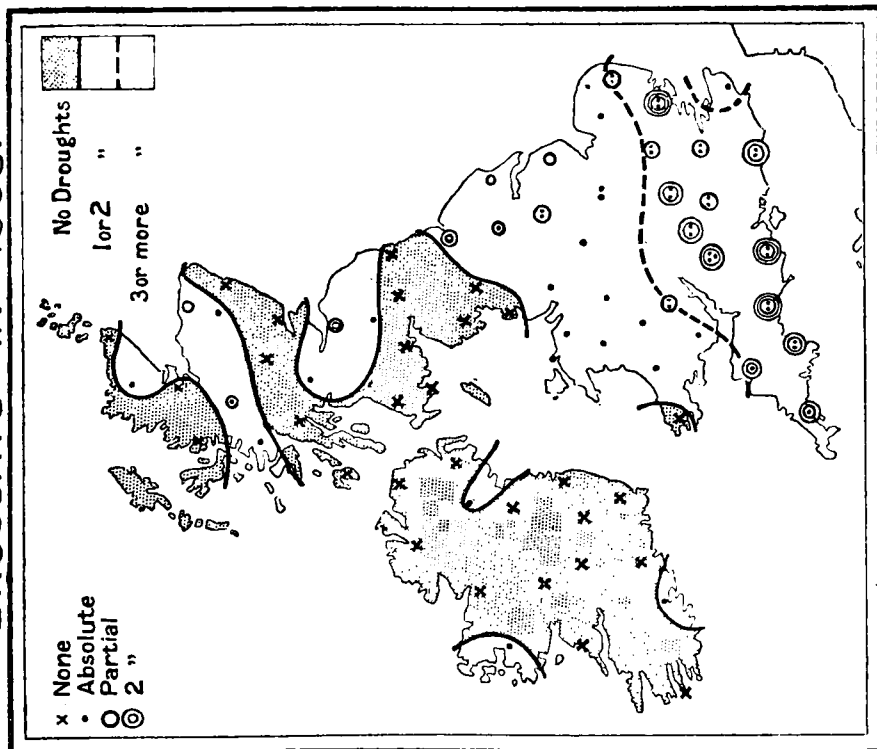
Droughts in 1908—(continued).

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Lasted.	Began.	Ended.	Lasted.	Amount.
ENGLAND & WALES—(con.)			Days			Days	in.
Llanwrda (Dolaucothy) <i>Carmarthenshire.</i>	June 17	July 6	20	None			
New Radnor (Ednol) <i>Radnorshire.</i>	June 18	July 3	16	None			
Lake Vyrnwy <i>Montgomeryshire.</i>	June 20	July 6	17	None			
Denbigh (Garn) <i>Denbighshire.</i>	June 18	July 6	19	None			
Llandudno <i>Carnarvonshire.</i>	June 18	July 6	19	None			
SCOTLAND.							
Hawick (Branxholme)..... <i>Roxburgh.</i>	June 20	July 7	18	None			
Edinburgh (Royal Observatory)... <i>Midlothian.</i>	None			July 26 Nov. 26	Aug. 23 Dec. 31	29 36	·26 ·25
Buchlyvie (The Manse) <i>Stirlingshire.</i>	June 23	July 7	15	None			
Strontian (Laudale)..... <i>Argyll, Mainland.</i>	June 23	July 7	15	None			
Strathdon (School House) <i>Aberdeenshire.</i>	June 20	July 6	17	None			
Keith Station <i>Banffshire.</i>	None			Sep. 17	Oct. 25	39	·36
Fort Augustus (St. Benedict's) ... <i>East Inverness.</i>	Oct. 20	Nov. 10	22	Oct. 11	Nov. 10	31	·07
Altnaharra <i>Sutherland.</i>	June 27	July 11	15	None			
IRELAND.							
Cork (The Palace) <i>Cork.</i>	May 24	Jun. 10	18	None			
Westport (St. Helens) <i>Mayo.</i>	June 22	July 6	15	None			
Monaghan (Rowantree House) ... <i>Monaghan.</i>	June 18	July 6	19	None			

RAIN SPELLS IN 1908.



DROUGHTS IN 1908.



III.—Rain Spells.

When introducing the special study of runs of rain days in 1903, we defined a rain spell in strict numerical analogy with a drought, though quite aware that there was no very substantial reason for doing so. We should have liked to have arrived at such a definition of a rain spell as would have secured equal frequency on the average with droughts, and the experience of six years suggests that we should have fixed the limit higher by a few days, in order to approximate to that result. We shall, however, continue for the present to adopt the limits used for the last five years, postponing any change until a few more years' experience is available. The definition, therefore, remains :—

A RAIN SPELL is a period of *more than* 14 consecutive days, every one of which is a rain day.

The comparative Table of rain spells in the six years for which they have now been studied shows that in 1908 they were recorded to the number of 116 at the 73 stations, a rather smaller number than in 1907, much smaller than in 1903, but more than in the other years. The occurrence of the rain spells was more widespread than in any year but 1903, as only 15 of the 73 stations failed to record any, these being on the south-east coasts of Ireland and Scotland, and on the east and south coasts of England. No less than 43 of the 73 stations experienced one or two rain spells, nine had three or four in the north-west of England, Wales, the west of Scotland and the west of Ireland ; and six stations, one in the Lake District, one in the south-west of Ireland and four in the west of Scotland, had five rain spells or more. The mean duration of the spells was 19 days, a trifle below the average, and the mean daily amount of rain in the spells, .24 in., was also a shade below the average.

The sketch map illustrating the distribution of rain spells shows that three or more had been reported over a considerably smaller area than in 1907, but on the other hand the region in which no rain spell had occurred was very much smaller also. Rain spells of more than 30 days were reported from Scotland only and numbered four, one of 34 days at Pinmore ; one of 39 days at Laudale, including the whole month of February ; and two at Bendamph, 49 days including the whole of February, and 42 days in November-December.

As regards dates of occurrence rain spells were reported in every month of the year, though curiously enough October was only

Comparative Table of Rain Spells at 73 Stations.

Year.	No. of Rain Spells.	DURATION OF SPELLS.				STATIONS WITH			
		Mean.		Greatest.		None.	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
1906...	91	21	·25	50	·40	28	34	8	3
1907...	129	21	·25	45	·17	28	22	13	10
1908...	116	19	·24	49	·43	15	43	9	6

included at one station and only to the extent of one day. They refer to 10 periods ; but on only four occasions were more than five stations affected at the same time. In December 13 stations were affected in the west of Great Britain from Cornwall to Ross-shire, and in Ireland ; and in April–May 13 stations in the same districts, but on the whole further north.

The only widespread rain spells occurred in early spring and autumn. The former affected 43 stations in February and March, and appears to have prevailed over Ireland except the south-east, over the east and the west of Scotland leaving a broad strip unaffected between the Moray and the Solway Firths, and over the greater part of England excepting a few stations in the north, the whole area south of the Thames valley and some parts of the Midlands. The mean duration of the rain spells was between 19 and 20 days, the duration being greatest in the north where it yielded two of the longest rain spells of the year, 39 and 49 days. In most cases they terminated between the 2nd and 12th of March. The autumn rain spell was felt at 27 stations, and, in addition to a few isolated points, these were grouped in the west of Ireland, and in a broad band running from the west to the north of England through the region where the two droughts of the previous two months had been most severely felt. The mean duration of this rain spell was 17 days, and in most places it terminated on September 3rd or 4th.

The true measure of the severity of a rain spell is less the number of days with any rain than the average amount of rain on each day of the duration. We have as usual prepared a Table giving particulars of all the rain spells reported which had a mean fall of more than ·40 in. per day, and of the 14 which we quote five had more than

half an inch each day. The most remarkable was Tyn-y-waun in South Wales where 11·38 in. fell on 16 consecutive days from August 20th to September 4th at the rate of ·71 in. per day ; but as this was helped by the great fall of 2·56 in. on one day we must look upon the record of 10·56 in. in 17 days from September 12th–28th at Dungeon Ghyll as no less remarkable, for it gave a mean rate of ·62 in. per day, and the wettest day had only 1·58 in.

Rain Spells of a Mean Rate of ·40 in. or more per day in 1908.

Div.	Station.	Began.	Ended.	Lasted.	Total Fall.	Rain per Day.		
						Max.	Min.	Mean.
				days.	in.	in.	in.	in.
IX.	Sedbergh	Aug. 20	Sept. 10	22	9·24	2·28	·01	·42
X.	Dungeon Ghyll ...	Feb. 13	Mar. 2	19	7·53	1·20	·02	·40
"	" " ...	July 4	July 18	15	6·42	1·78	·03	·43
"	" " ...	Sept. 12	Sept. 28	17	10·56	1·58	·02	·62
"	" " ...	Nov. 14	Nov. 29	16	7·16	1·20	·04	·45
XI.	Tyn-y-waun	Aug. 20	Sept. 4	16	11·38	2·56	·01	·71
"	Dolaucothy	Aug. 20	Sept. 3	15	6·70	1·55	·04	·45
XV.	Inveraray	Mar. 22	Apr. 5	15	6·50	1·20	·01	·43
"	Strontian	Nov. 15	Nov. 29	15	6·10	1·18	·01	·41
"	" "	Dec. 3	Dec. 22	20	8·18	1·56	·01	·41
XVIII.	Bendamph	Jan. 22	Mar. 10	49	21·09	1·97	·05	·43
"	" " ...	Mar. 21	Apr. 4	15	8·50	1·85	·10	·57
"	" " ...	Sept. 4	Sept. 18	15	7·74	1·12	·02	·52
"	" " ...	Nov. 11	Dec. 22	42	21·69	2·43	·02	·52

Table of Rain Spells, 1908.

STATION & COUNTY.	Began.	Ended.	Lasted.	Total Rain.	RAIN PER DAY.		
					Max.	Min.	Mean
ENGLAND & WALES.			Days	in.	in.	in.	in.
St. Pancras (Camden Square)... <i>London, North.</i>	Aug. 20	Sep. 4	16	3·58	·73	·01	·22
Hythe (Hillcrest Road) <i>Kent, East.</i>	Feb. 24	Mar. 10	16	1·88	·50	·01	·12
Basingstoke (Sherborne S. John) <i>Hampshire.</i>	Aug. 19	Sep. 4	17	4·28	1·19	·01	·25
Oxford (Magdalen College) ... <i>Oxfordshire.</i>	Aug. 20	Sep. 4	16	3·36	·64	·01	·21
Blisworth (Crieff House)..... <i>Northamptonshire.</i>	Feb. 22	Mar. 8	16	1·44	·45	·01	·09
Saffron Walden (Market Place) <i>Essex.</i>	Feb. 22	Mar. 10	18	1·66	·32	·01	·09
Geldeston [Beccles] <i>Norfolk.</i>	Feb. 24	Mar. 12	18	2·29	·38	·01	·13
Swaffham <i>Norfolk.</i>	Feb. 24 Aug. 20	Mar. 12 Sep. 4	18 16	1·77 2·37	·22 ·47	·01 ·01	·10 ·15
Bishops Cannings..... <i>Wiltshire.</i>	Aug. 20	Sep. 4	16	5·07	1·04	·02	·32
Torquay (Cary Green)..... <i>Devon, South.</i>	Aug. 19 Dec. 4	Sep. 3 Dec. 18	16 15	4·28 2·11	·85 ·37	·01 ·01	·27 ·14
Barnstaple (N Devon Athenæum) <i>Devon, North.</i>	Aug. 19 Dec. 8	Sep. 4 Dec. 22	17 15	3·34 2·61	·53 ·52	·02 ·02	·20 ·17
St. Austell (Trevarna)..... <i>Cornwall.</i>	Aug. 19 Dec. 2	Sep. 3 Dec. 21	16 20	5·60 2·98	·81 ·51	·05 ·01	·35 ·15
Crewkerne (Merefield House)... <i>Somerset, South.</i>	Aug. 19	Sep. 4	17	3·89	1·39	·01	·23
Ross (The Graig) <i>Herefordshire.</i>	Aug. 20	Sep. 4	16	3·48	·87	·01	·22
Shifnal (Neachley) <i>Shropshire.</i>	Feb. 13 Aug. 20 Dec. 3	Mar. 2 Sep. 4 Dec. 20	19 16 18	1·48 3·89 1·67	·24 ·88 ·57	·01 ·01 ·01	·08 ·24 ·09
Market Overton <i>Rutland.</i>	Nov. 28	Dec. 20	23	1·32	·22	·01	·06
Louth (Westgate)..... <i>Lincolnshire.</i>	Feb. 21	Mar. 12	21	2·47	·41	·01	·12
Worksop (Hodsock Priory) ... <i>Nottinghamshire.</i>	Feb. 20	Mar. 10	20	2·19	·31	·01	·11

Table of Rain Spells, 1908—(continued).

STATION & COUNTY.	Began.	Ended.	Lasted.	Total Rain.	RAIN PER DAY.		
					Max.	Min.	Mean
ENGLAND & WALES—(con.)			Days	in.	in.	in.	in.
Chellaston	Feb. 22	Mar. 10	18	1·71	·30	·01	·10
Derbyshire.	Aug. 20	Sep. 4	16	3·83	·70	·01	·24
Northenden (Wythenshawe) ...	Feb. 13	Mar. 2	19	2·38	·42	·01	·13
Cheshire.	Aug. 20	Sep. 3	15	3·38	·74	·01	·23
St. Michael's-on-Wyre Vicarage	Feb. 13	Feb. 28	16	1·97	·55	·01	·12
Lancashire, North.	Apr. 22	May 9	18	4·31	·72	·01	·24
Harrogate (Harlow Moor)	Aug. 20	Sep. 3	15	2·05	·56	·01	·14
Yorkshire, W.R. (N.)							
Sedbergh (Akay)	Aug. 20	Sep. 10	22	9·24	2·28	·01	·42
Yorkshire, W.R. (N.)							
Lowthorpe (The Elms)	Feb. 15	Mar. 2	17	1·97	·43	·01	·12
Yorkshire, E.R.							
Morpeth (Bothalhaugh)	Feb. 25	Mar. 10	15	2·67	·79	·01	·18
Northumberland.							
Brampton (Denton House)	Feb. 13	Mar. 2	19	2·53	·62	·01	·13
Cumberland.	Apr. 22	May 9	18	2·85	·55	·01	·16
	Aug. 23	Sep. 10	19	4·88	·87	·01	·26
Dungeon Ghyll	Feb. 13	Mar. 2	19	7·53	1·20	·02	·40
Westmorland.	Mar. 18	Apr. 4	18	5·54	·90	·02	·31
	May 2	May 26	25	5·82	1·06	·01	·23
	July 4	July 18	15	6·42	1·78	·03	·43
	Sep. 12	Sep. 28	17	10·56	1·58	·02	·62
	Nov. 14	Nov. 29	16	7·16	1·20	·04	·45
	Dec. 7	Dec. 24	18	6·90	1·29	·03	·38
Treherbert (Tyn-y-waun)	Feb. 13	Mar. 4	21	6·65	1·44	·01	·32
Glamorganshire.	Aug. 20	Sep. 4	16	11·38	2·56	·01	·71
	Dec. 3	Dec. 23	21	7·54	1·41	·01	·36
Llanwrda (Dolaucothy)	Feb. 13	Mar. 3	20	4·00	·45	·02	·20
Carmarthenshire.	Aug. 20	Sep. 3	15	6·70	1·55	·04	·45
	Dec. 3	Dec. 22	20	5·81	1·10	·01	·29
Lake Vyrnwy	Feb. 13	Feb. 28	16	4·38	·96	·02	·27
Montgomeryshire.	Dec. 3	Dec. 23	21	4·36	·82	·02	·21
Denbigh (Garn)	Feb. 13	Feb. 28	16	2·32	·43	·01	·15
Denbighshire.							
Llandudno	Feb. 13	Feb. 28	16	2·91	·53	·02	·18
Carnarvonshire.	Aug. 20	Sep. 3	15	2·58	·53	·01	·17
SCOTLAND.							
Lincluden House [Dumfries] ...	Feb. 13	Feb. 29	17	3·40	·87	·01	·20
Kirkcudbright.	Apr. 24	May 21	28	4·51	·44	·02	·16

Table of Rain Spells, 1908—(continued).

STATION & COUNTY.	Began.	Ended.	Lasted.	Total Rain.	RAIN PER DAY.		
					Max.	Min.	Mean
SCOTLAND—(con.)			Days	in.	in.	in.	in.
Girvan (Pinmore)	Jan. 23	Feb. 11	20	2·66	·64	·02	·13
<i>Ayrshire.</i>	Feb. 13	Mar. 3	20	3·73	·70	·02	·19
	Apr. 27	May 20	24	3·14	·34	·01	·13
	Aug. 20	Sep. 22	34	8·04	·92	·01	·24
	Nov. 15	Nov. 30	16	4·95	·99	·02	·31
Buchlyvie (The Manse)	May 3	May 21	19	2·97	·84	·01	·16
<i>Stirlingshire.</i>							
Inveraray (Newtown)	Feb. 10	Mar. 2	22	5·05	·97	·01	·23
<i>Argyll, Mainland.</i>	Mar. 22	Apr. 5	15	6·50	1·20	·01	·43
	Apr. 28	May 12	15	2·15	·80	·01	·14
	Sep. 11	Oct. 1	21	7·08	1·88	·01	·34
	Nov. 15	Nov. 29	15	5·46	·98	·01	·36
Strontian (Laudale).....	Jan. 22	Feb. 29	39	10·52	·90	·01	·27
<i>Argyll, Mainland.</i>	Apr. 27	May 13	17	2·67	·60	·01	·16
	Nov. 15	Nov. 29	15	6·10	1·18	·01	·41
	Dec. 3	Dec. 22	20	8·18	1·56	·01	·41
Islay (Eallabus).....	Jan. 25	Feb. 9	16	2·58	1·00	·01	·16
<i>Argyll, Insular.</i>	Feb. 11	Feb. 29	19	3·72	·55	·01	·20
	Apr. 27	May 12	16	2·43	·36	·03	·15
	Sep. 4	Sep. 20	17	4·95	·74	·03	·29
	Dec. 3	Dec. 23	21	5·46	·82	·01	·26
Dundee (Eastern Necropolis)...	Feb. 24	Mar. 10	16	1·47	·30	·01	·09
<i>Forfarshire.</i>							
Aberdeen (Cranford)	Feb. 22	Mar. 12	20	3·17	·48	·01	·16
<i>Aberdeenshire.</i>							
Strathdon (School House)	Feb. 21	Mar. 10	19	4·81	1·18	·02	·25
<i>Aberdeenshire.</i>							
Keith Station	Aug. 29	Sep. 17	20	7·00	2·62	·01	·35
<i>Banffshire.</i>							
Fort Augustus (St. Benedict's)	Aug. 31	Sep. 17	18	4·65	1·09	·01	·26
<i>West Inverness-shire.</i>							
Loch Torridon (Bendamph) ...	Jan. 22	Mar. 10	49	21·09	1·97	·05	·43
<i>West Ross-shire.</i>	Mar. 21	Apr. 4	15	8·50	1·85	·10	·57
	June 1	June 18	18	6·52	1·04	·09	·36
	Sep. 4	Sep. 18	15	7·74	1·12	·02	·52
	Nov. 11	Dec. 22	42	21·69	2·43	·02	·52
Alness (Ardross Castle)	Feb. 14	Mar. 3	19	5·82	1·43	·01	·31
<i>East Ross-shire.</i>							
Altnaharra.....	Feb. 13	Mar. 2	19	6·93	1·22	·02	·36
<i>Sutherland.</i>							

Table of Rain Spells, 1908—(continued).

STATION & COUNTY.	Began.	Ended.	Lasted.	Total Rain.	RAIN PER DAY.		
					Max.	Min.	Mean
IRELAND.							
			Days	in.	in.	in.	in.
Darrynane Abbey.....	Feb. 13	Mar. 2	19	4·03	1·23	·03	·21
<i>Kerry.</i>	Mar. 21	Apr. 4	15	3·22	·81	·01	·21
	Apr. 20	May 5	16	2·30	·88	·01	·14
	Aug. 20	Sep. 3	15	5·31	·79	·06	·35
	Dec. 16	Dec. 31	16	4·05	·70	·03	·25
Nenagh (Traverston)	Jan. 12	Jan. 30	19	3·27	·63	·01	·17
<i>Tipperary.</i>	Feb. 13	Mar. 2	19	2·38	·57	·02	·13
	Aug. 20	Sep. 3	15	5·16	1·06	·03	·34
	Dec. 3	Dec. 23	21	3·41	·53	·01	·16
Miltown Malbay	Jan. 22	Feb. 11	21	2·02	·36	·01	·10
<i>Clare.</i>	Feb. 13	Mar. 2	19	2·44	·62	·01	·13
	Aug. 20	Sep. 3	15	5·56	2·14	·03	·37
Enniscorthy (Ballyhyland).....	Feb. 13	Feb. 28	16	2·12	·44	·01	·13
<i>Wexford.</i>	Aug. 20	Sep. 4	16	6·00	1·49	·01	·38
Moynalty (Westland)	Feb. 13	Mar. 1	18	2·66	·47	·03	·15
<i>Meath.</i>							
Ballinasloe.....	Feb. 13	Feb. 29	17	1·91	·47	·01	·11
<i>Galway.</i>	May 2	May 25	24	3·36	·55	·01	·14
	Dec. 3	Dec. 22	20	2·71	·40	·01	·14
Westport (St. Helen's)	Feb. 13	Mar. 10	27	5·15	·49	·01	·19
<i>Mayo.</i>	May 4	May 18	15	2·18	·38	·03	·15
	Aug. 20	Sep. 3	15	4·55	·97	·01	·30
Collooney(MarkreeObservat'ry)	Feb. 13	Mar. 2	19	4·31	·48	·01	·23
<i>Sligo.</i>							
Monaghan (Rowantree House).	Feb. 13	Mar. 1	18	1·66	·37	·01	·09
<i>Monaghan.</i>							
Banbridge (Milltown)	Feb. 14	Feb. 29	16	1·54	·40	·01	·10
<i>Down.</i>							
Bushmills (Dundarave)	Feb. 14	Feb. 29	16	2·46	·38	·02	·15
<i>Antrim.</i>							
Convoy	Feb. 13	Mar. 2	19	4·19	·52	·02	·22
<i>Donegal.</i>	May 2	May 18	17	2·15	·40	·01	·13

MONTHLY RAINFALL OF 1908.

FOR many years we have cherished the hope of being in a position, sometime in the future, to improve the discussion of the rainfall of the months by placing a map of the actual distribution of rainfall side by side with the map showing the difference from the average, and at last we are able to do so. The opportunity seems to be favourable for looking backward at the steps by which this section, always the most promising, and now, we believe, the most satisfactory in the volume, has reached its present state.

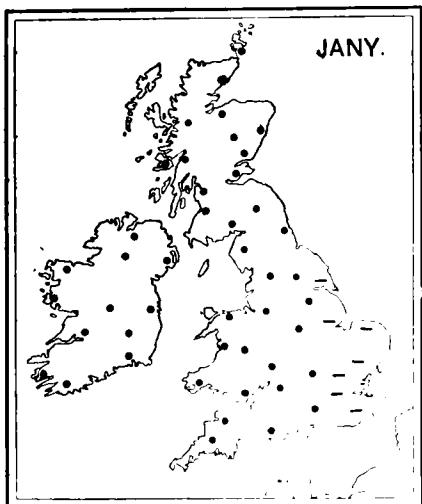
Until 1865 *Symons's Rainfall Circular*, issued monthly, was bound up with the annual volume of *British Rainfall*, and gave a monthly table of rainfall at 40 stations, stating only the total for the month, the number of rain days, and the rainfall of the wettest day. When the *Rainfall Circular* was enlarged in 1866 to form *Symons's Meteorological Magazine*, this Table was no longer reprinted in *British Rainfall*; but a condensed Table of total monthly rainfall at 60 stations took its place, compressed into two pages of small type, with no explanatory letterpress. In 1867 the Table was reduced in size, and enlarged in type, so that only 36 stations were included, but two pages of comment were added, giving for each month a few words about the relation of the rainfall to the average. In 1868 the letterpress was cut down to one page, but a page of Tables was added giving the monthly percentage of rain at the 36 stations, not the percentage to the average, but the percentage of the total annual fall for the year at the particular stations concerned. In 1871 the section was increased in length to 18 pages, in deference to the suggestion of Observers, though Mr. Symons states, with much emphasis, that in his own opinion the monthly values were given in sufficient detail in earlier volumes. The Table was now enlarged to include 106 stations, an effort being made to represent each county by at least one station, the list of "monthly percentages" was similarly extended, and in addition notes were based on maps showing the monthly averages for five years 1860-65, on which the actual readings for 1871 had been entered. The maps themselves were not reproduced. In 1872 the first map appeared dealing with the

November rainfall of the south-east of England, which was exceptional even in that exceptional year, the wettest in our annals. The next change took place in 1875, the year after the British Association ceased to support the Rainfall Organization, when Mr. Symons was making the great effort which proved so successful in inducing the rainfall Observers to act together, without depending on the uncertain patronage of learned societies. The suggestion had been made in the course of a review in *Nature* that *British Rainfall* would be much more useful if the monthly totals were published for all the 1700 stations dealt with in 1874. Mr. Symons considered that apart from considerations of time and expense (then, and still more now, insurmountable obstacles to printing all the monthly data received) it was sufficient to publish monthly values for a selection of stations, distributed as uniformly as possible over the whole country, at the rate of one station to each 500 square miles, no longer attempting to represent each county separately. This would place the stations about 23 miles apart. He felt justified in doing this because the withdrawal of the British Association from co-operation in the work relieved him of the labour of preparing an exhaustive annual report for that body, and gave him time to draw up an annual Table of monthly values at 245 stations. The number was reduced a few years later to 232, and the form of the Table has been continued unchanged to the present day; any fluctuations in the number of stations quoted having been dictated by the paramount importance of keeping the points as nearly equidistant as possible over the three kingdoms. In 1879 little maps showing the difference of the monthly rainfall from the average were first inserted. These maps measured about $1\frac{3}{4}$ in. \times $1\frac{1}{2}$ in., and the position of 30 stations was shown by a dot if the rain were within one inch of the average, by a — when it was more than an inch below the average, and by a + when it was more than an inch above the average. The method was crude; but it gave a rough approximation to the fluctuations of rainfall, especially in those parts of the country where the average monthly rainfall did not greatly differ from 2·00 in., there an inch more or less meant a very wet or very dry month; but of course the difference of an inch at Seathwaite, with a monthly average of more than 10 inches, was a much less significant matter. These rough maps continued to be published on this principle, though with more stations, for 22 years.

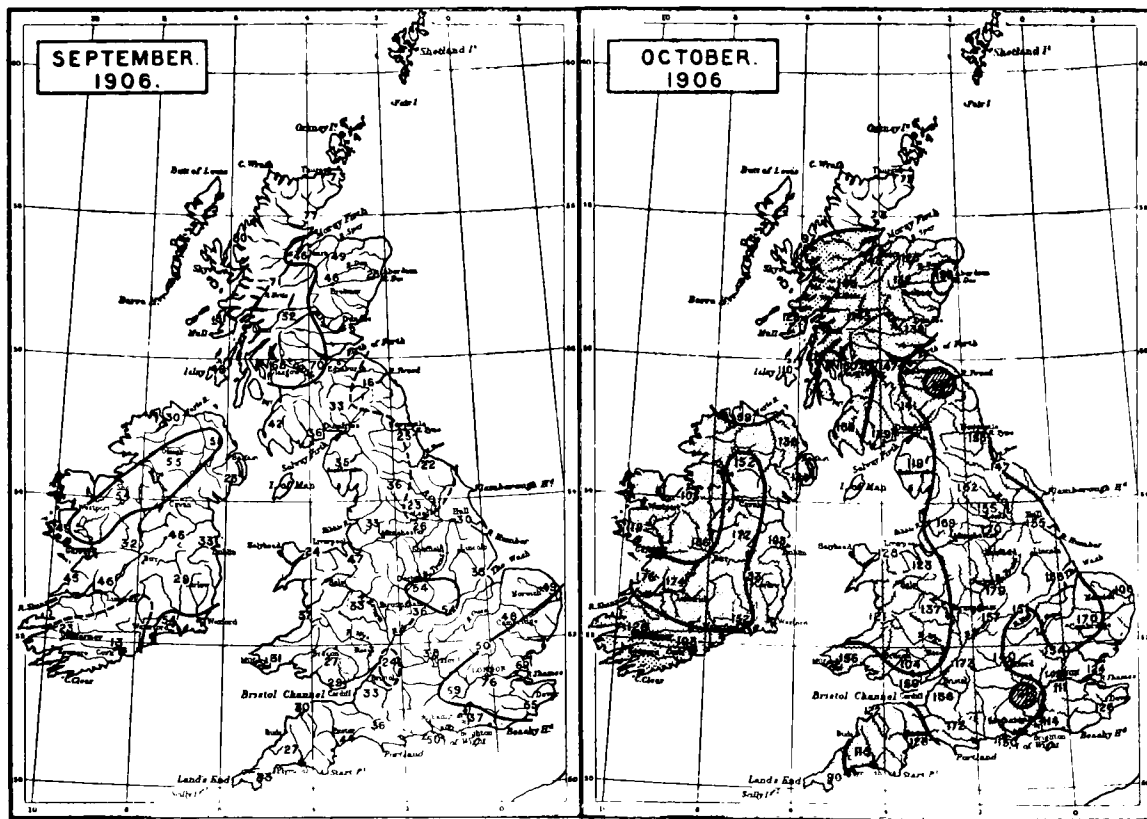
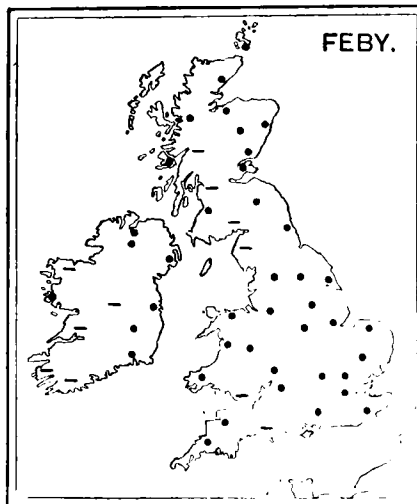
The experiment was made in 1884 and 1885 of presenting the



1879



1902



SPECIMENS OF MONTHLY RAINFALL MAPS.

monthly rainfall in the form of columns, showing the percentage of the annual fall in each month, crossed by a curve representing the average, a separate diagram being drawn for each of 23 selected stations, with the base line placed on the map in the position of the station. This rather fanciful mode of representation did not form a real advance, and dropped out of use. The old method of discussion remained in force, though in the later nineties Mr. Symons began to devote more space to the peculiarities of the months, and the section continued to expand in the same direction after his master-hand was withdrawn. In 1901 the improved quality of the rainfall work was felt to justify an attempt to render the signs on the twelve little rainfall maps, which continued to be given six on a page, somewhat more uniform in their meaning. Instead of indicating arbitrary differences of an inch from the average, the dot was now placed on all stations where the rainfall was within 50 per cent. of the average ; the — on those where it was more than 50 per cent. below the average, the + on those with more than 50 per cent. above, so that the maps acquired more precise significance, and the relative wetness and dryness of different parts of the country stood out clearly.

In 1903 the desire was expressed to give a full-page map of the actual rainfall, and another of the difference from the average for each month, but though it was found impossible to do so then, a step was taken towards this goal. The number of average stations was raised to 68 ; the maps were nearly doubled in size by having only four, instead of six, on a page, and the additional size admitted of placing the actual percentage figure on each station, and of tinting the surface so as to distinguish the parts of the country which had more than the average from those which had less. The maps, instead of being rough diagrams, became scientific documents, as trustworthy as the scale would allow. The accompanying plate reproduces specimen maps from *British Rainfall* for 1879, 1902 and 1906.

In 1904 the discussion of the rainfall of the winter and the summer six months was added to that of the monthly rainfall, thereby overcoming in some degree the arbitrary barrier of the years ; and from time to time special maps have been given, when required, to illustrate details of the rainfall of particular months. On p. 13 of *British Rainfall*, 1905, we referred to the possibility of publishing all the monthly data received from over four thousand stations ; but our wealthy friends, we fear, did not read that page, and the old order of the Table of monthly values still continues. We took one

more step in 1907 by enlarging the percentage maps of rainfall to the full width of the page, and printing them with the descriptive text ; and now we are happy to be able to take the second step sighed for in 1904, and to place opposite them a map of the actual rainfall for each month on the same scale. The scale is small, but the work is sufficiently detailed to justify the use of maps very much larger than our page, on which all the towns of the British Isles could easily be shown.

Monthly rainfall is touched on in various Tables in Part I., one of which refers to the duration of rainfall as measured by recording rain gauges in different parts of the country. The Observers' Notes on the Months, occupying pp. [34] – [53], continue to give a general idea of the weather of each month, as they have done for forty years, and to indicate the relation of rainfall to the average at many stations. These notes are not of equal systematic importance ; remarks on months which presented no features of exceptional interest are usually ignored in the interests of space, and the country is by no means uniformly represented by those Observers whose great interest in the subject prompts them to take the trouble to send in remarks. The averages which are referred to are of unequal length, and they do not refer to the same periods. In fact, the Observers' Notes give an impression, and we believe a just impression, of the nature of the weather ; but they do not furnish a measure of its variations.

The Table of 230 stations gives one-nineteenth of the data on monthly rainfall which we receive ; but it is so compiled as to include only representative stations arranged as nearly as possible uniformly over the whole country. Absolute uniformity is impossible, because in certain parts of Scotland and Ireland there are so few stations in existence that if we were to thin down those over England to an equal width apart they would cease to be really representative of the country ; but as stations increase in the outlying parts we shall have great pleasure in reducing the meshes of our network, and increasing the number of records quoted. The Monthly Table of total rainfall is supplemented by the new series of maps, placed on the left hand page at each opening. These have been produced as follows: The rainfall returns received monthly from about 1000 stations are placed upon a map on the scale of 19 miles to an inch—the whole sheet measuring 29 inches by 32. The isohyetal lines are drawn about the 18th of the following month, and a copy of the map reduced to the scale of about 80 miles to the inch is sent to the Meteoro-

logical Office for publication in the *Monthly Weather Report*. The rainfall map of each month is thus in the hands of the public before the end of the following month. A very detailed map of the rainfall of the Thames valley and surrounding country is published in *Symons's Meteorological Magazine* on the 16th of the following month. After receiving all the returns for 1909—except the few stragglers gathered in while the volume is being printed—we proceed to fill up the monthly maps by inserting values for about 1000 stations, and by this means we revise the isohyets, and redraw the map in a permanent form. The lines are then copied on to blank maps, measuring $11\frac{3}{4}$ inches by $9\frac{3}{4}$ inches, which were specially drawn for the purpose, showing the county boundaries and the groups of counties included in each division; and these are finally photographed down to the size of $4\frac{1}{2}$ inches by $3\frac{1}{2}$ inches, for reproduction here. These little maps thus contain the detail of the isohyets as delineated on the large maps, on which the data were plotted at the outset (though the lines of 5, 7, and 9 inches have usually to be omitted), and although they are too minute to show the individual stations, they actually present at a glance a summary of the monthly readings of practically all the gauges which are reported to us, for although no one map has had more than about 2500 figures entered upon it, many others have been referred to for comparison, and the same stations have not been used in every case, so that every Observer may feel that his or her personal work is utilized in the process of producing them.

As a rule the lines of 1, 2, 3, 4, 6, 8 and 10 inches are represented when they occur, but the 5 inch line is sometimes shown (for instance in August) where it is required to emphasize the distribution of the rain of a particular month, and in very dry months (*e.g.*, October, in the north of Scotland) the half-inch isohyet is shown in a broken line. Those parts of the country with less than 3 inches of rain in any month are shown untinted, so that the districts with least rain always catch the eye. The line crossing the white areas nearest the shading is the isohyet of 2 inches of rain, the portion of country between the line and the shaded area had more than 2 inches, the portion on the other side of the line had less. The isohyet of 1 inch is a thin line easily distinguished from the rest. The light horizontal shading covers the country with more than 3 inches but less than 6 inches of rain; the double shading indicates the parts with more than 6 inches but less than 10, and finally, where the rainfall exceeds

10 inches the map is solid black, thus the areas of heaviest rainfall strike the eye at once. The sign $>$ denotes "greater than," the sign $<$ "less than," and when a small area is marked > 2 , it means that the rainfall within it is greater than 2 inches.

The counties are clearly indicated, and it is easy to see at a glance that the whole of Oxfordshire (for instance) had more than 3 inches, and half of it more than 4 inches, of rain in April, while it had all less than 2 inches of rain in October.

The percentage maps on the right hand page at each opening have been prepared as in 1907, the only difference being that the figures from which they are compiled are omitted this year. The only reason for doing this is to save time; the writing of figures on a map neatly enough for successful reproduction, takes a great deal of time, and by omitting them the date of publication has been made several days earlier. The figures at 72 stations are given in the percentage Table which follows, and the position of each of those stations is shown on the maps by a solid black dot; the other stations which have been utilized to complete the map being shown by a ring.

An effort has been made to compress the description of each month's rainfall into the space available below the pair of maps, but any reduction in the length of the notes produced in this way is more than counterbalanced by the full details of the graphic presentations.

On looking at the summary at the end of the large Table of 230 stations it is at once apparent that September was the month of heaviest rainfall, closely followed by March, and June the month of lightest rainfall, closely followed by October. A high rainfall is very much less common in March than in September, and a low rainfall is very much more common in June than in October; and the Table of percentage of the average takes full account of this and shows that the wet March and the dry October were the great features of the year in every part of the British Isles. Scotland and Ireland were very wet in September, and England in April also. Looking at the three kingdoms separately, the percentage Table shows that in England the two months March and April were very wet, August was rather wet, February, May, July and December were near the average, while January, June, October and November were very dry. The dryness of October and November was even more remarkable than the wetness of March and April, for the mean rainfall was only half the average. In Scotland the two wettest months were March

TABLE I.—*Monthly Rainfall in 1908: the Average, 1870-1899, being taken as 100.*

MONTHLY RAINFALL.

[143]

Div.	Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
I.	St. Pancras, Camden Square ..	102	104	146	141	113	60	135	126	55	68	28	89	94
II.	Tenterden	69	57	114	115	84	67	126	150	65	36	34	131	84
"	Arundel, Patching	47	55	126	148	105	118	111	126	67	45	37	142	87
"	Southampton, Cadland	43	53	131	147	110	22	73	152	68	46	33	120	79
III.	Basingstoke, Sherborne St. John	72	55	191	232	92	41	78	140	77	55	29	103	90
"	Hitchin, Wratten	78	78	183	188	75	46	114	121	63	67	34	83	90
"	Oxford, Magdalen College.....	81	46	170	265	73	73	78	126	61	38	47	88	89
IV.	Wellingborough, Croyland Abbey	64	64	198	185	104	53	124	146	67	52	42	77	95
"	Shoeburyness	73	102	109	164	99	69	146	116	51	50	49	120	91
"	Bury St. Edmunds, Westley...	52	123	123	205	81	47	118	104	81	53	45	60	92
V.	Norwich, Brundall	59	134	155	159	116	44	122	121	77	55	61	60	92
"	Evershot, Melbury House.....	29	46	177	89	116	19	93	142	75	87	30	125	82
"	Sidmouth, Sidmount	28	64	146	119	121	33	65	133	119	104	33	104	87
"	Northam Vicarage	47	92	162	96	90	44	52	105	55	27	50	120	74
"	Falmouth Observatory	46	94	205	98	116	45	76	132	105	52	28	114	87
"	Altarnon	61	94	163	100	97	27	79	121	76	22	46	85	77
"	East Hartree, Sherborne Res...	43	62	136	116	71	45	104	166	70	52	37	97	82
VI.	Stroud, Upfield	64	51	182	124	70	31	63	137	82	49	35	95	79
"	Leominster, Farm	25	51	192	151	73	53	78	139	92	63	54	104	84
"	Church Stretton, Wolstaston ..	51	78	167	176	108	76	120	132	78	47	51	103	94
VII.	Coventry, Kingswood	33	52	152	193	95	67	87	110	86	35	41	97	83
"	Boston	55	76	159	145	91	80	132	107	70	33	57	65	86
"	Lincoln, Doddington	49	108	159	126	90	61	96	88	67	30	48	77	79
VIII.	Mickleover Manor	55	101	178	154	134	70	99	211	78	36	58	57	99
"	Northwich, Highfield	93	131	141	154	133	65	114	92	109	57	81	94	101
IX.	Blackburn, Guide Reservoir...	98	131	107	120	146	65	126	104	102	42	87	63	95
"	Barnsley, Church Street	79	99	168	102	144	65	88	95	71	34	41	60	83
"	Wetherby, Ribston Hall	67	104	206	150	149	53	104	68	87	38	67	64	91
"	Arncliffe Vicarage	104	128	126	131	135	66	130	103	158	64	101	84	108
"	Hull, Pearson Park	75	117	121	151	56	43	97	69	83	25	46	67	75
"	Middlesbrough, Albert Park...	89	120	124	144	92	25	103	37	77	42	60	40	73
X.	Newcastle, Town Moor	74	111	160	165	97	18	98	56	76	51	55	42	79
"	Borrowdale, Seathwaite	114	82	110	70	110	115	88	128	135	37	88	83	96
XI.	Cardiff, Ely	71	81	111	115	76	14	86	152	85	71	42	96	85
"	Llanwrda, Dolaucothy	60	92	115	91	124	49	146	110	83	45	80	106	90
"	Haverfordwest, High Street...	60	63	160	107	106	49	130	126	98	63	49	146	94
"	Aberystwyth, Gogerddan	99	151	138	121	111	68	114	112	116	23	66	110	97
"	Llandudno	98	173	115	151	111	120	97	94	116	24	103	77	99

and September; the driest October, and the rest of the year varied but little from the average. In Ireland, March and September were wet, and October was the only very dry month.

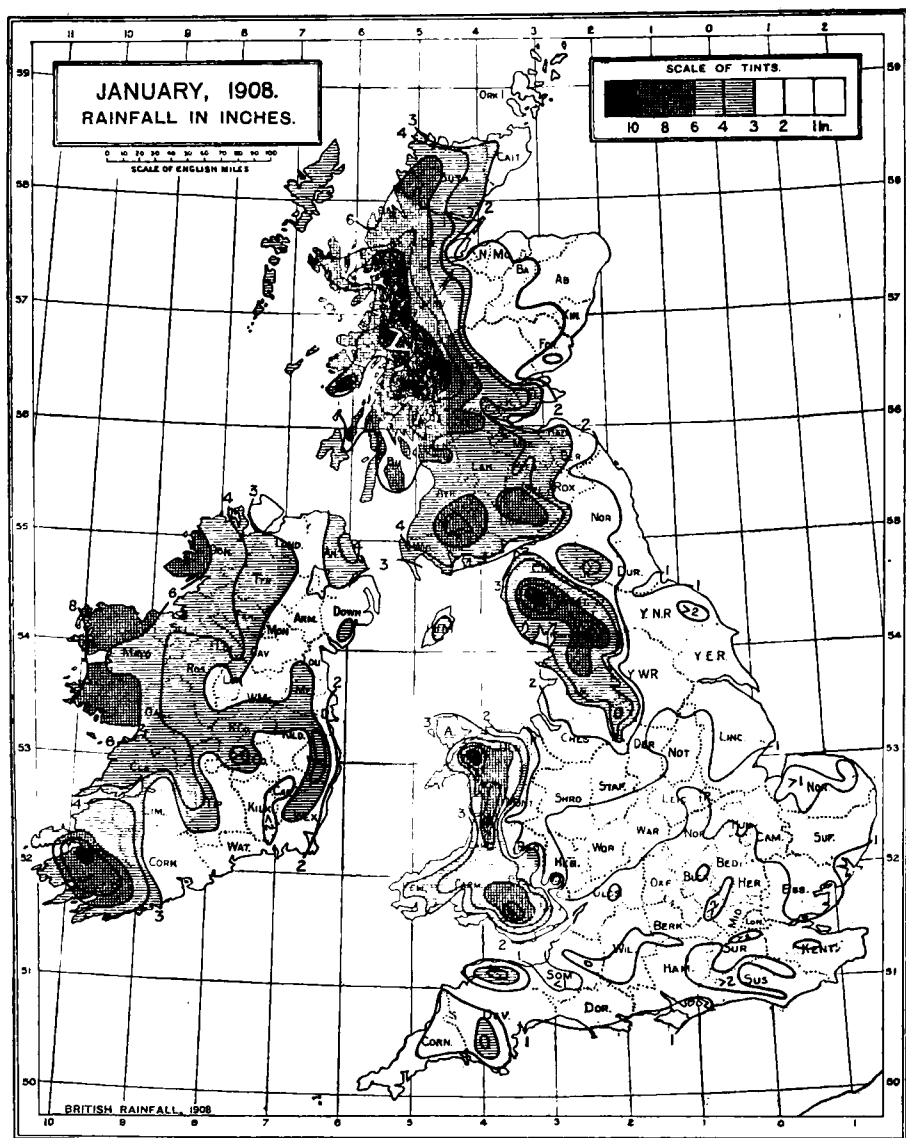
In *British Rainfall*, 1904, p. 24, we gave a discussion of the four dry Octobers of 1879, 1888, 1897, and 1904, and after considering all the data regarding October, 1908, we have come to the conclusion that it was drier than October, 1904, but not quite so dry as October, 1879, for the British Isles as a whole. So far as we can judge the approximate figures, which differ slightly from those arrived at in 1904 as a different group of stations was used, are—

	Average, 1870-99. in.	1879.		1888.		1897.		1904.		1908.	
		Fall. in.	Per cent. of av.	Fall. in.	Per cent. of av.	Fall. in.	Per cent. of av.	Fall. in.	Per cent. of av.	Fall. in.	Per cent. of av.
England & Wales	4·08	1·58	39	1·90	47	1·57	39	1·72	42	1·91	47
Scotland	4·70	2·66	57	4·13	88	3·31	71	3·14	67	1·96	42
Ireland	4·25	2·14	50	2·64	62	3·61	85	2·69	63	2·11	50
British Isles ...	4·26	1·93	45	2·55	60	2·34	55	2·22	52	1·96	46

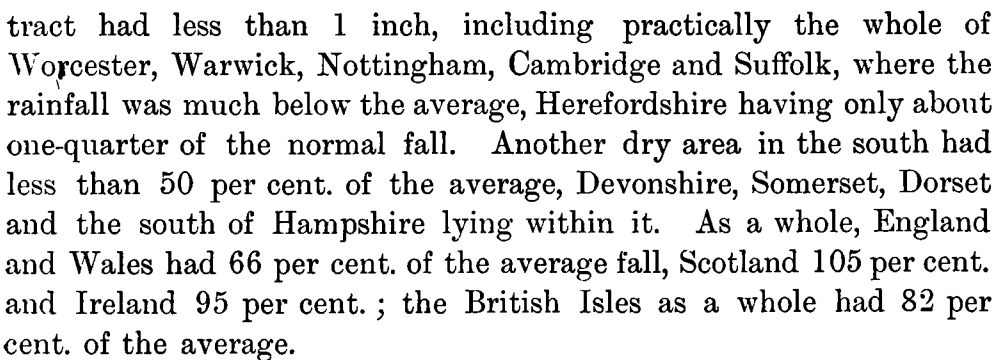
From the point of view of the areas of country with more than 4 inches of rain and less than 1 inch respectively, the comparison is,

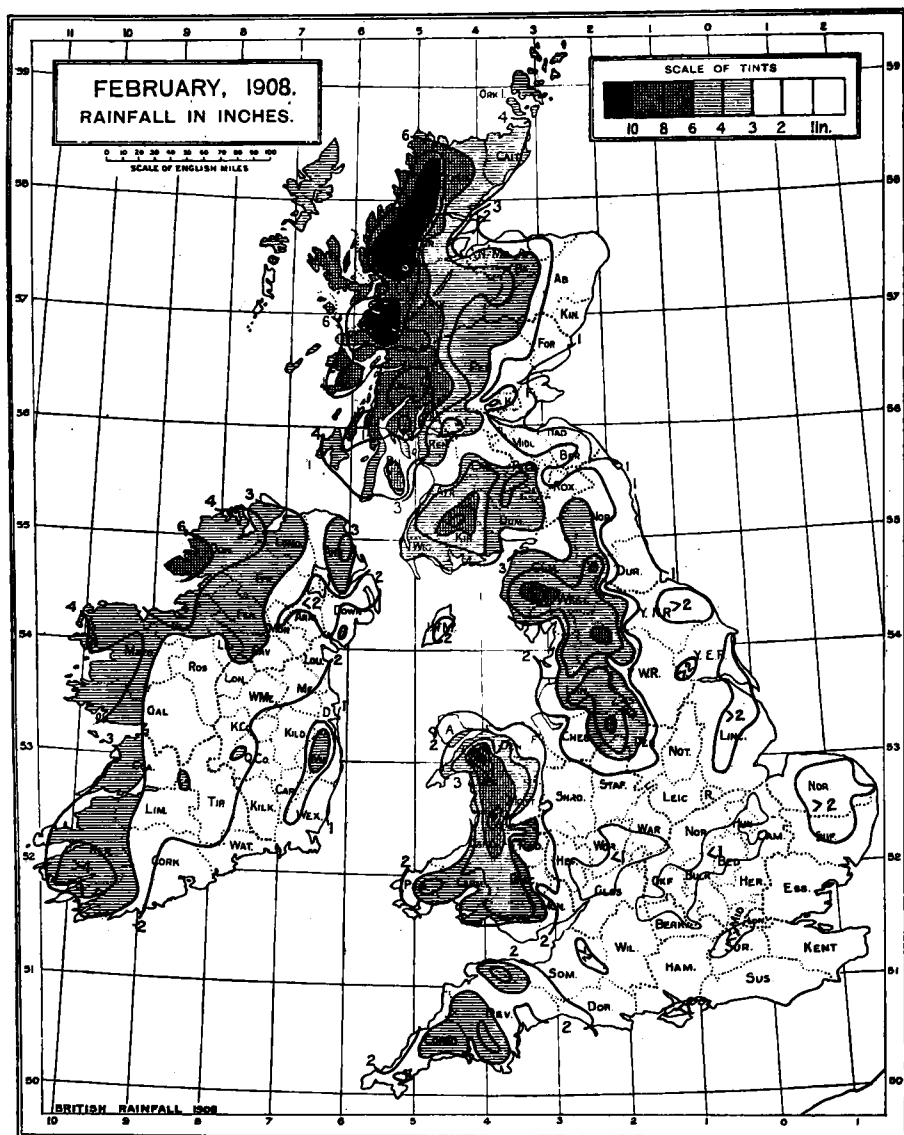
Square miles of	1879.		1888.		1897.		1904.		1908.	
	Less than 1 in.	More than 4 in.	Less than 1 in.	More than 4 in.	Less than 1 in.	More than 4 in.	Less than 1 in.	More than 4 in.	Less than 1 in.	More than 4 in.
England & Wales	21705	730	19355	3570	15850	485	22595	2055	3810	1665
Scotland ..	1555	6200	270	12720	530	8150	2570	7990	2110	545
Ireland	2530	370	730	3195	0	6705	2540	4020	305	985
British Isles ... }	25,790	7,300	20,355	19,485	16,380	15,340	27,705	14,065	6,225	3,195

So far as the very dry area is concerned, October, 1908, was the least remarkable of the five except in Scotland; but as regards the area with comparatively high rainfall, no other year had less than twice as much. This is on account of the extraordinary dryness of the west of Scotland and of Ireland.



January.—A large area of the west of Scotland had more than 10 inches of rain, but the percentage map shows that this was little above the average, the only remarkable excess being in Stirlingshire and the neighbouring counties, where more than 6 inches prevailed far to the east ; in Aberdeenshire the rainfall was less than 2 inches, and there the fall was only about two-thirds of the average. As a whole both Scotland and Ireland had a rainfall very close to the average, the centre and north-west of Ireland having a slight excess. In England only the Lake District had a little more than the average ; the greater part of the country had less than 2 inches, and a large

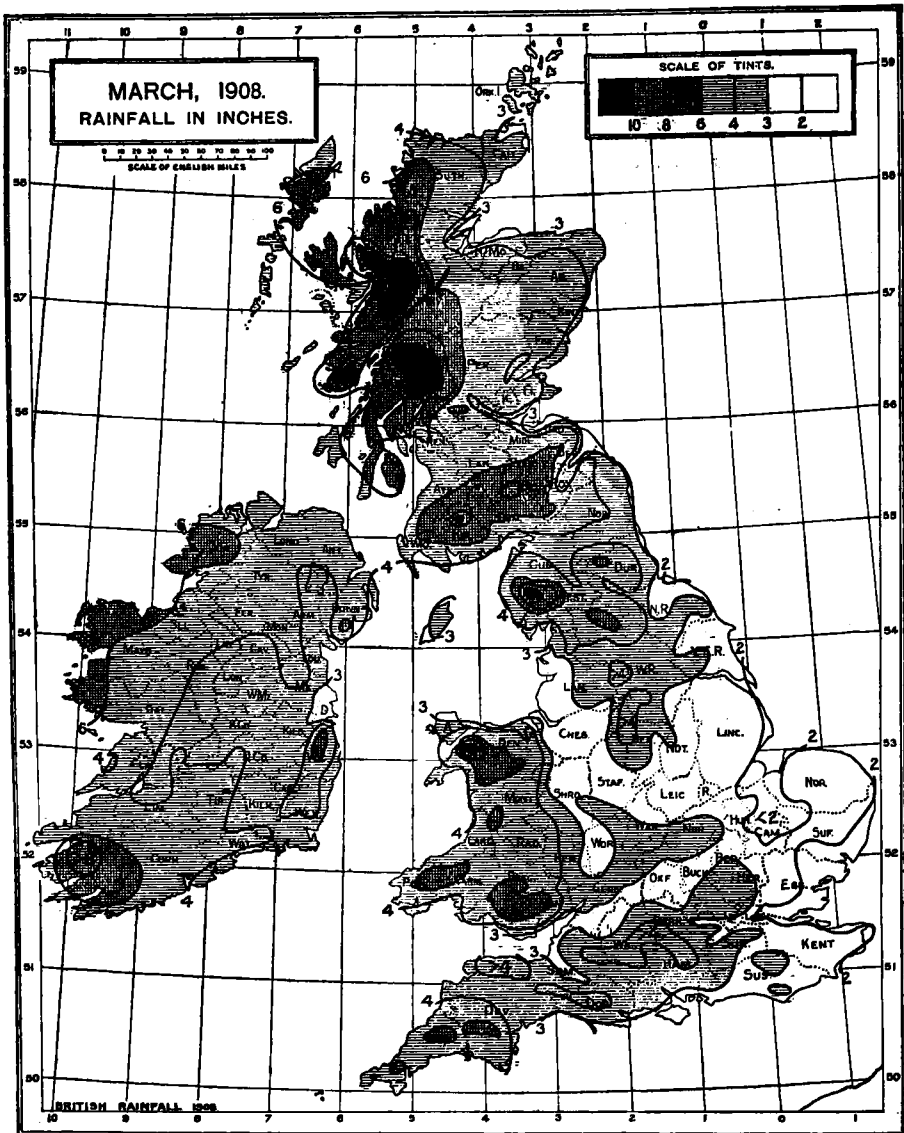




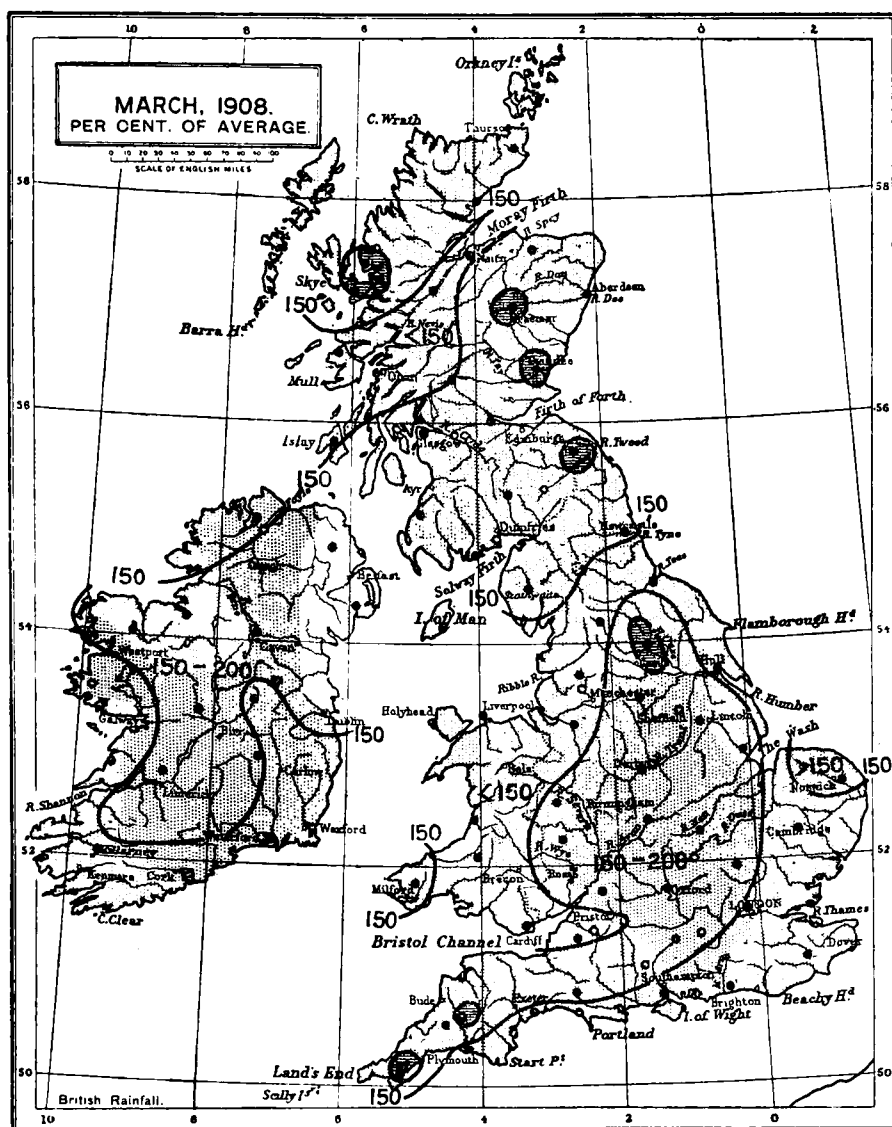
February.—A considerable area in the west of Scotland had more than 10 inches, the high rainfall lying farther north than in January. At some stations rain fell on every day of the month, which had 29 days this year, and rain-spells occurred over a large area. A rather large area with more than 4 inches occurred in the west of the Southern Uplands; but along the east coast from Forfar to the Tweed there was a narrow strip where less than an inch of rain fell. In England and Wales the districts with more than 2 inches were almost the same as in January, except for a series of patches along the east coast, but three narrow parallel belts crossing



Worcestershire, Buckinghamshire and Surrey respectively had less than 1 inch. A good deal of north and central Wales had more than 4 inches. In relation to the average the wettest part of the country was the north of Scotland, where a wide area with an excess of more than 50 per cent. culminated in a patch on the Moray Firth with twice the normal rainfall. The driest places, where less than half the normal rainfall was recorded, were the south-east of Scotland, the south of Ireland, and two patches in the south of England. Scotland had 14 per cent. more than the average rain, England and Ireland 10 per cent. less.



March.—This was by far the wettest month of the year in relation to the average, and in total volume of precipitation it was practically equal to September, while a greater area of the country had more than 3 inches of rain than in any other month. Though there was no very great extension of the area with more than 8 inches except in Scotland, there was no part of Scotland or Ireland with so little as 2 inches, and in England only Cambridgeshire and the border of the Thames Estuary had less than 2 inches. It was the only month in the year when every part of the British Isles had more than the average rainfall, so that no unshaded portion appears on the percen-



tage map, and four patches with an excess of more than 100 per cent. of the average appear in Scotland and one in the north and two in the south-west of England. It must be remembered, however, that though the wettest month of 1908, the excess of rain is in no way remarkable, as the percentage maps have often shown quite large areas with excesses of more than 200 per cent.

The excess on this occasion was unusually uniform being 51 per cent. for England and Wales, 70 per cent. for Scotland and 54 per cent. for Ireland.



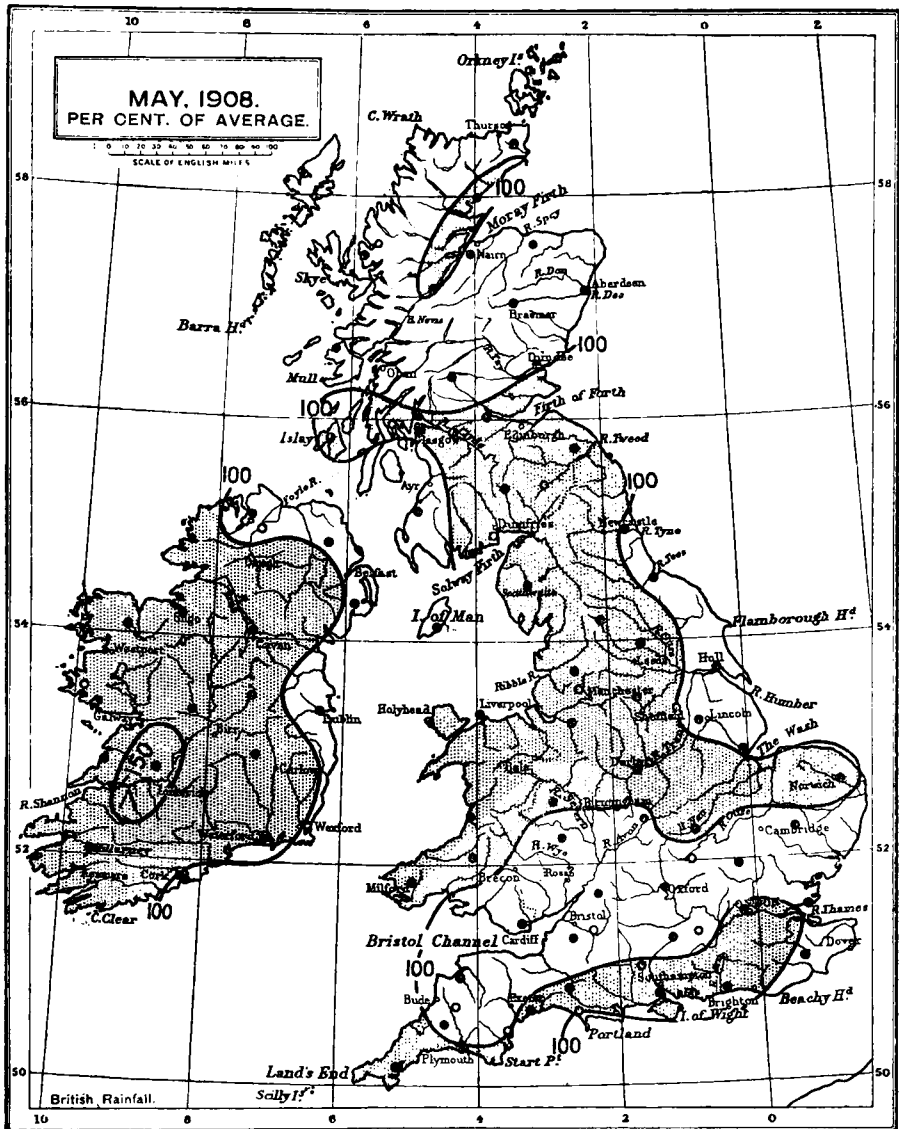
April.—This also was a wet month in England on account of the Easter snowstorms, which produced precipitation exceeding 4 inches over a large area in the Midlands, where the map of monthly rainfall closely resembles that of the individual storm shown on p. [86], in the section on Heavy Falls on Rainfall Days. Only very narrow strips round the coast, and in the north of England, had so little as 2 inches of rain; but a substantial slice of Ireland, and most of Scotland, had less rain, and in the east of Scotland less than an inch fell round the Firth of Tay. It is noticeable that no area with 10 inches appears, and only three spots—in Scotland, Wales, and



Ireland respectively—had as much as 6 inches. The heavy rainfall of more than 4 inches in Aberdeenshire is typical of east-wind conditions. The percentage map shows how the Easter snow more than doubled the rainfall in the country between Oxford and Cambridge, while only small portions of the south-west and north-west received less than the average. In Scotland the Aberdeenshire centre had also more than twice the average, but in a large part of the Highlands, and the whole of the south of Scotland, and in the south-west and centre of Ireland, the month was relatively dry.



May.—The 5 inch line is introduced on this map to bring out the distribution of rainfall in the west of Scotland, as the 6 inch line does not appear. It just finds a place in Cumberland, at three or four points in Wales, and in Kerry. Most of the east of Scotland, and a large part of the east and centre of England, received less than 2 inches of rain; but Ireland had for the most part more than 3 inches. Less than 1 inch was recorded on the south-east coast of England and in the middle of Cambridgeshire.



The percentage map shows Ireland to have had more than the average fall, except in a narrow strip round the north, east, and south-east coasts. Most of Scotland, except the south-east, was dry, and the excess was nowhere large. In England the east coast, and a broad strip from Essex to the Bristol Channel, were below the average in rainfall, and it was only in the west of Ireland that the excess was at all marked.



June.—Except in Scotland this was the month of lowest rainfall in the year, and the latter part of it was occupied by the great absolute drought in the south and centre of England, which extended into the first week of July. Rainfall exceeding 3 inches fell in the west of Scotland, the north-west and north-east of Ireland, in the Lake District and adjoining parts of Yorkshire, in North Wales, and in scattered patches throughout the country, most of the latter resulting from the violent thunderstorms of the 3rd, 4th, and 13th. Nearly half Scotland, and the greater part of England and Ireland, had less than 2 inches of rain, and there were large areas with less



than 1 inch, the most remarkable being in the north-east and the south-west of England, where less than half an inch of rain fell in a large part of Northumberland and Durham, and in parts of Devon, Somerset, Wiltshire, and practically the whole of Dorset.

The percentage map shows that the west of Scotland, the Lake District, and the north of Ireland, had more than the average amount of rain ; but less than half the average fell along the east coast and in the south-west of England and Ireland. Areas with less than 25 per cent. of the average cover a large part of the south-west of England, and also appear in Northumberland and Durham.



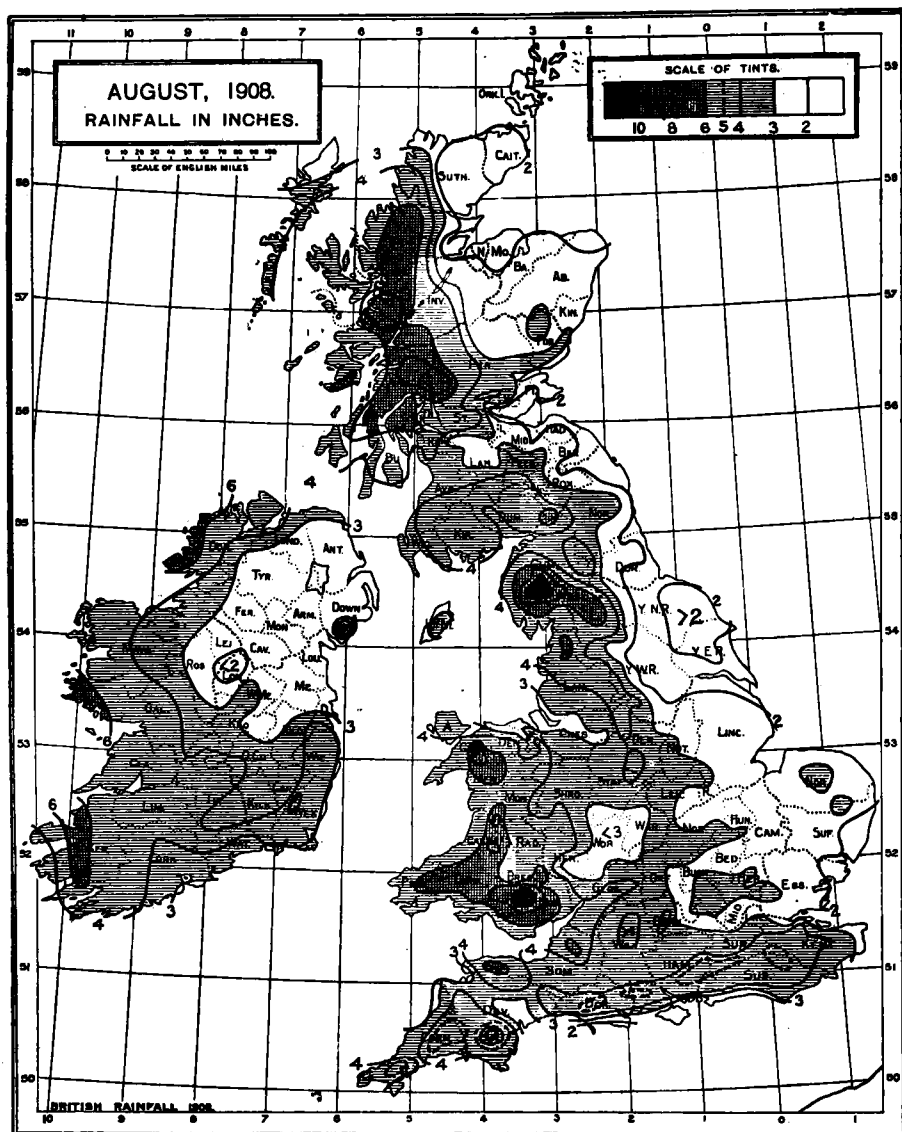
July.—The rainfall though at or under the average in each of the great divisions, was distributed in an unusual manner. In Ireland more than 3 inches fell in a broad belt of country bordering the south, east, and north-west coasts, the inner part of the country having less than 2 inches in Longford, and some of the counties of Connaught. The west of Great Britain had, as usual, more than 3 inches, but this spread to the east coast along the Forth and the Tees, and large detached areas with more than 3 inches were found in Aberdeenshire and Banff, in York and Lincoln, and in East Anglia, Kent, Surrey and Sussex. The lowest rainfall of England was in



the south-west, where the great drought of July-August had its headquarters, and that of June-July had also been severe.

The percentage map shows a succession of bands below and above the average, sloping across the country from north-east to south-west; less than half the normal rainfall occurred in the north of Scotland, and also in the extreme south of England; but the excesses in the wet strips nowhere approached 50 per cent.

The general result was that England had a deficiency of 45 per cent., Scotland of only 8 per cent., and Ireland of 22 per cent.

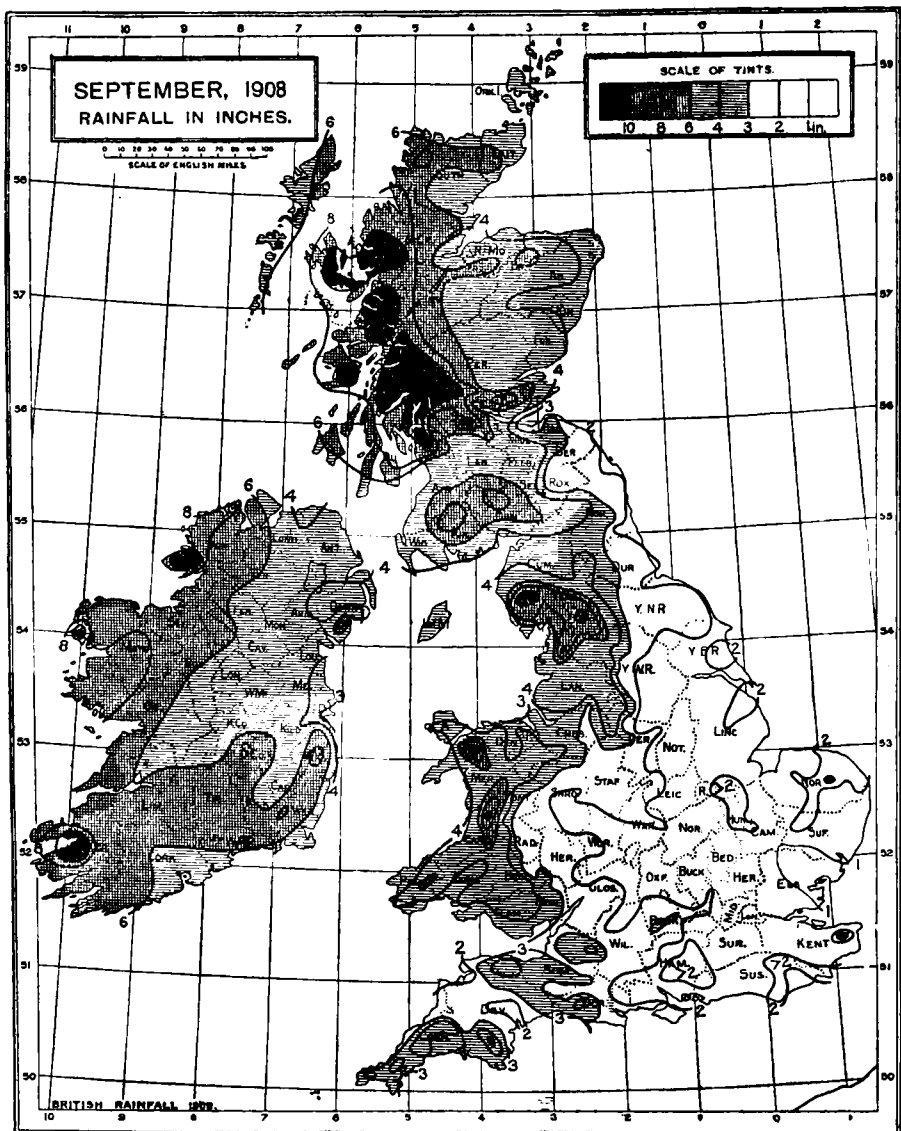


August.—August was rather wetter than July, especially in the south of England, and the distribution of rainfall was fairly normal. The large area with more than 3 inches of rain lay to the west and south, while less than 2 inches of rain were recorded only in the east. More than 6 inches fell on comparatively large areas in the west of Scotland, the Lake District and Wales; but the most interesting feature on the map is the band of more than 4 inches running parallel to the south coast of England and occupying most of the southern tier of counties from Dorset to Kent. The 5 inch line is introduced to show the four patches of still higher rainfall that lay along the



central line of the belt. These coincide in position with the row of splashes with more than 1 inch in the rainfall map of August 31st.

The percentage map shows that the only part of England with less than the average rainfall was a curved belt running from Anglesey and the mouth of the Ribble to the Humber and Tweed, and a long strip in the south had more than 50 per cent. excess. The east and north of Scotland and the greater part of Ireland were below the average, and in these countries there was no place with a marked excess of rain.



September.—While it was a dry month in England and Wales with nothing calling for remark in the distribution of rainfall, September brought the largest amount of precipitation to Scotland and Ireland of any month in the year. A corner of the south-east of Scotland had less than 3 inches ; but for this the whole surface of Scotland and Ireland are shaded, and the western half is shaded with the deeper tint denoting 6 inches or more. The solid black shading of 10 inches and over, which had not been conspicuous on the maps since March, is seen at three points in Ireland and over a wide expanse of the west of Scotland where the rainfall, both in amount



and distribution, resembles that of December or January rather than September. The first part of the month formed part of a rain spell continued from August in Ireland and Scotland.

The percentage map shows the whole of Ireland above the average and a very large patch in the centre and west with more than twice the normal fall for the month. A corner of the south-east of Scotland had less than the average; most of that country had an excess greater than 50 per cent., and a small patch near Banff had twice the normal fall.

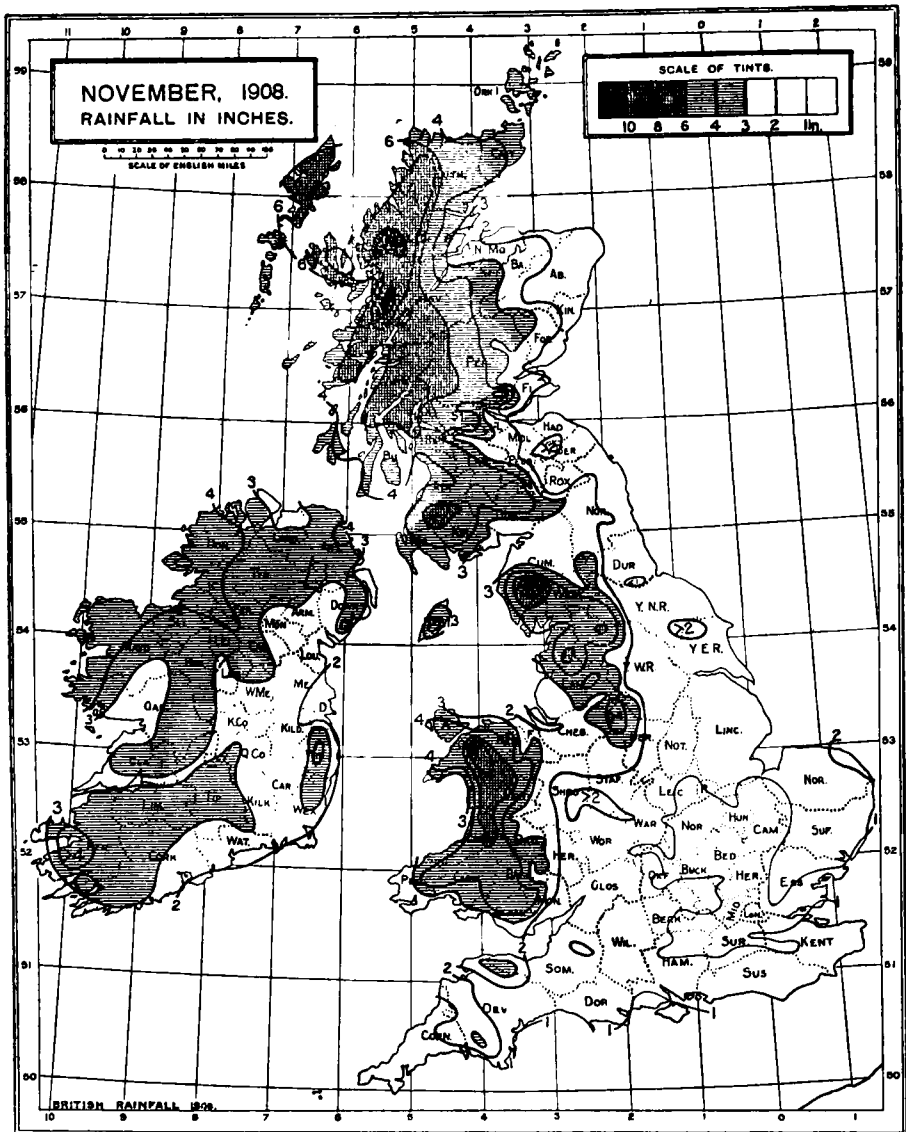


October is usually the month of greatest rain in the British Isles, but on this occasion it was the month of least rain in Scotland and Ireland ; and in England only June had less. It is rare to find an October rainfall map with no area over 10 inches ; but here there are only a few spots in notoriously wet places, like the Lake District, or in the track of the two deluges between the 19th and 21st in Wales and Dorset, where even the line of 6 inches appears, and 10 inches was only touched at Portland. The rainfall was less than 1 inch in the extreme north of Ireland, in the north-east of Scotland where the whole of Nairn and Morayshire had less than half an inch, in

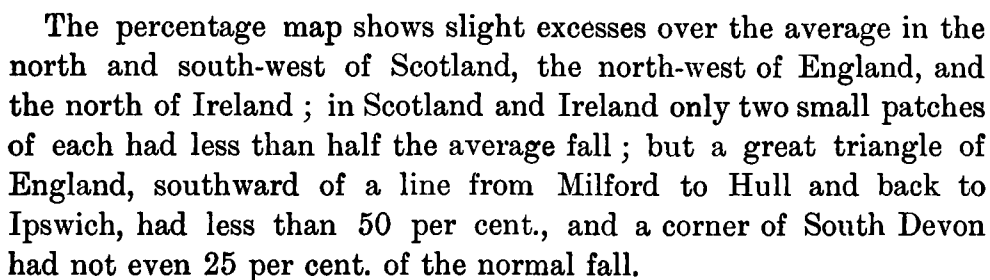


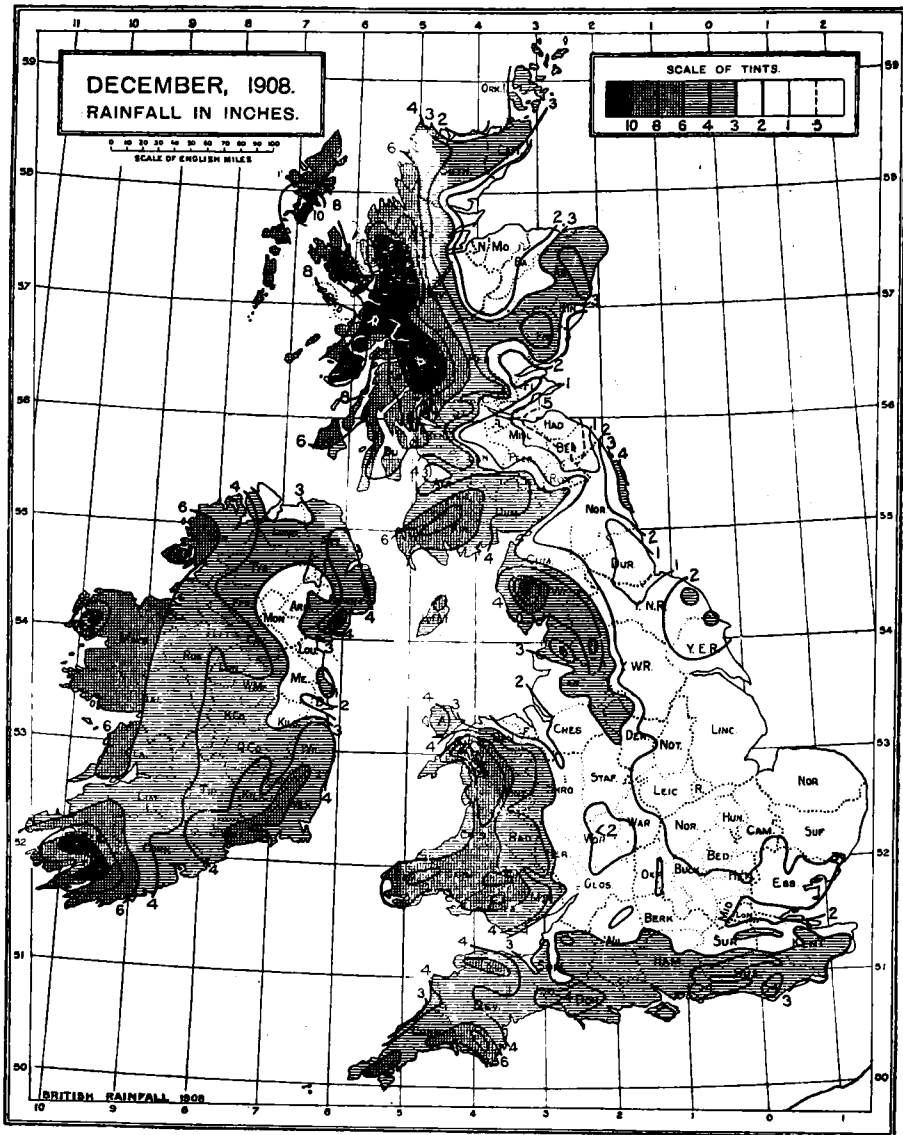
Ayrshire and Lanarkshire, in the West Riding of Yorkshire, Nottinghamshire, Lincoln and Leicestershire, in parts of Cambridgeshire and at one or two points round the coast. In Scotland and Ireland there was less rain than in any other October since 1865, and this is probably true of England also. Reference has been made on p. [145] to the relation of this month to other dry Octobers.

The south Wales and Dorset local deluges brought two small patches up to the average, and two spots in the east of Scotland touched their average also, otherwise no shade encroaches on this remarkable percentage map.



November.—In England the amount of rain was scarcely greater than in October. More than 3 inches fell in Wales, on Exmoor, in the Lake District, and on the Pennines, but over two-thirds of the country there was a precipitation of less than 2 inches, and less than 1 inch fell on an exceptionally large part of the middle of England, including almost the whole of London, Middlesex, Hertfordshire, Bedfordshire, Cambridgeshire, Huntingdonshire, and Northamptonshire, with slices of adjoining counties. In Scotland the west had more than 6 inches, and the black patches of over 10 inches, characteristic of approaching winter, re-appear on the map.





December.—The winter type of rain distribution is clearly shown in the strong shading supported by masses of black, “over 10 inches,” which mark out the west and south coasts of Great Britain and Ireland, and by the wide inland run of the 2 inch line from the east coast. Less than 1 inch was recorded in Durham, and also in Midlothian, Haddington, and Berwickshire, the two counties last mentioned having had less than half an inch of rain, a striking contrast with the 13 inches, and more, recorded in the west.

The percentage map shows that this contrast between east and west resulted from the normally low rainfall between the Firth of



Forth and Flamborough Head being reduced to less than half the average, while the normally high rainfall in the west and south was raised considerably above its substantial average value ; the driest parts of the country being drier and the wettest parts wetter than in an ordinary December.

SEASONAL RAINFALL, 1907-08.

FOR some purposes it is convenient to group the rainfall of the months so as to consider longer periods lying partly in one year and partly in another. In countries where the rainfall is seasonal, as in the Transvaal, the dividing line of the year drawn at December 31st would split the rainy season, and the total rainfall of a calendar year would be made up of parts of two separate rainy seasons, perhaps including almost the whole of each, or perhaps including only a very small proportion of each. The rainfall year in the Transvaal is therefore divided at June 30th, and in this way the whole rain of one rainy season is included in each official year. The seasonal distribution of rainfall in the British Isles is so nearly uniform, and the variation from one year to another is so small compared with that in tropical countries, that no sufficient reason can be brought forward for making the rainfall year different from the civil year. It is none the less convenient to consider the winter half-year and the summer half-year as forming two contrasted seasons, and as October is usually the wettest month in England and the east of Scotland and Ireland, while December or January is the wettest month in the west of Scotland and Ireland, it is convenient to take the winter half-year as October to March, while the summer half-year follows as April to September. The Table which follows gives the rainfall at 71 stations for the winter and summer half-years, and for the seasonal years, together with the average rainfall for the same periods at each station, and the percentage of rain which the season in question has received of the average amount.

The general result is interesting for it shows that the winter six months of 1907-8 there was an excess of 13 per cent. above the average rainfall in England and Wales and Scotland, and of 12 per cent. in Ireland, practically identical for the three large divisions of the British Isles. For the summer six months of 1908 there was also a slight excess in Scotland and Ireland, the wet April and September outweighing the dry June and October ; but in England

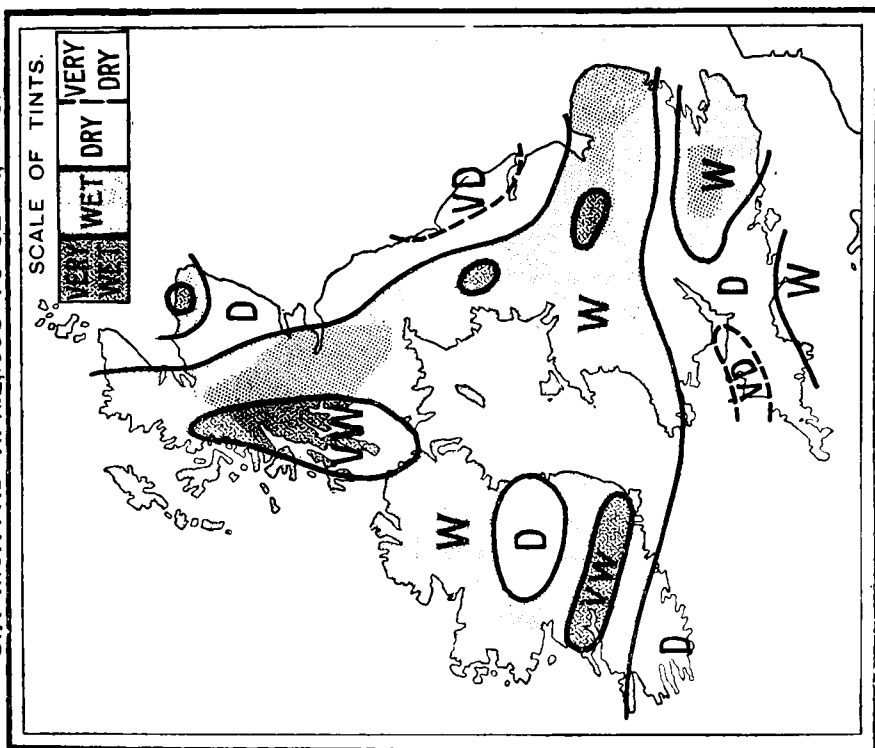
there was neither an excess or a deficiency. For the seasonal year there was an excess of 8 per cent. for the British Isles as a whole.

The distribution of wet and dry areas during the two seasons is shown in a much generalized form in the sketch maps. They show only small dry areas, showing how little of the country received less than the average fall, and no stations could be called very dry. On the other hand the greater part of the British Isles were wet—with more than the average rainfall—and a substantial part in both seasons were very wet, the excess amounting to about 20 per cent., or more.

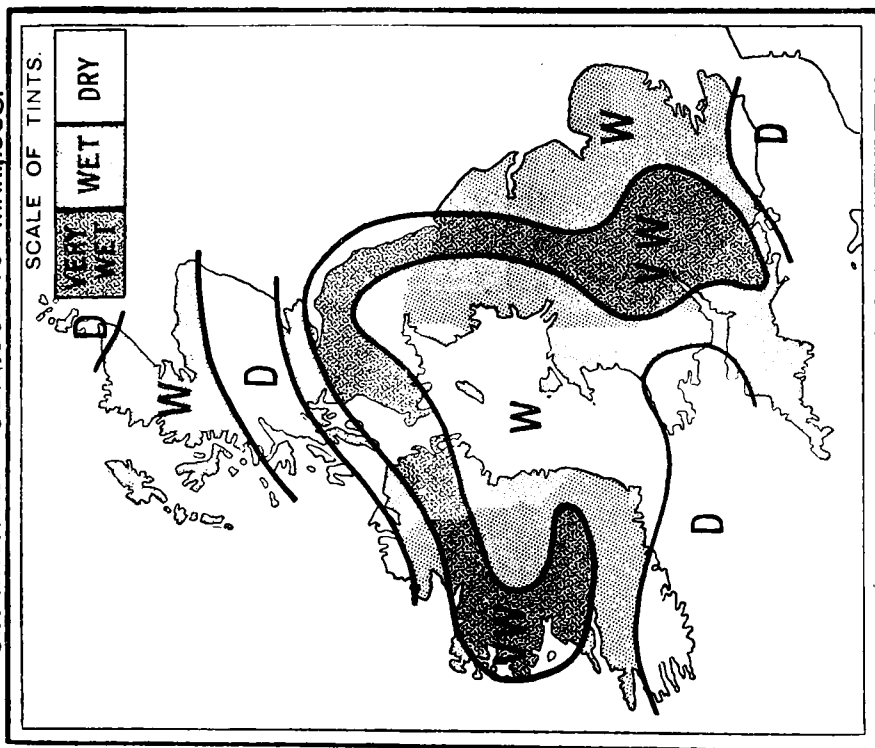
In the winter map it will be observed that the dry area lay in the south of Ireland, Wales and England, and in the north-west of Ireland and west of Scotland, while the very wet area was a sinuous track curled up in the centre and west of Ireland, the Southern Uplands of Scotland, and in a widening belt running straight down the centre of England.

In the summer half-year the contrasts were neither so marked nor so fairly divided between the three kingdoms. The dry areas included the south of Ireland and the south-west of England and Wales in the district of the two great summer droughts, the centre of Ireland, and the east of Great Britain, from Caithness to Lincoln. The very wet area formed a series of patches, one in the middle of the south of Ireland, and others in England between the dry areas, and in the west of Scotland, and north of Ireland. An interesting patch where the average was largely exceeded lay in the counties of Banff and Morayshire, where the coincidence of a very wet April and an extraordinarily wet September cut out a comparatively small region from the prevailing dry belt.

RELATION OF RAINFALL TO AVERAGE,
SIX MONTHS APRIL, 1908 TO SEPT., 1908.



RELATION OF RAINFALL TO AVERAGE,
SIX MONTHS OCT., 1907 TO MAR., 1908.



Seasonal Rainfall, 1907-1908, in Relation to the Average, 1870-1899.

Div.	Stations.	Winter Six Months, October, 1907—March, 1908.				Summer Six Months, April — September, 1908.				12 Months, Oct., 1907—Sept., 1908.
		Rain- fall.	Aver- age.	Difference from Average.	Per cent. of Aver.	Rain- fall.	Aver- age.	Difference from Average.	Per cent. of Aver.	
		in.	in.	in.		in.	in.	in.		
I.	St. Pancras, Camden Square.....	14.44	12.55	+ 1.89	115	13.16	12.61	+ .55	104	110
II.	Tenterden	16.01	15.66	+ .35	102	12.93	12.70	.23	102	102
"	Arundel, Patching	15.89	17.62	- 1.73	90	14.29	13.11	+ 1.18	109	98
"	Southampton, Cadland	19.59	18.18	+ 1.41	108	13.59	14.26	.67	95	102
III.	Basingstoke, Sherborne St. John	19.74	15.62	+ 4.12	126	14.02	13.11	+ .91	107	117
"	Hitchin, Wratten	14.64	12.21	+ 2.43	120	12.38	12.45	.07	99	110
"	Oxford, Magdalen College	15.66	12.08	+ 3.58	130	13.26	12.46	+ .80	106	118
IV.	Wellingborough, Croyland Abbey	14.21	12.29	+ 1.92	116	14.63	13.02	+ 1.61	112	114
"	Shoeburyness	10.43	10.09	+ .34	103	10.10	9.66	+.44	105	104
"	Bury St. Edmunds, Westley.....	12.82	12.16	+ .66	105	13.52	13.23	+.29	102	104
V.	Norwich, Brundall	14.52	12.63	+ 1.89	115	13.43	12.77	+.66	105	110
"	Evershot, Melbury House	27.11	22.48	+ 4.63	121	14.63	16.14	- 1.51	91	108
"	Sidmouth, Sidmount	20.64	17.86	+ 2.78	116	14.45	14.51	.06	100	108
"	Northam Vicarage	21.00	20.70	+ .30	101	11.28	15.49	- 4.21	73	89
"	Falmouth Observatory	30.44	26.48	+ 3.96	115	16.21	16.74	.53	97	108
"	Altarnon	37.74	36.17	+ 1.57	104	20.45	23.76	- 3.31	86	97
"	East Harptree, Sherborne Res....	23.99	22.49	+ 1.50	107	18.48	18.67	.19	99	103
VI.	Stroud, Upfield	19.13	15.02	+ 4.11	127	12.65	14.83	- 2.18	85	106
"	Leominster, Farm	19.00	14.66	+ 4.34	130	13.44	14.31	.87	94	112
"	Church Stretton, Wolstaston ..	20.60	17.18	+ 3.42	120	18.06	15.86	+ 2.20	114	117
"	Coventry, Kingswood	15.23	14.50	+.73	105	15.18	14.71	+.47	103	104
VII.	Boston	12.98	11.05	+ 1.93	117	12.68	12.25	+.43	104	110
"	Lincoln, Doddington	12.90	11.36	+ 1.54	114	10.82	12.42	- 1.60	87	100
"	Mickleover Manor	14.52	12.57	+ 1.95	116	17.15	14.14	+ 3.01	121	119
VIII.	Northwich, Highfield	15.41	15.03	+.38	103	17.15	15.93	+ 1.22	108	105
"	Blackburn, Guide Reservoir	20.43	20.32	+.11	101	21.38	19.64	+ 1.74	109	105

Seasonal Rainfall, 1907-1908, in Relation to the Average, 1870-1899—(continued.)

Div.	Stations.	Winter Six Months. October, 1907—March, 1908.				Summer Six Months, April—September, 1908.				12 Months, Oct., 1907—Sept., 1908.	
		Rain- fall.	Aver- age.	Difference from Average.	Per cent. of Aver.	Rain- fall.	Aver- age.	Difference from Average.	Per cent. of Aver.		Per cent. of Average.
		in.	in.	in.		in.	in.	in.			
IX.	Barnsley, Church Street.....	15.93	13.20	+ 2.73	121	12.95	14.08	— 1.13	92		106
"	Wetherby, Ribston Hall.....	18.82	12.97	+ 5.85	145	13.77	13.99	— .22	98		121
"	Arncliffe Vicarage	39.65	35.06	+ 4.59	113	31.44	25.90	+ 5.54	121		117
"	Hull, Pearson Park	14.50	13.52	+ .98	107	10.97	13.50	— 2.53	81		94
X.	Middlesbrough, Albert Park.....	14.11	11.26	+ 2.85	125	9.86	13.01	— 3.15	76		99
	Newcastle, Town Moor	17.27	13.87	+ 3.40	125	11.55	14.12	— 2.57	82		103
XI.	Borrowdale, Seathwaite	83.55	78.82	+ 4.73	106	60.21	53.86	+ 6.35	112		108
	Cardiff, Ely.....	26.53	23.27	+ 3.26	114	18.38	19.54	— 1.16	94		105
"	Dolaucathy.....	32.56	33.85	— 1.29	96	26.38	25.72	+ .66	103		99
"	Haverfordwest, High Street	27.55	28.12	— .57	98	20.82	19.76	+ 1.06	105		101
"	Aberystwyth, Gogerddan	28.02	24.58	+ 3.44	114	22.54	20.83	+ 1.71	108		111
"	Llandudno	18.10	16.92	+ 1.18	107	15.80	14.06	+ 1.74	112		109
XII.	Douglas, Woodville	25.70	24.86	+ .84	103	18.90	18.44	+ .46	102		103
	Auchencairn, Torr House	34.16	25.66	+ 8.50	133	23.36	20.79	+ 2.57	112		124
XIII.	Moffat, Eriestane	35.47	33.95	+ 1.52	104	23.26	21.02	+ 2.24	111		107
XIV.	Marchmont House	22.00	17.57	+ 4.43	125	14.48	17.37	— 2.89	83		104
	Girvan, Pinnmore	35.76	28.36	+ 7.40	126	22.77	20.51	+ 2.26	111		120
XV.	Loch Thom.....	45.92	36.09	+ 9.83	127	34.37	27.99	+ 6.38	123		125
	Falkirk, Kerse	22.62	17.13	+ 5.49	132	15.74	14.48	+ 1.26	109		121
"	Islay, Eallabus	30.53	28.00	+ 2.53	109	24.71	19.68	+ 5.03	126		116
XVI.	Mull, Quinish.....	34.23	33.58	+ .65	102	23.90	23.95	— .05	100		101
	Balquhlder, Stronvar.....	42.82	45.49	— 2.67	94	30.91	29.22	+ 1.69	106		99
XVII.	Dundee, Eastern Necropolis	16.39	14.32	+ 2.07	115	13.20	14.63	— 1.43	90		102
	Braemar	19.89	19.17	+ .72	104	15.79	16.90	— 1.11	93		99
"	Aberdeen, Cranford	19.21	17.22	+ 1.99	112	13.86	15.79	— 1.93	88		100
"	Keith	17.43	15.30	+ 2.13	114	21.80	17.42	+ 4.38	125		120

Seasonal Rainfall, 1907-1908, in Relation to the Average, 1870-1899—(continued).

Div.	Stations.	Winter Six Months, October, 1907—March, 1908.				Summer Six Months, April — September, 1908.				12 Months, Oct., 1907—Sept., 1908.		
		Rain- fall.	Aver- age.	Difference from Average.	Per cent. of Aver.	Rain- fall.	Aver- age.	Difference from Average.	Per cent. of Aver.			
XVII.	Cawdor	16.72	14.19	in. +	2.53	118	in. 11.72	15.18	in. —	3.46	77	97
XVIII.	Fort Augustus, St. Benedicts ..	25.99	26.69	—	.70	97	18.56	17.02	+	1.54	109	102
XIX.	Applecross Gardens	36.14	32.12	+	4.02	113	27.17	22.68	+	4.49	120	116
	Dunrobin Castle	20.08	17.45	+	2.63	115	14.09	14.15	—	.06	100	108
XX.	Watten	13.12	14.54	—	1.42	90	11.87	12.87	—	1.00	92	91
	Cork, Roche's Point.....	24.47	27.66	—	3.19	88	16.97	19.73	—	2.56	87	88
"	Killarney	33.10	34.58	—	1.48	96	21.32	23.53	—	2.21	91	94
	Waterford, Brook Lodge.....	24.72	22.13	+	2.59	112	20.87	17.17	+	3.70	122	116
"	Broadford, Hurdlestown.....	21.92	17.02	+	4.90	129	22.82	16.45	+	6.37	139	134
	Miltown Malbay	26.73	23.28	+	3.45	115	23.02	21.20	+	1.82	109	112
XXI.	Abbey Leix, Blandsfort	22.45	18.24	+	4.21	123	18.82	16.95	+	1.87	111	117
"	Dublin, Fitzwilliam Square	16.23	14.06	+	2.17	115	13.18	13.69	—	.51	96	106
	Mullingar, Belvedere	19.60	18.33	+	1.27	107	16.57	18.15	—	1.58	91	99
XXII.	Ballinasloe	21.40	19.10	+	2.30	112	16.42	17.94	—	1.52	92	102
"	Crossmolina, Enniscoc.....	37.39	29.44	+	7.95	127	23.80	21.06	+	2.74	113	121
	Collooney, Markree Observatory	27.07	22.10	+	4.97	122	23.41	19.73	+	3.68	119	121
XXIII.	Belturbet, Cloverhill	19.00	16.53	+	2.47	115	16.49	16.39	+	.10	101	108
"	Seaforde	22.32	20.56	+	1.76	109	21.28	18.05	+	3.23	118	113
	Ballymena, Harryville.....	23.83	21.00	+	2.83	113	21.41	18.64	+	2.77	118	114
"	Buncrana, Rockfort	21.28	22.24	—	.96	96	22.36	19.24	+	3.12	116	105
	ENGLAND & WALES (38 stations)	21.47	19.33	+	2.14	113	16.68	16.50	+	.18	100	107
	SCOTLAND (18 ")	27.14	24.27	+	2.87	113	20.09	18.98	+	1.11	104	108
	IRELAND (15 ")	24.10	21.75	+	2.35	112	19.92	18.52	+	1.40	108	110
	BRITISH ISLES (72 ")	23.49	21.14	+	2.35	113	18.24	17.57	+	.67	103	108

MONTHLY RAINFALL AT 230 STATIONS IN THE BRITISH ISLES DURING 1908.

ENGLAND AND WALES.

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
I.	London	St. Pancras (Camden Sq.)	1.93	1.68	2.37	2.38	1.95	1.26	3.36	2.94	1.27	1.95	.69	1.89	23.67
II.	Surrey, West	Haslemere (Lowder Mill)	2.13	1.37	3.95	3.75	2.57	1.16	2.77	5.73	2.06	2.93	1.48	4.30	34.20
"	" East	Waringham (Redvers Rd.)	1.99	1.47	3.50	2.80	2.24	1.85	3.82	4.75	1.66	2.05	.98	2.90	30.01
"	Kent, West	Tenterden	1.64	1.06	2.16	2.04	1.45	1.32	2.86	3.56	1.70	1.31	1.09	3.58	23.77
"	" East	Hythe (Hillcrest Road)	1.83	1.31	2.53	1.95	1.06	1.86	2.94	3.42	1.92	1.56	1.33	4.04	25.75
"	"	Ospringe (Lorenden)	1.44	1.21	2.61	2.27	1.32	.69	2.56	3.43	1.62	1.58	.95	2.86	22.54
"	Sussex, West	Arundel (Patching)	1.30	1.25	2.39	2.33	1.77	2.25	2.93	3.12	1.89	1.88	1.39	4.09	26.59
"	" East	Uckfield (Agricultural Coll.)	1.83	1.01	2.98	2.30	1.54	1.12	3.42	5.36	1.19	1.39	1.18	3.18	26.50
"	Hants, I. of W.	Totland Bay (Aston House)	.96	1.02	3.01	2.44	1.49	.54	1.55	2.23	2.36	1.71	.85	3.52	21.68
"	"	Rps. Waltham (Swanmore Ho)	1.78	1.37	3.42	2.73	2.46	.77	2.16	5.06	2.97	2.35	1.46	3.73	30.26
"	"	West Dean	1.41	1.15	3.31	2.69	2.84	.75	1.34	3.27	1.72	1.25	1.06	2.93	23.72
"	"	Basingstoke (Sherborne S.J.)	1.80	1.20	3.50	4.21	1.72	.81	2.02	3.30	1.96	1.80	.91	2.70	25.93
"	Berks.	Farnborough Rectory	1.76	1.27	3.29	5.22	2.37	1.24	2.98	4.29	2.53	1.45	1.53	2.93	30.86
III.	Herts.	Hertford (Bayfordbury)	1.10	1.43	2.82	3.14	1.65	.93	3.26	2.70	1.69	1.46	.88	2.18	23.24
"	"	Royston (Therfield Rec.)	1.07	1.07	2.44	2.95	1.43	2.17	3.69	2.33	1.37	.97	.78	1.79	22.06
"	Bucks	Slough (Upton)	1.82	1.08	2.90	3.04	1.53	1.26	2.36	2.35	2.18	2.36	.88	2.31	24.07
"	"	Greenlands [Henley-on-Thames]	1.65	1.58	3.15	3.94	2.14	1.10	2.73	3.19	2.28	1.89	1.05	2.47	27.17
"	"	Buckingham (Adstock)	1.97	.94	2.85	4.35	1.81	1.51	2.19	2.79	1.59	1.02	.70	2.39	24.11
"	Oxford	Oxford (Magdalen College)	1.55	.76	2.34	4.23	1.25	1.51	1.97	2.93	1.37	1.05	1.10	1.76	21.82
"	Northampton	Wellingborough (Swanspool)	1.46	1.22	3.17	3.22	1.92	1.12	3.54	3.50	1.69	1.38	1.06	1.88	25.16
"	Bedford	Shillington	1.43	1.20	2.92	3.14	1.56	1.03	3.44	2.47	1.38	1.98	.77	1.52	21.80
"	Cambridge	Stretham Engine	.81	.83	1.39	2.44	.95	1.58	3.44	1.78	1.62	.95	.79	1.47	18.05
IV.	"	Wisbech (Bank House)	.87	1.32	1.68	2.34	1.15	1.08	2.42	2.21	1.11	1.01	.91	1.40	17.50
"	Essex	Loughton (High Beech)	1.46	1.66	2.26	2.65	2.08	1.94	4.51	3.01	1.72	1.44	.59	1.89	25.21
"	"	Chelmsford (High Street)	.81	1.34	2.09	2.51	2.15	.92	2.90	3.26	1.54	1.35	1.15	2.13	22.15
"	"	Braintree (Bocking, Fennes)	.78	1.24	1.75	3.05	1.38	.72	3.09	2.46	1.10	1.41	1.17	1.67	19.82
"	Suffolk	Ipswich (Woolverstone Park)	.76	1.44	1.44	2.44	1.29	.58	4.01	1.78	1.61	2.00	1.25	2.16	20.76
"	"	Haverhill (Great Thurlow)	.72	1.51	2.14	2.96	1.04	1.08	3.28	2.74	.95	1.48	1.20	1.83	20.93
"	"	Aldborough (Aldringham Ho)	.48	1.56	1.69	2.15	1.30	.60	3.85	2.53	1.32	1.34	1.07	1.63	19.52
"	Norfolk	Geldeston [Beccles]	.48	1.72	2.33	2.43	1.34	.51	2.13	2.39	1.28	2.12	1.49	1.22	19.44
"	"	Swaffham	.94	1.78	2.16	2.71	1.62	1.14	3.38	2.23	1.77	1.14	1.24	1.35	21.46

ENGLAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
IV.	Norfolk	Aylsham (Woodgate).....	1.15	2.41	2.60	3.04	1.36	1.12	3.79	2.00	2.24	1.35	1.80	1.29	24.15
	V.	Trowbridge (W. W. Biss)....	1.86	1.62	3.66	2.29	1.97	.38	1.64	4.28	2.21	1.78	1.36	2.91	25.96
	"	Marlborough (Mildenhall)...	1.89	1.20	4.45	3.44	2.89	.64	2.20	3.55	2.13	1.38	1.11	2.17	27.05
	"	Swanage (R. Victoria Hotel)...	1.31	1.44	3.05	1.77	1.70	.35	1.85	2.08	2.02	2.15	1.01	4.51	23.24
	"	Beamminster Vicarage.....	1.47	2.20	3.74	2.60	1.98	.43	2.16	3.90	2.46	3.77	1.27	3.98	29.96
	"	Wimborne (Horton Vic.)....	1.07	1.12	3.31	2.48	2.10	.37	2.02	4.44	1.76	1.55	.97	3.08	24.27
	"	Dartmoor (Lowery).....	2.99	3.92	5.21	3.50	3.35	1.09	4.36	5.08	2.76	1.99	3.17	6.18	43.60
	"	Teignmouth (Den Gardens)	1.04	1.60	3.28	2.27	1.59	.83	1.15	3.34	2.51	2.58	.89	4.04	23.12
	"	Cullompton	1.38	2.43	3.25	2.54	1.94	.68	1.33	2.88	2.45	3.09	1.51	4.00	27.48
	"	Okehampton (Oaklands)....	2.93	3.57	5.04	3.11	2.87	1.62	2.83	4.73	2.59	1.21	2.30	4.41	37.21
V.	"	South Molton (Castle Hillsch.)	3.01	3.03	3.75	2.80	1.65	.90	3.30	4.56	3.11	2.52	2.71	4.54	35.88
	"	Penzance (Morrab Garden)	1.52	2.88	5.48	2.16	2.13	1.21	2.43	4.72	3.71	3.22	1.60	6.87	37.93
	"	St. Agnes	1.34	1.98	4.83	1.75	1.48	.99	2.17	3.14	2.24	1.66	1.69	4.59	27.86
	"	Stratton (Poughill)	2.36	2.93	4.01	2.38	1.53	.98	3.23	3.63	2.43	1.37	2.05	4.21	31.11
	"	Crewkerne (Bincombe House)	1.26	2.08	4.00	2.18	2.07	.43	1.63	2.36	2.35	4.10	1.18	3.88	27.49
	"	Holford (Woodlands House)...	1.07	1.69	3.77	1.95	1.88	.13	1.52	3.46	3.56	3.72	1.51	3.02	27.28
	VI.	Street .....	.90	1.10	3.46	2.02	1.45	.55	1.91	3.17	2.31	1.77	1.15	3.25	23.04
	"	Clifton (Pembroke Road)....	1.76	1.80	3.06	3.04	1.87	.71	2.18	4.63	2.69	1.91	1.11	2.60	27.36
	"	Stroud (Upfield)	1.58	1.08	3.38	2.54	1.48	.69	1.83	3.88	2.23	1.51	1.05	2.35	23.60
	"	Fairford (Hatherop Castle)	1.10	1.14	2.88	3.53	1.61	.84	2.48	3.78	1.74	1.83	1.32	2.67	24.92
VI.	"	Mickleton (Bank House)....	.79	.85	3.06	2.55	1.28	1.50	1.44	3.05	1.29	1.65	.90	1.43	19.84
	"	Ross (The Graig).....	.72	.79	3.11	2.72	1.54	1.15	1.64	3.01	1.80	2.00	1.05	2.18	21.71
	"	Leominster (Farm) .....	.63	1.04	3.28	2.77	1.73	1.26	2.04	3.57	2.07	1.96	1.50	2.62	24.47
	"	Ch. Stretton (Wolstaston)	1.44	1.77	3.37	3.76	2.83	1.86	3.20	4.28	2.13	1.87	1.61	3.01	31.13
	"	Much Wenlock (Willey Pk)	1.17	1.56	2.98	3.10	2.53	2.73	1.98	3.76	1.91	2.10	1.81	2.83	28.46
	"	Shrewsbury (Highfield)...	.91	1.34	2.88	2.47	1.64	2.00	2.64	3.42	1.92	1.71	1.56	1.88	24.37
	"	Oswestry (The Mount Res.)	2.05	2.07	3.95	3.70	3.34	3.03	4.70	4.25	3.98	3.62	3.32	3.58	40.59
	"	Penkridge (Rodbaston)...	.98	1.47	4.06	2.73	3.42	2.30	2.44	3.41	1.64	2.11	1.68	2.24	28.48
	"	Burton (Shobnall) .....	.97	1.08	2.50	2.71	2.47	2.13	2.69	3.17	2.61	1.16	1.64	1.55	24.68
	"	Market Drayton (Old Springs)	1.45	1.70	2.80	2.55	2.34	2.33	2.91	4.09	3.01	2.20	2.01	2.48	29.87
VII.	"	Worcester (Belmont Rd.)	.53	.93	2.59	2.72	1.83	1.80	1.70	2.51	2.39	1.93	1.52	1.72	22.17
	"	Stourbridge (Pedmore) .....	.99	1.75	3.13	2.44	2.97	2.08	2.12	3.18	2.08	1.71	2.03	2.21	26.69
	"	Leamington (Cubbington)	.57	1.05	2.41	3.54	1.74	1.57	1.90	3.15	1.81	.90	1.11	1.99	21.74
	"	Bedworth Cemetery .....	.79	1.18	2.76	3.36	2.47	1.38	2.98	3.13	1.55	1.03	1.16	1.88	23.67
	"	Loughboro' (Nan Pantan Res)	.94	1.27	2.84	2.70	1.81	1.36	2.67	2.90	1.49	.77	1.27	1.85	21.87
	"	Belvoir Castle,90	1.49	2.69	2.23	1.79	1.15	2.53	3.37	1.48	1.34	1.13	1.33	21.43
	"														
	"														
	"														
	"														
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ENGLAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	Mar.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
VII.	Rutland	Market Overton .....	.96	1.27	2.73	2.61	2.01	.95	2.81	3.24	1.89	1.96	1.06	1.59	23.08
"	Lincoln, South...	Sleaford (Rauceby Hall)..	1.51	2.21	2.73	2.31	1.71	1.17	2.75	2.67	1.56	1.26	1.39	1.24	22.51
"	" North.....	Market Rasen	1.34	2.11	2.20	3.39	2.56	1.42	3.27	2.20	1.96	.93	1.26	1.51	24.15
"	" "	Burton-on-Stather Vic. ...	.94	1.85	2.90	2.25	1.85	1.13	2.90	1.99	1.26	.76	1.24	1.41	20.48
"	Notts	Ollerton (Boughton W. W.)	.73	1.52	2.50	2.15	1.76	2.57	2.42	2.72	2.40	.64	1.07	1.37	21.85
"	Derby	Darley Hall	1.75	2.63	3.53	2.70	3.28	1.71	2.62	3.62	2.22	1.03	1.72	2.25	29.06
VIII.	Cheshire	Northwich (Highfield)....	2.12	2.48	2.65	2.72	2.94	1.66	3.46	2.98	3.39	1.91	2.32	2.62	31.25
"	Lancashire, South	Manchester (Withington)...	2.13	2.84	2.40	1.94	2.18	2.24	4.66	3.06	3.02	1.49	2.55	2.48	30.99
"	Central	Southport (Hesketh Park)	1.90	2.11	2.47	2.41	2.69	1.92	3.46	3.32	4.11	2.61	2.75	2.48	32.23
"	"	Burnley (Swinden, Lower)	3.90	3.01	3.91	2.91	2.91	2.08	4.89	4.44	4.42	1.83	3.43	3.17	40.90
"	"	St Michael's-on-Wyre Vic.	2.85	2.19	2.55	2.65	2.82	2.53	3.88	4.50	4.52	2.60	3.49	2.79	37.37
"	"	Barrow-in-Furness	2.56	1.87	2.90	2.67	3.06	2.09	3.50	3.79	4.02	2.75	3.26	3.27	35.74
IX.	York, W. R., S.	Rotherham (Moorgate)....	1.16	1.93	2.90	2.23	2.10	1.44	1.89	2.31	1.10	.88	1.05	1.78	20.77
"	" Central	Meltham (Harewood Ldge)	3.94	4.23	4.43	2.42	2.48	2.17	3.57	3.71	3.32	1.89	2.69	2.70	37.55
"	"	Garforth (Manor Farm)....	1.11	1.30	3.42	2.60	2.77	1.04	2.51	1.72	1.93	1.03	.97	1.04	21.44
"	"	Malham Tarn	5.61	5.05	5.63	3.81	3.78	2.57	6.79	5.94	7.52	4.15	4.21	4.71	59.77
"	" North	Ripon (Mickley)	1.93	2.12	4.16	1.99	2.32	1.24	3.10	2.24	2.87	1.79	1.52	1.33	26.61
"	"	Wharfedale (Oughtershaw Hall)	8.58	6.70	7.27	3.80	4.02	3.66	5.76	6.67	8.22	2.96	5.46	5.44	68.54
"	" E.R.	Pattingham	1.00	2.18	1.82	2.62	1.06	1.07	2.38	1.66	1.82	1.29	1.34	1.45	19.69
"	"	Pocklington (Warter)....	1.41	1.87	3.38	2.95	2.51	1.12	3.89	2.38	1.81	1.16	1.52	2.15	26.15
"	"	Lowthorpe (The Elms) ...	1.70	2.00	2.31	3.00	1.73	.92	2.02	1.83	2.05	1.32	1.43	2.38	22.69
"	" N.R.	Thirsk (Mount St. John)...	1.28	2.00	2.75	3.15	1.46	.39	3.94	1.73	2.45	1.12	1.55	1.31	23.13
"	"	Whitby (Mulgrave Castle)	1.37	1.79	2.77	2.39	2.00	1.15	2.12	2.44	2.23	1.15	1.65	1.94	23.00
"	"	Middlesbrough (Ormesby)	1.13	1.67	2.31	2.82	2.11	.68	2.38	1.70	1.83	1.17	1.25	.84	19.89
X.	Durham	Darlington (Hurworth Grange)	.98	1.81	3.57	2.17	1.64	.55	3.21	1.16	2.36	1.41	1.22	.88	20.96
"	"	Ushaw (St. Cuthbert's College)	1.56	1.82	4.09	3.66	2.12	.68	2.66	2.64	2.24	1.80	1.15	.82	25.24
"	Northumberland	Corbridge (Howden Dene)	1.85	2.23	3.62	2.93	1.94	.49	2.92	2.02	2.21	2.26	1.60	.85	24.92
"	"	Morpeth (Bothal haugh)...	1.49	1.43	2.81	2.49	1.91	.53	2.40	2.30	2.14	1.66	1.64	1.87	22.72
"	"	Alwinton (Biddleston) ...	2.14	2.02	4.91	3.10	2.35	.56	2.72	2.01	2.35	3.71	1.58	1.32	28.77
"	"	Howick Hall	1.54	1.08	3.34	1.45	2.11	.58	2.15	1.83	1.93	2.03	1.72	4.22	23.98
"	"	Borrowdale (Seathwaite)..	16.82	9.49	11.57	4.42	7.98	8.01	8.20	14.43	17.17	4.88	12.26	12.15	127.38
"	Cumberland	Wigton (Brookfield)	3.35	3.41	4.13	2.44	3.11	2.58	4.60	4.51	3.40	1.59	2.66	2.64	38.42
"	"	Brampton (Denton House)	2.41	2.47	2.93	1.78	3.28	1.40	3.12	3.91	3.64	1.13	2.42	1.73	30.22
"	"	Kendal (Holmeroft)	7.61	3.05	4.20	2.67	4.76	3.08	5.29	6.09	7.10	2.79	4.43	4.77	55.84
"	Westmorland	Appleby (Castle Bank) ...	2.57	4.06	3.98	1.70	2.71	1.59	3.10	3.82	3.83	2.58	2.69	2.49	35.12

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 Pk.)	1·82	1·75	3·36	2·84	1·46	1·20	3·32	4·60	2·86	2·90	1·32	3·52	30·95
"	"	Abergavenny (Larchfield)	·97	·94	3·55	3·01	2·72	·73	2·14	4·85	2·60	2·39	2·02	3·50	29·42
"	Glamorgan	Cardiff (Penylan)	2·58	2·33	3·25	2·63	1·88	·47	3·53	6·33	2·90	3·14	1·52	3·97	34·63
"	"	Neath (Fairy Land)	3·00	3·25	4·63	2·78	3·57	1·00	4·92	5·37	3·68	2·80	3·31	5·62	43·93
"	Cardiff	Cardiff (The Friary)	3·88	3·72	4·72	2·10	5·82	1·66	5·94	6·28	3·66	2·22	3·56	6·12	49·68
"	"	Llanwrda (Dolaucothy)	3·52	4·17	4·81	2·96	3·93	1·75	7·31	6·30	4·13	3·06	5·01	6·58	53·53
"	Pembroke	St. David's	2·00	1·69	4·54	2·99	2·17	1·05	3·84	4·57	3·41	3·23	2·10	5·52	37·11
"	Cardigan	Strata Florida (Hafod)	5·07	6·47	5·83	2·94	3·64	3·33	6·39	5·91	5·15	1·50	4·77	6·25	57·25
"	"	Aberystwyth (N. Parade)	2·17	3·19	3·04	2·54	2·45	1·95	3·55	3·86	3·33	1·43	2·42	3·89	33·82
"	Brecon	Brecon (New Inn)	4·17	3·38	7·94	2·87	4·08	1·70	5·77	5·24	4·48	1·89	3·67	2·86	48·05
"	"	Llysdinam (Newbridge)	2·57	2·90	4·45	2·82	2·62	2·15	4·66	5·03	2·83	3·38	3·74	5·29	42·44
"	"	Newtown (Dolfor)	·84	1·21	4·27	2·51	1·79	4·08	3·06	4·08	2·91	2·58	2·03	3·33	32·69
"	Montgomery	Bodfari (Nantlys)	1·72	2·38	3·11	2·14	2·53	2·11	2·21	2·68	3·26	1·38	2·43	1·69	27·64
"	Denbigh	Gresford (Trewythen)	1·82	1·58	3·14	2·73	3·14	2·20	4·61	4·28	3·91	2·22	2·46	2·02	34·11
"	Merioneth	Dolgelly (Bryntirion)	6·93	6·41	6·41	3·10	5·03	3·75	6·02	5·20	4·97	1·71	7·16	5·58	62·27
"	"	Llanderfel (Palé)	4·79	3·99	5·91	3·17	3·40	3·59	4·99	4·83	3·53	1·83	3·26	4·33	47·62
"	"	Blaenau Ffestiniog (Oakley Qrs.)	14·04	8·97	8·92	6·18	8·90	6·95	11·00	7·68	9·71	2·67	8·97	11·73	105·72
"	Carnarvon	Llandudno	2·53	3·42	2·27	2·74	2·06	2·39	2·53	2·70	3·38	·98	3·48	2·28	30·76
"	Anglesey	Llanerchymedd	3·48	2·47	2·91	3·25	3·08	3·06	4·19	3·37	3·54	2·02	3·55	3·79	38·71
"	Isle of Man	Douglas (Woodville)	3·62	2·20	3·64	2·99	2·13	2·29	3·74	3·23	4·52	1·91	3·09	4·66	38·02
England and Wales. Mean of 122 stations			2·11	2·14	3·46	2·79	2·34	1·53	3·20	3·60	2·74	1·91	1·98	2·99	30·79

SCOTLAND.

XII.	Wigtown	Garliestown (Galloway House)	3·77	3·08	3·94	2·80	2·85	1·99	2·98	3·93	3·72	2·25	3·34	4·48	39·13
"	Kirkcudbright	Dalbeattie (Little Richorn)	4·55	2·71	4·28	2·40	3·55	3·10	3·41	4·51	4·93	2·36	2·46	5·27	43·53
"	"	Dalry (Glendaroch)	6·58	4·57	7·25	2·08	3·35	3·01	4·13	4·30	5·55	1·84	4·66	5·80	53·12
"	Dumfries	Langholm (Ewes School)	7·20	3·45	6·28	1·98	4·22	3·93	3·43	6·30	5·55	3·73	3·89	4·21	54·18
"	"	Moffat (Eriestane)	6·23	3·85	7·59	1·84	3·21	3·35	2·93	4·66	7·27	1·93	4·24	4·92	52·02
"	Roxburgh	Hawick (Wolfelee)	2·88	2·04	3·93	1·45	2·60	1·89	3·30	2·77	2·99	1·70	1·72	1·36	28·13
"	"	" (Branxholme)	3·45	2·21	4·67	1·29	2·42	1·62	2·69	3·50	2·38	1·45	1·96	1·38	29·02
XIII.	Selkirk	Selkirk (The Hangingshaw)	2·96	2·56	6·07	1·55	1·51	1·28	1·97	2·83	1·80	1·86	1·84	1·47	27·70
"	Peebles	Stobo (Dawyck Gardens)	3·93	3·02	6·55	1·47	2·53	1·80	1·83	4·02	4·58	1·08	2·29	1·01	34·11
"	Berwick	Marchmont House	2·53	1·68	5·37	1·94	3·08	1·73	2·71	2·16	2·86	4·23	1·63	·81	30·73

SCOTLAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XIII.	Haddington	Whittingehame Gardens.	2.71	.78	3.26	1.74	2.83	1.00	3.21	1.11	3.45	1.38	1.52	.46	23.45
"	Midlothian	Edinburgh (Royal Obs.)...	2.16	.96	3.07	1.87	1.92	.96	3.32	1.68	2.60	1.10	1.40	.23	21.27
XIV.	Lanark	Hamilton (Water Works)	5.10	2.50	4.30	1.65	2.45	2.30	2.60	3.05	4.15	1.15	3.55	2.70	35.50
"	Ayr	Barrhill (Dochroyle)	5.45	2.60	3.99	1.30	1.38	2.93	2.84	3.50	4.78	1.88	5.10	5.60	41.35
"	"	Maybole (Culzean Gardens)	4.30	2.75	3.80	1.35	2.40	2.30	3.70	2.95	4.95	1.30	3.85	3.95	37.60
"	"	Muirkirk (Glenbuck)	5.50	5.60	6.00	1.80	2.00	2.20	3.20	3.90	6.10	.80	4.20	3.00	44.30
"	"	Kilmarnock (North Craig)	6.00	3.50	4.50	2.00	2.60	2.90	3.10	3.40	5.90	1.00	4.30	4.30	43.40
XV.	Dumbarton	Helensburgh (Water Works)	5.62	2.67	4.72	1.32	2.45	2.44	4.23	4.15	6.40	1.19	2.92	4.14	42.25
"	Stirling	Falkirk (Cauldham)	4.34	2.05	3.74	1.12	2.68	1.94	3.35	3.16	4.92	1.62	3.31	2.04	34.27
"	"	Buchlyvie (The Manse)	6.42	3.46	4.91	1.37	3.67	2.75	3.85	4.88	7.59	1.60	4.06	5.73	50.29
"	Bute	Rothsay (Crichton Road)	5.32	4.59	6.13	2.02	2.61	3.67	4.13	4.19	8.32	2.15	5.38	7.25	55.76
"	Argyll, Mainland	Campbeltown (Witchburn)...	4.51	3.36	5.63	3.91	1.86	2.81	3.75	3.90	5.90	2.12	4.52	5.96	48.23
"	"	Lochgilthead (Poltalloch)	5.33	5.39	5.77	2.57	3.16	3.87	5.50	6.45	6.45	1.60	4.64	7.25	57.98
"	"	Inveraray (Newtown)	9.67	6.13	6.92	2.88	4.23	4.13	5.79	7.25	11.12	1.47	6.34	8.70	74.68
"	"	Morvern (Drimnin)	6.61	7.11	7.13	1.85	3.82	4.25	4.12	5.55	9.12	1.99	5.65	9.16	66.41
"	"	Ballachulish House	10.74	7.81	9.84	2.53	5.59	5.59	4.75	7.12	9.67	2.24	6.29	10.79	82.96
"	"	Strontian (Laudale)	8.92	7.48	9.05	1.82	4.54	3.59	5.19	5.17	9.88	1.51	7.12	9.71	73.98
"	Insular	Islay (Ardbeg)	3.97	4.71	4.78	1.91	2.48	3.03	3.24	5.11	5.87	1.58	4.09	4.85	45.62
XVI.	Clackmannan	Dollar (Academy)	4.61	2.02	4.69	.90	2.97	1.76	3.74	3.33	7.15	1.96	3.35	2.28	38.76
"	Kinross	Loch Leven Sluice	4.46	1.94	4.13	1.38	1.60	1.67	3.28	4.13	6.77	2.61	3.33	2.14	37.44
"	Fife	Colinsburgh (Balcarres) ...	2.75	.83	4.07	1.37	1.64	1.21	2.99	3.22	4.78	3.45	1.39	1.03	28.73
"	Perth	Balquhiddier (Stronvar) ...	9.09	5.07	8.40	1.63	3.38	3.98	5.53	6.24	10.15	2.74	7.37	9.75	73.33
"	"	Coupar Angus	2.02	1.34	3.41	.85	2.01	1.74	2.05	3.95	3.72	2.86	1.98	1.75	27.68
"	"	Blair Atholl	2.50	2.54	3.93	1.34	2.09	1.67	2.57	2.73	3.78	1.91	2.95	3.34	31.35
"	Forfar	Arbroath (Dishland Hill).	1.44	.55	2.96	.68	1.84	1.13	1.84	2.14	3.99	1.23	1.53	2.28	21.61
"	"	Kirriemuir (Balnakeilly)...	2.10	1.60	4.40	.90	1.50	1.90	2.20	2.00	4.60	5.00	1.70	2.30	30.20
XVII.	Kincardine	Fettercairn (The Burn) ...	2.74	.98	4.79	1.32	1.82	1.28	2.46	2.78	4.94	3.62	2.56	3.14	32.43
"	Aberdeen	Alford (Lynnturk Manse)...	1.69	1.52	3.78	2.88	1.29	1.21	4.58	2.28	3.90	2.13	1.09	2.45	28.80
"	"	New Deer School House...	1.71	1.63	3.65	2.32	1.37	2.01	2.39	2.00	3.29	1.31	1.63	3.72	27.03
"	Banff	Banff (Earl Hill)	1.64	1.57	3.74	1.75	1.37	1.47	2.74	1.76	3.50	.79	1.65	2.96	24.94
"	Moray	Grantown	2.15	4.23	5.24	4.21	1.28	1.81	2.39	2.17	5.65	.45	3.13	1.39	34.10
"	"	Gordon Castle	1.76	1.81	3.35	2.63	1.17	1.23	2.98	2.32	4.35	.65	1.86	1.27	25.38
"	Nairn	Nairn (Delnies)	2.24	2.75	2.73	1.09	1.29	1.37	1.09	1.83	4.57	.42	2.29	1.31	22.98
XVIII.	Inverness	Loch Lochy (Invergloy)...	7.30	6.29	6.13	2.37	3.53	4.17	3.12	5.22	5.64	1.40	5.46	8.36	58.99

SCOTLAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XVIII.	Inverness ..	Alvey Manse	2·06	3·20	4·55	2·52	1·45	1·94	2·49	1·88	3·82	·30	3·27	1·36	28·84
"	"	Glenquoich	14·53	14·70	11·65	3·32	5·61	5·81	4·66	8·81	11·32	2·88	11·55	12·56	107·40
"	"	Loch Ness (Garthbeg)	4·58	3·18	5·38	1·71	1·80	2·33	2·00	3·82	5·64	1·36	3·39	4·26	39·45
"	Ross & Cromarty	Applecross Gardens	5·55	7·35	8·34	3·35	2·29	4·73	1·76	5·11	9·93	2·61	6·40	7·88	65·30
"	"	Loch Torridon (Bendamph) ..	11·20	10·97	12·13	4·21	3·27	6·67	2·43	6·20	10·91	3·20	9·08	13·08	93·35
"	"	Ullapool (Inverpolly Ldg.) ..	5·96	5·14	4·30	2·57	2·23	3·49	1·30	4·30	5·75	2·58	6·74	5·10	49·46
"	"	Alness (Ardross Castle) ..	3·99	4·55	4·53	1·72	2·01	1·41	1·70	2·25	7·83	1·17	3·89	3·22	39·47
XIX.	Sutherland	Invershin	3·27	4·56	3·78	1·72	2·23	1·54	1·56	1·98	4·01	·44	3·75	1·65	30·49
"	"	Dunrobin Castle	3·37	5·05	4·34	2·31	2·33	2·25	1·95	1·56	3·69	·86	3·57	1·82	33·10
"	"	Bettyhill	2·95	4·76	3·81	2·20	1·57	1·88	1·79	1·66	4·85	·88	3·78	1·76	31·89
"	"	Wick	2·38	3·32	3·61	2·14	2·75	2·00	1·63	2·04	4·74	1·33	3·23	2·84	32·01
Scotland. Mean of 55 stations.....			4·67	3·77	5·26	1·99	2·54	2·54	3·06	3·69	5·67	1·82	3·79	4·21	43·01

IRELAND.

XX.	Cork	Castletownshend (Glen Barrabane)	3·54	2·48	4·10	2·23	2·21	·91	4·27	4·87	6·90	2·34	2·62	7·32	43·79
"	"	Cork (The Palace)	2·61	1·29	4·17	2·37	2·20	·63	2·03	3·47	4·40	3·26	1·83	3·65	31·91
"	"	Mallow (Summer Hill) ..	2·30	1·87	4·33	2·13	1·84	·71	2·52	3·66	5·14	2·41	3·14	3·67	33·72
"	Kerry	Darrynane Abbey	4·92	4·06	6·02	2·69	2·69	1·15	4·17	4·86	6·14	1·95	2·70	7·76	49·11
"	"	Kenmare (Derreen)	8·23	3·29	7·27	5·23	5·49	1·09	4·24	6·62	7·24	6·63	5·46	10·12	70·91
"	"	Waterford (Brook Lodge)	2·42	1·63	3·79	2·92	2·27	1·15	3·86	4·64	6·03	2·76	2·46	6·27	40·20
"	"	Clonmel (Bruce Villa) ..	1·71	1·71	3·44	2·02	2·53	1·63	3·04	3·86	4·99	2·42	2·14	3·28	32·77
"	"	Nenagh (Castle Lough) ..	3·71	2·35	3·83	1·92	3·34	1·27	2·24	4·13	5·43	1·07	3·34	4·33	36·96
"	"	Ballingarry (Gurteen)	3·10	2·37	3·42	2·08	3·28	1·20	2·51	3·95	5·50	1·47	3·01	3·69	35·58
"	"	Limerick	2·68	2·46	3·43	1·86	2·93	1·40	1·94	4·36	5·52	1·28	2·88	3·69	34·52
"	"	Carrigaholt Castle	3·78	2·59	4·18	1·52	2·96	1·20	2·14	5·09	7·73	·97	2·99	4·80	39·95
"	"	Miltown Malbay	4·56	3·08	3·23	1·53	3·77	1·84	3·01	5·39	7·48	1·73	2·78	6·38	44·78
XXI.	Wexford	Enniscorthy (Ballyhyland)	2·80	2·20	3·86	2·72	2·60	1·07	4·34	5·59	6·94	3·38	2·59	5·65	43·74
"	"	Gorey (Courtown House) ..	1·86	·98	3·24	2·11	1·93	2·13	3·47	3·96	4·71	3·33	2·39	4·06	34·17
"	Kilkenny	Kilkenny (Lavistown House)	1·75	1·25	3·19	1·92	1·62	1·90	3·19	3·25	5·86	2·74	2·23	3·49	32·39
"	Wicklow	Laragh (Glendalough)	6·09	3·51	7·03	4·32	3·34	2·04	4·17	5·31	8·54	4·12	4·00	6·81	59·28
"	"	Bray (Fassaroe)	2·54	1·12	4·66	3·53	1·96	2·05	3·01	4·30	4·05	3·23	2·38	4·10	36·93
"	"	Abbey Leix (Blandsfort) ..	3·22	1·86	3·58	2·10	2·58	1·63	2·35	3·34	6·82	2·45	2·69	3·89	36·51
"	"	Monasterevan (Moore Abbey)	2·60	1·70	3·29	2·19	2·43	1·53	2·45	2·84	6·45	1·72	2·33	3·01	32·54
"	"	Straffan House	2·81	2·14	2·56	1·78	2·05	1·36	2·47	3·08	4·00	1·49	1·98	2·08	27·80

IRELAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XXI.	Dublin	Glasnevin (Botanic (dms.))	2.14	1.88	2.61	2.53	1.66	1.50	2.23	2.59	2.98	1.51	1.33	1.80	24.76
	Meath	Athboy	2.86	2.41	4.01	2.31	2.79	1.03	2.40	2.74	5.73	1.85	2.43	2.94	33.50
	"	Moynalty (Westland)	3.17	2.66	4.14	2.31	2.86	1.70	2.64	2.39	5.19	2.17	2.80	3.79	35.82
	"	Athlone (Twyford)	2.65	1.98	3.21	1.44	2.67	1.17	2.28	2.98	4.74	1.80	2.82	3.31	31.05
	"	Mullingar (Belvedere)	3.54	2.17	3.16	1.76	2.52	.97	2.48	3.16	5.68	1.25	2.45	3.30	32.44
XXII.	"	Ardee (Lissrenny)	2.45	2.17	3.65	2.58	2.31	1.77	3.68	2.17	4.18	1.86	2.14	2.41	31.37
	"	Greeneore	2.46	2.15	3.39	2.81	2.04	2.15	3.16	2.15	4.61	2.68	2.24	3.11	32.95
	"	Ballinasloe	3.36	2.07	3.83	2.35	3.43	1.76	1.46	3.18	4.24	1.39	3.02	4.81	34.90
	"	Tuan (Gardenfield)	4.75	2.84	4.13	2.30	4.32	2.75	1.70	4.02	6.98	1.30	3.20	6.16	44.45
	"	Strokestown (Castlenode)	2.93	2.04	3.55	2.06	3.41	2.74	2.06	2.07	5.41	1.96	3.22	4.08	35.58
[18]	Mayo	Ballinrobe (Cranmore)	5.98	3.20	5.56	3.02	4.28	2.12	1.42	4.08	8.98	2.04	2.67	7.30	50.65
	"	Doo Castle [Tobercury]	3.84	2.83	4.81	2.65	3.82	4.03	1.69	3.74	5.68	1.22	3.17	5.23	42.71
	"	Blacksod Point	8.17	4.36	6.21	2.82	2.59	3.01	3.79	5.74	7.17	1.94	3.79	7.69	57.28
	"	Crossmolina (Enniscoe)	7.13	3.85	6.74	2.62	3.45	4.19	2.27	3.97	7.30	1.75	4.11	6.70	54.08
	"	Collooney (Markree Obs.)	4.44	4.81	5.33	2.92	3.62	3.19	2.47	3.84	7.37	1.30	2.99	4.98	47.26
XXIII.	"	Stradone House	3.46	2.02	3.82	2.52	2.89	1.80	2.42	2.10	5.14	1.60	3.28	3.68	34.73
	"	Ballyconnell House	3.99	3.54	4.49	2.96	3.07	2.34	2.92	2.17	6.83	1.53	4.11	4.87	42.82
	"	Enniskillen (Portora)	3.21	3.09	4.14	2.31	2.96	2.27	2.27	2.90	5.95	1.34	3.41	3.24	37.09
	"	Belleek	3.96	3.45	4.80	2.58	3.16	3.18	2.22	3.68	5.60	.99	4.42	4.02	42.06
	"	Monaghan (Rowantree Ho)	2.31	1.74	2.89	1.86	1.67	1.72	2.77	2.05	4.15	.98	2.26	1.89	26.29
"	Armagh	Armagh Observatory	2.43	2.04	4.02	2.46	2.24	1.89	3.78	2.31	4.28	1.77	3.06	2.76	33.04
	"	Seaford	2.66	2.51	4.84	4.34	2.23	2.94	3.87	2.51	5.89	3.77	3.44	5.70	44.20
	"	Donaghadee	2.83	1.92	3.82	2.47	1.79	3.68	2.39	2.27	3.86	1.87	1.80	3.37	32.07
	"	Belfast (Springfield)	3.55	3.28	4.71	4.09	2.48	3.89	3.77	2.85	4.92	2.38	3.05	4.64	43.61
	"	Ballymena (Harryville)	3.66	3.51	4.79	3.71	2.12	3.44	3.94	3.58	4.62	1.94	3.81	4.39	43.51
"	"	Bushmills (Dundarave)	2.70	2.76	4.06	1.97	2.45	4.07	3.01	3.82	4.00	1.12	3.32	3.82	37.10
	"	Garvagh (Moneydig)	2.74	3.00	4.42	3.12	2.54	2.13	2.90	2.74	4.22	2.14	3.41	3.72	37.08
	"	Londonderry (Cregan Res.)	3.17	4.29	4.60	2.95	2.09	2.88	4.18	4.52	6.71	1.25	3.67	3.90	44.21
	"	Cookstown (Lissan)	3.40	3.12	4.40	3.58	2.61	1.99	3.75	2.86	4.79	2.34	4.33	4.26	41.43
	"	Killybegs (White House)	6.28	6.93	5.95	4.30	4.26	4.31	3.99	5.41	8.83	1.80	5.65	7.46	65.17
"	Donegal	Convoy	5.50	4.35	6.27	2.86	2.90	2.63	3.16	3.74	6.93	1.34	4.38	5.45	49.51
	"	Buncrana (Rockfort)	2.95	3.01	4.32	2.73	2.18	2.65	3.48	5.00	6.32	1.65	2.72	4.39	41.40
	"	"	3.47	3.78	5.00	2.48	2.26	2.79	3.46	6.74	6.52	.83	3.99	4.88	46.20
	"	Horn Head													
Ireland. Mean of 53 stations			3.57	2.71	4.31	2.62	2.75	2.13	2.93	3.71	5.76	2.03	3.06	4.57	40.15
BRITISH ISLES. Mean of 230 stations			3.06	2.66	4.08	2.56	2.48	1.91	3.11	3.65	4.14	1.92	2.66	3.64	35.87

ON THE RELATION OF THE TOTAL FALL OF RAIN IN 1908 TO THE AVERAGE.

THE number of records available for studying the total rainfall for any single year is very large, and we are endeavouring at every available opportunity to push forward the work of determining the general rainfall of large natural divisions of the country for every year since the work of the British Rainfall Organization commenced. When these determinations are ready we shall have ample data for comparing the rainfall of any year with the past. Until then we have to rely, as formerly, on those stations at which accurate observations have been carried on for a sufficiently long period to supply a satisfactory average. Although there are now many stations with sound records of thirty years, or more, they are not uniformly distributed over the country, and there are some large tracts for which no complete average can be found. In these cases we have to secure uniformity of distribution, which is essential, by computing the average rainfall corresponding to 30 years from observations extending over a shorter period. The 66 averages so computed are enclosed in brackets in the following Table of differences from the average at 175 stations, and as the number of years available was usually 20 or more, there is no reason to doubt their substantial accuracy. The uniformity of distribution which has been secured for England and Wales does not extend to Ireland and the north of Scotland, where the lines on the map have consequently to be viewed as less certain, and the general relation to the average as less satisfactory than in the case of England. The loss of the old record at Clifden House, Co. Galway, could not be repaired; the unsatisfactory record received from Galway, and the extraordinarily low readings at Banbridge, Co. Down, have led us, after much thought, to exclude these records from the Table in this section. The fact that one station is quite out of harmony with those surrounding it does not prove that it is wrong, but it throws on us the responsibility of proving that it is right, and at the advanced date of completing this article it is impossible to enter into the prolonged discussion necessary to discover the cause of the discrepancy, so there is no other course open to us than to omit the record on which doubt is cast.

In the Table of 175 stations the + and — signs show that parts

of the country were wet and parts were dry, compared with the average, as is usually the case ; but the figures have to be placed upon the map, the areas with more or less than the average rainfall distinguished by colours, and the degree of wetness or dryness indicated by shading before the full effect of the variations from normal rainfall over the country can be realized. This is done in the frontispiece.

The distribution of rain, so far as departure from the average condition is concerned, was curiously like that in 1907 ; but with an intensification of the contrast between the wet and dry regions in the direction of a smaller extent of very wet area, and a much greater extent of very dry. The main wet area was a narrow strip above the average, running N.N.W. from Birmingham to Stornoway, with wetter patches showing an excess of more than 10 per cent. in the west of Yorkshire, the south-west of Scotland, and the Isle of Skye. From the south-west of Scotland a broader wet belt ran south westward across Ireland, with two patches in which the excess was more than 10 per cent. In addition there were four isolated patches of comparatively high rainfall situated in the south-east of Ireland, the north-west of Wales, the north-east of Scotland, and a very small area in Berkshire. An extension of the wet area of the west of Scotland to the Firth of Forth might almost be included as a fifth separate area. Inspection shows that only a small part of England and Wales but a large proportion of the surface of Scotland and Ireland had more than the average rainfall. The much more extensive dry area, coloured pink on the map, in which the rainfall was less than the average, extended from the south and east of Ireland, through Wales, southern and eastern England, and eastern and central Scotland, with small isolated patches in the north of Ireland, the Lake District, and Mull. The greater part of the dry area had a deficiency of more than 10 per cent. from the average, and large stretches of country in the south of Ireland, and the south-west of England, and numerous patches in the east of England and Scotland, were very dry, with a deficiency of more than 20 per cent. This extreme dryness did not prevail in the south-east of England, where, it will be observed, the whole basin of the Thames, and parts of the surrounding country, had a rainfall within 10 per cent. of the average. The map shows more clearly and simply than words which parts of the country were treated to more than their average rainfall—the blue tint—and

which received less than their average rainfall—the red tint. The deepening blue shows greater excess, the deepening red greater deficiency ; the faintest shade of red and the faintest shade of blue, representing rainfall within 10 per cent. of the average, may be taken as having had a normal rainfall in 1908. Viewing the map from this standpoint, the parts of the country with a marked excess of rain lay in the north of Ireland and the west of Scotland ; those with a marked deficiency in the south and east of Britain, the districts of low rainfall in the east having a great deal less than their usual small quantity, the districts of high rainfall in the north-west having a good deal more than their usual large quantity.

In discussing the maximum falls of the year we found in Table V., p. [110], a first approximation to the comparative rainfall of the British Isles in 1908 and in previous years, the indication being that the rainfall was 9 per cent. below the average. But as in that Table the rainfall is taken only to the nearest inch, and the mean of all stations for all years comes out as 33 inches, the percentage figures progress by leaps of 3 at a time, and all we can certainly draw from that Table is that the Rainfall was more than 6, but less than 12, per cent. below the average of 43 years, and that it had been as dry, or drier, on 17 previous occasions.

Though derived from a small number of stations the averages given in the Table of Monthly Rainfall on p. [144] are more trustworthy as a guide because the stations, though few, are carefully selected to be representative and uniformly placed. That Table gave a deficiency of 7 per cent. for the British Isles, made up of a deficiency of 12 per cent. for England and Wales, and 1 per cent. for Scotland, the annual rainfall of Ireland at the stations considered being just equal to the average. The Table of differences from the average at 175 stations gives a much wider basis, especially in Scotland and Ireland, and it is summarised in the accompanying Abstract.

ABSTRACT.

COUNTRIES.	No. of Records utilized.	Average. 10 years 1890-99.	Average. 30 years 1870-99.	1908.	Diff. from Average 1870-99.	
					Amount.	Per cent.
		in.	in.	in.	in.	
England and Wales...	94	32·43	34·43	30·65	3·78	— 11
Scotland	46	45·51	45·36	45·09	·27	— 1
Ireland	35	40·10	40·90	40·63	·27	— 1
British Isles	175	37·40	38·60	36·44	2·16	— 6

The agreement between the two estimates is very satisfactory indeed, and as we cannot profess to determine the rainfall of the country to within 1 per cent. of the average—which is something like .39 in. in a year—we may take it that in 1908 the amount of rain which fell in Scotland and Ireland was practically the average, *i.e.*, one-thirtieth of the whole volume of rain which fell in the 30 years 1870–99; that the rainfall of England and Wales was rather more than one-tenth less than the average, and as England and Wales are practically equal in area to Scotland and Ireland, that the rainfall of the British Isles in 1908 was 6 per cent. less than the average amount, the year being thus classed as moderately dry.

One effect of the unequal distribution of rainfall stations in Scotland and Ireland is that estimates of average rainfall made by different methods are apt to differ, and opinion may be divided as to which estimate is the more accurate. Some years ago we calculated from the best map of average rainfall which could then be constructed that the average general rainfall of England and Wales was 33.92 in., of Scotland, 46.85 in., of Ireland, 42.28 in., and of the British Isles, 39.25 in. The means of the groups of stations with long records, summarised in the foregoing averages, give respectively 34.43 in., 45.36 in., 40.90 in., and 38.60 in. In the “Rough Comparison,” which concludes this section, an attempt was made to reduce all the averages used from time to time in *British Rainfall* to a common standard, by computing the percentage which each year’s rain formed of the averages calculated from the map. But for this rough comparison to be worth much, we must assume that the mean of the stations used for the year in question gives the true general rainfall, and that is more than we are prepared to uphold in the case of Scotland and Ireland; though for England, and rather less confidently for the British Isles, we think it can be done. The rough comparison shows —10 for England, and —7 for the British Isles, as close an accordance as we could expect; but for Scotland and Ireland it shows —4, and this, we fear, is rather too large a deficiency; the truth being better represented by the Abstract of the 175 selected stations.

Looking now at the relation of 1908 to the foregoing years, we find that in England the three-year period traceable since 1891 still holds with its recurrence of a wet year followed by two dry, thus—

1891. 1892. 1893. 1894. 1895. 1896. 1897. 1898. 1899. 1900. 1901. 1902. 1903. 1904. 1905. 1906. 1907. 1908.
+10 —11 —17 +6 —8 —9 +1 —13 —7 +7 —12 —17 +29 —11 —15 +1 —1 —10

and in five out of the six three-year groups the second of the two dry years is the drier.

For Scotland and Ireland the three yearly period was never so clearly marked, and has disappeared ; while for the British Isles the little lapse in 1906 may be forgiven if 1909 proves wet :—

1891. 1892. 1893. 1894. 1895. 1896. 1897. 1898. 1899. 1900. 1901. 1902. 1903. 1904. 1905. 1906. 1907. 1908.
+5 -5 -12 +5 -5 -6 +3 -2 -5 +8 -11 -17 +26 -9 -14 -1 -1 -7

Rough Comparison of the Rainfall for 28 Years.

| ENGLAND & WALES. | | | | SCOTLAND. | | | IRELAND. | | | BRITISH ISLES. | | | Corrected Values. |
|------------------|---------------------|-------|-------|---------------------|-------|-------|---------------------|-------|-------|---------------------|-------|-----|-------------------|
| Fall. | Diff. from Average. | | Fall. | Diff. from Average. | | Fall. | Diff. from Average. | | Fall. | Diff. from Average. | | | |
| | Amt. | p.c. | | Amt. | p.c. | | Amt. | p.c. | | Amt. | p.c. | | |
| Average | in. 33·92 | in. — | — | in. 46·85 | in. — | — | in. 42·28 | in. — | — | in. 39·25 | in. — | — | |
| Year. | | | | | | | | | | | | | |
| 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 |
| 1906 | 34·23 | ·31 | + 1 | 48·69 | 1·84 | + 4 | 37·85 | 4·43 | —10 | 38·71 | ·54 | — 1 | — 1 |
| 1907 | 33·61 | ·31 | — 1 | 47·33 | ·52 | + 1 | 41·55 | ·73 | — 2 | 38·87 | ·38 | — 1 | — 1 |
| 1908 | 30·65 | 3·27 | —10 | 45·09 | 1·76 | — 4 | 40·63 | 1·65 | — 4 | 36·44 | 2·81 | — 7 | — 7 |

**COMPARISON OF THE RAINFALL OF THE YEAR 1908
WITH THE AVERAGE OF THE PERIODS
1890-99 & 1870-99.**

ENGLAND & WALES.

| DIV. | COUNTY. | STATION. | Average,
1890-9. | Average,
1870-99. | Depth
in 1908. | Difference
from average,
1870-99. | Per
Amount. cent. |
|------|------------------|---------------------------------|---------------------|----------------------|-------------------|---|----------------------|
| | | | in. | in. | in. | in. | |
| I. | London, North. | St. Pancras (Camden Square) .. | 22·78 | 25·16 | 23·67 | 1·49 | — 6 |
| II. | Surrey, East ... | Dorking (Denbies) | 29·73 | 32·04 | 31·48 | ·56 | — 2 |
| „ | Kent, West ... | Tenterden | 26·76 | 28·36 | 23·77 | 4·59 | — 16 |
| „ | „ „ ... | Tonbridge (Beech Hurst) | 27·01 | 27·72 | 27·09 | ·63 | — 2 |
| „ | „ East ... | Selling (Harefield) | 28·83 | 29·55 | 28·35 | 1·20 | — 4 |
| „ | Sussex, West... | Chichester (Chilgrove) | 33·60 | 33·82 | 31·86 | 1·96 | — 6 |
| „ | „ East ... | Falmer | 32·47 | 33·58 | 27·77 | 5·81 | — 17 |
| „ | Hampshire..... | Ventnor (Consumption Hos.).. | 27·97 | 29·10 | 21·39 | 7·71 | — 26 |
| „ | „ „ | Alresford (Ovington) | 30·41 | (32·00) | 30·07 | 1·93 | — 6 |
| „ | Berkshire | Newbury (Welford Park)..... | 28·75 | 30·29 | 31·53 | 1·24 | + 4 |
| III. | Hertfordshire.. | Hertford (Bayfordbury) | 22·84 | 24·97 | 23·24 | 1·73 | — 7 |
| „ | „ „ | Hitchin (Wratten) | 23·25 | 24·66 | 22·18 | 2·48 | — 10 |
| „ | Buckingham ... | Slough (Langley) | 23·25 | 24·00 | 23·02 | ·98 | — 4 |
| „ | „ „ | Winslow (Addington Manor) .. | 23·84 | 26·75 | 23·38 | 3·37 | — 13 |
| „ | Oxfordshire ... | Oxford (Magdalen College) ... | 21·40 | 24·54 | 21·82 | 2·72 | — 11 |
| „ | „ „ | Bloxham Grove | 23·40 | (27·20) | 23·21 | 3·99 | — 15 |
| „ | Northampton... | Wellingboro' (Croyland Abbey) | 21·55 | 25·31 | 24·02 | 1·29 | — 5 |
| „ | Cambridgeshire | Stretham Engine | 20·96 | 22·16 | 18·05 | 4·11 | — 19 |
| „ | „ „ | Wisbech (Bank House) | 22·28 | 24·89 | 17·50 | 7·39 | — 30 |
| IV. | Essex | Chelmsford (High Street) | 21·22 | 22·96 | 22·15 | ·81 | — 4 |
| „ | „ „ | Newport (The Vicarage) | 24·27 | (24·80) | 21·90 | 2·90 | — 12 |
| „ | Suffolk | Rendlesham Hall | 22·60 | (23·70) | 19·02 | 4·68 | — 20 |
| „ | „ „ | Ixworth (Walsham-le-Willows) | 25·17 | 25·87 | 21·91 | 3·96 | — 15 |
| „ | Norfolk | Geldeston [Beccles] | 22·97 | 23·93 | 19·44 | 4·49 | — 19 |
| „ | „ „ | Swaffham (Dunham) | 25·92 | 28·41 | 23·74 | 4·67 | — 16 |
| „ | „ „ | North Walsham (Dilham) | 24·85 | (27·10) | 23·88 | 3·22 | — 12 |
| V. | Wiltshire | Salisbury Plain (Chitterne Ho.) | 26·88 | 28·56 | 22·83 | 5·73 | — 20 |
| „ | „ „ | New Swindon | 26·26 | (28·20) | 23·67 | 4·53 | — 16 |
| „ | Dorsetshire ... | Wareham | 30·32 | (31·90) | 25·76 | 6·14 | — 19 |
| „ | „ „ | Beaminster Vicarage | 34·87 | (38·20) | 29·96 | 8·24 | — 22 |
| „ | Devonshire, S... | Ashburton (Druid House) | 49·99 | 52·92 | 42·08 | 10·84 | — 20 |
| „ | „ „ | Polapit Tamar | 36·79 | 38·85 | 32·78 | 6·07 | — 16 |
| „ | „ „ | Bampton (Huntsham) | 45·28 | (46·80) | 37·03 | 9·77 | — 21 |
| „ | „ „ | Northam Vicarage | 34·35 | 36·19 | 26·74 | 9·45 | — 26 |
| „ | Cornwall | Penzance (St. Clare) | 41·33 | (43·40) | 39·45 | 3·95 | — 9 |
| „ | „ „ | St. Austell (Trevarna) | 42·75 | 47·16 | 36·83 | 10·33 | — 22 |
| „ | Somerset, N.... | Street | 26·90 | 30·40 | 23·04 | 7·36 | — 24 |
| VI. | Gloucester, W.. | Clifton (Pembroke Road) | 32·59 | 35·45 | 27·36 | 8·09 | — 23 |
| „ | „ „ | Stroud (Upfield) | 26·83 | 29·85 | 23·60 | 6·25 | — 21 |
| „ | Herefordshire... | Ross (The Graig) | 25·61 | 29·51 | 21·71 | 7·80 | — 26 |

ENGLAND & WALES—(continued).

| DIV. | COUNTY. | STATION. | Average,
1890-9. | Average,
1870-99. | Depth
in 1908. | Difference
from average,
1870-99. | |
|-------|-------------------|----------------------------------|---------------------|----------------------|-------------------|---|-------|
| | | | | | | Per
Amount. | cent. |
| | | | in. | in. | in. | in. | |
| VI. | Herefordshire... | Kington (Lynhales) | 29·50 | 33·56 | 32·84 | ·72 | — 2 |
| „ | Shropshire | Bishops Castle (Castle Street).. | 28·46 | (32·90) | 27·60 | 5·30 | — 16 |
| „ | „ .. | Shifnal (Haughton Hall) | 25·41 | 28·21 | 28·95 | ·74 | + 3 |
| „ | „ .. | Market Drayton (Buntingsdale) | 26·53 | (28·70) | 29·37 | ·67 | + 2 |
| „ | Staffordshire .. | Burton (Rangemore) | 24·96 | 28·01 | 26·06 | 1·95 | — 7 |
| „ | „ .. | Cheadle (The Heath House) ... | 30·05 | (33·50) | 33·32 | ·18 | — 1 |
| „ | Worcestershire. | Northwick Park | 25·24 | 29·22 | 23·14 | 6·08 | — 21 |
| „ | „ .. | Grt. Malvern (Church Street). | 24·79 | (29·00) | 26·58 | 2·42 | — 8 |
| „ | „ .. | Stourbridge (Pedmore) | 25·59 | (29·20) | 26·69 | 2·51 | — 9 |
| „ | Warwickshire.. | Coventry (Kingswood) ... | 26·98 | 29·21 | 24·27 | 4·94 | — 17 |
| VII. | Leicestershire .. | Thornton Reservoir | 24·17 | 26·48 | 23·85 | 2·63 | — 10 |
| „ | Rutland | Market Overton | 24·05 | (26·90) | 23·08 | 3·82 | — 14 |
| „ | Lincoln, South. | Boston | 20·20 | 23·30 | 20·15 | 3·15 | — 14 |
| „ | „ „ | Stubton [Newark] | 21·47 | 24·87 | 19·21 | 5·66 | — 23 |
| „ | „ North. | Louth (Westgate) | 27·59 | 29·18 | 23·12 | 6·06 | — 21 |
| „ | „ „ | Brigg | 24·40 | 26·31 | 23·88 | 2·43 | — 9 |
| „ | Nottingham ... | Worksop (Hodsock Priory) ... | 22·67 | (24·70) | 20·38 | 4·32 | — 17 |
| „ | Derbyshire | Matlock Bath | 28·93 | 25·07 | 31·23 | 3·84 | — 11 |
| VIII. | Cheshire | Chester (Christleton Hall) ... | 26·85 | (28·65) | 29·58 | ·93 | + 3 |
| „ | „ .. | Chelford (Astle Hall) | 28·49 | (30·60) | 28·20 | 2·40 | — 8 |
| „ | „ .. | Torrside Reservoir | 43·93 | 44·98 | 41·25 | 3·73 | — 8 |
| „ | Lancashire, S... | Ormskirk (Aughton Springs).. | 31·31 | 30·69 | 33·55 | 2·86 | + 9 |
| „ | „ C... | Stonyhurst College | 48·16 | 47·57 | 48·67 | 1·10 | + 2 |
| „ | „ N... | Ulverston (Poaka Beck) | 52·16 | 51·80 | 54·59 | 2·79 | + 5 |
| IX. | York, WR Central | Wakefield Prison | 24·86 | (26·80) | 20·32 | 6·48 | — 24 |
| „ | „ „ „ | Malham Tarn | 58·44 | 58·17 | 59·77 | 1·60 | + 3 |
| „ | „ „ North | Wetherby (Ribston Hall) | 23·69 | 26·96 | 24·65 | 2·31 | — 9 |
| „ | „ E. Riding. | Pocklington (Warter) | 29·03 | 30·75 | 26·15 | 4·60 | — 15 |
| „ | „ N. Riding. | Scarborough (Osgodby) | 25·11 | (27·70) | 22·50 | 5·20 | — 19 |
| „ | „ „ | Northallerton (Osmotherley)... | 23·86 | 27·35 | 21·75 | 5·60 | — 20 |
| „ | „ „ | Middlesbrough (Albert Park). | 24·72 | (24·30) | 17·81 | 6·49 | — 27 |
| X. | Durham | Wearhead Station | (53·80) | (55·00) | 47·36 | 7·64 | — 14 |
| „ | „ .. | Sunderland (W. Hendon House) | 25·11 | 26·19 | 18·99 | 7·20 | — 27 |
| „ | Northumberland | Hallington (Fawcett) | 28·73 | 29·12 | 24·34 | 4·78 | — 16 |
| „ | „ .. | Rothbury (Cragside) ... | 33·27 | 34·41 | 29·49 | 4·92 | — 14 |
| „ | „ .. | Howick Hall | 26·90 | 28·29 | 23·98 | 4·31 | — 15 |
| „ | Cumberland ... | Borrowdale (Seathwaite) | 134·08 | 132·68 | 127·38 | 5·30 | — 4 |
| „ | „ .. | Carlisle (Spital Cemetery) | 33·04 | 31·64 | 33·30 | 1·66 | + 5 |
| „ | Westmorland... | Kirkby Stephen (Redman Ho.) | 46·05 | 42·12 | 41·54 | ·58 | — 1 |
| XI. | Monmouth | Abergavenny (Larchfield) | 34·91 | 37·82 | 29·42 | 8·40 | — 22 |
| „ | Glamorgan | Cardiff (Ely) | 39·51 | 42·81 | 36·20 | 6·61 | — 15 |
| „ | „ .. | Neath | 47·28 | (50·50) | 49·53 | ·97 | — 2 |
| „ | Carmarthen ... | Llanwrda (Dolaucothy) | (55·06) | (59·57) | 53·53 | 6·04 | — 10 |
| „ | Pembroke | Pembroke (Stackpole Court) .. | 37·70 | (41·20) | 37·25 | 3·95 | — 10 |
| „ | „ .. | Castle Malgwyn [Llechryd] ... | 40·85 | 43·85 | 43·19 | ·66 | — 2 |
| „ | Cardigan | Aberystwyth (Gogerddan) ... | 44·67 | 45·41 | 44·21 | 1·20 | — 3 |
| „ | Brecon | Nanthir Reservoir [Aberdare]. | 57·08 | (60·20) | 56·78 | 3·42 | — 6 |

ENGLAND & WALES—(continued).

| DIV. | COUNTY. | STATION. | Average,
1890-9. | Average,
1870-99. | Depth
in 1908. | Difference
from average,
1870-99. | |
|------|-----------------|--------------------------------------|---------------------|----------------------|-------------------|---|--------------|
| | | | | | | Amount. | Per
cent. |
| XI. | Montgomery ... | Llangurig (Ystrad-olwyn-fawr) | 50·57 | 53·31 | 41·60 | 11·71 | — 22 |
| „ | Flint | Bodfari (Nantlys) | 26·30 | 28·71 | 27·64 | 1·07 | — 4 |
| „ | Merioneth | Llanderfel (Palé) | 45·65 | (48·20) | 47·62 | ·58 | — 1 |
| „ | Carnarvon | Criccieth (Talarvor) | 35·56 | 35·83 | 35·30 | ·53 | — 1 |
| „ | Anglesey | Llanerchymedd (Llwydiarth Esgob) ... | 38·60 | 38·21 | 38·71 | ·50 | + 1 |
| „ | Isle of Man ... | Douglas (Woodville) | 41·83 | (43·30) | 38·02 | 5·28 | — 12 |
| „ | Scilly | St. Mary's | 31·23 | (32·80) | 24·67 | 8·13 | — 25 |

SCOTLAND.

| | | | | | | | |
|--------|-----------------|--------------------------------|--------|---------|--------|-------|------|
| XII. | Wigtown | Stoneykirk (Ardwell House)... | 34·77 | (35·05) | 37·63 | 2·58 | + 7 |
| „ | Kirkcudbright. | Auchencairn (Torr House) ... | 46·02 | 46·45 | 48·08 | 1·63 | + 4 |
| „ | „ | Cargen [Dumfries] | 43·90 | 43·43 | 46·66 | 3·23 | + 7 |
| „ | Dumfries | Moffat (Ericstane) | 52·60 | 54·97 | 52·02 | 2·95 | — 5 |
| „ | Roxburgh | Hawick (Braxholme) | 33·89 | (34·80) | 29·02 | 5·78 | — 17 |
| XIII. | Selkirk | Galashiels (Abbotsford Road). | 31·26 | 33·82 | 25·49 | 8·33 | — 25 |
| „ | Berwick | Marchmont House | 31·93 | 34·94 | 30·73 | 4·21 | — 12 |
| „ | Haddington ... | Prestonkirk (Smeaton) | 24·33 | 25·72 | 20·31 | 5·41 | — 21 |
| „ | Midlothian..... | Pentland Hills (Glencorse) ... | 38·93 | 39·55 | 34·78 | 4·77 | — 12 |
| XIV. | Lanark | Airdrie (Hillend Res.) | 38·68 | 37·30 | 34·56 | 2·74 | — 7 |
| „ | Ayr..... | Girvan (Pinmore) | 46·98 | 48·87 | 52·15 | 3·28 | + 7 |
| „ | „ | Loch Finlas | 50·86 | (51·70) | 63·06 | 11·36 | + 22 |
| „ | „ | Kilmarnock (North Craig) ... | 42·45 | 39·46 | 43·40 | 3·94 | + 10 |
| „ | Renfrew..... | Gorbals W.W. (Waulk Glen).. | 49·00 | 46·91 | 46·45 | ·46 | — 1 |
| XV. | Stirling | Stirling (Polmaise Gardens)... | 34·59 | 35·80 | 37·41 | 1·61 | + 4 |
| „ | Argyll | Mull of Kintyre | 40·58 | 40·33 | 42·58 | 2·25 | + 6 |
| „ | „ | Inveraray (Newtown) | 72·27 | (62·80) | 74·68 | 11·88 | + 19 |
| „ | „ | Strontian (Laudale) | 68·69 | (72·20) | 73·98 | 1·78 | + 2 |
| „ | „ | Islay (Ardbeg) | 43·00 | (44·60) | 45·62 | 1·02 | + 2 |
| „ | „ | Mull (Quinish) | 56·30 | (57·50) | 55·00 | 2·50 | — 4 |
| XVI. | Kinross | Loch Leven Sluice..... | 35·83 | 36·20 | 37·44 | 1·24 | + 3 |
| „ | Fife | Colinsburgh (Balcarres) | 32·93 | (34·90) | 28·73 | 6·17 | — 18 |
| „ | Perth | Bridge of Turk | 60·56 | 66·66 | 64·40 | 2·26 | — 3 |
| „ | „ | Balquhiddie (Stronvar)..... | 72·98 | (74·70) | 73·33 | 1·37 | — 2 |
| „ | „ | Blair Atholl | 32·08 | (33·36) | 31·35 | 2·01 | — 6 |
| „ | Forfar | Dundee (Eastern Necropolis).. | 27·55 | 28·95 | 25·39 | 3·56 | — 12 |
| „ | „ | Kirriemuir (Lintrathen) | 33·03 | (35·60) | 32·40 | 3·20 | — 9 |
| „ | „ | Montrose (Sunnyside Asylum) | 26·98 | 29·16 | 27·04 | 2·12 | — 7 |
| XVII. | Aberdeen | Braemar | 34·51 | 36·07 | 31·72 | 4·35 | — 12 |
| „ | „ | Logie Coldstone (Loanhead) ... | 30·68 | 30·00 | 30·52 | ·52 | + 2 |
| „ | „ | Ellon | 30·09 | 30·91 | 27·71 | 3·20 | — 10 |
| „ | Banff | Keith Station..... | 33·84 | 32·72 | 34·64 | 1·92 | + 6 |
| „ | Elgin | Grantown | 31·69 | 31·00 | 34·10 | 3·10 | + 10 |
| „ | Nairn | Cawdor | 30·34 | 29·37 | 23·54 | 5·83 | — 20 |
| XVIII. | Inverness, West | Loch Shiel (Glenfinnan) | 108·85 | 105·29 | 121·21 | 15·92 | + 15 |
| „ | „ | Glenquoich | 112·44 | 108·26 | 107·40 | ·86 | — 1 |
| „ | „ East | Fort Augustus (St. Benedict's) | 46·85 | (43·71) | 43·93 | ·22 | + 1 |

SCOTLAND—(continued.)

| DIV. | COUNTY. | STATION. | Average,
1890-9. | Average,
1870-99. | Depth
in 1907. | Difference
from average
1870-99. | |
|--------|------------|----------------------------|---------------------|----------------------|-------------------|--|--------------|
| | | | | | | Amount. | Per
cent. |
| | | | in. | in. | in. | in. | |
| XVIII. | Ross, West | Glencarron | 93·91 | (88·40) | 80·02 | 8·38 | — 9 |
| " | " | Loch Torridon (Bendamph) | 88·95 | (86·50) | 93·35 | 6·85 | + 8 |
| " | " | Braemore House | 64·48 | 58·56 | 60·24 | 1·68 | + 3 |
| " | East | Strathpeffer | 31·86 | (31·30) | 27·50 | 3·80 | — 12 |
| " | " | Fearn (Lower Pitkerrie) | 23·50 | 23·52 | 20·48 | 3·04 | — 13 |
| XIX. | Sutherland | Invershin | 32·66 | 32·76 | 30·49 | 2·27 | — 7 |
| " | " | Dunrobin Castle | 32·26 | 31·60 | 33·10 | 1·50 | + 5 |
| " | Caithness | Wick | 30·91 | (29·30) | 32·01 | 2·71 | + 9 |
| " | Orkney | Shapinsay (Balfour Castle) | 32·74 | 31·66 | 28·34 | 3·32 | — 10 |

IRELAND.

| | | | | | | | |
|--------|-------------|------------------------------|-------|---------|-------|-------|------|
| XX. | Cork | Roches Point | 43·32 | (47·20) | 34·56 | 12·64 | — 27 |
| " | Kerry | Kenmare (Derreen) | 66·16 | (69·50) | 70·91 | 1·41 | + 2 |
| " | " | Valencia (Glanleam) | 55·30 | (55·90) | 52·29 | 3·61 | — 6 |
| " | " | Killarney (District Asylum) | 55·10 | 58·11 | 46·65 | 11·46 | — 20 |
| " | Waterford | Waterford (Brook Lodge) | 38·56 | (39·30) | 40·20 | ·90 | + 2 |
| " | " | Glenam [Clonmel] | 40·89 | 42·17 | 38·30 | 3·87 | — 9 |
| " | Tipperary | Nenagh (Castle Lough) | 39·42 | (40·00) | 36·96 | 3·04 | — 8 |
| " | Limerick | Foynes | 39·64 | (40·69) | 40·07 | ·62 | — 2 |
| " | Clare | Miltown Malbay | 45·31 | (44·50) | 44·78 | ·28 | + 1 |
| XXI. | Wexford | Enniscorthy (Ballyhyland) | 41·45 | 42·87 | 43·74 | ·87 | + 2 |
| " | " | Gorey (Courtown House) | 33·62 | 35·72 | 34·17 | 1·55 | — 4 |
| " | Wicklow | Bray (Fassaroe) | 39·68 | 40·55 | 36·93 | 3·62 | — 9 |
| " | Carlow | Bagnalstown (Fenagh House) | 35·37 | (35·90) | 32·65 | 3·25 | — 9 |
| " | Queen's Co. | Abbey Leix (Blandsfort) | 36·52 | 35·19 | 36·51 | 1·32 | + 4 |
| " | King's Co. | Birr Castle | 32·96 | 33·06 | 33·28 | ·22 | + 1 |
| " | Dublin | Dublin (Fitz William Square) | 27·30 | 27·75 | 23·75 | 4·00 | — 14 |
| " | Meath | Moynalty (Westland) | 36·67 | (37·40) | 35·82 | 1·58 | — 4 |
| " | Westmeath | Mullingar (Belvedere) | 36·50 | (36·50) | 32·44 | 4·06 | — 11 |
| " | Louth | Greenore | 31·33 | (32·10) | 32·95 | ·85 | + 3 |
| XXII. | Galway | Ballinasloe | 36·58 | 37·04 | 34·90 | 2·14 | — 6 |
| " | " | Tuam (Gardenfield) | 42·18 | (41·90) | 44·42 | 2·52 | + 6 |
| " | Mayo | Crossmolina (Enniscoe) | 52·60 | (50·50) | 54·08 | 3·58 | + 7 |
| " | Sligo | Collooney (Markree Obs.) | 41·27 | 41·83 | 47·26 | 5·43 | + 13 |
| XXIII. | Cavan | Belturbet (Cloverhill) | 32·72 | (32·92) | 34·98 | 2·06 | + 6 |
| " | Armagh | Armagh Observatory | 30·97 | 31·36 | 33·04 | 1·68 | + 5 |
| " | Down | Seaforde | 36·27 | 38·61 | 44·20 | 5·59 | + 14 |
| " | " | Donaghadee | 30·39 | (32·00) | 32·07 | ·07 | + 0 |
| " | Antrim | Belfast (Queen's College) | 32·00 | 33·23 | 38·75 | 5·52 | + 17 |
| " | " | Ballymena (Harryville) | 39·52 | (39·60) | 43·51 | 3·91 | + 10 |
| " | " | Bushmills (Dundarave) | 36·70 | (38·20) | 37·10 | 1·10 | — 3 |
| " | Londonderry | Garvagh (Moneydig) | 37·95 | 39·16 | 37·08 | 2·08 | — 5 |
| " | " | Londonderry (Creggan Res.) | 41·36 | (41·20) | 44·21 | 3·01 | + 7 |
| " | Donegal | Killybegs (White House) | 59·87 | (59·40) | 65·17 | 5·77 | + 10 |
| " | " | Ardnadrean Rectory | 46·29 | (45·60) | 50·32 | 4·72 | + 10 |
| " | " | Malin Head | 31·76 | (34·50) | 33·90 | ·60 | — 2 |

EXTREMES OF RAINFALL IN 1908.

Greatest Rainfall, at Llyn Llydaw Copper Crushing Mill,
Carnarvonshire 237·32 in.

Least Rainfall, at Bourne, Guthram, Lincolnshire 15·63 ,,

ENGLAND.

| GREATEST. | | LEAST. | |
|--------------------------------|--------|---------------------------------------|-------|
| Div. | in. | Div. | in. |
| X. The Sty, C..... | 177·25 | VII. Bourne (Guthrum) | 15·63 |
| „ Styhead Tarn | 135·85 | III. Upwell (Marmont Priory Lock) .. | 15·88 |
| „ Borrowdale (Seathwaite)..... | 127·38 | IV. Colchester (Home Farm, Lexden) .. | 16·23 |
| „ Mickleden | 125·85 | „ Harwich (Coastguard Station).. | 16·30 |
| „ Ullscarf | 113·80 | III. Etton [Market Deeping] | 16·54 |
| „ Dungeon Ghyll | 109·73 | „ Somersham Vicarage..... | 16·85 |

MONMOUTH AND WALES.

| GREATEST. | | LEAST. | |
|---------------------------------------|--------|----------------------------------|-------|
| Div. | in. | Div. | in. |
| XI. Llyn Llydaw Copper Crushing Mill | 237·32 | XI. Monmouth (The Hendre) | 23·69 |
| „ Swansea W.W. (Bwlch) | 135·08 | „ „ (Pentwyn) | 24·45 |
| „ Eigiau (Upper) | 118·76 | „ „ (Leasbrook)..... | 24·64 |
| „ „ (Lake)..... | 113·04 | „ Llanefydd (Rhyl W.W., W.) .. | 24·90 |
| „ Beddgelert (Moel Hebog) | 110·00 | „ Colwyn Bay (East Parade) | 25·71 |
| „ Blaenau Festiniog (Oakley Quarries) | 105·72 | „ Llanefydd (Plas Uchaf Res.) .. | 26·46 |

SCOTLAND.

| GREATEST. | | LEAST. | |
|--------------------------------------|--------|-------------------------------------|-------|
| Div. | in. | Div. | in. |
| XVIII. Achnashellach (Glenuaig) | 123·70 | XIII. Dalkeith Gardens | 19·13 |
| „ Loch Shiel (Glenfinnan) | 121·21 | XVI. Dundee Harbour | 19·27 |
| XV. Morvern (Kingairloch)..... | 107·98 | XIII. Drummorie [Musselburgh] | 19·35 |
| XVIII. Glenquoich | 107·40 | „ Aberlady Manse | 19·46 |
| XV. Ardgour | 99·99 | XVI. Arbroath (Waterworks) | 19·59 |
| XVIII. Loch Arkaig (Glen Dessary) .. | 97·19 | XII. St. Boswells (Monksford) | 19·71 |

IRELAND.

| GREATEST. | | LEAST. | |
|--|-------|----------------------------------|-------|
| Div. | in. | Div. | in. |
| XX. Gap of Dunloe (Garrymeen) .. | 86·50 | XXI. Lambay Island..... | 21·15 |
| XXIII. Mourne Mountains (Fofanny Res.) | 74·52 | „ Dublin (Trinity College) | 21·93 |
| XXII. Dugort (Slievemore Hotel) | 74·18 | „ Rathmines (Terenure) | 22·26 |
| XX. Lough Caragh (Lickeen) | 73·34 | „ Dublin (FitzWilliam Square) .. | 23·75 |
| „ Kenmare (Derreen)..... | 70·91 | „ Rathmines (Leinster Road).... | 24·00 |
| XXIII. Killibegs (Faiafannan) | 70·01 | „ Kingstown (Harbour Yard) | 24·02 |

NOTE.

Second gauges and those at Lighthouses are excluded from the above, as also are those to which a ? has been attached in the General Table. In selecting the minima, records are only used from gauges the receiving surface of which is known to be less than 3 feet above the ground. The highest only of the records from the Snowdon Power Company's gauges in Carnarvonshire has been quoted, and records from the Channel Islands have been excluded.

GENERAL TABLE
OF
TOTAL RAINFALL IN 1908,
AT MORE THAN
4500 STATIONS
IN THE
BRITISH ISLES.

EXPLANATORY NOTE.

The divisions in the General Table are shown in the map at the end on p. [303]. They 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, for England, the *Clergy List*; the second name is added to fix the site of Observation more closely. 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-registering or a 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; T, 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.

COUNTY INDEX TO GENERAL TABLE.

E N G L A N D .

| | | | | | |
|----------------------|-----|----------------------|-----|--------------------|-----|
| Bedfordshire | 219 | Herefordshire | 238 | Oxfordshire | 216 |
| Berkshire | 211 | Hertfordshire | 214 | Rutland..... | 244 |
| Buckinghamshire... | 215 | Huntingdonshire... | 219 | Shropshire..... | 239 |
| Cambridgeshire ... | 220 | Kent | 202 | Somerset | 233 |
| Cheshire..... | 249 | Lancashire | 250 | Staffordshire... | 240 |
| Cornwall | 232 | Leicestershire | 243 | Suffolk | 223 |
| Cumberland | 267 | Lincolnshire | 244 | Surrey | 198 |
| Derbyshire | 247 | London | 196 | Sussex | 205 |
| Devonshire | 228 | Middlesex..... | 213 | Warwickshire | 242 |
| Dorsetshire | 226 | Monmouth | 270 | Westmorland | 268 |
| Durham | 264 | Norfolk | 224 | Wiltshire | 225 |
| Essex | 221 | Northamptonshire. | 217 | Worcestershire ... | 241 |
| Gloucestershire..... | 236 | Northumberland ... | 266 | Yorkshire | 256 |
| Hampshire..... | 208 | Nottinghamshire... | 245 | | |

W A L E S .

| | | | | | |
|------------------|-----|-----------------|-----|-----------------|-----|
| Anglesey | 277 | Carnarvon..... | 276 | Merioneth..... | 276 |
| Brecon | 272 | Denbigh..... | 275 | Montgomery..... | 274 |
| Cardigan | 272 | Flint | 275 | Pembroke..... | 272 |
| Carmarthen | 276 | Glamorgan | 270 | Radnor | 274 |

272

I S L A N D S .

| | | | | | |
|----------------|-----|-------------------|-----|-----------------------|-----|
| Alderney | 278 | Jersey | 278 | Sark | 278 |
| Guernsey | 278 | Isle of Man | 278 | Isles of Scilly | 278 |
| | | Herm | 278 | | |

S C O T L A N D .

| | | | | | |
|----------------------------|-----|---------------------|-----|-------------------|-----|
| Aberdeen | 290 | Fife | 288 | Orkney | 294 |
| Argyll | 286 | Forfar | 289 | Peebles..... | 281 |
| Ayr | 283 | Haddington | 281 | Perth | 288 |
| Banff | 291 | Inverness | 291 | Renfrew | 284 |
| Berwick.. | 281 | Kincardine | 290 | Ross and Cromarty | 292 |
| Bute | 286 | Kinross | 288 | Roxburgh | 280 |
| Caithness | 293 | Kirkcudbright | 279 | Selkirk | 280 |
| Clackmannan | 288 | Lanark | 283 | Shetland | 294 |
| Cromarty, <i>see</i> Ross. | | Linlithgow | 283 | Stirling | 285 |
| Dumbarton | 285 | Midlothian | 282 | Sutherland | 293 |
| Dumfries | 280 | Nairn..... | 291 | Wigtown | 279 |
| Elgin or Moray ... | 291 | | | | |

I R E L A N D .

| | | | | | |
|----------------|-----|--------------------|-----|---------------------|-----|
| Antrim | 301 | Kerry..... | 295 | Monaghan..... | 300 |
| Armagh..... | 301 | Kildare | 298 | Queen's County | 297 |
| Carlow | 297 | Kilkenny .. | 297 | Roscommon | 299 |
| Cavan..... | 300 | King's County | 298 | Sligo | 300 |
| Clare | 296 | Leitrim | 300 | Tipperary | 296 |
| Cork | 295 | Limerick | 296 | Tyrone | 302 |
| Donegal..... | 302 | Londonderry..... | 301 | Waterford.. | 296 |
| Down..... | 301 | Longford | 299 | Westmeath | 299 |
| Dublin | 298 | Louth..... | 299 | Wexford..... | 297 |
| Fermanagh..... | 300 | Mayo | 300 | Wicklow | 297 |
| Galway | 299 | Meath | 298 | | |

ENGLAND AND WALES.

DIVISION I.—LONDON.

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with .01 or more recorded. |
|-----------------------------------|--------------------------|-------------|---------------------|------------------------|------------------------|---------------------------------|
| | | Diameter | Height Above Ground | Height Above Sea Level | | |
| | | in. | ft. in. | feet. | inches. | |
| NORTH OF THE THAMES. | | | | | | |
| D§ PADDINGTON (Harrow Road) ... | C. W. Heinemann, Esq. | 8 | 1 0 | 101 | 23·15 | 165 |
| D† KENSINGTON (V. & A. Museum). | W. I. Last, Esq., C.E.. | 8 | 0 6 | 27 | 21·32 | 157 |
| D „ (Holland House) ... | Mr. C. Dixon | 5 | 4 6 | 68 | 21·39 | 150 |
| D „ (Addison Gardens). | G. H. M. Whish, Esq.. | 5 | 1 1 | 23 | 21·09 | 145 |
| D† „ (Campden Hill) ... | Met. Water Board..... | 8 | 4 10 | 130 | 21·47 | 151 |
| D† „ (Grand Junction W.W.) | „ „ „ | 8 | 1 0 | 142 | 23·29 | 177 |
| FULHAM, | | | | | | |
| D† W. Kensington (Edith Rd.) | G. Searle, Esq..... | 5 | 0 10 | 16 | 20·84 | 156 |
| D CHELSEA (Paulton Square) | A. Hampton Brown, Esq. | 5 | 1 0 | 24 | 20·78? | 158 |
| D „ (Pumping Station) ... | M Fitzmaurice Esq CMG | 8 | 1 0 | 19 | 22·84 | 152 |
| D „ (Physic Garden) | W. Hales, Esq. | 5 | 1 0 | 20 | 22·00 | 159 |
| D „ (St. Luke's Gardens)... | T. W. E. Higgins Esq. CE | 5 | 1 0 | 25 | 22·24 | 156 |
| † WESTMINSTER (Commercial Road) | Met. Water Board..... | 5 | 7 0 | 27 | 21·79 | ... |
| D „ (Winchester St.). | Mr. G. T. Osborn | 4 | 6 6 | 21 | 22·46 | 149 |
| D „ „ „ „ „ | „ „ „ „ „ | 4 | 6 6 | 21 | 21·69 | ... |
| D „ (Chester Square) | C. Lethbridge, Esq. ... | 5 | 10 0 | 35 | 19·77 | 169 |
| D† „ (Buckingham Palace) | Major Hussey | 5 | 8 6 | 35 ? | 23·00 | 146 |
| D „ (Kensington Gardens) | Mr. Wm. Jones | 8 | 1 10 | ... | 22·64 | 144 |
| D§ „ (St. James's Park) ... | Meteorological Office .. | 8 | 1 0 | 54 | 21·33 | 165 |
| D „ (Spring Gardens) ... (1) | M Fitzmaurice Esq CMG | 8 | 66 4 | 95 | 19·80 | ... |
| D „ „ „ „ „ (2) | „ „ „ „ „ | 12 | 65 11 | 95 | 19·14 | ... |
| D „ „ „ „ „ (3) | „ „ „ „ „ | 8 | 6 0 | 35 | 22·06 | ... |
| D „ (Strand) | J. J. Steward, Esq. ... | 5 | 40 0 | 80 | 20·83 | 139 |
| ST. MARYLEBONE | | | | | | |
| D „ (Northwick Terrace) | E. Heron Allen, Esq... | 5 | 0 5 | 130 | 24·95 | ... |
| D§ „ Regent's Pk (R Botanic Gdns) | J. B. Sowerby, Esq. ... | 8 | 0 8 | 126 | 24·51 | 175 |
| D „ (Hamilton Terrace) | Miss Cobb | 5 | 0 11 | 125 | 24·12 | 172 |
| D† HAMPSTEAD (Barrow Hill Res.).. | Met. Water Board..... | 5 | 3 4 | 197 | 21·77 | 154 |
| D „ (Akenside Road) ... | E. L. Hawke, Esq. ... | 5 | 1 0 | 285 | 27·13? | 199 |

DIVISION I.—LONDON.—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain. | Days with .01 or more recorded. |
|------------------------------------|---------------------------|-------------|---------------------|------------------------|----------------|---------------------------------|
| | | Diameter | Height Above Ground | Height Above Sea Level | 1908 | |
| | | in. | ft. in. | feet. | inches. | |
| NORTH OF THE THAMES—(con.) | | | | | | |
| HAMPSTEAD (Akenside Road) ... | E. L. Hawke, Esq. ... | 8 | 1 0 | 285 π | 26.45? | ... |
| D " (Holmdale Road) ... | A. G. Kitching, Esq. ... | 5 | 2 3 | ... | 20.90 | 153 |
| " (Willoughby Road) ... | C. Clarke, Esq. | 5 | 2 0 | ... | 23.47 | ... |
| D† " (Kidderpore Res.) ... | Met. Water Board. | 5 | 1 0 | 323 π | 22.71 | 158 |
| " (New End Square) .. | Mr. W. Pikesley | 5 | 1 0 | ... | 21.04 | ... |
| " (Squire's Mount) ... | The Misses Field | 5 | 1 0 | 388 π | 22.98 | ... |
| D " (Golders Hill) | Lt.-Col. J. J. Sexby ... | 5 | 9 8 | 350 | 23.34 | 149 |
| D† ST. PANCRAS (Camden Square) ... | Dr. H. R. Mill | 8 | 0 9 | 111 π | 23.67 | 157 |
| † " (") weekly | " " " | 5 | 1 2 | 111 π | 23.69 | ... |
| D† " (") Snow g. | " " " | 8 | 3 5 | 113 π | 22.33 | 146 |
| † " (") float g. | " " " | 8 | 0 11 | 111 π | 23.40 | ... |
| D " (St. Augustine's Rd.) | A. E. Payne, Esq. | 5 | 1 0 | 150 | 23.79 | 155 |
| STOKE NEWINGTON | | | | | | |
| D† (New River Filter Beds) | Met. Water Board. | 5 | 1 0 | 101 π | 21.31 | 133 |
| D† " (" Reservoirs) | " " " | 5 | 4 0 | 105 π | 21.34 | 158 |
| † " (Woodberry Down) ... | H. Sowerby Wallis, Esq. | 5 | 1 0 | 114 π | 23.41 | ... |
| D HACKNEY (Clapton Pond) .. (R) | Norman Scorgie, Esq. C.E. | 8 | 2 6 | 70 π | 21.35 | 160 |
| D† HOLBORN (Stone Yard) | E. F. Spurrell, Esq. ... | 5 | 12 0 | 89 π | 22.15 | 135 |
| D† FINSBURY (New River Head) ... | Met. Water Board. | 5 | 3 8 | 100 | 19.92 | 132 |
| D CITY OF LONDON (Guildhall) ... | F. Sumner, Esq., C.E.. | 8 | 51 0 | 98 π | 22.91 | 142 |
| D " (") | " " " | 8 | 2 6 | 49 π | 21.64 | 142 |
| § SHOREDITCH (Old Street) | Royal Meteorological Soc | 5 | 1 0 | 70 π | 20.86 | 142 |
| D STEPNEY (Mile End) | J. Metson, Esq. | 5 | 14 0 | 50 | 22.91 | 136 |
| † " (Nature Study Museum) | Miss K. M. Hall. | 5 | 1 0 | 35 π | 21.03 | ... |
| D POPLAR (Isle of Dogs) | M Fitzmaurice Esq CMG | 8 | 1 0 | 15 π | 22.30 | 153 |
| D " (Old Ford) | Met. Water Board. | 8 | 0 9 | 19 π | 20.49 | 146 |
| D " (" Penstocks) ... | M Fitzmaurice Esq CMG | 8 | 1 0 | 35 π | 20.21 | 136 |
| WOOLWICH (N. Woolwich Pumpg. Sta.) | " " " | 8 | 0 9 | 12 | 20.85 | ... |
| D " (Barking Outfall) ... | " " " | 8 | 0 6 | 6 π | 20.77 | 163 |
| SOUTH OF THE THAMES. | | | | | | |
| BERMONDSEY (Southwark Pk.) (R) | Lt.-Col. J. J. Sexby ... | 5 | 10 0 | 19 π | 20.26 | ... |
| LAMBETH, | | | | | | |
| D§ West Norwood (Thornlaw Rd.) | W. Marriott, Esq. | 5 | 1 0 | 221 | 25.94 | 171 |
| D " (Brockwell Park) | Lt.-Col. J. J. Sexby ... | 8 | 1 3 | 140 π | 28.39 | 144 |
| D " Brixton (St. James's Road) .. | C. A. Bracey, Esq. | 5 | 1 2 | ... | 23.34 | 158 |
| D BATTERSEA (Battersea Park) ... | Lt.-Col. J. J. Sexby ... | 5 | 9 8 | 23 | 24.58 | 152 |
| D " Nine Elms (Heathwall) | M Fitzmaurice Esq CMG | 8 | 39 4 | 54 π | 19.73 | 156 |
| WANDSWORTH, | | | | | | |
| D† Streatham (Southwark W.W.) | Met. Water Board. | 5 | 4 1 | 120 | 24.23 | 147 |
| D " (Putney Heath) | " " " | 5 | 1 0 | 180 π | 23.15 | 164 |
| " Wimbledon Pk. (Woodhouse) | Sir A. E. Bateman ... | 5 | 1 1 | 150 | 24.89 | 136 |
| D§ " Wandsworth Com. (Patten Rd) | F. C. Bayard, Esq. ... | 5 | 1 0 | 100 | 24.73 | 183 |
| " Clapham Com. (Macaulay Rd.) | Miss A. H. Boyson. | 5 | 1 0 | 75 | 23.54 | ... |
| " " (The Chase) ... | H. N. Prentice, Esq. ... | 5 | 1 5 | 70 | 21.97 | ... |
| D CAMBERWELL (Dulwich Wood Pk) | F. C. Bayard, Esq. ... | 5 | 1 2 | 276 | 27.21 | 147 |
| D† " Nunhead (Southwark W.W.) | Met. Water Board. | 5 | 4 0 | 176 | 20.80 | 146 |
| D DEPTFORD (Telegraph Hill) | Lt.-Col. J. J. Sexby ... | 5 | 9 6 | 135 | 24.70 | 149 |
| † " (Kent Water Works) | Met. Water Board. | 5 | 1 0 | 20 | 23.13 | ... |

DIVISION I.—LONDON—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain. | Days with '01 or more recorded. |
|--------------------------------|-------------------------|-------------|---------------------|------------------------|----------------|---------------------------------|
| | | Diameter | Height Above Ground | Height Above Sea Level | 1908 | |
| | | in. | ft. in. | feet. | inches. | |
| SOUTH OF THE THAMES—(con.) | | | | | | |
| GREENWICH | | | | | | |
| † (Deptford Pumping Station) | M Fitzmaurice Esq CMG | 10 | 4 0 | 21 ½ | 25.52 | ... |
| D† „ (Royal Observatory) No. 8 | Sir W. Christie, K.C.B. | 8 | 1 0 | 150 ½ | 23.42 | 163 |
| D† „ „ „ No. 6 | „ „ „ | 8 | 0 5 | 150 ½ | 23.78 | 170 |
| † „ „ „ No. 7 | „ „ „ | 8 | 0 5 | 155 ½ | 22.74 | 164 |
| † „ „ „ No. 5 | „ „ „ | 8 | 10 0 | 165 ½ | 22.78 | 174 |
| † „ „ „ No. 4 | „ „ „ | 8 | 21 6 | 176 ½ | 20.84 | 166 |
| † „ „ „ No. 3 | „ „ „ | 8 | 38 4 | 193 ½ | 19.09 | 170 |
| † „ „ „ No. 2 | „ „ „ | 10 | 50 8 | 205 ½ | 15.53 | 131 |
| † „ „ „ No. 1 (R) | „ „ „ | ... | 50 8 | 205 ½ | 13.76 | ... |
| LEWISHAM, | | | | | | |
| Forest Hill (Dartmouth Rd.) | F. C. Bayard, Esq. ... | 5 | 1 0 | 220 | 24.57 | ... |
| D† „ „ „ (Barr Beacon)... | Met. Water Board..... | 5 | 1 0 | 344 ½ | 24.87 | 180 |
| WOOLWICH, Eltham (High St.) | „ „ „ | 5 | 1 0 | 245 | 23.79 | ... |

DIVISION II.—SOUTH EASTERN COUNTIES.

WEST SURREY.

| | | | | | | |
|--------------------------------------|------------------------------|---|------|-------|-------|-----|
| D Haslemere (Courts Hill) | late J. W. Penfold, Esq. | 8 | 4 0 | 481 ½ | 33.92 | 173 |
| D „ (Lowder Mill) | A. F. Parbury, Esq. | 5 | 0 10 | 501 ½ | 34.20 | 170 |
| D „ (Hazelhurst) | T. P. Newman, Esq. | 5 | 1 0 | 550 B | 34.54 | 197 |
| „ (Clammer Hill) | Col. Farquhar Glennie.. | 5 | 1 0 | 400 | 33.34 | 158 |
| „ (Grayswood Hill) ... | B. E. C. Chambers, Esq. | 5 | 1 0 | 580 ½ | 32.95 | ... |
| Dunsfold (Durfold) | Miss Billiter | 5 | 1 0 | 225 ½ | 27.15 | ... |
| D Chiddingfold (Beaconsroft)..... | Mrs. Maclear | 5 | 1 0 | 230 ½ | 29.66 | 168 |
| Hindhead (Stoatley Hall)..... | H. Simmons, Esq. | 5 | 1 0 | 800 | 33.06 | ... |
| Dunsfold Rectory | Rev. W. H. Winn..... | 5 | 1 0 | 170 | 28.75 | ... |
| Haslemere (Weycombe) | J. Buckton, Esq. | 5 | 1 0 | 562 ½ | 30.91 | ... |
| D Churt (Furze Hills) | Rev. Clements G.O. Bond | 5 | 1 0 | 390 | 27.93 | 137 |
| D Oakwood Vicarage..... | Rev. Canon J. Shearme | 5 | 0 9 | 285 ½ | 27.55 | 137 |
| D Witley (King Edward's School).. | J. Wood, Esq. | 5 | 1 3 | 400 | 29.80 | 151 |
| D „ (The Mount) | Mrs. J. H. Foster | 5 | 1 0 | 375 B | 31.64 | 161 |
| Hascombe Rectory..... | C. T. Musgrave, Esq. ... | 8 | 0 3 | 450 ½ | 30.56 | 131 |
| D Cranleigh Common (Homefield Cott.) | A. F. Jones, Esq. | 5 | 1 2 | 175 ½ | 30.83 | 170 |
| „ (Stonewall) | W. Welch, Esq. | 5 | 1 0 | 182 ½ | 32.35 | .. |
| § „ (County School) | Royal Meteorological Soc | 5 | 1 0 | 232 ½ | 29.89 | 178 |
| D „ (Winterfold) | Mr. R. Turvey | 8 | 3 6 | 603 ½ | 31.14 | 165 |
| D Bramley (Grafham Grange)..... | Sherringham A. Shepherd, Esq | 8 | 0 4 | 180 ½ | 27.86 | 143 |
| D Ewhurst (Downhurst Lodge) ... | Mr. W. Bradfield | 5 | 1 0 | 350 | 29.92 | 172 |
| „ (Malquoits)..... | W. Webb, Esq. | 5 | 1 6 | 400 | 32.50 | 163 |
| D „ (Coneyhurst) | Miss Ewart..... | 8 | 1 0 | 561 ½ | 32.45 | 198 |
| „ (Woolpit) | Mr. H. W. Perrin | 8 | 1 6 | 600 | 33.46 | ... |
| Abinger (Feldemore) | E. Waterhouse, Esq. | 5 | 3 6 | 505 ½ | 30.04 | ... |
| D „ (Joldwynds, Holmbury) | Mr. F. Cornish | 5 | 1 0 | 550 | 31.44 | 143 |
| D Godalming (Farncombe) | E. Killick, Esq. | 5 | 1 3 | 90 | 28.62 | 174 |
| D „ (Charterhouse) | O. H. Latter, Esq. | 5 | 1 0 | 315 ½ | 28.61 | 156 |

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 | 1908 | |
| | | in. | ft. in. | feet. | inches. | |
| WEST SURREY—(con.) | | | | | | |
| Wonersh (Shamley Green) | Mr. A. Nash..... | 5 | 1 0 | 400 | 30.40 | 159 |
| Tilford (Charleshill) | Mrs. Oliver | 5 | 1 0 | 230 B | 27.07 | 166 |
| Godalming (Tilthams) | Col. A. C. Bigg-Wither | 5 | 1 0 | 130 A | 25.58 | ... |
| Abinger Rectory | Miss Brodie Hall | 5 | 1 0 | 381 A | 29.88 | 164 |
| " Hall..... | Lord Farrer | 8 | 2 0 | 320 T | 33.72 | 165 |
| Farnham (Crooksbury Ridges)... | F.R. Walters, Esq. M.D. | 5 | 1 4 | 440 A | 27.95 | 198 |
| " (West Street)..... | V. B. Longhurst, Esq.. | 5 | 1 1 | 250 ? | 25.73 | 172 |
| " Castle | Mr. H. Dowding | 8 | 1 0 | 330 | 27.87 | ... |
| " (Short Heath Lodge)... | Col. G. Chrystie..... | 5 | 1 0 | 365 A | 28.44 | 204 |
| " (Great Down, Seale) ... | Mrs. Kitchin | 12 | 1 0 | 470 T | 24.74 | ... |
| Guildford (Piccard's Rough) ... | H.A. Powell, Esq., M.D. | 5 | 6 0 | 350 T | 23.90 | 163 |
| " (Briarfield) | Miss M. E. Swaine..... | 5 | 3 0 | 300 T | 26.31 | 154 |
| " (Newlands Corner) ... | Mr. H. Tann | 5 | 1 6 | 550 ? | 26.60 | 176 |
| " (Hillside) | Miss H. S. Pitman..... | 5 | 1 0 | 250 T | 27.19 | 227 |
| " (Maori Road) | J. H. Billing, Esq. ... | 5 | 1 0 | 230 | 25.16 | 165 |
| " (Cross Lanes) | F. Smallpiece, Esq..... | 5 | 0 8 | 200 | 24.26 | 172 |
| " (Craigie, Merrow) ... | Miss Lomer..... | 5 | 0 9 | 250 T | 23.49 | 159 |
| " (Burpham) | W. H. Burbidge, Esq.. | 5 | 0 8 | ... | 25.70 | 163 |
| " (Temple Court) | Arthur H. Bowles, Esq. | 8 | 4 0 | 264 T | 24.41 | 166 |
| High Clandon | F. B. Eastwood, Esq... | 5 | 0 6 | 500 T | 27.19 | ... |
| Horsley Towers | The Earl of Lovelace... | 8 | 1 2 | 285 A | 28.50 | ... |
| " (Woodcote Lodge) | Sir H. E. Roscoe, F.R.S. | 5 | 0 6 | 600 | 29.68 | ... |
| Frimley Green (Water Works)... | F. J. Garland, Esq. ... | 5 | 8 0 | 220 A | 19.74? | 144 |
| " (Ridgemount) ... | C. C. Haviland, Esq.... | 5 | 0 9 | 350 | 25.62 | 201 |
| " (Hale Cottage) | Dr. F. N. Brown | 5 | 1 6 | 210 A | 25.75 | 158 |
| Woking (The Grange) | Rev. F. Wilson | 5 | 0 8 | 78 T | 24.47 | 182 |
| " (Northwood) | S.P. Williams, Esq. C.E. | 5 | 1 3 | 119 A | 21.03 | ... |
| Pyrford (Pyrford Croft) | H.W. Page Phillips, Esq. | 5 | 1 6 | 100 ? | 23.24 | 147 |
| Brookwood (Knapp Hill) | Mr. G. C. H. Simmonds | 5 | 1 0 | 181 T | 23.22 | 156 |
| Horsell (Lindisaye) | H. Horncastle, Esq. ... | 5 | 4 2 | 120 T | 23.49 | 152 |
| " () ... weekly g. | " | 5 | 0 9 | 120 T | 23.43 | ... |
| " (Kettlewell Hill) | Claude Marzetti, Esq... | 5 | 0 9 | 115 | 23.16 | 170 |
| Wisley | S. T. Wright, Esq. ... | 8 | 1 0 | 130 | 23.15 | 154 |
| Camberley (Portesbury Hill) ... | R. L. Atkinson, Esq... | 5 | 1 6 | 325 ? | 24.88 | 189 |
| Chobham (Chobham House)..... | Miss C. M. Perceval ... | 5 | 1 6 | 80 | 26.24 | ... |
| West Byfleet (Broadoaks) | R.W. Pretor-Pinney Esq | 5 | 1 0 | 66 | 22.98 | 136 |
| Chertsey (Ottershaw) | R. H. Otter, Esq. | 5 | 1 0 | 200 T | 22.89 | 173 |
| " (Long Cross) | F. A. Baker, Esq..... | 5 | 3 0 | 205 T | 22.10 | ... |
| Windlesham (Westwood) | Col. G. A. Curzon | 5 | 0 10 | 300 T | 24.11 | ... |
| Sunningdale (The Camp) | Lady Hooker | 5 | 1 2 | 252 | 23.07 | 148 |
| Weybridge (Field Place) | G. A. Yool, Esq..... | 5 | 1 0 | 118 A | 23.41 | 184 |
| " () | " | 5 | 1 0 | 109 A | 22.93 | ... |
| " (Heath Field)..... | Miss A. T. Gardiner .. | 5 | 1 0 | 100 T | 22.25 | 147 |
| " (West Oaks) | A. Whittet, Esq. | 5 | 1 0 | 36 T | 23.72 | 169 |
| " (Station Road) | H. K. G. Rogers, Esq.. | 5 | 1 1 | 85 | 24.32 | ... |
| " (Lyncroft) | Maj.-Gen. J P Battersby | 5 | 0 10 | 70 | 25.00 | 176 |
| Virginia Water (Lyne Grove) ... | Mrs. Hare | 5 | 0 11 | 150 T | 22.98 | 176 |

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 | | 1908 |
| | | in. | ft. | in. | feet. | inches. | |
| WEST SURREY—(con.) | | | | | | | |
| D Virginia Water (St. Ann'sHeath) | Rev. J. Peck | 8 | 1 | 1 | 120 | 22·89 | 160 |
| D Egham (Runnymede Park) | J. R. FitzGerald, Esq. | 4 | 0 | 11 | 150 ? | 22·53 | 137 |
| EAST SURREY. | | | | | | | |
| D Lyden Croft [Edenbridge] | Surg.-Gen. C. Planck .. | 8 | 1 | 0 | 212 π | 28·26 | 166 |
| D Outwood (The Orchards) | F. C. Bayard, Esq. ... | 5 | 1 | 0 | 280 | 25·64 | 170 |
| †Dorking (Fir Tor) | F. Taylor, Esq. | 5 | 1 | 0 | 300 B | 31·29 | ... |
| D† „ (Rose Hill) | H. Belfield, Esq. | 5 | 1 | 3 | 250 | 29·96 | 171 |
| „ (West Street) | Mrs. W. A. Marsh..... | 8 | 26 | 0 | 224 T | 25·48 | 139 |
| D „ (Denbies) | Mr. J. Ansell | 5 | 0 | 9 | 610 T | 31·48 | 163 |
| D† „ (Pixham Firs)..... | J. Croft Deverell, Esq.. | 8 | 0 | 6 | 150 ? | 29·76 | 170 |
| Brockham (North Lodge) | H. R. Kempe, Esq. ... | 8 | 0 | 9 | 160 T | 28·98 | ... |
| D Reigate (Hartwood)..... | R. W. Clutton, Esq. ... | 5 | 1 | 0 | 174 | 27·90 | 171 |
| D South Nutfield (Hale Edge)..... | F. C. Bayard, Esq. | 5 | 1 | 0 | 270 | 26·21 | 162 |
| D Earlswood (Sewage Farm) | F. T. Clayton, Esq., C.E. | 5 | 1 | 0 | 196 π | 27·16 | 188 |
| Redhill (Station Road) | W. H. Fowler, Esq. ... | 5 | 22 | 0 | 270 | 28·00 | 163 |
| D Reigate (Holmfels) | T. Jackson, Esq. | 5 | 1 | 2 | 200 T | 28·30 | 135 |
| D „ (The Knowle) | G. Weston, Esq. | 5 | 1 | 0 | 390 T | 26·90 | 168 |
| „ (Wray Lodge) | A. Rosling, Esq. | 5 | 1 | 0 | 316 T | 27·76 | 158 |
| „ (Northcote) | F. C. Pawle, Esq. | 5 | 1 | 0 | 375 | 29·67 | 176 |
| D „ (Castle Grounds) | F. T. Clayton, Esq., C.E. | 5 | 1 | 6 | 350 π | 27·36 | 148 |
| „ (Laglands) | J. Welch, Esq. | 5 | 1 | 2 | 375 T | 29·40 | 167 |
| D Redhill (Sid Court) | Miss Janvrin | 5 | 1 | 0 | 290 | 31·53 | 194 |
| D Nutfield Priory | Mrs. Fielden | 8 | 1 | 2 | 468 π | 27·91 | 198 |
| D „ „ | Mr. J. Moffatt | 8 | 1 | 2 | 431 T | 27·04 | 189 |
| D „ (Holmesdale) | C. Trentham Maw, Esq. | 8 | 3 | 0 | 500 T | 25·62 | 145 |
| D Blechingley House | Rev. Canon AHS Barwell | 5 | 1 | 0 | 550 π | 28·36 | 180 |
| D Betchworth (Sandhills)..... | C. J. Whittington, Esq. | 8 | 3 | 0 | 250 T | 27·42 | 133 |
| D „ (The Holmes) .. | F. R. Rushton, Esq. ... | 5 | 0 | 8 | 322 T | 30·89 | 197 |
| Reigate (Hatherlow Observatory) | S. T. Klein, Esq..... | 5 | 0 | 9 | 405 | 26·52 | 144 |
| Dorking (High Ashurst) | Mr. G. Bond | 5 | 3 | 0 | 550 | 25·03 | ... |
| D Merstham (Rockshaw Lodge) ... | F. C. Bayard, Esq. ... | 5 | 1 | 0 | 475 | 28·14 | 142 |
| D§ Upper Gatton..... | F. Druce, Esq. | 5 | 1 | 0 | 601 | 30·90 | 169 |
| Headley (The Hurst) | F. C. Bayard, Esq. ... | 5 | 1 | 3 | 450 | 28·46 | ... |
| D Walton-on-the-Hill (Shirley)... | E. P. Hawthorn, Esq. ... | 5 | 0 | 6 | 650 | 28·18 | 158 |
| D Caterham Reservoir | A. E. Cornwall-Walker, Esq. | 5 | 1 | 0 | 705 π | 30·79 | 151 |
| Leatherhead (Downside) | A. Tate, Esq. | 5 | 1 | 0 | 250 | 26·42 | ... |
| D Chaldon Rectory | F. C. Bayard, Esq. ... | 5 | 1 | 0 | 542 | 29·25 | 147 |
| D Chipstead (Shabden Park) | „ „ „ .. | 5 | 1 | 0 | 550 | 30·03 | 177 |
| D Caterham Asylum | Dr. P. E. Campbell ... | 5 | 1 | 0 | 610 π | 30·07 | 180 |
| D „ Valley (Bradenhurst). | Henry Haes, Esq. | 5 | 1 | 0 | 600 B | 30·40 | 174 |
| D Warlingham (The Larches) | Mrs. B. F. Harris | 5 | 1 | 0 | 615 | 31·01 | 206 |
| D§ „ (Redvers Road) ... | R. H. Curtis, Esq. | 8 | 1 | 0 | 610 T | 30·01 | 172 |
| D „ (Egremont) | H. Rogers, Esq. | 5 | 1 | 0 | 614 B | 30·99 | 170 |
| D Banstead (Burgh Heath) | Capt. E. R. Taylor | 5 | 1 | 0 | 571 T | 28·99 | 162 |
| D „ „ „ Reservoir | W. Vaux Graham Esq CE | 5 | 1 | 6 | 600 π | 28·94 | 167 |
| D Chipstead (How Green Reservoir) | „ „ „ .. | 5 | 1 | 0 | 523 π | 28·13 | 150 |

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 | 1908 | |
| | | in. | ft. in. | feet. | inches. | |
| EAST SURREY—(con.) | | | | | | |
| D Kenley (Hazelea) | Mrs. Carr Dyer | 5 | 1 0 | 281 ∇ | 27.48 | 153 |
| D Ashted (Hill Field) | C. F. Howell, Esq. | 5 | 1 0 | 215 | 26.69 | 180 |
| D „ (D'Abernon Chase) | Sir W. Vincent, Bart. .. | 5 | 1 0 | 280 \uparrow | 24.40 | 146 |
| D „ (Barnet Wood Lane) | Rev. Theodore E. R. Phillips | 5 | 1 0 | 175 | 23.85 | 157 |
| D „ (Oakfield Road) | H. F. Acocks, Esq. ... | 5 | 0 9 | 180 | 24.61 | 142 |
| D Cobham (Hatchford Park) | Sir H. B. Samuelson, Bart | 8 | 1 0 | 170 | 23.07 | ... |
| D Banstead (The Hall) | F. C. Bayard, Esq. ... | 8 | 1 0 | 480 | 27.24 | 149 |
| D „ (Basing House) | „ „ „ | 8 | 1 0 | 456 | 27.13 | 142 |
| D „ (Benhilton) | „ „ „ | 5 | 1 3 | 125 | 25.88 | 163 |
| D Chelsham (Fairchildes) | A. S. Daniell, Esq. ... | 8 | 1 0 | 600 \uparrow | 28.51 | ... |
| D „ „ „ | Mr. G. Mansfield | 5 | 0 10 | 600 \uparrow | 28.55 | ... |
| D Epsom (Ashley Road) | Spencer C. Russell, Esq. .. | 5 | 1 0 | 161 \uparrow | 29.49 | 201 |
| D „ (Water Works) | W. Vaux Graham Esq CE | 5 | 3 1 | 149 ∇ | 24.48 | ... |
| D Weybridge (Burcote) | C. Sanger, Esq. | 5 | 0 9 | 120 | 22.81 | 165 |
| D Purley (Riddlesdown Road) No.1 | J. Edmund Clark, Esq. .. | 5 | 1 0 | 365 \uparrow | 27.82 | 181 |
| D „ „ „ „ No.2 | „ „ „ „ „ | 5 | 1 0 | 365 \uparrow | 28.18 | 187 |
| D „ (Pumping Station) | A. E. Cornwall-Walker, Esq. .. | 5 | 1 0 | 215 ∇ | 28.04 | 132 |
| D „ (Russell Hill) | C. J. Barker, Esq. | 8 | 1 0 | 314 ∇ | 24.54 | ... |
| D Sanderstead (Beechwood Road) .. | E. Alexander, Esq. ... | 5 | 0 10 | 370 | 25.09 | 163 |
| D Esher (Sewage Works) | F. C. Bayard, Esq. ... | 5 | 1 0 | 42 ∇ | 21.95 | ... |
| D South Croydon (Bramley Hill) .. | „ „ „ „ „ | 5 | 1 0 | 198 | 26.38 | 162 |
| D „ „ (Avondale Road) | Dr. G. J. Hinde, F.R.S. .. | 5 | 1 0 | 225 \uparrow | 27.63 | 190 |
| D Addington (Hares Bank) | F. C. Bayard, Esq. ... | 8 | 1 0 | 331 ∇ | 26.89 | 161 |
| D† „ Hills Reservoir | „ „ „ „ „ | 8 | 0 9 | 473 ∇ | 27.10 | 211 |
| D Wallington (Cotswold) | „ „ „ „ „ | 5 | 4 1 | 140 ∇ | 26.27 | 177 |
| D „ „ „ „ „ | „ „ „ „ „ | 8 | 1 0 | 140 ∇ | 25.77 | 187 |
| D Sutton (Water Works) | W. Vaux Graham Esq. CE | 5 | 1 6 | 166 ∇ | 23.56 | 138 |
| D „ (Sewage Works) | C. C. Smith, Esq., C.E. .. | 8 | 1 0 | 94 ∇ | 24.96 | 165 |
| D Carshalton (Sewage Works) | Baldwin Latham Esq CE | 5 | 1 0 | 118 ∇ | 23.81 | 141 |
| D Beddington (Sewage Farm) | F. C. Bayard, Esq. ... | 5 | 1 0 | 129 | 22.79 | 151 |
| D§ „ (Riverside) | „ „ „ „ „ | 5 | 1 0 | 120 | 25.80 | 161 |
| D Croydon (Waddon New Road) .. | G. Corden, Esq. | 5 | 1 0 | 146 | 25.54 | 157 |
| D „ (Woburn Road) | A. Malden, Esq. | 5 | 1 6 | 182 | 24.50 | 149 |
| D „ (Park Hill Rise) | H. F. Parsons, Esq., M.D. .. | 5 | 1 3 | 240 | 24.40 | 155 |
| D „ „ „ „ House) | Baldwin Latham Esq CE | 8 | 1 0 | 265 ∇ | 26.82 | 168 |
| D Worcester Park (Parkside) | A. Vaughan Pott, Esq. .. | 5 | 1 0 | 80 | 21.74 | ... |
| D „ „ (Manor Lodge) | F. C. Bayard, Esq. ... | 5 | 1 9 | 120 | 23.50 | 140 |
| D Beddington Corner (Millgreen Rd) | „ „ „ „ „ | 5 | 5 0 | 77 | 25.49 | 143 |
| D† Surbiton (Seething Wells) | Met. Water Board | 5 | 0 10 | 34 ∇ | 23.29 | 172 |
| D „ (Vronvelin) | F. J. Barclay, Esq. | 5 | 1 0 | 50 | 24.10 | 166 |
| D „ (Tandridge House) | Charles Price, Esq. ... | 5 | 0 10 | ... | 24.24 | 157 |
| D South Norwood (Woodvale) | F. C. Bayard, Esq. ... | 5 | 1 0 | 216 | 27.07 | 172 |
| D† West Molesey | Met. Water Board | 5 | 1 0 | 32 ∇ | 22.67 | 160 |
| D New Malden Sewage Works | F. C. Bayard, Esq. | 5 | 1 0 | 45 | 21.98 | 135 |
| D „ „ (Edenfield) | W. J. Carter, Esq. | 5 | 1 0 | 40 \uparrow | 24.51 | 164 |
| D Kingston (County Hall) | E. Underwood, Esq. ... | 5 | 0 9 | 31 \uparrow | 24.73 | 147 |
| D „ „ Sewage Works | F. C. Bayard, Esq. ... | 5 | 1 0 | 25 | 25.67 | 164 |
| D „ „ (Union Street) | Mr. T. Davis | 8 | 3 0 | 26 | 23.08 | 142 |

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 SeaLevel | 1908 | |
| | | in. | ft. | in. | feet. | inches. | |
| EAST SURREY—(con.) | | | | | | | |
| Norwood (Auckland Road) | Miss J. Cooper | 5 | 1 | 5 | 230 T | 24.49 | 145 |
| D Anerley (Town Hall)..... | H.W.Longdin, Esq. C.E. | 5 | 1 | 6 | 120 T | 24.66 | 142 |
| D Wimbledon (Raynes Park) | C. H. Cooper, Esq., C.E. | 5 | 1 | 0 | 50 T | 23.40 | 146 |
| D " (Kingston Road) ... | H. A. Marshall, Esq.... | 5 | 1 | 0 | 54 T | 25.77 | 169 |
| D " Park (Park View)... | S. Single, Esq. | 5 | 1 | 0 | 150 | 25.09 | 153 |
| D " (Sewage Works)..... | C. H. Cooper, Esq., C.E. | 5 | 1 | 0 | 55 T | 21.51 | 151 |
| D " (The Downs)..... | F. C. Bayard, Esq..... | 5 | 1 | 1 | 162 T | 25.42 | 174 |
| D " Common(The Priory) | H. J. Hunt, Esq. | 5 | 0 | 6 | 172 | 23.56 | ... |
| D Richmond (The Terrace) | F. C. Bayard, Esq. ... | 8 | 1 | 6 | 109 | 20.92 | 153 |
| D " (The Old Palace)..... | Rev. A. Welsh Owen... | 8 | 0 | 9 | ... | 21.73 | 139 |
| D† " (Kew Observatory) ... | Dr. C. Chree, F.R.S. ... | 11 | 1 | 9 | 19 T | 22.27 | 166 |
| D Kew (Kew Gardens Road) | Dr. L. Burrell | 5 | 1 | 2 | 19 | 23.02 | 176 |
| D " (Cumberland Gate) | F. C. Bayard, Esq. ... | 5 | 1 | 5 | 22 | 23.06 | 167 |
| WEST KENT. | | | | | | | |
| Hawkhurst (Hensill)..... | F. Ross Thomson, Esq. | 5 | 3 | 0 | 200 | 26.47 | ... |
| D " (Sandhurst Rectory) | Miss E. M. Ridout..... | 5 | 1 | 3 | 208 T | 27.56 | 152 |
| Tenterden (Summerhill) | Mrs. Wilkin | 8 | 1 | 0 | 150 T | 24.90 | 186 |
| " " | " " | 5 | 1 | 0 | 150 T | 25.92 | 186 |
| Benenden (Pullington) | Major H. Neve | 5 | 1 | 0 | 330 | 27.56 | 183 |
| D§ Tenterden | J. Ellis Mace, Esq. | 8 | 1 | 5 | 190 T | 24.14 | 192 |
| D§ " <i>Snowdon</i> | " " " | 8 | 1 | 5 | 190 T | 23.77 | 171 |
| " (West Cross) | J. Munn Mace, Esq. ... | 5 | 1 | 0 | 170 T | 24.91 | ... |
| " (Ashbourne Mills) ... | A. Pinyon, Esq..... | 5 | 1 | 6 | 45 T | 25.03 | ... |
| Cranbrook (Swattenden) | Miss Appach | 8 | 1 | 2 | 350 T | 26.27 | ... |
| " (Hartley) | G. Pile, Esq. | 5 | 4 | 0 | 405 T | 26.69 | ... |
| " " | " " " | 5 | 1 | 0 | 290 | 28.20 | 171 |
| Biddenden (Sandpit Wood) | J. Ellis Mace, Esq. ... | 5 | 1 | 0 | 222 T | 24.05 | ... |
| " " " | " " " | 8 | 0 | 9 | 222 T | 26.04 | ... |
| " " " | " " " | 5 | 1 | 0 | 218 T | 25.75 | ... |
| Goudhurst (Scotney Castle)..... | E. W. Hussey, Esq.... | 5 | 4 | 4 | 203 T | 25.36 | ... |
| " (Maypole) | G. Parker Hinds, Esq.. | 8 | 1 | 8 | 412 | 27.06 | ... |
| D " (Brandfold)..... | Mr. C. Markwell | 5 | 2 | 0 | 200 ? | 29.00 | 202 |
| D " (Gore Court) | J. A. Druce, Esq. | 5 | 1 | 0 | 196 | 27.33 | 195 |
| D Cranbrook (Camden Lodge)..... | Mr. A. Habbitts..... | 5 | 1 | 0 | 276 T | 27.82 | 144 |
| D Horsmonden (Broad Ford House) | Mrs. Maude..... | 5 | 1 | 0 | 96 T | 26.97 | 169 |
| D Tunbridge Wells (Langton Green) | W. L. Sutton, Esq. ... | 5 | 1 | 0 | 380 | 27.87 | 148 |
| D§ " " (Bredbury) ... | F. G. Smart, Esq..... | 5 | 1 | 0 | 418 T | 29.53 | 174 |
| D " " (Courtlands)(R) | E. Weldon, Esq. | 8 | 5 | 6 | 470 T | 28.13 | 162 |
| D† Speldhurst Rectory | Rev. D. D. MacKinnon | 5 | 1 | 0 | 320 T | 26.45 | 180 |
| D† " (Etherton Hill)..... | E. W. Winton, Esq.... | 5 | 1 | 5 | 288 T | 29.16 | 142 |
| D Tunbridge Wells (Pembury WW) | W.H. Maxwell, Esq. C.E. | 8 | 1 | 8 | 196 T | 25.79 | 151 |
| D Paddock Wood (Matfield Grange) | J. A. Perkin, Esq..... | 5 | 0 | 9 | 370 | 28.43 | 165 |
| D Southborough (The Hall) | Rev. G. A. Robins | 5 | 3 | 0 | 400 T | 29.65 | 164 |
| D Edenbridge (Falconhurst) | Rt. Hon. J. G. Talbot, MP | 5 | 1 | 3 | 400 | 30.92 | 161 |
| Tonbridge (Colebrooke)..... | W. A. Smith, Esq..... | 5 | 0 | 10 | 350 T | 27.83 | 155 |
| " " <i>Snowdon</i> | " " " | 5 | 1 | 0 | 350 T | 26.91 | 155 |
| D Edenbridge (Markbeech) | Rev. J. T. Pearse | 5 | 1 | 0 | 320 T | 27.81 | 163 |

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with '01 or more recorded. |
|------------------------------------|--------------------------|-------------|---------------------|------------------------|------------------------|---------------------------------|
| | | Diameter | Height Above Ground | Height Above Sea Level | | |
| | | in. | ft. in. | feet. | inches. | |
| WEST KENT—(con.) | | | | | | |
| Staplehurst (Lindridge Farm)... | J. Norris, Esq. | 5 | 1 4 | 310 \nearrow | 27.59 | 168 |
| D Paddock Wood Vicarage | Rev. G. B. Charles ... | 5 | 1 0 | 75 | 23.47 | 150 |
| D Tonbridge (Penshurst Park)..... | Mr. J. M. Sturgess ... | 5 | 0 9 | 265 \uparrow | 28.00 | 166 |
| D " (Mabledon Park)..... | J. F. W. Deacon, Esq.. | 5 | 1 2 | 190 ? | 27.78 | 134 |
| D " (Brooklands) | G. J. Kimmins, Esq., | 5 | 0 6 | 120 \nearrow | 26.52 | 146 |
| D " (Ingleside) | Arthur H. Neve, Esq., | 5 | 0 11 | 160 | 27.43 | 178 |
| D " (Beech Hurst)..... | W. C. Punnett, Esq.... | 5 | 1 6 | 102 \nearrow | 27.61 | 168 |
| D " (" ")Snowdon " " " .. | " " " .. | 5 | 1 6 | 102 \nearrow | 27.09 | 168 |
| D " (" ") | M " " " .. | 8 | 4 0 | 105 \nearrow | 26.44 | ... |
| D " (London Road) | Dr. G. H. Cressy | 5 | 1 6 | 105 | 27.23 | 150 |
| D Edenbridge (Cluny) | J. L. Boyson, Esq..... | 5 | 1 0 | 161 \uparrow | 26.02 | 192 |
| D Hadlow (Golden Green)..... | F. W. E. Shrivell, Esq. | 5 | 1 0 | 100 | 24.85 | 188 |
| Edenbridge (Crockham Hill) ... | E. C. Ouvry, Esq. | 5 | 1 0 | 705 \uparrow | 29.50 | ... |
| D§Hildenborough (Hollanden Ho.).. | C. H. Scott, Esq. | 8 | 1 0 | 161 | 24.43 | 139 |
| D Ulcombe Place | A. O. Walker, Esq. | 5 | 1 0 | 350 \uparrow | 23.75 | 158 |
| D Maidstone (Linton Park) | Mr. C. Pratt ... | 5 | 0 8 | ... | 23.14 | 155 |
| D " (Rumwood, Langley) | W. S. Forster, Esq. | 5 | 1 9 | 354 | 23.36 | 168 |
| D " (Lower Tovil) | Lawrence Green, Esq., | 5 | 1 0 | 30 \downarrow | 21.64 | 164 |
| D " (W.W., Barming) .. | W. J. Ware, Esq., C.E. | 8 | 1 0 | 30 \nearrow | 24.93 | 158 |
| D " (Long Rede, ") .. | Rev. T. W. Carr | 8 | 3 2 | 280 \uparrow | 23.47 | 151 |
| D† " (Brenchley Gardens)... | T.F.Bunting, Esq., C.E. | 5 | 0 9 | 50 | 23.62 | 175 |
| D† " (Mill Street).... | " " " .. | 8 | 6 0 | 38 \nearrow | 22.37 | 157 |
| D East Malling (Broadwater) | C. B. Mercer, Esq. | 5 | 1 6 | 169 | 27.49 | 185 |
| D West Malling (St. Leonards) ... | G. Phillips, Esq. | 5 | 1 0 | ... | 27.22 | 165 |
| D Maidstone (Allington Lock)..... | Mr. J. Rose | 5 | 1 0 | 45 ? | 22.78 | 131 |
| D†Detling (The Croft) | R. Cooke, Esq. | 5 | 1 2 | 330 \uparrow | 23.86 | 183 |
| Maidstone (Allington) | Messrs.G.Bunyard&Co. | 5 | 1 6 | 150 \downarrow | 23.33 | ... |
| D Westerham (The Fishponds) .. | Met. Water Board..... | 5 | 1 0 | 380 | 28.09 | 152 |
| D " Hill Estate | " " " .. | 5 | 1 0 | 539 | 27.95 | 154 |
| D†Sevenoaks (River Hill)..... | Lt.-Col.J.M.Rogers, DSO | 8 | 4 0 | 535 \nearrow | 27.19 | 154 |
| D " (Soar Farm, Plaxtol) .. | H. Stonham, Esq. | 5 | 3 0 | 300 \uparrow | 25.96 | 133 |
| D " (Bitchet Wood) | Admiral G.S.Bosanquet | 5 | 1 0 | 580 \uparrow | 28.86 | ... |
| D " (Dartford Road) | W. W. Wagstaffe, Esq. | 5 | 1 3 | 404 \uparrow | 30.03 | 166 |
| D†Brasted (Combe Bank)..... | Robert Mond, Esq..... | 8 | 0 10 | 323 \nearrow | 28.46 | 136 |
| Tatsfield (Betsom Hill)..... | Met. Water Board..... | 5 | 0 7 | 820 \nearrow | 30.54 | ... |
| Sevenoaks (Seal, St. Lawrence Res) | T. W. Heath, Esq. | 8 | 1 0 | 665 \nearrow | 27.64 | ... |
| " (" Oak Bank Res.) .. | " " " .. | 8 | 1 0 | 550 \nearrow | 29.05 | ... |
| " (Kemsing Pumping Sta.) .. | " " " .. | 5 | 1 0 | 292 \nearrow | 28.68 | ... |
| D " (Chevening Gardens)... | Mr. C. Sutton..... | 5 | 1 0 | 360 | 31.90 | 156 |
| D Ightham (Belmont Lodge) | Burleigh D. Kilburn Esq | 5 | 1 4 | 380 \uparrow | 29.69 | 222 |
| Lusted [Tatsfield] | Mrs. Owen Wynne ... | 5 | 1 0 | 730 \uparrow | 28.83 | ... |
| †Knockholt (Kent Waterworks)... | Met. Water Board..... | 5 | 24 6 | 812 | 27.43 | ... |
| † " (" ") .. | " " " .. | 5 | 1 0 | 785 | 30.07 | ... |
| Otford (Beechy Lees) | Mr. R. Edwards..... | 5 | 0 10 | 480 \uparrow | 29.14 | 161 |
| D Farnborough (Downe Council Sch.) | A. J. Ridge, Esq. | 5 | 0 10 | 500 \uparrow | 32.12 | 170 |
| D†Halstead Rectory | Rev. F. H. Deane | 5 | 1 0 | 539 \uparrow | 30.35 | 200 |
| Chelsfield (Fairtrough)..... | Cecil Berens, Esq..... | 5 | 1 11 | 499 \uparrow | 29.95 | ... |
| D Keston..... | F. C. Bayard, Esq. ... | 5 | 1 0 | 300 | 28.93 | 143 |

(Inet Lodge)

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 | 1908 | |
| | | in. | ft. | in. | feet. | inches. | |
| WEST KENT—(con.) | | | | | | | |
| West Wickham (Wickham Court) | F. C. Bayard, Esq. ... | 5 | 1 | 2 | 300 | 28·19 | 136 |
| Hayes (Hayes Place)..... | " " " " " " " " | 8 | 1 | 0 | 350 | 27·02 | ... |
| Orpington (Kent Waterworks)... | Met. Water Board..... | 5 | 1 | 0 | 220 | 25·88 | 157 |
| Bredhurst Vicarage | Rev. E. E. Phillips ... | 5 | 1 | 0 | 450 | 24·48 | 149 |
| Halling Pumping Station..... | F. L. Ball, Esq..... | 5 | 1 | 0 | 75 | 21·55 | 144 |
| Chatham (Luton W.W.) | W. Coles Finch, Esq.... | 5 | 3 | 0 | 88 | 21·13 | 143 |
| Meopham | Jesse Garratt, Esq. ... | 5 | 1 | 1 | 290 | 22·59 | 144 |
| Farningham Vicarage | Rev. L. A. Williams... | 5 | 0 | 6 | 117 | 24·26 | 170 |
| Rochester (Knights Place) | J. Pye, Esq. | 5 | 3 | 0 | 320 | 23·12 | 175 |
| Strood Water Works | W. Banks, Esq., C.E.... | 5 | 3 | 0 | 112 | 22·40 | 183 |
| Frindsbury (The Shrubbery) ... | Warwick Stunt, Esq. .. | 5 | 1 | 6 | 150 | 22·49 | 149 |
| " (Manor Farm) | F. Baker, Esq. | 5 | 1 | 0 | 100 | 21·82 | ... |
| Bromley Common (Elmfield) ... | Rev. J. P. Faunthorpe.. | 5 | 0 | 9 | 240 | 23·73 | 136 |
| Bickley (Sunnydene) | J. Wrench Towse, Esq. | 5 | 1 | 0 | 270 | 24·57 | ... |
| " (The High Field)..... | the late J. Batten, Esq. | 5 | 1 | 2 | 295 | 24·80 | 141 |
| Bromley (Widmore Road) | D. G. Simpson, Esq. ... | 8 | 1 | 0 | 260 | 24·52 | 169 |
| " (The Palace) | F. C. Bayard, Esq. ... | 5 | 1 | 0 | 187 | 24·52 | 148 |
| " (Lansdown Road) | C. A. Case, Esq. | 5 | 1 | 0 | 220 | 23·15 | ... |
| " (Rodway Road) | E. Kinder, Esq..... | 5 | 1 | 6 | 220 | 23·75 | 158 |
| " (Kinnaird Avenue) ... | C. T. Drew, Esq. | 8 | 2 | 0 | 300 | 21·89 | 159 |
| Shortlands (The Gables) | A. March Tapp, Esq.... | 5 | 1 | 0 | 200 | 24·21 | ... |
| Beckenham..... | J. A. Angell, Esq..... | 8 | 1 | 0 | 110 | 28·44 | 157 |
| Chislehurst (Foxbury) | H. F. Tiarks, Esq..... | 8 | 5 | 6 | 250 | 24·69 | 186 |
| " (Hawkwood) | F. C. Bayard, Esq..... | 5 | 1 | 0 | 300 | 23·65 | 145 |
| Gravesend (Thong) | C. H. Scriven, Esq. ... | 5 | 1 | 0 | 255 | 24·52 | 188 |
| Frindsbury (Stonehouse) | E. W. Wood, Esq..... | 5 | 5 | 0 | 20 | 21·69 | 144 |
| Southfleet (Kent Waterworks)... | Met. Water Board..... | 5 | 1 | 0 | 82 | 20·57 | 171 |
| Wilmington (" ")..... | " " " " " " " " | 5 | 1 | 0 | 25 | 19·51 | 153 |
| Dartford (West Hill House)..... | F. C. Bayard, Esq. ... | 5 | 1 | 3 | 100 | 23·79 | 135 |
| Higham (Oakleigh) | C. Lake, Esq..... | 8 | 1 | 2 | 25 | 19·19 | ... |
| Cooling (Broomy Farm) | Mr. J. Filmer | 5 | 1 | 6 | 10 | 20·35 | 158 |
| Hoo St. Mary (St. Mary's Hall)... | H. Pye, Esq., Junr. ... | 5 | 5 | 6 | 146 | 18·23 | 150 |
| Erith (Crossness) | MFitzmaurice EsqCMG | 14 | 0 | 6 | 16 | 20·40 | 148 |
| EAST KENT. | | | | | | | |
| §Dungeness | Meteorological Office ... | 8 | 1 | 3 | 21 | 24·57 | 190 |
| Hythe (Hillcrest Road) | J. B. Jordan, Esq..... | 5 | 1 | 0 | 190 | 25·75 | 173 |
| " (Sandling Park).....No. 1 | Lawrence Hardy EsqMP | 8 | 1 | 0 | 268 | 27·45 | 149 |
| " (" ").....No. 2 | " " " " " " " " | ... | 1 | 0 | 268 | 26·74 | 145 |
| " (Hillhurst Farm) | G. F. Deedes, Esq. ... | 5 | 1 | 6 | 280 | 26·68 | 173 |
| Sandgate..... | R. A. Skelton, Esq., C.E. | 5 | 1 | 0 | 52 | 21·22 | 145 |
| §Folkestone (Sanatorium) | M. Yunge Bateman, Esq. | 5 | 1 | 0 | 102 | 23·64 | 161 |
| " (Surrenden Road) ... | J. Duncanson Walker, Esq. | 5 | 1 | 0 | 160 | 23·90 | 147 |
| " (Radnor Park) | J. W. Stainer, Esq. ... | 5 | 4 | 8 | 129 | 23·14 | 151 |
| " (Cherry Gardens) ... | H. Turner, Esq..... | 5 | 1 | 6 | 230 | 26·28 | 175 |
| Folkestone (Capel Lodge)..... | E. Norton, Esq., M.D.. | 5 | 1 | 0 | 470 | 25·45 | 164 |
| " (Lower Standen, Capel)... | H. Turner, Esq... .. | 5 | 2 | 11 | 250 | 28·09 | 151 |

(Croydon Rec. Form)

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by request 7.1.10

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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 | 1908 | |
| | | in. | ft. in. | feet. | inches. | |
| WEST SUSSEX—(con.) | | | | | | |
| § Bognor | Royal Meteorological Soc | 8 | 1 0 | 15 | 22.37 | 181 |
| „ (Lidsey Lodge) | H. Neale, Esq. | 8 | 1 2 | 25 | 23.31 | 129 |
| D Littlehampton (Dorset House)... | G. H. Beecheno, Esq. ... | 5 | 2 0 | 30 | 22.02 | 132 |
| D Worthing (Victoria Park) | Dr. R. H. Wilshaw ... | 8 | 1 0 | 36 ∇ | 22.15 | 146 |
| D West Thorney (The Manor House)... | H. Padwick, Esq. | 5 | 1 0 | 23 \uparrow | 22.67 | 131 |
| D Arundel (Yapton) | G. Harrison, Esq. | 5 | 1 0 | 24 ∇ | 21.91 | 130 |
| D „ (Drove Farm). „ | „ „ „ | 5 | 1 0 | 14 ∇ | 21.79 | 129 |
| Angmering | Rev. J. B. Orme | 5 | 0 9 | 44 | 23.70 | ... |
| D Tortington | Major J. A. Travers ... | 5 | 1 0 | 25 ∇ | 24.48 | 160 |
| D Chichester (Westgate Meadow)... | G. A. Tyacke, Esq. ... | 8 | 0 6 | 40 | 25.01 | 157 |
| Arundel (Patching) | J. Drewitt, Esq. | 5 | 1 0 | 180 | 26.59 | 139 |
| D „ „ | Mrs. Joad | 5 | 0 10 | 130 \uparrow | 25.32 | 132 |
| D West Bourne [Emsworth] | Rev. L. B. Birkett | 5 | 0 8 | 50 \uparrow | 26.88 | 163 |
| D Funtington | J. A. Greenwood, Esq. ... | 5 | 1 0 | 95 \uparrow | 25.64 | 147 |
| West Stoke Rectory | Rev. W. F. Shaw | 5 | 1 0 | 176 \uparrow | 28.51 | 133 |
| Chichester (Goodwood Gardens)... | Mr. F. Brock | 5 | 1 3 | 200 \uparrow | 29.86 | 170 |
| Steyning | Col. Ingram | 5 | 1 0 | 80 \uparrow | 28.23 | ... |
| „ (Crescent Road) | Mr. H. J. Hide | 5 | 1 0 | 80 \uparrow | 28.77 | ... |
| D Chichester (Watergate) | W. M. Christy, Esq. ... | 5 | 1 0 | 236 \uparrow | 31.33 | 177 |
| „ (West Dean Park) ... | Mr. W. H. Smith | 10 | 1 6 | 190 \uparrow | 34.85 | ... |
| „ (Chilgrove) | J. W. Woods, Esq. ... | 5 | 0 6 | 284 \uparrow | 31.86 | ... |
| Sutton (Coldharbour) | Mr. J. Campbell | 5 | 2 0 | ... | 30.95 | ... |
| Midhurst (Linch Farm, Bepton)... | G. Eames, Esq. | 5 | 0 8 | 276 \uparrow | 32.09 | 130 |
| „ (Fairfield, Bepton) ... | Major W. A. Chauncey.. | 5 | 0 8 | 155 ∇ | 27.71 | 128 |
| D „ (Oakhurst) | Miss Jebb | 5 | 1 5 | 200 | 31.45 | 190 |
| Stedham (Rotherhill) | Dr. W. A. Wills | 8 | 0 8 | 170 \uparrow | 31.57 | ... |
| D Easebourne (Hollist House) | Nigel V. Combe, Esq. ... | 5 | 0 10 | 107 ∇ | 30.18 | 160 |
| D Compton [Petersfield] | Rev. H. M. Langdale...
... | 5 | 1 0 | 255 ∇ | 32.37 | 161 |
| D Petworth Park | Mr. E. W. Pull | 5 | 1 0 | 182 \uparrow | 30.98 | 141 |
| Cowfold (Maple Bank) | Mr. S. Ford | 5 | 1 6 | 373 | 25.90? | ... |
| Tillington (River House) | Lady Cunliffe | 5 | 1 0 | 230 | 29.61 | 151 |
| Midhurst (Lodsworth) | Lt.-Col. E. O. Hollist, RA | 8 | 1 3 | 220 \uparrow | 27.56 | 137 |
| § „ (K. Edward VII. San.) | Roy. Meteorological Soc. | ... | ... | 489 | 29.90 | 149 |
| D Linchmere (Borden Wood) | E. G. Lamb, Esq., M.P. | 8 | 1 0 | 260 \uparrow | 33.63 | 177 |
| „ (Hollycombe) | J. C. Hawkshaw, Esq.. | 8 | 6 6 | 550 | 32.02 | ... |
| Billingshurst (Hawkhurst Court) | B. de F. Osmaston, Esq. | 5 | 1 6 | 120 | 26.70 | ... |
| D Fernhurst (Blackdown House)... | Lady Philipson Stow... | 5 | 1 10 | 900 \uparrow | 27.98 | 136 |
| D Lower Beeding (Leonardslee) ... | Mr. W. A. Cook | 8 | 1 0 | 365 | 28.78 | 178 |
| D „ „ (South Lodge)... | F. D. Godman, Esq. F.R.S. | 5 | 1 3 | 300 ? | 29.76 | 167 |
| D „ „ (Forest House)... | W. E. Hubbard, Esq. ... | 6 | 2 0 | 290 | 27.86 | 148 |
| D Horsham (Denne Park) | Mr. H. Harris | 5 | 4 0 | 246 \uparrow | 27.48 | 135 |
| § „ (Christ's Hospital) | Royal Meteorological Soc | 5 | 1 0 | 161 | 26.26 | 160 |
| Slinfold (Rapkyns) | W. Duncan Knight, Esq. | 5 | 1 0 | 170 | 26.70 | ... |
| + Horsham (Manor House) | H. Padwick, Esq. | 8 | 0 10 | 140 \uparrow | 27.77 | 142 |
| D† „ (Richmond Road) | M. L. Craven, Esq. ... | 5 | 1 2 | 170 | 29.87 | 183 |
| D† „ (Wimblehurst) | Miss E. M. Allcard ... | 5 | 1 0 | 195 \uparrow | 27.39 | 175 |
| Linchmere (Shottermill) | Rev. C. Holland | 5 | 4 0 | 450 | 34.04 | ... |

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 | 1908 | |
| | | in. | ft. in. | feet. | inches. | |
| EAST SUSSEX. | | | | | | |
| †Beachy Head | Miss Brodie Hall..... | 5 | 1 0 | 515 T | 17·43? | ... |
| †Eastbourne (Wilmington Square) | Meteorological Office ... | 5 | 0 6 | 36 | 25·80 | 154 |
| D „ (Glenthorne) | Miss Woodd | 8 | 1 6 | 86 T | 25·98 | 189 |
| „ (Arundel Road) | J. C. Wright, Esq..... | 5 | 0 4 | 70 | 28·16 | ... |
| „ (Cemetery) | Miss Brodie Hall | 5 | 4 0 | 160 T | 22·16 | ... |
| D „ (Staveley Cross) | J. Weston, Esq. | 5 | 1 6 | 110 T | 25·24 | 169 |
| Seaford College | Col. F. W. Savage..... | 5 | 1 6 | 44 T | 19·33 | ... |
| D West Dean | F. Stileman, Esq., C.E. | 8 | 1 0 | 112 T | 21·87 | 173 |
| D Jevington (Church Farm) | „ „ „ | 8 | 0 9 | 274 T | 29·17 | 162 |
| Litlington (Plough & Harrow Inn) | „ „ „ | 8 | 1 0 | 19 T | 21·15 | ... |
| D Newhaven (Poverty Bottom) ... | J. T. Bickford, Esq. ... | 8 | 1 1 | 51 T | 22·96 | 136 |
| D § Brighton (Old Steyne) | D. Forbes, Esq., M.D.. | 5 | 1 0 | 32 T | 21·45 | 136 |
| D „ (W.W.GoldstoneBottm) | J. Johnston, Esq., C.E. | 8 | 0 7 | 140 T | 23·37 | 144 |
| D „ („ Lewes Road)... .. | „ „ „ | 8 | 3 6 | 88 T | 24·25 | 143 |
| D „ („ UpperPortslade) | „ „ „ | 8 | 1 3 | 167 T | 22·89 | 138 |
| D „ („ Patcham) | „ „ „ | 5 | 1 6 | 207 T | 26·99 | 158 |
| D „ („ Race Hill) ... | „ „ „ | 8 | 1 0 | 466 T | 24·87 | 145 |
| D „ (PrestonDrove,Preston) | F. H. Phillips, Esq. ... | 8 | 1 0 | 143 T | 21·95 | 156 |
| D „ (Ditchling Road, „) | G. Berry Hamlin, Esq. | 5 | 1 0 | 302 T | 24·58 | 156 |
| „ (Upper Roedale)..... | „ „ „ | 5 | 1 0 | 385 T | 25·12 | ... |
| †Bexhill (Marina) | Roy „Meteorological Soc. | 8 | 1 0 | 27 | 24·00 | 156 |
| §St. Leonards (West Marina) ... | H. Colborne, Esq..... | 8 | 1 0 | 21 T | 22·59 | 151 |
| § „ „ (Gensing Gardens). | „ „ „ | 8 | 1 0 | 179 T | 22·01 | 162 |
| D Polegate (Alciston) | R. Matthews, Esq..... | 5 | 1 0 | 172 T | 27·77 | 167 |
| Hailsham | Rev. F. Clyde Harvey.. | 5 | 1 0 | 105 | 28·08 | ... |
| D Falmer | R. R. Verrall, Esq. ... | 5 | 4 0 | 312 T | 27·77 | 167 |
| D „ (Brighton W.W.)..... | J. Johnston, Esq., C.E. | 8 | 1 8 | 209 T | 23·54 | 156 |
| §Lewes (Little Dean) | Hon. C. Brand | 8 | 1 0 | 58 | 26·74 | 220 |
| D „ (Bedford Lodge) | Mrs. Kemp | 5 | 1 0 | 85 T | 23·13 | 175 |
| D Hailsham (Magham Down) | W. E. Bear, Esq. | 5 | 2 9 | 90 T | 26·55 | 142 |
| Hurstmonceux Place..... | H. A. James, Esq..... | 5 | 1 8 | 83 T | 23·63 | ... |
| D Hastings (Newgate) | P. H. Palmer, Esq., CE | 8 | 5 6 | 240 | 23·81 | 141 |
| „ (Filsham Reservoir) ... | H. Colborne, Esq..... | 5 | 0 10 | 91 | 23·67 | ... |
| „ (Halton Reservoir)..... | „ „ „ | 5 | 0 10 | 301 | 22·51 | ... |
| „ (Fairlight Reservoir) ... | „ „ „ | 5 | 0 10 | 510 | 22·92 | ... |
| D § „ (Cemetery) | Walter Field, Esq. ... | 5 | 0 8 | 500 | 22·91 | 154 |
| „ (High Beech Hollington) | Miss Lewis | 5 | 1 0 | 320 T | 24·31 | 174 |
| D „ (Guestling Rectory) ... | Rev. E. N. Bloomfield. | 5 | 1 5 | 125 T | 24·24 | 143 |
| D Hassocks (Pyecombe) | Mr. F. S. Mitchell | 5 | 0 7 | 392 | 28·34 | 145 |
| Clayton Rectory..... | Rev. T. H. R. Shand... | 9 | 1 6 | 201 T | 28·19 | 151 |
| Hurstpierpoint (Danny Park) ... | Mr. J. J. Bunney | 8 | 1 3 | 180 | 31·28 | ... |
| D Horeham Manor | Miss P. C. Harrison ... | 5 | 0 9 | 250 | 25·67 | 196 |
| D „ Grange | W. F. Beauford, Esq.. | 5 | 1 2 | 260 T | 27·14 | 156 |
| „ Road(HollycroftCottage) | J. Hamlin, Esq..... | 5 | 1 0 | 300 T | 28·24 | ... |
| D Isfield Place | Major H. King | 5 | 1 0 | 51 | 24·33 | 153 |
| „ „ | „ „ | 5 | 1 0 | 51 | 24·19 | ... |
| „ „ | „ „ | 5 | 1 0 | 51 | 24·34 | ... |
| D Battle (North Lodge) | H. Hamilton Bridge, Esq | 5 | 1 3 | 284 | 26·49 | 184 |

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 | 1908 | |
| | | in. | ft. | in. | feet. | inches. | |
| EAST SUSSEX—(con.) | | | | | | | |
| D Battle (Whatlington) | Miss H. Gripper..... | 5 | 1 | 3 | 90 T | 27·89 | 160 |
| Udimore (The Hammonds) | J.G.Mair-Rumley, Esq. | 8 | 1 | 0 | 144 T | 21·69 | 144 |
| Burgess Hill (Ote Hall) | Mrs. Woods | 5 | 1 | 6 | ... | 29·01 | .. |
| Uckfield (Agricultural College)... | Prof. S. Allinson Woodhead | 8 | 1 | 0 | 166 T | 26·50 | 142 |
| D Heathfield (The White Cottage) | J. F. Leigh Clare, Esq. | 5 | 1 | 3 | 500 T | 27·67 | 163 |
| D " (Tottingworth Park). | Mr. J. Masson..... | 5 | 1 | 0 | 500 T | 28·84 | 149 |
| D Bolney Vicarage | Rev.T. Austen Holcroft | 5 | 0 | 11 | 99 T | 25·48 | 146 |
| D Uckfield (Sheffield Park) ... | Mr. W. T. Moore | 5 | 1 | 0 | 150 | 25·79 | 156 |
| D HaywardsHeath(S.Wilfrid'sPar.) | Mr. J. E. Shirley | 5 | 1 | 0 | 300 | 26·69 | 154 |
| D Robertsbridge (Salehurst Vic.)... | Rev. E. J. Sing | 5 | 0 | 9 | 110 T | 29·28 | 193 |
| D Buxted Park | Mr. H. C. Prinsep..... | 8 | 1 | 0 | 94 | 28·80 | 187 |
| D " (Strawberry Hall)..... | C. Rintoul, Esq..... | 5 | 1 | 0 | 180 | 29·24 | 135 |
| D Lindfield (Wood Knoll) | L. Weedon, Esq. | 5 | 1 | 0 | 188 T | 27·45 | 188 |
| D Mayfield (Five Ashes) | Miss Emily Aston | 5 | 1 | 8 | 300 | 28·13 | 204 |
| D Bodiam (South Park) | L. M. Jackson, Esq. ... | 5 | 1 | 1 | 208 T | 25·88 | 144 |
| D Etchingham (Shoyswell Manor). | Isaac Seligman, Esq.... | 4 | 1 | 9 | 250 T | 29·58 | 137 |
| D Nutley Vicarage | Rev. H. J. Peckham ... | 5 | 1 | 0 | 386 T | 27·50 | 180 |
| D " (The Hall)..... | The Misses Cook | 5 | 0 | 10 | 417 | 26·37 | 171 |
| D " (Chelwood Beacon) | SirH.ClarkeJervoise,Bt | 5 | 1 | 3 | 530 T | 31·49 | 178 |
| D Crowborough (Jarvis Brook)..... | CrowboroughWater Co. | 5 | 1 | 0 | 325 T | 31·21 | 147 |
| D " (Te Whare)..... | Miss Hames | 5 | 1 | 0 | 796 T | 34·23 | 230 |
| D Haywards Heath (Brook House) | H. R. G. Clarke, Esq.. | 8 | 1 | 0 | 240 | 28·60 | 149 |
| D Ardingly (Lywood House) | G. Forrester Scott, Esq. | 5 | 0 | 9 | 240 T | 27·09 | 176 |
| D Balcombe (The Gables) | Mr. G. J. Warren | 8 | 1 | 3 | 352 T | 30·29 | 184 |
| D Wadhurst (The Olives)..... | Miss Edith P. Luck ... | 5 | 1 | 0 | 380 | 26·81 | 204 |
| D Ticehurst (Myskyns)..... | E. H. Cartwright, Esq. | 5 | 1 | 0 | 350 T | 28·47 | 214 |
| D " House | Mr. J. D. Jordan | 5 | 4 | 9 | 423 T | 27·66 | 142 |
| D " (Whiligh)..... | G. J. Courthope, Esq... | 5 | 1 | 0 | 455 T | 28·90 | 174 |
| D Wadhurst (Uplands) | Miss M. C. Watson ... | 5 | 1 | 0 | 480 | 29·89 | 173 |
| D " (Lower Cousley Wood) | F. Wilkin, Esq..... | 5 | 1 | 0 | 416 T | 27·57 | 168 |
| D Balcombe (Stockcroft) | R. Newton, Esq. | 5 | 1 | 1 | 341 T | 31·17 | 184 |
| D Forest Row (Wych Cross Place).. | D. W. Freshfield, Esq. | 5 | 0 | 10 | 600 T | 32·29 | 158 |
| D " " (Hindleap Lodge)... | Mr. A. Adam | 5 | 1 | 6 | 620 | 27·48 | ... |
| D " " (Charlwood Farm)... | A. Hoare, Esq. | 5 | 1 | 0 | 250 T | 28·76 | ... |
| D Frant (Eridge Castle) | Mr. A. Wilson | 5 | 2 | 0 | 400 | 32·43 | 138 |
| D " (Highfield) | C. M. R. Clewe, Esq... | 5 | 2 | 3 | 413 | 27·83 | ... |
| D Crawley Down (Grange) Snowdon | T. H. W. Buckley, Esq. | 5 | 1 | 0 | 430 T | 29·79 | 169 |
| D " " " " " " " " " " " " | " " " " " " " " " " " " | 5 | 0 | 9 | 430 T | 30·86 | 172 |
| D Worth (Paddockhurst) | Mr. A. B. Wadds | 5 | 1 | 6 | 500 | 27·77 | ... |
| D " (South Hill) | T. E. Ravenshaw, Esq. | 8 | 1 | 6 | 558 T | 32·34 | 214 |
| D East Grinstead (Cranston Road). | Mr. G. Mitchell | 8 | 2 | 2 | 420 T | 30·69 | 162 |
| D Glen Andred [Groombridge] ... | Mrs. Boardman | 8 | 1 | 0 | 320 | 28·88 | 151 |
| Cozleigh ["] ... | J. Anderson, Esq..... | 8 | 2 | 0 | 230 | 28·36 | 135 |
| HAMPSHIRE. | | | | | | | |
| ISLE OF WIGHT. | | | | | | | |
| D† Ventnor (Flint Cottage) | J. S. Ineson, Esq. | 5 | 1 | 0 | 99 T | 21·40 | 135 |
| † " (Consumption Hospital) | Miss Gibson | 5 | 1 | 0 | 60 | 21·39 | 160 |

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with .01 or more recorded. |
|--------------------------------------|----------------------------|-------------|----------------------|------------------------|------------------------|---------------------------------|
| | | Diameter | Height Above Ground. | Height Above Sea Level | | |
| | | in. | ft. in. | feet. | inches. | |
| HAMPSHIRE—(con.) | | | | | | |
| ISLE OF WIGHT—(con.) | | | | | | |
| Brighstone (Pitt Place)..... | A.A.H. Wykeham, Esq. | 8 | 1 3 | 180 T | 19·16 | ... |
| D Shanklin..... | E. C. Cooper, Esq., C.E. | 8 | 1 0 | 199 T | 24·24 | 143 |
| D Sandown (Free Library) | C. E. Gilchrist, Esq.... | 8 | 1 0 | 15 | 23·79 | 180 |
| D† Totland Bay (Aston House)..... | J. Dover, Esq. | 8 | 1 3 | 145 T | 21·68 | 160 |
| D† Newport (Grammar School) | C. D. Vibert, Esq. | 5 | 1 0 | 45 | 23·24 | 160 |
| Brading (Ryde W. W., Knighton) | J. T. Harvey, Esq., C.E. | 8 | 2 0 | 68 T | 25·84 | 127 |
| D† Ryde (New Lodge, St. John's Park) | Capt. W. A. Dobie..... | 5 | 1 1 | 147 | 22·37 | 152 |
| † „ (Pier Street) | T. Cole Flower, Esq.... | 12 | 9 0 | 35 | 24·01 | ... |
| D† „ (Police Station)..... | C. Mathew, Esq. | 8 | 2 0 | 144 T | 21·99 | 148 |
| D† „ (Beldornie Tower) | P. Craven Hall, Esq.... | 5 | 1 0 | 30 T | 20·42 | 154 |
| † Wootton (Fernhill) | C. G. Brodie, Esq..... | 8 | 0 6 | 118 T | 23·89 | ... |
| D East Cowes (Spring Hill)..... | G. Shedden, Esq. | 5 | 0 10 | 121 T | 24·29 | 176 |
| | | | | | | |
| D Bournemouth (West Cliff) | Rev. G. A. Rideout ... | 5 | 1 0 | 130 | 24·01 | 157 |
| „ (Clarendon Court)..... | G. Galpin, Esq..... | 5 | 1 0 | 130 T | 21·53 | ... |
| „ (South Cliff) | C. Dales, Esq. | 5 | 1 0 | 41 | 21·26 | 156 |
| „ (Pleasure Gardens) | „ „ „ | 5 | 1 0 | 41 | 25·33 | 157 |
| „ (Vale View) | „ „ „ | 5 | 1 0 | 145 | 24·43 | 165 |
| D „ (Wellington House)..... | Messrs. Primavesi Bros. | 5 | 1 0 | 100 T | 22·29 | 158 |
| D§ „ (Kempsey, Bath Rd.)..... | E. L. M. Colville, Esq.... | 5 | 1 0 | 121 T | 23·92 | 158 |
| „ (Bodorgan House)..... | Judge Philbrick, K.C.... | 5 | 1 6 | 151 T | 23·00 | ... |
| D Milford-on-Sea (Salt Grass) | A. C. G. Heygate, Esq. | 5 | 1 0 | 6 | 22·01 | 131 |
| D „ „ „ (Milford House)..... | E. L. Agar, Esq. | 6 | 0 8 | 40 | 21·17 | 137 |
| D Christchurch (Winkton Lodge)..... | Miss Lassell | 5 | 1 0 | 34 T | 21·80 | 161 |
| D „ (Heron Court)..... | The Earl of Malmesbury | 8 | 0 6 | 25 T | 24·09 | 141 |
| D Lymington (The Salterns) | P. A. Ouvry, Esq..... | 5 | 1 0 | 1 | 23·20 | 148 |
| D „ | F. Hill Parr, Esq., C.E. | 5 | 1 0 | 78 T | 23·92 | 141 |
| Milton (Wootton Hill) | Lt.-Col. R. Harman ... | 5 | 1 0 | 188 T | 28·24 | 162 |
| Portsmouth (Eastney) | P. Murch, Esq., C.E.... | 8 | 0 9 | 16 T | 18·24 | ... |
| D§ „ (Victoria Park) | Dr. A. Mearns Fraser... | 5 | 1 0 | 18 T | 20·50 | 144 |
| D Hayling Island (Littlemead) ... | Douglas S. Bird, Esq.... | 5 | 1 2 | 5 T | 20·92 | 132 |
| D „ „ (Lama House)..... | J. Johnson, Esq. | 5 | 1 2 | 14 T | 22·05 | 146 |
| Ringwood (Park View, Burley)..... | Rev. W. Esdaile..... | 5 | 1 0 | 200 T | 27·55 | 132 |
| „ Vicarage | Rev. W. D. Bodkin ... | 15 | 4 0 | 52 T | 23·26 | ... |
| D Porchester (Noel Cottage)..... | Miss Montgomerie Frost | 5 | 2 0 | ... | 20·45 | 134 |
| Fareham (Belvoir House) | E. Woakes, Esq., M.D. | 5 | 0 11 | 20 | 24·36 | ... |
| „ (Cams Hall) | Capt. J. Ramsay | 5 | 1 0 | 50 | 22·70 | ... |
| D „ (The Mount) | H. R. Pink, Esq. | 5 | 1 6 | 250 T | 23·77 | 126 |
| D† Havant (Farlington) | H. Ashley, Esq., C.E.... | 5 | 1 0 | 77 T | 20·50 | 130 |
| † „ („)..... | M „ „ „ | 5 | 1 0 | 77 T | 20·59 | ... |
| D† „ | „ „ „ | 5 | 1 0 | 25 T | 20·04 | 132 |
| † „ | M „ „ „ | 5 | 1 0 | 25 T | 20·37 | ... |
| „ (Denville Lodge) | G. H. Evans, Esq..... | 5 | 0 6 | 9 T | 26·72 | ... |
| D† Emsworth (Redlands) | late F. Jacomb-Hood Esq | 5 | 1 0 | 90 T | 24·75 | 126 |
| Southampton (Cadland) | A. C. Drummond, Esq. | 8 | 4 6 | 52 T | 25·72 | 147 |

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with .01 or more recorded. |
|---|----------------------------|-------------|----------------------|-----|------------------------|---------------------------------|
| | | Diameter | Height Above Ground. | | Height Above Sea Level | |
| | | in. | ft. | in. | feet. | inches. |
| HAMPSHIRE—(con.) | | | | | | |
| Horsebridge (Bossington)..... | W. H. Deverell, Esq... | 8 | 0 | 9 | 92 ∇ | 26.25 164 |
| ∇ Stockbridge (Ashley) | Lekh S. Powell, Esq.... | 5 | 1 | 3 | 235 ∇ | 26.48 141 |
| ∇ Broughton (Boys' School) | W. C. Upshall, Esq. ... | 5 | 1 | 0 | 130 ∇ | 24.29 179 |
| ∇ " | W. Steele Tomkins, Esq. | 5 | 1 | 0 | 125 ∇ | 26.88 164 |
| ∇ Liphook (Fowley) | E. A. Lee, Esq. | 5 | 0 | 10 | 296 ∇ | 31.34 172 |
| East Tisted (Rotherfield Park)... | Mr. W. H. Yates | 5 | 1 | 0 | 550 ∇ | 35.82 177 |
| ∇ Newton Valence Vicarage..... | Rev. A. C. Maclachlan. | 5 | 1 | 0 | 586 | 30.86 201 |
| ∇ Grayshott [Hindhead] | Mrs. Lyndon | 5 | 1 | 0 | 660 ∇ | 31.34 203 |
| ∇ Headley (Eveley) | Mr. T. Carter..... | 5 | 1 | 3 | 295 ∇ | 31.22 147 |
| Liphook (Bordon Camp) | Lt.-Col. R. E. Woolmer | 8 | 1 | 0 | 268 ∇ | 26.69 147 |
| ∇ Swarraton Rectory | Rev. W. L. W. Eyre... | 5 | 1 | 0 | 310 ∇ | 28.14 194 |
| Headley House | Mr. G. Glaysher..... | 8 | 1 | 6 | 250 ? | 24.84 ... |
| ∇ Barton Stacey (Moody's Down)... | H. J. Gardiner, Esq.... | 5 | 1 | 3 | 230 | 24.66 149 |
| ∇ Alton (Ashdell)..... | F. Crowley, Esq. | 8 | 3 | 6 | 433 ∇ | 31.58 143 |
| " (Eagles Nest) | " " " " | 5 | 52 | 4 | 505 | 20.11 ... |
| " (Shalden Manor)..... | J. G. Wood, Esq. | 8 | 3 | 0 | 594 ∇ | 33.66 161 |
| Bentley (Marelands) | A. E. Seawell, Esq. ... | 5 | 0 | 8 | 298 | 25.76 ... |
| Longparish (Middleton House)... | Mrs. Patrick | 5 | 1 | 0 | 180 ? | 25.38 ... |
| ∇ Herriard Vicarage..... | Rev. E. L. Crawhall ... | 5 | 1 | 0 | 557 ∇ | 28.03 164 |
| ∇ Andover (Junction Road) | W. Tomlin, Esq. | 5 | 0 | 10 | 200 ∇ | 25.94 160 |
| Tidworth House [Ludgershall].. | Mr. G. A. Inglefield ... | 5 | 1 | 8 | 357 ∇ | 21.31 ... |
| ∇ Warren Corner [Farnham] | F. Wilkin, Esq..... | 5 | 1 | 0 | 575 ∇ | 25.39 171 |
| ∇ Upton Grey (Hoddington Ho.)... | Lord Basing | 8 | 1 | 0 | 378 ∇ | 28.02 144 |
| Oakley | Rev. F. G. Hume | 5 | 1 | 6 | 400 | 27.69 175 |
| Mapledewell | H. B. Thorp, Esq..... | 8 | 1 | 2 | 270 | 25.21 ... |
| ∇ Aldershot (Sewage Works) | Royal Meteorological Soc | ... | ... | ... | 231 | 27.63 182 |
| Basingstoke (Pumping Station)... | F. R. Phipps, Esq., C.E. | 5 | 0 | 6 | 320 ∇ | 23.88 ... |
| ∇ " (Sherborne St. John) | Rev. D. W. Chute..... | 5 | 1 | 2 | 267 ∇ | 25.93 168 |
| ∇ Winchfield (Elvetham Park) ... | Mr. G. B. Mitchison ... | 8 | 1 | 0 | 217 ∇ | 25.64 191 |
| ∇ Hartley Wintney | W. G. Machin, Esq. ... | 5 | 1 | 2 | 222 ∇ | 24.77 154 |
| ∇ " Grange | F. Walkinshaw, Esq.... | 8 | 1 | 0 | 221 ∇ | 25.78 163 |
| ∇ Kingsclere (Tower Hill House)... | Dr. R. Maples..... | 5 | 1 | 0 | 327 ∇ | 31.29 176 |
| ∇ Strathfieldsaye Rectory | Rev. F. Page-Roberts.. | 5 | 1 | 0 | 164 | 25.42 182 |
| ∇ " Gardens | Mr. A. G. Nichols | 5 | 1 | 8 | 166 | 24.99 173 |
| Heckfield (Highfield Park) | F. B. Marson, Esq. ... | 5 | 1 | 3 | 262 | 22.13 161 |
| " (Park Corner) | J. Martineau, Esq. | 5 | 1 | 2 | 257 | 21.91 173 |
| ∇ Eversley Rectory | Rev. H. Mosley | 5 | 0 | 9 | 221 ∇ | 23.41 146 |
| BERKSHIRE. | | | | | | |
| ∇ Sandhurst Lodge | Sir W. J. Farrer | 8 | 2 | 9 | 263 | 25.27 142 |
| ∇ Wellington College | C. A. Stocken, Esq. ... | 5 | 1 | 0 | 283 ∇ | 24.80 147 |
| Finchampstead (West Court) ... | C. E. Harris-St. John, Esq | 5 | 1 | 0 | 180 | 21.83 180 |
| Mortimer (Wokefield Park) | A. Palmer, Esq..... | 5 | 4 | 0 | 180 ∇ | 23.51 155 |
| ∇ Newbury (Sandleford Priory) ... | Mr. R. H. Butcher ... | 8 | 2 | 0 | 381 ∇ | 30.69 176 |
| ∇ " (Greenham Common)... | H. L. Bowman, Esq.... | 5 | 1 | 0 | 328 ∇ | 25.23 159 |

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with '01 or more recorded. |
|-------------------------------------|------------------------------|-------------|---------------------|------------------------|------------------------|---------------------------------|
| | | Diameter | Height Above Ground | Height Above Sea Level | | |
| | | in. | ft. in. | feet. | inches. | |
| BERKSHIRE—(con.) | | | | | | |
| d Sulhamstead (Firlands) | J. T. Strange, Esq. ... | 5 | 1 0 | 300 T | 24·20 | 173 |
| d Aldermaston Wharf | " " " " | 5 | 1 0 | 181 T | 25·16 | 196 |
| d Sunningdale (Lynwood) | G. Rodie Thompson, Esq. ... | 5 | 1 0 | 266 T | 26·04 | 168 |
| d Ascot (Winkfield Manor) | C. A. Ferard, Esq. | 5 | 1 0 | 240 T | 24·79 | 189 |
| d Wokingham (Staverton) | H. C. Mylne, Esq. | 5 | 1 0 | 220 T | 23·41 | 187 |
| § " (Pinewood) | Meteorological Office... | 8 | 1 0 | 219 | 23·06 | 154 |
| d Beenham House | H. Waring, Esq. | 8 | 2 2 | 320 | 22·84 | 145 |
| § Bucklebury Place | A. N. Sutton, Esq. | 4 | 1 0 | 409 | 24·00 | 154 |
| d Bracknell (Warfield) | Rev. B. C. Littlewood. | 5 | 0 6 | 199 T | 21·27 | 166 |
| d Windsor (Royal Gardens) | Mr. T. Edwards | 5 | 1 0 | 88 | 23·70 | 179 |
| d Reading (Englefield) | Mr. J. Coombes | 5 | 1 1 | 175 P | 24·86 | 172 |
| d " (Calcot Place) | Maj.-Gen. Swettenham | 5 | 1 4 | 176 T | 24·19 | 188 |
| § " (Leighton Park) | Meteorological Office... | 8 | 1 0 | 265 | 20·47 | 158 |
| d " (Forbury Gardens) | J. Bowen, Esq., C.E. | 5 | 1 5 | 145 T | 22·75 | 182 |
| d " (University College) | Dr. H. N. Dickson | 5 | 0 11 | 152 T | 21·96 | 177 |
| " (The Cedars, London Rd.) | W. Haynes, Esq. | 5 | 2 7 | 151 T | 23·20 | 190 |
| " (Earley) | M. J. Sutton, Esq. ... | 8 | 1 6 | 150 T | 22·09 | ... |
| d Newbury (Welford Park) | Mr. C. Ross | 5 | 1 0 | 341 T | 31·53 | 194 |
| d " (Weston) | R. Osmond, Esq. | 5 | 1 4 | 335 T | 25·47 | 179 |
| d Frilsham House | Mr. W. E. Austen | 5 | 1 0 | 370 | 24·71 | 156 |
| d Yattendon Court | Mr. G. H. Clack | 5 | 0 10 | 440 T | 26·99 | 162 |
| d Lambourn (East Garston) | J. H. Spackman, Esq. ... | 5 | 2 6 | 395 T | 26·82 | 180 |
| d " (Clarionville) | F. Gullett, Esq. | 5 | 1 6 | 500 | 26·85 | 143 |
| d Maidenhead (Heywood Park) | Greville H. Palmer, Esq. ... | 8 | 1 0 | 100 | 24·23 | 172 |
| d " (The Firs, Castle Hill) | J. W. Duncan, Esq. ... | 5 | 1 0 | 170 T | 25·24 | 199 |
| d Farnborough Rectory | Rev. J. B. H. Whitehurst | 5 | 1 3 | 713 T | 30·86 | 186 |
| d Bisham Vicarage | Rev. W. Farrer | 5 | 1 0 | 100 | 28·18 | 187 |
| d Cookham Vicarage | Rev. R. W. Rogers ... | 5 | 1 3 | 90 T | 27·53 | 159 |
| d Temple House [Marlow] | Mr. G. Groves | 5 | 1 0 | 106 | 27·28 | 202 |
| Wallingford (Aston Upthorpe) | J. Harold Slade, Esq. ... | 5 | 1 1 | ... | 23·68 | ... |
| d Didcot (Upton) | Miss Fry | 5 | 2 3 | 240 T | 24·34 | 171 |
| d Wantage (Ginge Manor) | Miss Elliot | 3 | 3 0 | 332 T | 26·82 | 209 |
| " | W. Hanson, Esq., C.E. ... | 5 | 1 0 | 304 | 22·91 | ... |
| d Wallingford (Woodlea) | G. F. Slade, Esq. | 5 | 0 6 | ... | 23·94 | 142 |
| " Castle | Miss Hedges | 5 | 1 0 | 175 T | 23·02 | ... |
| d " (Brightwell) | Lt.-Col. G. Hart Dyke. | 5 | 1 4 | 164 | 22·90 | 154 |
| Little Wittenham | J. Latham, Esq. | 5 | 2 0 | 187 | 19·28 | 143 |
| d Long Wittenham (Manor Ho.) | Admiral Clutterbuck ... | 12 | 1 0 | 170 T | 24·71 | 151 |
| d " " (Willington) | H. J. Hewett, Esq. | 5 | 1 0 | 167 T | 23·98 | 160 |
| " " (Lovegrove's Cott.) | Rev. F. C. Clutterbuck | 5 | 1 0 | 165 | 23·94 | ... |
| Faringdon | Mr. C. Luker | 5 | 1 0 | 333 T | 22·55 | ... |
| d Abingdon (The Square House) | E. Estridge, Esq. | 5 | 1 9 | 180 T | 23·24 | 165 |
| d " (Park Road) | A. Pettipher, Esq. | 5 | 1 6 | 180 B | 24·19 | 169 |
| " (Caldecott House) | Maj.-Gen. I. M. Bailie. | 5 | 1 6 | 177 T | 23·40 | ... |
| " (Sewage Works) | G. Winship, Esq., C.E. ... | 5 | 0 6 | 169 | 22·10 | ... |
| d " Union | Mr. J. Fray | 5 | 1 0 | 196 | 24·88 | 156 |
| " (Northcourt House) | M. T. Tatham, Esq. ... | 5 | 0 7 | 190 T | 22·40 | ... |

DIVISION III.—SOUTH MIDLAND COUNTIES.

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | | Depth of Rain. | Days with .01 or more recorded. |
|------------------------------------|---------------------------|-------------|---------------------|-------|------------------------|----------------|---------------------------------|
| | | Diameter | Height Above Ground | | Height Above Sea Level | 1908 | |
| | | in. | ft. | in. | feet. | inches. | |
| MIDDLESEX. | | | | | | | |
| Laleham | J. Thornton, Esq. | ... | 1 | 0 | 50 ? | 21.51 | ... |
| d† Hampton | Met. Water Board..... | 8 | 1 | 3 | 42 ⅞ | 23.78 | 175 |
| Teddington (Hampton Road) ... | T. Gale, Esq. | 5 | 1 | 3 | 52 ⅞ | 22.80 | 162 |
| d Staines (Belle Vue) | J. Gundry, Esq. | 5 | 1 | 0 | 51 ⅞ | 24.04 | 152 |
| „ (Cambria House)..... | C. Ashby, Esq. | 5 | 0 | 10 | 50 ? | 23.39 | 135 |
| d Twickenham (Sewage Works)... | F.W. Pearce, Esq., C.E. | 5 | 1 | 7 | 37 ⅞ | 21.24 | 160 |
| § Isleworth (Mandeville House) ... | Meteorological Office ... | ... | 1 | 0 | 35 ? | 26.69 | 140 |
| Sipson (Hollycroft) | Mr. W. J. Mitchell ... | 5 | 1 | 0 | 95 ? | 20.32 | ... |
| d† Kew Bridge | Met. Water Board..... | 8 | 3 | 0 | 37 ⅞ | 23.87 | 147 |
| Ealing (Longfield Avenue) | C. Jones, Esq., C.E. ... | 5 | 9 | 0 | 114 | 22.80 | 142 |
| „ (Gordon Road) | Joseph Box, Esq. | 5 | 10 | 0 | 85 ⅞ | 22.09 | 140 |
| „ (Castle Bar Hill) | T. Simpson, Esq. | 5 | 1 | 0 | 152 ⅞ | 25.46 | 155 |
| d „ (St. Stephen's Road) ... | H. W. Peal, Esq. | 8 | 1 | 3 | 159 ⅞ | 22.20 | 163 |
| d „ (Grange Park) | H. M. Baker, Esq..... | 5 | 1 | 6 | 98 ⅞ | 23.24 | 166 |
| Perivale (Northern Sewage Farm) | C. Jones, Esq., C.E. ... | 5 | 12 | 0 | 56 | 23.87 | 186 |
| Willesden (Donnington Road)... | G. Ralph Baker, Esq... 5 | 1 | 0 | 184 ⅞ | 22.02 | ... | |
| d† „ Reservoir | Met. Water Board..... | 5 | 2 | 6 | 199 ⅞ | 22.00 | 130 |
| d† „ Green (Strode Road)... | Miss Lamport..... | 5 | 1 | 0 | 150 | 24.75 | 156 |
| d „ (Stonebridge Farm) (R) | O. C. Robson, Esq., C.E. | 10 | 5 | 9 | 100 ⅞ | 23.02 | 130 |
| d Highgate (North Hill) | L. J. Tatham, Esq. ... | 5 | 1 | 0 | 400 | 23.38 | 169 |
| d „ („ „) | E.J. Lovegrove, Esq., CE | 5 | 3 | 10 | 302 | 23.74 | 165 |
| d Harrow | J.P. Bennetts, Esq., C.E. | 5 | 1 | 0 | 215 | 27.48 | 189 |
| d Hendon (Central School) | J. W. Butler, Esq. ... | 5 | 1 | 4 | 200 | 22.93 | 168 |
| d Crouch End (Barrington Road)... | E.J. Lovegrove, Esq., CE | 6 | ... | ... | 140 ? | 23.42 | 152 |
| d Tottenham | W. P. West, Esq..... | 5 | 1 | 3 | 53 ⅞ | 22.00 | 133 |
| d† Hornsey (High Street) | Met. Water Board..... | 5 | 4 | 0 | 109 | 23.64 | 158 |
| Muswell Hill (Grand Avenue)... | G Michael Williams, Esq | 5 | 1 | 0 | 317 | 24.52 | ... |
| d „ „ (Colney Hatch Lane) | Miss Abethell..... | 5 | 0 | 10 | 310 ⅞ | 25.33 | 171 |
| d „ „ (Irish Corner Sewage Farm) | E.J. Lovegrove, Esq., CE | 8 | 4 | 8 | 216 ⅞ | 23.56 | 154 |
| d Wealdstone House | K. R. Cobb, Esq. | 5 | 0 | 11 | 236 ⅞ | 23.75 | 148 |
| d Wood Green (Maryland Road)... | Mr. F. C. Hornsey..... | 8 | 9 | 4 | ... | 22.48 | 161 |
| d Finchley (Etchingham Park) ... | Mrs. J. W. Scott | 5 | 1 | 2 | 295 ⅞ | 25.28 | 185 |
| § Harefield (The Scrubbs) | Meteorological Office ... | 5 | 1 | 0 | 338 | 24.44 | 135 |
| „ Place | Mr. W. Watson..... | 5 | 0 | 10 | 370 | 25.40 | ... |
| Pinner Green (Northwold) | Miss Stanley Smith ... | 8 | 0 | 6 | 200 | 26.15 | 165 |
| d „ (Hatch End) | W. M. Cann, Esq..... | 5 | 0 | 11 | 260 | 26.77 | 166 |
| d Northwood (Haslemere) | Miss McBean | 5 | 1 | 0 | ... | 26.19 | 156 |
| d „ (The Grange) | A. P. Blathwayt, Esq.. | 5 | 1 | 0 | 220 ⅞ | 26.67 | 156 |
| d Harrow Weald (Hill House) ... | A. Crossman, Esq..... | 5 | 3 | 6 | 284 | 26.17 | 207 |
| d North Finchley | late G. B. Shoults, Esq. | 5 | 0 | 8 | 295 ⅞ | 24.65 | 178 |
| d Southgate (Reservoir Road)..... | W. B. Butler, Esq..... | 5 | 1 | 0 | 255 ⅞ | 24.54 | 167 |
| d† Mill Hill (Tennyson Road) | Mrs. Edwards..... | 5 | 1 | 0 | 250 | 24.42 | 154 |
| d† „ „ (The Hollies) gauge A | Mrs. H. R. Mill..... | 5 | 1 | 0 | 350 | 25.32 | 182 |
| † „ „ („ „) gauge B M | „ „ „ „ „ „ „ „ | 5 | 1 | 0 | 380 | 24.59 | ... |
| d Ponders End (Bylock Hall) | H. E. Freir, Esq. | 5 | 1 | 0 | 50 | 23.19 | 161 |
| d† „ „ „ „ „ „ „ „ | Met. Water Board..... | 8 | 1 | 0 | 45 ⅞ | 23.15 | 145 |
| Enfield (Old Park)..... | A. L. Ford, Esq. | 5 | 1 | 9 | 156 ⅞ | 22.79 | ... |
| d „ (Southbury Road) | Met. Water Board..... | 5 | 4 | 0 | 109 ⅞ | 22.17 | 166 |

DIVISION III.—SOUTH MIDLAND COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with '01 or more recorded. |
|---------------------------------------|--|-------------|----------------------|------------------------|------------------------|---------------------------------|
| | | Diameter | Height Above Ground. | Height Above Sea Level | | |
| <hr/> | | | | | | |
| MIDDLESEX—(con.) | | in. | ft. | in. | feet. | inches. |
| d† Enfield (Carisbrooke Culloden Rd.) | J. McEwan, Esq. | 5 | 1 | 0 | 204 ▴ | 24·39 |
| d „ (The Ridgeway) | Met. Water Board..... | 8 | 1 | 0 | 223 ▴ | 22·83 |
| Trent Park [New Barnet] | Mr. H. Parr..... | 5 | 1 | 1 | 200 | 24·50 |
| Wrotham Cott. [Hadley, Barnet] | H. E. Cooper, Esq..... | 5 | 1 | 0 | 410 † | 30·35 |
| d† Rammey Marsh [Waltham Abbey] | Met. Water Board..... | 8 | 1 | 6 | 60 ▴ | 26·85 |
| d Potters Bar (Little Heath) | Henry Ellis, Esq. | 5 | 4 | 8 | 375 | 24·04 |
| <hr/> | | | | | | |
| HERTFORDSHIRE. | | | | | | |
| d Easby [Northwood] | Mrs. Sandford Fawcett | 8 | 0 | 10 | 400 † | 27·77 |
| d Rickmansworth (Moor Park)..... | Lord Ebury..... | 5 | 2 | 0 | 340 | 24·01 |
| d „ (Croxley Green). | S. Ingleby Oddie, Esq.. | 5 | 0 | 7 | 250 † | 26·60 |
| d Elstree (Aldenham House) | Mr. E. Beckett | 10 | 4 | 9 | 305 | 22·98 |
| d Watford (Colne Valley W.W.)... | W. Verini, Esq..... | 5 | 1 | 0 | 220 † | 24·44 |
| d „ (London Orphan Asylum) | Rev. Dr. Cockrem | 5 | 1 | 0 | 230 † | 25·07 |
| d „ (Weetwood) | J. Hopkinson, Esq. ... | 5 | 1 | 0 | 269 ▴ | 26·50 |
| „ „ „ M | „ „ „ | 5 | 1 | 0 | 269 ▴ | 26·43 |
| Barnet (Gas Works) | „ „ „ | 8 | 0 | 9 | 212 | 26·82 |
| d „ (Summerhill) | F. A. Milne, Esq. | 5 | 0 | 10 | 400 † | 22·16 |
| d „ (Bedford Avenue) | Rev. J. B. Lee | 5 | 1 | 3 | 380 | 25·73? |
| d† Shenley (Kitwells)..... | T. H. Riches, Esq. ... | 5 | 1 | 0 | 420 | 25·83 |
| „ „ „ M | „ „ „ | 5 | 1 | 0 | 420 | 24·96 |
| Chipperfield (Little Callipers) ... | J. Hopkinson, Esq. ... | 5 | 1 | 0 | 407 † | 25·80 |
| d Cheshunt (Goff's Oak House) ... | W. M. Cunningham, Esq. | 5 | 1 | 6 | 310 † | 23·28 |
| d Northaw (St. Just)..... | Miss E. J. Poland | 5 | 1 | 0 | 385 | 23·79 |
| „ (Newgate Street) | Rev. H. W. Southey ... | 5 | 1 | 0 | 370 † | 24·25 |
| London Colney (Bowmans) | C. Barwell Field, Esq...
A. F. Newbery, Esq.... | 5 | 1 | 0 | 240 ?
118 † | 23·32
26·32 |
| d† Broxbourne (Stafford House) | Messrs. J. Dickinson & Co. | 24 | 1 | 4 | 260 | 28·71 |
| d Hemel Hempstead (Apsley Mills) | Rev. Canon F.H. Fisher | 5 | 3 | 0 | 300 | 28·80 |
| d „ „ (Church Croft) | J. Hopkinson, Esq. ... | 5 | 1 | 0 | 336 ▴ | 28·01 |
| St. Albans (Bone Hill) | G. Goodchild, Esq. ... | 5 | 1 | 0 | 295 † | 23·96 |
| d „ (Hill End) | J. Hopkinson, Esq. ... | 5 | 1 | 0 | 389 † | 26·34 |
| d „ (Herts County Museum) | Mr. W. Newberry | 5 | 1 | 0 | 425 † | 26·97 |
| „ (Gorhambury)..... | Met. Water Board..... | 8 | 3 | 8 | 95 ▴ | 22·10 |
| d† Hoddesden (Feilde's Weir) | E. Mawley, Esq. | 8 | 1 | 0 | 401 ▴ | 25·34 |
| d† Berkhamsted (Rosebank) | „ „ „ | 8 | 1 | 0 | 401 ▴ | 24·97 |
| † „ „ „ M | P. H. Latham, Esq. ... | 8 | 1 | 0 | 270 † | 22·31 |
| d Haileybury College | Mr. E. Leach | 8 | 0 | 7 | 175 † | 25·75 |
| d Gilston Park | Wilfrid E. Laurie, Esq. | 5 | 1 | 6 | 240 † | 22·86 |
| d Hatfield (Holwell House)..... | H. W. Clinton Baker, Esq. | 8 | 1 | 2 | 250 | 23·24 |
| d Hertford (Bayfordbury) | E. H. Barlow, Esq. ... | 5 | 1 | 2 | 115 † | 22·62 |
| d Stanstead Abbots | Met. Water Board..... | 8 | 1 | 0 | 121 ▴ | 19·54 |
| d† Hertford (Sewage Works) | Rev. H. J. E. Burrell.. | 5 | 1 | 0 | 710 ▴ | 25·73 |
| Tring (Wigginton Vicarage) ... | Miss Boyson | 8 | 1 | 0 | 450 | 24·13 |
| d „ (Grove Lodge) | Mrs. Williams | 5 | 2 | 0 | 420 | 26·58 |
| d „ (Pendley Manor) | Dr. E. J. Le Quesne ... | 5 | 1 | 2 | 460 | 23·86 |
| d „ (Elm House) | Gordon C. Thomas, Esq. | 5 | 3 | 8 | 394 ▴ | 26·06 |
| d „ (Cowroast) | | | | | | |

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 Sea Level | 1908 | |
| | | in. | ft. in. | feet. | inches. | |
| HERTFORDSHIRE—(con.) | | | | | | |
| § Harpenden (Rothamstead) | A.D. Hall, Esq., F.R.S. | 5 | 0 9 | 420 T | 24·20 | 186 |
| § " { " } | " " " | 8 | 0 9 | 420 T | 23·38 | 168 |
| d § " { " } | " " " | 72X87 | 0 9 | 420 T | 25·31 | 242 |
| d Ware (Red House)..... | Met. Water Board..... | 5 | 4 0 | 115 T | 20·93 | 160 |
| § " (Grammar School for Girls) | Roy. Meteorological Soc. | 5 | 1 0 | 120 | 21·08 | 170 |
| d " (Fanham's Hall) | Miss V. M. Croft | 8 | 1 0 | 210 T | 22·64 | 145 |
| d Much Hadham | T. W. Mott, Esq. | 5 | 1 0 | 212 | 23·75 | 188 |
| d § Bennington House..... | Rev. Dr. J. D. Parker.. | 5 | 1 0 | 406 T | 20·53 | 189 |
| d " Lordship | A. F. Bott, Esq. | 5 | 0 10 | 365 T | 21·37 | 171 |
| d Little Hadham (Hadham Hall).. | W. Minet, Esq. | 5 | 0 10 | 338 | 24·44 | 154 |
| d Buntingford (Hamels Park)..... | H. Shepherd Cross, Esq. | 5 | 1 3 | 390 T | 23·04 | 144 |
| " (Westmill) | T. Greg, Esq. | 5 | 0 8 | 379 T | 23·29 | ... |
| d Hitchin (Preston) | R. de V. Pryor, Esq.... | 8 | 2 5 | 480 T | 23·52 | 174 |
| § Olley Vicarage | Meteorological Office ... | ... | ... | ... | 24·20 | 183 |
| d † Hitchin (Wratten)..... | W. Lucas, Esq. | 5 | 2 1 | 238 T | 22·18 | 176 |
| d † " (The Maples) | W. Hill, Esq. | 8 | 1 1 | 220 T | 22·49 | 178 |
| d † " (The Chilterns) | F. Ransom, Esq. | 5 | 0 9 | 300 T | 22·48 | 180 |
| d † " (High Down) | Iate J. Pollard, Esq. ... | 5 | 1 1 | 422 T | 21·49 | 186 |
| d " (Roxley Court, Willian) | E. Bendixson, Esq. ... | 5 | 1 6 | 360 | 21·55 | 170 |
| d Weston Park | M. R. Pryor, Esq. | 5 | 0 8 | 470 T | 22·84 | 179 |
| d Buntingford (Throcking Rectory) | Rev. C. Wigan Harvey | 5 | 1 0 | 487 T | 24·08 | 205 |
| d Baldock (High Street) | Dr. F.W. Langston Day | 5 | 1 0 | 214 T | 20·88 | 165 |
| d Royston (Therfield Rectory). ... | Mr. J. Cracknell | 5 | 1 0 | 513 T | 22·06 | 173 |
| d " (Barley) | W. W. Cook, Esq. | 5 | 1 0 | 249 | 23·17 | 170 |
| d " (Earlshill House)..... | J. Phillips, Esq. | 8 | 1 1 | 225 T | 21·20 | 198 |
| d " (Union Workhouse) ... | J. W. Wesson, Esq. ... | 5 | 1 0 | 217 T | 21·41 | 170 |
| d " (Melbourne Street)..... | J. E. J. Phillips, Esq.. | 8 | 0 11 | 201 T | 20·85 | 166 |
| BUCKINGHAMSHIRE. | | | | | | |
| d Horton (Horton Cottage) | R. M. Ker, Esq. | 5 | 1 0 | 66 T | 23·22 | 154 |
| d Eton (Tangier Islands) | C. Sainty, Esq. | 5 | 1 0 | 67 T | 23·41 | 153 |
| d Slough (Langley) | R. H. Major, Esq. | 8 | 0 10 | 85 T | 23·02 | 164 |
| † " (Upton) | R. Bentley, Esq. | 8 | 2 0 | 80 T | 22·42 | ... |
| d † " (") | " " " | 5 | 2 0 | 78 T | 24·07 | 202 |
| Taplow Court | Lord Desborough | 8 | 1 0 | 217 T | 23·95 | ... |
| Burnham (Burnham Cottage) ... | G. J. Williams, Esq.... | 5 | 3 0 | 162 T | 24·76 | ... |
| d " (East Burnham Lodge) | Mrs. Harvey | 5 | 1 0 | 255 | 26·34 | 166 |
| d Farnham Royal (Broomlands)... | F.C. Moscrop-Young Esq | 5 | 1 0 | 205 T | 24·79 | 194 |
| d " (The Chase) ... | F. C. Carr-Gomm, Esq. | 5 | 3 0 | 175 T | 26·77 | 159 |
| Greenlands [Henley-on-Thames] | Hon. W. F. Smith, M.P. | 8 | 1 3 | 116 | 27·17 | ... |
| d Hedsor | Lord Boston | 8 | 1 0 | 170 T | 30·06 | 169 |
| d Marlow (Thames Bank) | S. H. Wright, Esq. ... | 8 | 2 0 | 105 | 28·51 | 225 |
| § Beaconsfield (Norfolk House) ... | Meteorological Office ... | 8 | 1 0 | 484 | 25·49 | 144 |
| " (Ledborough Lane). | A. G. Robins, Esq. ... | 5 | 1 0 | 350 | 27·96 | ... |
| d High Wycombe | H. S. Wheeler, Esq.... | 5 | 0 11 | 253 T | 28·38 | 192 |
| d Chalfont St. Giles (The Stone)... | Col. R. W. Phipps..... | 5 | 1 4 | 270 T | 27·31 | 179 |
| " " { " } M | " " " | 5 | 1 0 | 270 T | 27·06 | ... |

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 Sea Level | 1908 | |
| | | in. | ft. in. | feet. | inches. | |
| BUCKINGHAMSHIRE—(con.) | | | | | | |
| d Amersham (The Plantation)..... | G. Weller, Esq..... | 8 | 1 0 | 464 π | 26.91 | 183 |
| Chesham (Chesham Bois Rectory) | Rev. T. H. Fitzpatrick. | 5 | 0 11 | 530 \uparrow | 27.11 | ... |
| Great Missenden | Mr. W. Douglas | 5 | 1 0 | 400 | 28.71 | ... |
| d Wendover (Halton Gardens) ... | Mr. R. C. Sanders..... | 5 | 1 10 | 400 | 25.54 | 197 |
| Bulbourne [Tring] | Gordon C. Thomas, Esq. | 5 | 2 3 | 401 \uparrow | 21.31 | 151 |
| Mentmore Gardens | Mr. J. MacGregor | 5 | 1 2 | ... | 21.99 | ... |
| d Oving House | H. Yates Thompson, Esq. | 5 | 1 0 | 515 \uparrow | 25.04 | 187 |
| " " | " " " " | 5 | 1 6 | 515 \uparrow | 24.70 | ... |
| d Swanbourne House | Lord Cottlesloe | 5 | 1 0 | 411 π | 25.30 | 171 |
| d Winslow (Market Square) | R. A. Easton, Esq. ... | 8 | 1 0 | 380 π | 25.22 | 196 |
| " (Norden House)..... | Dr. T. F. Vaisey..... | 5 | 0 7 | ... | 23.34 | ... |
| d " (Addington Manor) ... | Lord Addington..... | 8 | 1 0 | 309 π | 23.38 | 172 |
| " " " " " " M | " " " " " " | 5 | 1 0 | 309 π | 22.78 | ... |
| Stockgrove Pk. [Leighton Buzzard] | Mr. J. Clues | 5 | 1 2 | 500 | 24.33 | ... |
| d Buckingham (Adstock Fields)... | J. E. S. Weston, Esq...
Rev. P. P. Goldingham | 5 | 0 9 | 352 \uparrow | 24.11 | 164 |
| d " (The Vicarage)..... | Rev. P. P. Goldingham | 5 | 2 0 | 278 \uparrow | 25.60 | 151 |
| d Wolverton (St. George's Vic.)... | Rev. W. L. Harnett ... | 5 | 1 0 | 270 \uparrow | 21.80 | 185 |
| d " (The School House)... | H. J. Hipsley, Esq.... | 5 | 1 0 | 264 \uparrow | 21.93 | 191 |
| d Newport Pagnell (The Croft) ... | F. Littleboy, Esq..... | 5 | 2 0 | 191 \uparrow | 22.03 | 177 |
| d " " (Lovat Bank)... | F. J. Taylor, Esq..... | 5 | 2 0 | 190 \uparrow | 21.94 | 154 |
| OXFORDSHIRE. | | | | | | |
| Caversham (Hemdean Road) ... | W. Simpson, Esq..... | 5 | 1 0 | 129 π | 23.00 | 184 |
| " (Eastfield) | C. M. Powell, Esq..... | 5 | 1 0 | 180 \uparrow | 23.14 | 172 |
| " (Cane End House)... | D. Vanderstegen, Esq.. | 5 | 0 0 | 400 | 29.04 | 137 |
| d Goring (Elmcroft)..... | Major E. Gambier Parry | 5 | 0 10 | 160 | 24.13 | 162 |
| " Heath School | S. Heaton, Esq. | ... | ... | 418 | 22.57? | ... |
| Henley-on-Thames (Peppard) ... | Rev. Hubert Shears ... | 5 | 1 0 | 336 | 24.94 | ... |
| d " " (Greys Green) | Miss Mary Davis | 5 | 4 0 | 350 \uparrow | 26.88 | 188 |
| d " " " (" Road) | G. Potter, Esq. | 5 | 0 9 | 123 | 25.71 | 142 |
| d " " " (Assenton)... | Mr. J. Ratty | 5 | 1 0 | 281 π | 27.05 | 143 |
| d Dorchester (Bishops Court) | T. Latham, Esq. | 5 | 2 0 | 169 | 21.46? | 197 |
| d Abingdon (Culham Vicarage) ... | Rev. F. C. Clutterbuck | 5 | 1 0 | 200 π | 24.00 | 185 |
| d " (" School House) | F. Mitchell, Esq. | 5 | 0 10 | 180 \uparrow | 22.42 | 161 |
| d " (" College) | J. S. Davis, Esq. | 8 | 0 11 | 213 \uparrow | 22.37 | 189 |
| Clifton Hampden School | W. T. Creswell, Esq...
W. H. Dines, Esq. F.R.S. | 6 | 1 0 | 169 | 25.62 | ... |
| † Watlington (Pyrton Hill)..... | W. H. Dines, Esq. F.R.S. | 5 | 1 0 | 520 \uparrow | 25.95 | ... |
| d " (" Manor)..... | late E. Hamersley, Esq. | 5 | 1 6 | 321 \uparrow | 25.02 | 171 |
| Brightwell Baldwin School | S. Heaton, Esq. | ... | ... | 400 | 23.44 | ... |
| Lewknor (Manor House) | Miss Spencer | 5 | 1 3 | 360 | 23.97 | ... |
| Nuneham Park Gardens | Mr. C. E. Munday..... | 8 | 3 0 | 280 \uparrow | 20.04 | ... |
| d Toot Baldon (Potland) | D. Clinkard, Esq. | 5 | 1 0 | 288 | 23.67 | 175 |
| Clanfield (The Schools)..... | Mr. R. C. Lucas..... | 5 | 1 0 | 220 | 23.61 | ... |
| d Great Haseley (Manor House) ... | F. Gelderd-Somervell, Esq.... | 5 | 1 0 | 280 \uparrow | 21.80 | 148 |
| d Oxford (Hincksey Pumping Sta.) | W. H. White, Esq., C.E. | 8 | 1 0 | 187 π | 22.43 | 169 |
| d " (Magdalen College) | R. T. Günther, Esq. ... | 5 | 1 0 | 186 π | 21.82 | 162 |
| " (" ") | " " " " " " | 5 | 33 11 | 223 π | 18.70 | ... |

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 Sea Level | 1908 | |
| | | in. | ft. | in. | feet. | inches. | |
| OXFORDSHIRE—(con.) | | | | | | | |
| D† Oxford (Radcliffe Observatory) .. | Dr. A. A. Rambaut, FRS | 8 | 1 | 8 | 210 π | 23.57 | 178 |
| D† " { " " } .. | " " " | 11 | 2 | 4 | 210 π | 23.73 | 164 |
| † " { " " } .. | " " " | 10 | 11 | 2 | 320 π | 16.75 | 129 |
| D " (Banbury Road) | Miss E. M. Tawney ... | 5 | 1 | 1 | 211 π | 22.65 | 159 |
| D " (Warneford Asylum) ... | Dr. J. Neil | 5 | 1 | 0 | 300 \uparrow | 22.54 | 139 |
| D " (Headington Hill) | Miss Davenport | 5 | 0 | 10 | 354 | 23.98 | 154 |
| D " (Elsfield) | Miss M. J. Parsons ... | 5 | 1 | 0 | 330 \uparrow | 22.99 | 169 |
| D Witney (Ringwood Farm) | J. W. Abraham, Esq. ... | 5 | 1 | 0 | 399 \uparrow | 22.96 | 138 ^{400?} |
| Stanton St. John (Woodperry) ... | J. Thomson, Esq. | 6 | 1 | 0 | 399 \uparrow | 25.49 | 194 |
| Islip | Col. G. E. Eliot | 5 | 1 | 0 | 200 \uparrow | 23.82 | ... |
| D Woodstock (Hampton Poyle Rec.) | Rev. S. T. Gwilliam ... | 5 | 1 | 0 | 201 \uparrow | 23.12 | 150 |
| " (Freeland Lodge) ... | W. J. Short, Esq. | 8 | 0 | 9 | 345 | 23.39 | ... |
| D " (Wootton Rectory) ... | Rev. F. R. Marriott ... | 5 | 0 | 10 | 370 \uparrow | 22.77 | 145 |
| D Charlbury (Wychwood House) ... | J. H. Glen, Esq. | 5 | 1 | 5 | 450 | 22.63 | 188 |
| D Chipping Norton (Lyneham) | R. de M. Pratt, Esq. ... | 5 | 1 | 7 | 351 \uparrow | 24.93 | 167 |
| D " " (Sarsden) ... (R) | J. M. Blair, Esq. | 8 | 3 | 0 | 492 π | 21.42 | 169 |
| D " " (" Gardens) | Mr. J. Vine | 5 | 0 | 10 | 538 π | 22.86 | 155 |
| " " | A. Pettipher, Esq. | 5 | 1 | 6 | 700 | 24.69 | ... |
| " " (Heythrop) ... | Albert Brassey, Esq. ... | 10 | 4 | 0 | 700 | 19.49? | 159 |
| D Bicester (Ivy Cottage) | R. C. Sikes, Esq., C.E. | 5 | 1 | 0 | 231 π | 22.18 | 178 |
| " (Bank) | H. A. Fane, Esq. | 5 | 0 | 10 | 221 \uparrow | 23.08 | ... |
| D " (Middleton Park) | The Earl of Jersey | 5 | 2 | 6 | 338 π | 22.72 | 179 |
| Steeple Aston (Hill House) | B. S. Ogle, Esq. | 5 | 0 | 4 | 400 | 25.12 | 177 ^{iss} |
| D " " (The Grange) ... | Mr. Bradshaw | 8 | 1 | 0 | 400 \uparrow | 23.01 | 171 ^{by request} |
| Little Tew | Guy G. Croft, Esq. ... | 5 | 1 | 0 | 590 \uparrow | 27.47 | ... |
| D Swerford | W. Hall, Esq. | 5 | 1 | 0 | 500 \uparrow | 24.78 | 211 |
| D Adderbury | G. H. Norris, Esq. | 5 | 1 | 1 | 338 π | 23.60 | 178 |
| D Bloxham Grove | W. H. Warriner, Esq. | 8 | 3 | 10 | 387 π | 23.21 | 137 |
| D Sibford Ferris | Joshua Lamb, Esq. ... | 5 | 1 | 0 | 575 π | 22.04 | 137 |
| D Banbury (Bodicote) | J. F. Starkey, Esq. ... | 8 | 1 | 3 | 388 π | 24.52 | 172 |
| D Wroxton | Hon. Mrs. FitzGerald... | 8 | 1 | 3 | 750 | 25.69 | 171 |
| NORTHAMPTONSHIRE. | | | | | | | |
| King's Sutton (Astrop) | E. Browne, Esq. | 5 | 2 | 0 | 338 π | 22.13 | ... |
| D Brackley House | J. Allen, Esq. | 5 | 1 | 0 | 425 \uparrow | 25.27 | 190 |
| D Grimsbury (Banbury W.W.) ... | W. E. Wood, Esq. | 5 | 1 | 3 | 320 \uparrow | 20.68 | 156 |
| Thorpe Mandeville | C. A. Markham, Esq. ... | 5 | 1 | 0 | 530 | 25.71 | 148 |
| D Towcester (Bradden Rectory) ... | Rev. C. Blathwayt ... | 5 | 4 | 6 | 403 | 21.46 | 190 |
| " (Stoke Bruern Park) .. | Mr. W. Batchelor | 5 | 1 | 0 | 320 | 23.93 | ... |
| " (Easton Neston) | C. A. Markham, Esq. ... | 8 | 1 | 0 | 340 \uparrow | 24.71 | 162 |
| D Blisworth (Crieff House) | A. Westley, Esq. | 5 | 5 | 0 | 330 | 21.85 | 191 |
| D " | T. W. Millner, Esq. ... | 5 | 1 | 6 | 300 π | 22.00 | 181 |
| D Lichborough Hall | E. Grant, Esq. | 5 | 1 | 10 | 500 | 23.93 | 165 |
| D Daventry (Fawsley) | The Lady Knightley ... | 5 | 1 | 0 | 477 \uparrow | 22.64 | 148 |
| D Castle Ashby ... | R. G. Scriven, Esq. ... | 5 | 1 | 0 | 263 π | 23.79 | 205 |
| D Great Houghton | C. E. Paget, Esq. | 5 | 1 | 6 | 300 | 23.89 | 207 |

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 Sea Level | | 1908 |
| | | in. | ft. | in. | feet. | inches. | |
| NORTHAMPTONSHIRE—(con.) | | | | | | | |
| Little Houghton House..... | Christopher Smyth, Esq. | 5 | 2 | 2 | 271 T | 22.39 | 150 |
| Northampton (Dallington Av.)... | C. A. Markham, Esq... | 5 | 1 | 0 | 265 T | 23.98 | 185 |
| " (Berry Wood)..... | Mr. W. R. Budgen ... | 8 | 1 | 4 | 399 T | 22.63 | 156 |
| Great Billing Rectory | Rev. G. H. Mullins ... | 8 | 1 | 6 | 275 T | 22.92 | 192 |
| Daventry | C. A. Markham, Esq... | 5 | 1 | 0 | 486 | 23.48 | 164 |
| Althorp House | Miss Chouler | 8 | 3 | 10 | 310 T | 21.06 | 162 |
| Great Brington | C. A. Markham, Esq.... | 5 | 2 | 9 | 448 | 21.01 | 139 |
| Daventry (Tunnel End) | T. W. Millner, Esq. ... | 5 | 1 | 6 | 394 | 25.20 | 196 |
| Sywell Hall | T. A. Dickson, Esq. ... | 5 | 1 | 0 | 371 T | 26.80 | 197 |
| Pitsford (Sedgebrook) | C. A. Markham, Esq.... | 5 | 1 | 0 | 311 T | 24.20 | 181 |
| " " | | | | | | | |

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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 Sea Level. | 1908 | |
| | | in. | ft. in. | feet. | inches. | |
| HUNTINGDONSHIRE. | | | | | | |
| D St. Neots (Waresley Park) | Lady Caroline Duncombe | 5 | 0 11 | 190 | 21.25 | 182 |
| D „ (Great Paxton) | Rev. A. G. Cane | 5 | 1 0 | 100 † | 19.81 | 163 |
| Offord D'Arcy | W. Priestley, Esq. | 5 | 0 9 | 51 † | 21.39 | 145 |
| D Buckden (Stirtloe House) | J. Linton, Esq. | 5 | 2 0 | 75 | 21.53 | 144 |
| D Hemingford Grey Vicarage | Rev. Byrom Holland ... | 5 | 1 0 | 25 | 18.34 | 166 |
| D Huntingdon (Brampton) | Miss May Bird | 5 | 1 1 | 39 † | 21.76 | 169 |
| D „ | H. Lucas, Esq. | 5 | 1 6 | 35 † | 19.82 | 199 |
| D „ (Hinchingsbrooke) | Earl of Sandwich | 10 | 6 0 | 74 † | 20.27 | 138 |
| D St. Ives (Slepe House) | Dr. W. R. Grove | 5 | 1 0 | 25 | 18.44 | 159 |
| D Houghton Grange | C. H. Coote, Esq. | 5 | 1 0 | 114 | 20.32 | 180 |
| D Catworth | Miss E. M. Conway ... | 5 | 0 9 | 210 † | 20.74 | 209 |
| D Somersham Vicarage | Mrs. de Courcy-Ireland | 5 | 0 10 | 36 | 16.85 | 138 |
| D Whittlesea Mere | A. Lunn, Esq., C.E. ... | 8 | 1 6 | 10 ? | 17.52 | 135 |
| BEDFORDSHIRE. | | | | | | |
| D Dunstable (Kensworth) | Miss Jones | 5 | 1 5 | 630 B | 26.33 | 173 |
| Luton (Stockwood) | Francis Crawley, Esq.. | 5 | 3 0 | 539 † | 20.80 | 158 |
| D „ (Pumping Station) | S. F. L. Fox, Esq., C.E. | 5 | 1 0 | 343 † | 23.10 | 166 |
| D „ (Tennyson Road) | Harold F. Smith, Esq. | 5 | 1 1 | 530 † | 24.29 | 183 |
| D Woburn (Milton Bryant) | Mr. C. J. Kilby | 5 | 1 0 | 510 | 22.20 | 177 |
| D Shillington | Kilham Roberts, Esq. ... | 5 | 1 0 | 182 † | 21.80 | 181 |
| D Holwell Bury [Hitchin] | C. Chittick, Esq. | 5 | 1 0 | 185 † | 20.69 | 147 |
| D Flitwick | A. H. Searle, Esq. | 5 | 1 3 | 255 † | 22.69 | 179 |
| D Ampthill (Higham Bury) | E. J. Jekyll, Esq. | 5 | 1 0 | 310 † | 24.62 | 179 |
| D „ (Silsoe) | Miss Trethewy | 5 | 1 0 | 214 † | 24.32 | 160 |
| D Shefford (Upper Stondon) | R. Long, Esq. | 5 | 1 0 | 241 † | 21.96 | 136 |
| Aspley Guise (Oaklands) | Mrs. Dymond | 5 | 1 0 | 410 † | 21.53 | 176 |
| D Woburn (Crawley Mill Farm) | H. M. Freear, Esq. ... | 8 | 1 0 | 292 † | 22.90 | 185 |
| D „ (Fruit Farm, Ridgmont) | W. H. Neild, Esq. | 5 | 0 8 | 270 † | 23.23 | 184 |
| D Stotfold (Three Counties Asylum) | Dr. J. E. de Lisle | 5 | 1 0 | 220 † | 18.04 | 180 |
| Shefford (Clifton Bury) | A. Inskip, Esq. | 5 | 2 1 | 150 | 20.58 | ... |
| „ Hardwick | H. Inskip, Esq. | 5 | 2 6 | 90 ? | 20.62 | ... |
| Cranfield School | Alfred Death, Esq. ... | 5 | 1 6 | 365 | 23.25 | 144 |
| D Biggleswade (Waterworks) | H. Carne, Esq., C.E. ... | 5 | 1 6 | 170 † | 19.31 | 184 |
| D „ (Old Warden Park) | Mr. W. C. Modral | 8 | 1 2 | 90 | 26.80 ? | 187 |
| D Potton (Wrestlingworth) | H. J. King, Esq. | 5 | 1 0 | 119 † | 19.58 | 160 |
| Sandy (The Lodge) | Viscount Peel | 5 | 1 0 | 200 ? | 19.55 | 173 |
| D „ (Beeston Grange) | Col. Maunsell Bowers.. | 5 | 1 0 | ... | 19.96 | 193 |
| D „ Rectory | Rev. J. Richardson ... | 5 | 1 0 | 120 | 21.82 | 175 |
| Bedford (Ampthill Road) | Thomas Pearse, Esq. ... | 5 | 1 6 | 88 | 21.67 | 161 |
| D „ (De Parys Avenue) | W. Godfrey, Esq. | 5 | 1 0 | 120 ? | 19.50 | 141 |
| D „ (The Park) | N. Greenshields, Esq. ... | 8 | 5 8 | 123 † | 18.93 | 189 |
| „ (Castle Road) | Miss M. E. Newbery ... | 5 | 7 0 | 130 ? | 20.19 | 156 |
| D „ (Bromham House) | R. S. Allen, Esq. | 8 | 1 2 | 200 | 22.64 | 156 |
| D Goldington (Castle Mills) | W. H. Rogers, Esq. ... | 5 | 1 6 | 90 † | 18.77 | ... |

(Basworth House)

A. A. Richardson & Son Ltd 27.11.09

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 Sea Level | 1908 | |
| | | in. | ft. | in. | feet. | inches. | |
| BEDFORDSHIRE—(con.) | | | | | | | |
| D Great Barford House..... | J. Arnold Whitchurch Esq | 5 | 1 | 0 | 120 T | 19.53 | 154 |
| D Sharnbrook (Colworth Gardens) | Mr. J. Hoad | 5 | 2 | 0 | 250 | 22.65 | 140 |
| CAMBRIDGESHIRE. | | | | | | | |
| D Odsey [Ashwell] No. 1 | Sir H. G. Fordham ... | 5 | 1 | 0 | 256 T | 20.57 | 188 |
| D " ["] No. 2 | " " " " | 5 | 1 | 0 | 256 T | 19.67 | 188 |
| D Foxton House | W. Macintosh, Esq. ... | 5 | 1 | 0 | 60 T | 19.52 | 147 |
| D Meldreth (Chiswick Farm) | A. Howard, Esq. | 5 | 1 | 1 | 70 T | 18.96 | 164 |
| D " (Belmington Close) ... | G. Warren Bindloss, Esq | 5 | 1 | 0 | 65 T | 19.70 | 170 |
| D Whittlesford (Sawston Hall) ... | D. L. Huddleston, Esq. | 5 | 1 | 1 | 86 T | 18.98 | 169 |
| D Harston | Mrs. C. M. Baldwin ... | 5 | 0 | 8 | 47 | 19.34 | 150 |
| D Wimpole Hall | Mr. W. J. Snell | 5 | 1 | 0 | 141 | 23.47 | 151 |
| D Little Shelford (Manor House)... | Miss M. C. Walton ... | 5 | 1 | 0 | 53 | 19.23 | 174 |
| D Stapleford House | J. H. H. Linton, Esq.. | 5 | 2 | 3 | 64 | 19.75 | 166 |
| D Weston Colville..... | Gerald H. Long, Esq... | 5 | 1 | 0 | 327 T | 18.39 | 137 |
| D Carlton Hall | A. S. Nice, Esq..... | 5 | 1 | 6 | 290 T | 21.65 | 159 |
| D Brinkley Hall..... | R. W. King, Esq..... | 5 | 1 | 0 | 380 | 19.84 | 154 |
| D Trumpington | C. Parsons, Esq. | 5 | 1 | 0 | 60 T | 20.42 | 155 |
| D Grantchester Mill | J. Nutter, Esq. | 5 | 5 | 0 | 31 T | 19.38 | 156 |
| D Cambridge (W.W., Fulbourne)... | W. W. Gray, Esq., C.E. | 5 | 1 | 0 | 37 T | 18.12 | 191 |
| D " (W.W. Cherryhinton). | " " " " | 5 | 1 | 0 | 35 T | 18.20 | 161 |
| D " (Southacre) | L. De Bunsen, Esq. ... | 5 | 1 | 0 | 43 | 17.90 | 136 |
| D " (Harvey Road) | Smith Nutter, Esq. ... | 8 | 5 | 5 | 45 | 18.54 | 185 |
| D " (Herschel House) ... | C. N. H. Lock, Esq. ... | 5 | 1 | 1 | 36 T | 18.12 | 134 |
| D " (Sidney Street) | W. E. Pain, Esq. | 8 | 0 | 0 | 92 T | 18.30 | 172 |
| D " (Tenison Avenue) ... | W. B. Parsons, Esq. ... | 8 | 1 | 2 | ... | 17.98 | 174 |
| D " (Pinehurst) | C. F. Foster, Esq. | 5 | 0 | 10 | 36 | 19.49 | 174 |
| D § " (Botanic Gardens) ... | R. Irwin Lynch, Esq... | 8 | 0 | 10 | 40 | 17.59 | 165 |
| D " (Chesterton)..... | F. Skinner, Esq. | 5 | 1 | 0 | 60 T | 19.24 | ... |
| D " (Quy Hall) | T. Musgrave Francis Esq | 5 | 0 | 5 | 24 T | 19.15 | 186 |
| D Boxworth [St. Ives] | E. H. Thornhill, Esq... | 5 | 1 | 0 | 76 T | 20.16 | 206 |
| D Burwell | R. Stephenson, Esq.... | 5 | 2 | 0 | 58 | 19.58 | 167 |
| D Conington Hall [St. Ives] | Philip T. Gardner, Esq. | 8 | 0 | 5 | 50 T | 20.68 | 188 |
| D Cottenham (Bernard House)..... | A. Bull, Esq..... | 5 | 3 | 6 | 30 T | 19.63 | 146 |
| D Soham | T. Everett, Esq. | 5 | 2 | 0 | 25 T | 18.27 | ... |
| D Stretham (Dimocks Cote) | H. Nightingale, Esq... | 5 | 13 | 7 | ... | 17.36 | ... |
| D " Engine | Mr. J. Housley | 9 | 4 | 9 | 13 T | 18.05 | 144 |
| D " (Orchard House) | C. Wright, Esq..... | 8 | 5 | 0 | 42 | 19.60 | 165 |
| D § Ely (The Palace) | Mr. A. Sewell..... | 5 | 1 | 0 | 64 T | 20.01 | 179 |
| D Chatteris (Holwood Farm) | Mr. G. Argent | 5 | 0 | 10 | 12 | 18.82 | ... |
| D Littleport (Highfield House) ... | H. G. Martin, Esq. ... | 8 | 3 | 6 | 67 T | 16.16 | 133 |
| D Chatteris (Aylesby House) | A. H. Ruston, Esq. ... | 8 | 0 | 6 | 31 | 20.61 | 163 |
| D " (The Priory) | H. F. Fryer, Esq..... | 5 | 0 | 7 | 31 | 20.74 | 135 |
| D Stanground Sluice | A. Lunn, Esq., C.E. ... | 8 | 1 | 6 | ... | 19.40 | ... |
| D March | " " " " | 9 | 2 | 0 | ... | 19.50 | 148 |
| D Upwell (Marmont Priory Lock)... | " " " " | 8 | 1 | 1 | ... | 15.88 | 187 |
| D " (Euximoor House) | H. West, jun., Esq. ... | 5 | 0 | 8 | 15 | 19.14 | 152 |

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 Sea Level | 1908 | | |
| | | | | | | | |
| | | in. | ft. | in. | feet. | inches. | |
| CAMBRIDGESHIRE—(con.) | | | | | | | |
| D Thorney (Bedford Office) | A. J. Forrest, Esq. ... | 8 | 3 | 6 | 9 7/8 | 17·89 | 146 |
| D§ „ (Wryde House) | S. Egar, Esq. | 5 | 1 | 0 | 7 1/2 | 17·94 | 155 |
| D Wisbech (Bank House)..... | Lord Peckover of Wisbech | 8 | 0 | 8 | 6 | 17·50 | 151 |
| D „ (Monica Road) | W. Climenson, Esq. ... | 8 | 1 | 2 | 6 | 18·25 | 145 |

DIVISION IV.—EASTERN COUNTIES.

ESSEX.

| | | | | | | | |
|------------------------------------|--------------------------|---|---|----|---------|--------|-----|
| D Grays Sewage Works | A. C. James, Esq., C.E. | 8 | 2 | 3 | 12 7/8 | 19·14 | 159 |
| D Orsett | W. Powell, Esq..... | 8 | 3 | 0 | 73 1/2 | 21·34 | 137 |
| § East Ham | F. J. Kendall, Esq. ... | 5 | 1 | 0 | 13 7/8 | 20·01 | ... |
| D „ „ | Met. Water Board..... | 8 | 0 | 11 | 17 7/8 | 22·64 | 140 |
| D§ Shoeburyness | Superintendt. of Expts. | 8 | 1 | 0 | 13 7/8 | 17·97 | 153 |
| § „ „ | M „ „ „ | 5 | 1 | 0 | 13 7/8 | 18·05 | ... |
| D West Ham (Abbey Mills)..... | M Fitzmaurice Esq CMG | 8 | 1 | 0 | 11 7/8 | 21·30 | 146 |
| D Barking Cemetery | H. Hargreaves, Esq.... | 5 | 1 | 0 | 18 | 22·66 | 130 |
| D Southend (Corporation Obsy.) ... | Southend Corporation.. | 8 | 1 | 0 | 90 | 18·83? | 131 |
| „ (Broadway) | H. J. G. Ralph, Esq.... | 5 | 1 | 0 | 78 1/2 | 21·19 | 171 |
| D „ (Water Works) | Southend Water Wks Co | 8 | 1 | 0 | 112 7/8 | 21·43 | 204 |
| „ („ „ Eastwood) | „ „ „ „ | 8 | 1 | 0 | 50 7/8 | 20·75 | 167 |
| D North Ockendon..... | W. Beech, Esq. | 5 | 1 | 3 | 100 | 19·85 | 156 |
| D Wanstead (Red Bridge) | Met. Water Board..... | 8 | 8 | 0 | 33 7/8 | 21·00 | 137 |
| Manor Park (Albany Road) ... M | A. J. Wilmshurst, Esq. | 5 | 3 | 0 | 40 | 20·86 | ... |
| D Leyton (Town Hall) | W. Dawson, Esq., C.E. | 5 | 1 | 0 | 22 7/8 | 20·56 | 146 |
| D† Lea Bridge | Met. Water Board..... | 8 | 0 | 6 | 23 7/8 | 20·86 | 140 |
| D Upminster Hall ... | Captain G. H. T. Swinton | 5 | 1 | 0 | 121 1/2 | 19·37 | 165 |
| D† Walthamstow (Ferry Lane)..... | Met. Water Board..... | 8 | 0 | 10 | 30 7/8 | 22·58 | 152 |
| D Romford (Harold Wood) | J. G. Broodbank, Esq.. | 5 | 4 | 0 | 120 | 20·16 | 158 |
| D† Woodford (Haggar Lane) | Met. Water Board..... | 8 | 0 | 8 | 176 7/8 | 22·87 | 140 |
| Foulness (The Lodge) | B. C. Hall, Esq..... | 5 | 1 | 2 | 9 7/8 | 17·07 | ... |
| D Billericay (Ramsden Hall) | T. W. Bacon, Esq..... | 5 | 0 | 9 | 260 7/8 | 23·03 | 158 |
| D Wickford (Runwell Hall)..... | Lt.-Col. H. Kemble ... | 5 | 1 | 6 | 75 1/2 | 21·63 | 144 |
| D Havering Grange | G. P. Hope, Esq. | 5 | 1 | 0 | 255 7/8 | 23·70 | 208 |
| D „ -atte-Bower (Fernside) | Benjamin Smith, Esq.. | 5 | 1 | 0 | 341 1/2 | 26·59 | 210 |
| D† Buckhurst Hill Reservoir..... | Met. Water Board..... | 8 | 1 | 7 | 275 7/8 | 24·43 | 167 |
| „ „ (Ardmore) | Mrs. Eliot Howard ... | 8 | 1 | 0 | 270 | 26·43 | ... |
| D† Chingford Mill | Met. Water Board..... | 8 | 0 | 6 | 40 7/8 | 22·15 | 146 |
| D „ (Sewardstone Lodge).. | W. P. Robertson, Esq. | 8 | 0 | 10 | 200 ? | 23·14 | 158 |
| D Brentwood (Shenfield) | late Rev. Canon Quennell | 5 | 0 | 7 | 305 1/2 | 23·07 | 160 |
| D† Loughton (High Beech Reservoir) | Met. Water Board..... | 8 | 1 | 0 | 376 7/8 | 25·21 | 165 |
| D Theydon Bois (Thriffs Hall) ... | H. B. Debenham, Esq.. | 5 | 0 | 9 | 200 | 24·53 | 204 |
| Southminster | H. Murton, Esq. | 5 | 1 | 1 | 85 7/8 | 18·45 | ... |
| D Ingatestone (Fryerning) | A. E. Christy, Esq. ... | 5 | 1 | 0 | 291 7/8 | 20·64 | 181 |
| D „ { „ Furze Hall)... | E. H. N. Wilde, Esq.. | 5 | 1 | 0 | 285 1/2 | 22·66 | 186 |
| „ { „ „ „) No. 2 | „ „ „ | 5 | 1 | 0 | 285 1/2 | 22·39 | ... |

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 | | 1908 |
| | | in. | ft. | in. | feet. | inches. | |
| ESSEX—(con.) | | | | | | | |
| d† Waltham Abbey..... | Met. Water Board..... | 8 | 5 | 0 | 66 7/8 | 24·76 | 148 |
| d " " (Gunpr. Factory) | The Superintendent ... | 5 | 2 | 0 | 64 7/8 | 27·07 | 183 |
| Epping (The Hemnalls) | J. Nicholl, Esq. | 8 | 0 | 8 | 345 | 26·24 | ... |
| d Maldon (Hazeleigh Rectory) ... | Rev. G. H. Raynor ... | 7 | 1 | 1 | 161 7/8 | 18·43 | 156 |
| d Bradwell-on-Sea (Bradwell Hall) | J.C. Chillingworth, Esq. | 5 | 1 | 1 | 27 | 17·75 | 132 |
| d Danbury Rectory | Rev. J. Bridges Plumptre | 5 | 1 | 0 | 365 1/2 | 18·62 | 165 |
| d Writtle (Melbourne)..... | E. Rosling, Esq. | 5 | 0 | 9 | 140 1/2 | 20·78 | 164 |
| " | R. Woodhouse, Esq. ... | 8 | 2 | 0 | 100 ? | 21·09 | ... |
| " (The House)..... | Miss Usborne | 5 | 2 | 6 | 100 | 23·84? | ... |
| Chelmsford (High Street)..... | F. Chancellor, Esq. ... | 8 | 1 | 0 | 92 7/8 | 22·15 | 193 |
| " (County Hortic. School) | C. W. Aylett, Esq. ... | 5 | 1 | 0 | ... | 21·84 | ... |
| d§ " (Spergula) | J.C. Thresh, Esq., M.D. | 5 | 1 | 0 | 136 1/2 | 21·61 | 160 |
| d " (Springfield Place)... | Miss Jackson | 5 | 0 | 11 | 143 7/8 | 22·41 | 220 |
| " (Roxwell) | R. W. Christy, Esq.... | 5 | 1 | 0 | 180 1/2 | 19·90 | ... |
| Abbees Roding Rectory | Rev. L. Capel Cure ... | 8 | 1 | 0 | 300 | 20·63 | ... |
| Clacton-on-Sea (Clacton College) | H. Picton, Esq. | 5 | 0 | 9 | 40 | 19·28 | ... |
| d§ " " " | Mr. A. W. Shadick ... | 5 | 1 | 2 | 55 7/8 | 17·92 | 149 |
| Great Clacton (Clay Hall) | Philip Smith, Esq..... | 5 | 2 | 0 | 40 1/2 | 19·02 | 140 |
| d Witham (Terling Vicarage)..... | H. C. Boutflower, Esq. | 5 | 1 | 0 | 115 1/2 | 20·11 | 166 |
| d Great Leighs (Lyons Hall) | J. H. Tritton, Esq. ... | 5 | 3 | 0 | 130 7/8 | 19·91 | 141 |
| d " " (" ") | " " " " " " " " | 5 | 0 | 6 | 140 7/8 | 20·35 | 141 |
| d Kelvedon (White Barn) | W. & H. J. Sheldrake, Esqs. | 5 | 1 | 5 | 135 1/2 | 17·96 | 175 |
| d Fingringhoe (Ballast Quay Farm) | T. B. Grubb, Esq. | 5 | 2 | 0 | 47 | 18·41 | 153 |
| d Colchester (Berechurch) | R. P. Blyth, Esq. | 5 | 1 | 3 | 120 ? | 19·69 | 133 |
| " (King's Ford) | Lady Digby | 5 | 0 | 1 | 103 1/2 | 19·07 | 180 |
| " (Borough Surveyor's Office) | H. Goodyear, Esq., C.E. | 8 | 17 | 0 | 82 7/8 | 15·43 | ... |
| d " (Hill House, Lexden) | S. F. Hurnard, Esq. 7/8 | 5 | 1 | 0 | 90 1/2 | 17·40 | 144 |
| " " " " " " " " | " " " " " " " " | 5 | 1 | 0 | 90 1/2 | 17·44 | ... |
| " (Home Farm, " ") | Mr. W. Bird | 5 | 1 | 0 | 125 1/2 | 16·23 | ... |
| Great Bromley | F. J. Baker, Esq. | 5 | 1 | 0 | 120 ? | 19·14 | ... |
| Braintree (Camoy's) | Miss Cunnington | 5 | 1 | 0 | 200 | 21·42 | 133 |
| d " (Bocking, Fennes) ... | H. S. Tabor, Esq. | 5 | 1 | 0 | 240 1/2 | 19·82 | 140 |
| Hassobury [Bishop Stortford] ... | T. S. Gosling, Esq. ... | 5 | 0 | 10 | 290 ? | 22·9 1/2 | 168 |
| Earls Colne (Chalkney House)... | H. F. Hills, Esq. | 5 | 1 | 0 | 188 1/2 | 20·15 | 136 |
| d Manningtree (Bradfield Lodge).. | G. Hempson, Esq. | 5 | 1 | 0 | 113 1/2 | 21·61 | 171 |
| d Harwich (Hill House, Ramsey).. | Miss K. Hempson | 5 | 0 | 6 | 150 | 20·65 | 172 |
| d " (Coastguard Station)... | Mr. W. Bevan | 5 | 1 | 0 | 40 | 16·30 | 125 |
| § Halstead (The Brewery) | Royal Meteorological Soc | 5 | 1 | 0 | 144 | 20·23 | 153 |
| § " (Red House) | " " " " " " " " | ... | ... | ... | ... | 20·48 | 159 |
| d Lawford (Dale Hall)..... | W. H. Richardson, Esq. | 5 | 1 | 0 | 110 1/2 | 19·99 | 154 |
| d Dedham (Dalethorpe) | J. D. Tremlett, Esq.... | 5 | 1 | 1 | 54 | 18·71 | 166 |
| Langham Rectory | Rev. T. S. Raffles | 5 | 0 | 11 | 134 | 21·04 | 169 |
| Boxted (Cheshunts) | R. G. Wylde, Esq. | 5 | 1 | 0 | 144 1/2 | 20·84 | ... |
| Great Maplestead (Monk's Lodge) | T. F. Miller, Esq. | 5 | 0 | 9 | 245 1/2 | 19·93 | ... |
| d Newport (The Vicarage) | Rev. G. F. Tamplin ... | 5 | 3 | 6 | 208 1/2 | 21·90 | 162 |
| " (Wood Hall) | Charles Beadle, Esq.... | 5 | 1 | 0 | 400 | 22·46 | ... |
| d Saffron Walden (Market Place).. | Stebbing Leverett, Esq. | 5 | 1 | 0 | 201 7/8 | 21·02 | 170 |

DIVISION IV.—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 | | 1908 |
| | | in. | ft. | in. | feet. | inches. | |
| ESSEX—(con.) | | | | | | | |
| d Saffron Walden (Audley End)... | Mr. J. Vert | 5 | 1 | 0 | 155 ∇ | 21.79 | 176 |
| d Bulmer Lodge [Sudbury]..... | The Misses Burke | 5 | 1 | 3 | 200 \uparrow | 21.98 | 197 |
| Great Chesterford Mills | Ernest H. King, Esq... .. | 5 | 1 | 0 | 130 | 20.05 | ... |
| (The Avenue) | | | | | | | |
| SUFFOLK. | | | | | | | |
| d § Felixstowe (West View) | S. Alexander, Esq..... | 5 | 1 | 0 | 70 | 19.11 | 157 |
| East Bergholt (Ackworth House) | A. Harwood, Esq. | 8 | 1 | 6 | 145 | 19.36 | 177 |
| Trimley | G. Binyon, Esq..... | 8 | 1 | 0 | 80 \uparrow | 21.34 | ... |
| d Ipswich (Woolverstone Park) ... | C. H. Berners, Esq. ... | 8 | 1 | 0 | 100 \uparrow | 20.76 | 182 |
| d „ (Orwell Park) | Mr. J. Wallis | 8 | 1 | 0 | 60 ∇ | 21.26 | 165 |
| „ (Belstead Hall) | Miss Wilson | 5 | 1 | 0 | 100 | 22.46 | 159 |
| d „ (Rookwood, Copdock)... | F. L. Bland, Esq. | 5 | 1 | 6 | 170 \uparrow | 21.34 | 192 |
| d Alderton Rectory | Rev. C. G. Archer | 8 | 2 | 2 | 35 ∇ | 20.44 | 168 |
| d Sudbury (Friars Street) | E. Ransom, Esq. | 5 | 1 | 7 | 93 \uparrow | 19.33 | 198 |
| d Ipswich (Museum)..... | F. Woolnough, Esq. ... | 8 | 0 | 10 | 72 | 22.21 | 175 |
| „ (Bishop's Hill)..... | Miss D. E. Biddell | 5 | 1 | 0 | 104 ∇ | 22.26 | ... |
| d „ (Parkside) | F. Turner, Esq..... | 5 | 1 | 0 | 125 \uparrow | 21.11 | 152 |
| d „ (Dale Hall) | Percy Turner, Esq. | 8 | 1 | 0 | 135 \uparrow | 22.19 | 168 |
| Waldringfield Old Rectory | Rev. T. H. Waller..... | 8 | 1 | 2 | 60 ∇ | 19.13 | ... |
| d Hollesley Manor | G. P. Hope, Esq. | 5 | 1 | 0 | 65 \uparrow | 19.48 | 170 |
| Boyton Rectory | Rev. A. Washington... .. | 5 | 1 | 10 | 33 \uparrow | 17.67 | 141 |
| Lavenham (High Street) | C. Mellis, Esq. | ... | ... | ... | 200 ∇ | 19.69 | 165 |
| d Woodbridge Abbey | Col. R. J. Carthew ... | 8 | 1 | 2 | 46 ∇ | 20.45 | 173 |
| d „ „ „ Pedestal g. „ „ „ | „ „ „ „ „ | 8 | 6 | 0 | 47 | 20.29 | 171 |
| d „ „ (Melton Asylum) ... | Dr. S. G. Longworth... .. | 8 | 1 | 4 | 74 ∇ | 18.50 | 159 |
| d Rendlesham Hall | Lord Rendlesham | 5 | 1 | 0 | 88 ∇ | 19.02 | 143 |
| d § Haverhill (Great Thurlow) | H. O. Stallard, Esq. ... | 5 | 1 | 0 | 241 ∇ | 20.93 | 167 |
| Clare (Cordell Hall, Stansfield).. | J. Slater, Esq. | 5 | 1 | 0 | 300 ∇ | 22.97 | ... |
| d „ „ (Hawkedon Rectory) | Rev. B. P. Oakes | 5 | 3 | 4 | 305 ∇ | 22.21 | 182 |
| d Cockfield Rectory | Rev. Edwin Hill | 5 | 1 | 0 | 305 \uparrow | 20.54 | 167 |
| Ash Bocking Vicarage..... No. 1 | Rev. M. B. Cowell..... | 5 | 1 | 0 | 231 ∇ | 22.02 | 139 |
| „ „ „ „ „ No. 2 | „ „ „ „ „ | 5 | 3 | 4 | 231 ∇ | 22.14 | 139 |
| Charsfield Hall | Hugh P. Youngman Esq. | 5 | ... | ... | 150 | 21.00 | ... |
| Parham (The High House) | H. R. Smith, Esq..... | 8 | 1 | 0 | 93 | 20.28 | ... |
| d Aldborough (Aldringham Ho.).. | F. Garrett, Esq..... | 8 | 4 | 5 | 50 ∇ | 19.52 | 156 |
| Great Glemham | Col. A. Bloomfield..... | 5 | 1 | 2 | 80 \uparrow | 21.62 | ... |
| Debenham Hall | <i>E. Anglian Daily Times</i> | ... | ... | ... | ... | 21.38 | ... |
| d Little Saxham Rectory | Rev. H. I. Kilner | 8 | 0 | 10 | 220 | 21.86 | 179 |
| d Bury St. Edmunds (Westley) ... | R. Burrell, Esq..... | 5 | 1 | 0 | 226 ∇ | 22.69 | 160 |
| d „ „ „ (Fornham St. Martin) | Rev. J. S. Pratt | 5 | 1 | 0 | 100 | 19.24 | 151 |
| „ „ „ (Hengrave) | Mr. W. Nichol | 5 | 1 | 2 | 91 | 20.30 | ... |
| Westleton (St. Helena)..... | J. R. Grimsey, Esq. ... | 8 | 2 | 0 | 65 ∇ | 20.02 | 141 |
| d Westleton Walsham-le-Willows). | Miss M. C. Martineau.. | 5 | 1 | 0 | ... | 21.91 | 157 |
| Stradbroke Vicarage | Rev. Canon W. Tate... .. | 5 | 1 | 3 | 172 \uparrow | 22.12 | ... |
| † Ixworth (Barningham) | Miss A. K. Lingwood.. | 8 | 1 | 0 | 136 | 22.47 | ... |
| d Elveden Hall | Viscount Iveagh, K.P. | 5 | 1 | 0 | 130 \uparrow | 22.63 | 216 |

DIVISION IV.—EASTERN COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with .01 or more recorded. |
|---------------------------------------|---------------------------|-------------|---------------------|------------------------|------------------------|---------------------------------|
| | | Diameter | Height Above Ground | Height Above Sea Level | | |
| | | in. | ft. in. | feet. | inches. | |
| SUFFOLK—(con.) | | | | | | |
| ▮ Halesworth (Rumburgh) | Rev. W. Linton Wilson | 4 | 3 0 | 148 T | 20·13 | 197 |
| Bungay (Flixton Vicarage) | Rev. H. Trethewy | 5 | 1 0 | 80 T | 21·97 | 166 |
| ▮ Beccles (Sotterley Hall) | Capt. Miles Barne | 5 | 0 11 | 50 T | 19·69 | 169 |
| † Lowestoft (Belle Vue Park) | Royal Meteorological Soc | 5 | 1 0 | 86 T | 18·64 | 153 |
| ▮ § „ (The Clyffe, Corton) | R. J. Colman, Esq. ... | 5 | 1 0 | 62 L | 20·01 | 167 |
| ▮ Herringfleet (The Gables) | G. H. Wyllys, Esq. ... | 5 | 0 8 | 52 | 22·89 | 204 |
| ▮ Lound Pumping Station | Lowestoft Water & Gas Co. | 8 | 1 0 | 34 | 20·59 | 160 |
| Fritton [Yarmouth] | Mrs. H. E. Buxton | 8 | 0 10 | 40 | 20·50 | 154 |
| ▮ Burgh Hall [Yarmouth] | H. P. Frederick, Esq. ... | 8 | 0 6 | 45 T | 21·97 | 169 |
| NORFOLK. | | | | | | |
| ▮ † Thetford (Waterworks) | Mr. E. S. Greenwood ... | 8 | 1 0 | 170 T | 21·90 | 184 |
| ▮ † „ (Ford Place Gardens) | Mr. H. Simpson | 5 | 1 0 | 60 | 21·55 | 170 |
| Kenninghall (Council School) ... | A. B. Smith, Esq. | 5 | 0 6 | 160 ? | 21·99 | 178 |
| ▮ Pulham St. Mary | W. G. Rutter, Esq. ... | 5 | 1 0 | ... | 22·72 | 176 |
| ▮ Santon [Brandon] | A. W. Preston, Esq. ... | 5 | 0 10 | 32 | 21·83 | 168 |
| ▮ § Geldeston [Beccles] | E. T. Dowson, Esq. ... | 5 | 1 0 | 38 T | 19·44 | 183 |
| § „ [„] | „ „ „ „ | 8 | 1 0 | 38 T | 18·38 | ... |
| ▮ Long Stratton (Gt. Moulton Rec.) | Rev. T. D. Chute | 5 | 1 0 | 150 | 22·90 | 140 |
| ▮ „ „ (Fritton Rectory) | Mrs. Howes | 5 | 1 0 | 120 T | 21·97 | 204 |
| ▮ Raveningham Hall [Beccles] ... | N. H. Bacon, Esq. ... | 8 | 1 3 | ... | 22·12 | 147 |
| Southery | J. Stanley, Esq. | 5 | 1 3 | 13 | 18·22 | ... |
| ▮ Saxlingham Nethergate | Mrs. Pitt | 5 | 1 5 | ... | 20·47 | 181 |
| ▮ Loddon (Langley Park) | Sir R. P. Beauchamp, Bt. | 5 | 2 0 | 80 | 23·72 | 166 |
| ▮ Caston Rectory | A. W. Preston, Esq. ... | 5 | 1 0 | 148 T | 24·50 | 202 |
| ▮ Wymondham | J. B. Pomeroy, Esq. ... | 8 | 1 3 | 118 T | 23·18 | 196 |
| ▮ Watton | R. Martin, Esq. | 5 | 1 0 | 166 T | 24·13 | 187 |
| ▮ Hingham | G. K. Dobbs, Esq. | 5 | 1 1 | 188 T | 24·10 | 202 |
| ▮ Norwich (Dunston Hall) | A. W. Preston, Esq. ... | ... | ... | ... | 24·51 | 174 |
| ▮ Denver | „ „ „ „ | ... | ... | ... | 20·98 | 136 |
| ▮ Stoke Ferry (Wereham) | G. Read, Esq. | 5 | 2 3 | 66 T | 22·11 | 186 |
| ▮ † Keswick Old Hall | E. Knight, Esq. | 5 | 1 0 | 90 ? | 24·40 | 202 |
| ▮ Hethersett | F. A. Bainbridge, Esq. .. | 5 | 0 9 | 150 T | 23·30 | 188 |
| ▮ Outwell (Wellbreck Sluice) | A. Lunn, Esq., C.E. ... | 9 | 2 6 | 16 | 18·69 | 169 |
| ▮ Moulton | A. W. Preston, Esq. ... | 4 | ... | ... | 22·08 | 167 |
| Emneth | F. M. Bland, Esq. | 6 | 1 0 | 6 | 17·90 | 135 |
| § Yarmouth (Sailors' Home) | Meteorological Office ... | 8 | 4 0 | 12 | 22·52 | 173 |
| ▮ „ (Market Place) | Harvey Palmer, Esq. ... | 5 | 1 0 | 25 | 22·56 | 196 |
| ▮ † Norwich (Christ Church Rd. Eaton) | A. W. Preston, Esq. ... | 5 | 1 0 | 98 T | 25·16 | 221 |
| „ (Postwick Hall) | Miss E. M. Cross | 5 | 1 1 | 5 | 21·64 | 178 |
| ▮ „ (Carrow House) | Miss Colman | 5 | 1 3 | 35 T | 23·07 | 206 |
| ▮ § „ (Brundall) | A. W. Preston, Esq. ... | 5 | 1 0 | 66 T | 23·54 | 186 |
| ▮ „ (Ipswich Road) | J. H. Willis, Esq. | 5 | 1 0 | 110 T | 24·02 | 212 |
| ▮ „ (Heigham) | A. W. Preston, Esq. ... | 5 | 3 2 | 37 T | 22·42 | 197 |
| ▮ Acle | „ „ „ „ | 5 | 0 6 | 51 | 23·40 | 221 |
| ▮ Swaffham | W. H. Plowright, Esq. .. | 5 | 5 0 | 250 T | 21·46 | 183 |
| „ (Homewood) | Messrs. Vynne & Everett | 5 | 2 6 | 210 | 24·59 | ... |

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 | 1908 | |
| | | in. | ft. in. | feet. | inches. | |
| NORFOLK—(con.) | | | | | | |
| D Sprowston (Oak Lodge)..... | T. Cozens Hardy, Esq. | 5 | 1 0 | 101 $\overline{\pi}$ | 21·15 | 209 |
| D Yarmouth (Ormesby St. Michael) | Gt. Yarmouth W. W. Co. | 8 | 1 0 | 21 $\overline{\pi}$ | 22·88 | 229 |
| D Sporle | A. W. Preston, Esq.... | ... | ... | ... | 24·28 | 219 |
| D Swaffham (Dunham) | „ „ „ | 5 | 1 1 | 320 | 23·74 | 203 |
| D Drayton | „ „ „ | ... | ... | ... | 23·94 | 171 |
| Wiggenhall (St. Germans Sluice) | A. Lunn, Esq., C.E. | 8 | 1 6 | ... | 20·06 | 151 |
| D Middleton | J. de Pass, Esq. | 5 | 0 9 | 100 ? | 24·32 | 177 |
| Gayton Pumping Station | J. H. Webb, Esq. | 5 | 1 0 | 131 $\overline{\pi}$ | 20·64 | ... |
| D Bylaugh Park Gardens | Mr. G. Beeton | 5 | 1 0 | 130 $\overline{\pi}$ | 23·49 | 185 |
| D Coltishall | A. W. Preston, Esq. | ... | ... | ... | 20·04 | 195 |
| D Great Massingham | W. S. Freuer, Esq. | 5 | 3 2 | 245 $\overline{\pi}$ | 25·78 | 196 |
| D Reepham (Whitwell Vicarage).. | Rev. R. Freeman | 8 | 1 6 | 130 $\overline{\pi}$ | 22·11 | 193 |
| D Aylsham (Rippon Hall) | Major H. S. Marsham.. | 5 | 0 6 | 90 ? | 21·79 | 137 |
| D Cawston Rectory | A. W. Preston, Esq. | 5 | 1 0 | 120 | 21·50 | 148 |
| D Aylsham (Woodgate) | R. J. W. Purdy, Esq. | 5 | 1 0 | 50 | 24·15 | 190 |
| D North Walsham (Dilham) | A. W. Preston, Esq. | 5 | 0 8 | ... | 23·88 | 237 |
| D „ „ (Worstead) | R. Cross, Esq. | 8 | 1 0 | ... | 24·26 | 184 |
| D „ „ (Empson House) | W. S. Horn, Esq. | 5 | 1 0 | 102 | 20·54 | 183 |
| D§ Hillington School | Rev. H. Ffolkes | 5 | 3 6 | 93 $\overline{\pi}$ | 25·52 | 214 |
| D Sandringham House | Mr. T. H. Cook | 5 | 1 1 | 121 $\overline{\pi}$ | 25·69 | 190 |
| West Rudham | W. S. Freuer, Esq. | 5 | 0 10 | 180 $\overline{\pi}$ | 24·71 | ... |
| D East Rudham | Miss F. E. Mays | 5 | 2 0 | 150 ? | 24·54 | 195 |
| D Cromer (Northrepps Hall) | Mrs. R. Gurney | 5 | 0 4 | 200 | 23·21 | 194 |
| „ | W. H. Archer, Esq. | 8 | 1 0 | 197 $\overline{\pi}$ | 18·52 | 227 |
| D „ (The Warren) | F. H. Barclay, Esq. | 8 | 1 6 | ... | 19·71 | 149 |
| D Burnham Overy Staithe | Rev. F. W. Walter | 3 | 3 0 | 15 | 18·64 | 142 |
| D Blakeney (Wiveton) | A. W. Preston, Esq. | ... | ... | 40 ? | 20·40 | 163 |
| D „ | Mr. R. Lee | 5 | 1 3 | 29 | 19·49 | 139 |
| Wells (Holkham Hall) | A. E. W. Tower, Esq. | 12 | 4 0 | 43 | 19·18 | ... |

DIVISION V.—SOUTH WESTERN COUNTIES.

WILTSHIRE.

| | | | | | | |
|--|--------------------------|---|------|----------------------|-------|-----|
| D Landford (Northlands) | Mrs. Wigram | 5 | 1 10 | 167 $\overline{\pi}$ | 24·57 | 167 |
| D Downton (Wick House) | Dr. F. G. Penrose | 8 | 0 5 | 120 | 22·95 | 154 |
| D Donhead St. Mary (Charlton Ho.) | Dowager Lady Wynford | 5 | 0 7 | 514 | 27·93 | 186 |
| D Berwick St. John (Ferne) | Col. A. H. Charlesworth | 5 | 1 0 | 500 | 33·90 | 166 |
| D Longford Castle | The Earl of Radnor | 5 | 1 0 | 141 $\overline{\pi}$ | 23·16 | 158 |
| Alderbury | Rev. Canon Hutchings. | 5 | 0 8 | 263 $\overline{\pi}$ | 22·46 | ... |
| Tisbury (The Academy) | J. Bristol, Esq. | 5 | 0 9 | 380 $\overline{\pi}$ | 27·50 | ... |
| D East Knoyle (Slades) | E. H. Miles, Esq. | 5 | 2 0 | 560 $\overline{\pi}$ | 27·90 | 176 |
| D Salisbury (Fowlers Hill) | Mrs. T. Awdry | 5 | 1 0 | 225 $\overline{\pi}$ | 21·91 | 177 |
| D „ (Brown Street) | T. H. Baker, Esq. | 5 | 1 0 | 155 $\overline{\pi}$ | 22·78 | 189 |
| D „ (De Vaux Lodge) | H. Peniston, Esq. | 5 | 1 0 | 150 | 23·74 | 166 |
| „ (Wilton House) | T. Challis, Esq. | 8 | 0 6 | 180 $\overline{\pi}$ | 29·65 | ... |
| D Stratford-sub-Castle (The Manor Ho.) | J. Carpenter, Esq. | 5 | 0 9 | 165 $\overline{\pi}$ | 22·05 | 163 |
| D Mere (The Limes) | E. Bracher, Esq. | 5 | 1 0 | 300 | 28·12 | 145 |

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 Sea Level | 1908 | |
| | | in. | ft. | in. | feet. | inches. | |
| WILTSHIRE—(con.) | | | | | | | |
| Mere Vicarage | Rev. J. A. Lloyd | 5 | 3 | 0 | 370 T | 27·55 | 178 |
| D „ (Charnage) | A. R. White, Esq..... | 5 | 1 | 0 | 426 T | 27·09 | 183 |
| D Codford St. Mary (Stockton Ho.) | G. Knowles, Esq. | 5 | 1 | 0 | 260 | 26·80 | 161 |
| Maiden Bradley | The Duke of Somerset. | 8 | 1 | 6 | 626 T | 36·34 | 171 |
| D Warminster (Rye Hill)..... | Stiles E. Jefferys, Esq.. | 8 | 2 | 0 | 466 T | 29·93 | 201 |
| D Bulford (Manor House) | Mr. J. Bryan | 5 | 1 | 0 | 242 T | 25·41 | 181 |
| Salisbury Plain (Chitterne House) | R. Hayward, Esq. | 11 | 4 | 0 | 319 T | 22·83 | 148 |
| D „ „ (Shrewton) | F. J. Wardale, Esq. ... | 5 | 0 | 9 | 322 | 28·76 | 205 |
| Corsley (Sturford Mead) | H. Theodore Cookson Esq | 5 | 0 | 9 | 449 | 24·95 | 159 |
| D Market Lavington..... | Miss A. P. Bouverie ... | 5 | 0 | 10 | 290 T | 23·14 | 170 |
| D Ludgershall (Conholt Park)..... | E. A. Wigan, Esq. | 5 | 1 | 3 | 800 T | 29·72 | 174 |
| D „ (Collingbourne Kingston) | Baldwin Latham Esq CE | 5 | 1 | 0 | 470 T | 24·05 | 141 |
| D Trowbridge (Water Works, Biss) | W. W. Gray, Esq., C.E. | 5 | 1 | 0 | 311 | 25·96 | 158 |
| D „ (Rood Ashton) | Mr. W. Strugnell | 8 | 1 | 6 | 250 | 27·72 | 187 |
| D „ (Wingfield) | T. H. Clark, Esq. | 5 | 1 | 0 | 190 | 25·38 | 152 |
| D Devizes (Chirton Old Manor Fm.) | Mr. T. Selfe | 5 | 3 | 0 | 374 | 28·09 | 182 |
| D Bradford (The Chantry) | Dr. J. Beddoe, F.R.S.. | 5 | 0 | 9 | 125 | 23·98 | 156 |
| D „ (Winsley Manor) | E. W. Knatchbull, Esq. | 5 | 0 | 6 | 400 | 23·81 | 162 |
| D „ (Bearfield House) | G. A. R. FitzGerald, Esq. | 5 | 1 | 10 | 290 T | 25·53 | 139 |
| D „ (Holt) | late A. J. Beaven, Esq. | 5 | 1 | 2 | 120 | 26·01 | ... |
| D Devizes (Wilts Co. Asylum) ... | Dr. J. Ireland Bowes... | 8 | 2 | 3 | 385 T | 22·09 | 158 |
| D Buttermere Rectory | Rev. W. E. Burkitt ... | 5 | 3 | 6 | 847 | 28·21 | 161 |
| D Woodborough..... | Rev. C. W. Hony | 5 | 1 | 0 | 400 T | 25·56 | 173 |
| D Pewsey (Wilcot Vicarage) | Rev. W. Slater Sykes.. | 5 | 0 | 6 | 415 T | 29·47 | 141 |
| D Shalbourne (West Court) | Mr. T. Barns | 5 | 1 | 0 | 640 ? | 27·47 | 180 |
| D Bishops Cannings | Mrs. H. H. Mogg | 5 | 1 | 0 | 446 T | 27·07 | 170 |
| D Devizes (Shepherd's Shore) | Mr. J. Carter | 5 | 1 | 6 | 555 T | 27·73 | 168 |
| § Marlborough (College) | Royal Meteorological Soc | 5 | 1 | 0 | 425 | 26·07 | 185 |
| D „ (Mildenhall) | Rev. Gordon Soames ... | 5 | 1 | 0 | 456 | 27·05 | 154 |
| D Calne (High Street) | H. Wilkins, Esq. | 5 | 3 | 6 | 244 T | 23·37 | 137 |
| Chippenham (Langley Burrell).. | Rev. A. B. Mynors ... | 8 | 0 | 8 | 250 | 24·12 | ... |
| D „ (Kington Langley).. | H. H. Palairt, Esq. ... | 5 | 1 | 0 | 350 | 25·10 | 167 |
| Aldbourn (The Warren) | Henry Brown, Esq. ... | 5 | 1 | 0 | 550 T | 26·45 | 190 |
| D Wootton Bassett (The Lime Kiln) | H. Bevir, Esq. | 5 | 1 | 6 | 422 T | 21·89 | 160 |
| D New Swindon | H. J. Southwell, Esq... | 8 | 0 | 11 | 378 | 23·67 | 184 |
| § Malmesbury (Cowbridge House). | Royal Meteorological Soc | 5 | 1 | 0 | 236 | 25·73 | 184 |
| D „ (Charlton Cottage). | Countess of Suffolk ... | 6 | 0 | 9 | 500 | 25·80 | 161 |
| D Highworth (Hannington Hall)... | Mrs. Hussey-Freke ... | 5 | 1 | 0 | 375 | 22·18 | 173 |
| DORSETSHIRE. | | | | | | | |
| § Portland Bill (New Lighthouse). | Meteorological Office ... | 8 | 1 | 0 | 23 | 20·01? | 158 |
| D „ (H.M. Breakwater)..... | L. Parr, Esq., C.E. ... | 8 | 1 | 5 | 23 T | 33·41 | 154 |
| D Weymouth (Wyke Regis) | Mrs. Pretor..... | 5 | 0 | 6 | 158 T | 27·42 | 151 |
| D § „ (Westham) | I. J. Brown, Esq. | 5 | 1 | 0 | 25 | 24·57 | 156 |
| D „ (Massandra) | H. W. Green, Esq. ... | 5 | 1 | 6 | 40 B | 28·59 | 186 |
| D Swanage (Royal Victoria Hotel) | H. B. Vincent, Esq.... | 5 | 1 | 11 | 50 T | 23·24 | 137 |
| D Chickerell (Montevideo) | Mrs. Richardson | 5 | 1 | 0 | 100 | 25·83 | 171 |

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain. | Days with $\frac{1}{10}$ or more recorded. |
|---|-------------------------------------|-------------|----------------------|-----|------------------------|--|
| | | Diameter | Height Above Ground. | | Height Above Sea Level | 1908 |
| | | in. | ft. | in. | feet. | inches. |
| DORSETSHIRE—(con.) | | | | | | |
| D Chickerell Rectory | Rev. Sealy Poole | 8 | 1 | 0 | 103 | 23·24 179 |
| East Fleet (Fleet House) | Dorset Field Club | 5 | 1 | 2 | 40 | 23·75 ... |
| D† West Lulworth Vicarage | Rev. W. Percy Schuster | 5 | 1 | 0 | 128 ∇ | 26·00 132 |
| D East Lulworth Vicarage | Dorset Field Club | 5 | 0 | 9 | 175 | 28·26 152 |
| D Abbotsbury (New Barn) | J. C. P. White, Esq. | 5 | 1 | 6 | 111 \uparrow | 26·50 180 |
| D Upwey (Portland W.W.) | R. S. Henshaw, Esq. C.E. | 8 | 1 | 0 | 290 ∇ | 30·88 203 |
| D Warmwell House | Col. A. M. Blake, C.B. | 5 | 1 | 0 | 160 | 30·74 167 |
| D Wareham (East Holme) | Gerald D. Bond, Esq. | 5 | 12 | 0 | 24 | 26·50 140 |
| „ (Stoborough) | L. G. Pike, Esq. | 5 | 1 | 5 | 15 \uparrow | 24·18 ... |
| D Winterbourne Herringstone | Dorset Field Club | 5 | 2 | 6 | 200 | 34·63 132 |
| D Wareham (South Street) | S. W. Bennett, Esq. | 5 | 2 | 6 | 18 | 25·76 166 |
| D „ (Binnegar Hall) | Lt.-Col. P. Farrer | 5 | 1 | 0 | 65 | 27·44 132 |
| D Abbotsbury (Littlebredy) | Rev. C. E. R. Romilly. | 5 | 0 | 6 | 372 | 31·74 166 |
| D Winterbourne Steepleton | H. Stilwell, Esq. | 8 | 1 | 0 | 316 ∇ | 35·42 185 |
| D Dorchester Water Works | P. T. Harrison, Esq. | 8 | 1 | 2 | 315 ∇ | 33·26 167 |
| D „ (Wollaston House) ... | Capt. J. E. Acland | 5 | 1 | 0 | 200 ∇ | 33·11 168 |
| D Poole (Parkstone) | W. H. Symes, Esq. | 5 | 1 | 3 | 160 \uparrow | 23·43 151 |
| § „ „ (Heatherlands) | Mr. C. Mabey | 5 | 1 | 0 | 197 | 26·05 ... |
| D Bourne Valley [Bournemouth] ... | H. W. Woodall, Esq. | 8 | 1 | 3 | 84 \uparrow | 22·35 160 |
| D Lyme Regis (Colway Cottage) ... | Dr. J. Spurr | 5 | 1 | 0 | 250 | 29·48 169 |
| D Charmouth (Leslie Cottage) | M. E. Mills, Esq. | 8 | 1 | 3 | 120 ∇ | 26·88 167 |
| „ „ „ „ „ weekly | „ „ „ „ „ | 5 | 1 | 0 | 120 ∇ | 26·85 ... |
| D Bridport (Coneygar) | H. Gordon, Esq., C.E. | 5 | 1 | 0 | 110 \uparrow | 26·78 157 |
| Bradford Peverell House | Mrs. Middleton | 6 | 1 | 1 | 380 | 32·12 151 |
| D „ „ „ | Dorset Field Club | 5 | 0 | 3 | ... | 36·30 135 |
| D Charminster (Brooklands) | „ „ „ | 8 | 1 | 3 | ... | 29·78 131 |
| Puddletown Vicarage | „ „ „ | ... | ... | ... | 195 ? | 29·41 ... |
| D „ „ „ | „ „ „ | 5 | 1 | 0 | 190 | 29·05 135 |
| D Wynford House | „ „ „ | 5 | 0 | 6 | 410 | 39·10 155 |
| D Bere Regis (Barrow Hill) | „ „ „ | 5 | 1 | 0 | 120 | 26·16 149 |
| „ „ (Bloxworth Rectory) | Rev. O. P. Cambridge FRS | 5 | 1 | 6 | 205 \uparrow | 29·41 132 |
| D „ „ „ (House) | Mr. F. G. A. Lane. \swarrow | 5 | 1 | 6 | 118 | 28·65 163 Esq |
| D Wimborne (Broadstone) | J. E. James, Esq. | 5 | 1 | 0 | 230 \uparrow | 26·66 149 |
| „ „ (Corfe Mullen) | D. Kitchingman, Esq. C.E. | 8 | 1 | 6 | 82 | 26·94 ... |
| D Maiden Newton (Cattistock Lodge) .. | Major H. F. Fagan | 5 | 1 | 0 | 361 | 33·77 154 |
| D Bere Regis (Longthorns) | Mr. S. Smart | 5 | 1 | 0 | ... | 30·11 177 |
| Winterbourne Whitchurch Vic. | Rev. H. H. T. Bassett. | 8 | 0 | 6 | 280 ? | 28·29 ... |
| D Sturminster Marshall (Baillie Ho.) .. | Rev. J. Cross | 5 | 0 | 6 | 85 | 26·43 158 |
| D Wimborne (Codford) | G. H. Batterbury, Esq. MD | 5 | 0 | 9 | 69 \uparrow | 26·41 165 |
| „ „ (Park Homer) | Mrs. Paget | 5 | 0 | 6 | ... | 24·60 ... |
| D „ „ (Stoneham) | Horace J. Tuck, Esq. | 5 | 1 | 0 | 200 | 21·74 141 |
| D Beaminster Vicarage | Rev. A. A. Leonard | 5 | 1 | 0 | 216 \uparrow | 29·96 174 |
| D „ „ (Fleet Street) | J. Andrews, Jun., Esq. | 5 | 1 | 0 | 200 \uparrow | 29·65 170 |
| D Broadwindsor Vicarage | Dorset Field Club | 5 | 0 | 7 | 540 \uparrow | 32·02 172 |
| D „ „ (Blackdown House) | C. E. M. Pinney, Esq. | 5 | 0 | 9 | 515 | 34·76 201 |
| D Milton Abbas (Milton Abbey) ... | Mr. C. H. Perkins | 5 | 0 | 10 | 333 \uparrow | 30·08 181 |
| D Evershot | R. Stanley Clarke, Esq. | 8 | 1 | 2 | 580 | 32·10 194 |
| D „ „ (Melbury House) | Mr. R. Rintoul | 5 | 1 | 6 | 500 | 31·66 158 |

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 Sea Level | 1908 | |
| | | in. | ft. in. | feet. | inches. | |
| DORSETSHIRE—(con.) | | | | | | |
| D Chedington Court | Sir Henry Peto | 5 | 1 0 | 605 | 32·53 | 168 |
| D Wimborne (Horton Vicarage) ... | Rev. G. Wellington ... | 5 | 1 0 | 133 † | 24·27 | 165 |
| D Leigh Vicarage | Dorset Field Club | ... | ... | 250 ? | 29·44 | 163 |
| D Holwell (Westrow) | Mr. H. Caines..... | 5 | 1 0 | 252 | 26·89 | 152 |
| D Wimborne St. Giles (St. Giles Ho.) | Mr. W. E. Axford..... | 8 | 1 0 | 165 | 27·02 | 145 |
| D Iwerne Courtney (Shroton) | Admiral R. Stopford ... | 5 | 1 2 | 200 † | 24·99 | 135 |
| D Sturminster Newton (Riverside). | A. R. Hallett, Esq. ... | 5 | 5 0 | 200 | 24·31 | 140 |
| D " " Rectory ... | Rev. J. C. Mansel-Pleydell ... | 5 | 2 7 | 180 † | 24·91 | 153 |
| D Sherborne Castle | Mr. T. Turton | 5 | 1 0 | 195 † | 26·11 | 186 |
| D Shaftesbury | Rev. F. Ehlers..... | 5 | 1 2 | 722 | 22·73 | 171 |
| D Buckhorn Weston Rectory | Rev. W. Hughes D'Aeth | 5 | 1 0 | 285 | 19·30 | 171 |
| D Gillingham | S. H. Stephens, Esq.... | 5 | 1 2 | 244 † | 25·00 | 163 |
| D " (Milton-on-Stour) ... | L. B. Matthews, Esq.... | 8 | 1 2 | 250 | 24·82 | 146 |
| SOUTH DEVON. | | | | | | |
| D Salcombe (Sandhills)..... | W. H. Pike, Esq. | 5 | 1 0 | 118 | 29·66 | 186 |
| § " | Royal Meteorological Soc | 5 | 1 0 | 137 | 32·88 | 184 |
| South Huish | W. Balkwill, Esq..... | 5 | 5 6 | 68 † | 32·73 | ... |
| D Kingsbridge (Collapit Creek) ... | Ashley A. Froude, Esq. C.M.G. | 5 | 1 6 | 51 † | 30·53 | 191 |
| D " (Westcombe) | T. W. Latham, Esq.... | 5 | 1 0 | 100 | 35·97 | 181 |
| D Start Bay (Slapton) | Horace G. Morgan, Esq. | 5 | 1 0 | 130 | 35·30 | 186 |
| D Revelstoke (Membland) | Mr. G. Baker..... | 5 | 1 0 | 180 † | 33·63 | 142 |
| D Dartmouth (Stoke Fleming)..... | C. F. Selby, Esq. | 5 | 0 9 | 356 † | 32·44 | 187 |
| D " (Redlap House) | L. Karlake, Esq. | 5 | 1 1 | 220 † | 29·36 | 203 |
| D East Allington (Fallapit) . | W. H. Tucker, Esq. ... | 5 | 1 0 | 350 | 39·90 | 169 |
| D Ermington (Strode) | H. Gore Hawker, Esq. | 5 | 1 0 | 125 B | 32·86 | 172 |
| D " (Thornham) | C. S. Pearse, Esq. | 5 | 1 3 | 71 † | 37·51 | 181 |
| † Plymouth (The Hoe)..... | Meteorological Office ... | 8 | 1 0 | 116 † | 31·00 | 189 |
| D " (Drake's Reservoir)... | F. Howarth, Esq., C.E. | 5 | 1 0 | 149 † | 33·42 | 177 |
| D Devonport (Rowdens Res.) | F. W. Lillicrap, Esq., C.E. | 5 | 1 0 | 201 † | 29·65 | 175 |
| D Brixham (Lindthorpe) | T. Lakeman, Esq..... | 5 | 7 0 | 120 | 30·02 | 174 |
| D Ivybridge (Langham Hill) | Miss Glanville | 5 | 1 0 | 400 † | 41·56 | 180 |
| D South Brent (Great Aish)..... | Miss Kingwell | 5 | 1 0 | 500 † | 54·61 | 191 |
| D Totnes (North Gate House) | Horace F. Lovejoy, Esq. | 8 | 1 0 | ... | 35·36 | 163 |
| D " (Berry Pomeroy) | C. Barran, Esq. | 5 | 1 0 | 185 † | 33·15 | 160 |
| D Bere Ferrers Rectory..... | Rev. F. T. W. Wintle. | 5 | 1 0 | 100 | 37·35 | 184 |
| D Bickley (Roborough Reservoir).. | F. Howarth, Esq., C.E. | 5 | 1 0 | 548 † | 37·69 | 204 |
| D Lee Moor Clay Works | T. Martin, Esq. | 8 | 1 6 | 950 | 50·70 | ... |
| D Torquay (Cockington Court) ... | Roger C. Mallock, Esq. | 5 | 1 0 | 180 | 32·69 | 163 |
| § " (Princess Gardens) | F. March, Esq. | 5 | 1 0 | 12 | 25·44 | 173 |
| D " (Cary Green) | " " | 5 | 1 0 | 12 | 25·24 | 173 |
| D Kingskerswell (Edginswell) | Capt. H. Langford Brown | 8 | 1 2 | 150 † | 30·10 | 161 |
| D Totnes (Broadhempston) | Charles Mole, Esq..... | 5 | 1 0 | 135 † | 34·14 | 180 |
| D Sheepstor | M. F. Howarth, Esq., C.E. | 5 | 1 0 | 1024 † | 44·98 | ... |
| D " (Red Stone) | " " " | 5 | 1 0 | 763 † | 47·82 | 220 |
| D " (Burrator) | " " " | 5 | 1 0 | 755 | 48·76 | 221 |
| D " (Head Weir)..... | " " " | 5 | 1 0 | 720 | 48·57 | 220 |

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with 01 or more recorded. |
|---------------------------------------|----------------------------|-------------|---------------------|------------------------|------------------------|--------------------------------|
| | | Diameter | Height Above Ground | Height Above Sea Level | | |
| | | in. | ft. in. | feet. | inches. | |
| SOUTH DEVON—(con.) | | | | | | |
| D Dartmoor (Lowery) | F.W.Lillicrap, Esq., C.E. | 5 | 1 0 | 890 T | 43·60 | 211 |
| D " (Deancombe Farm) ... | F. Howarth, Esq., C.E. | 5 | 1 0 | 830 T | 46·56 | 185 |
| D " (Leather Tor Farm)... | " " " | 5 | 1 0 | 910 T | 47·40 | 206 |
| " (Siwards Cross)..... M | " " " | 5 | 1 0 | 1200 T | 48·88 | ... |
| " (Cramber Tor) M | " " " | 5 | 1 0 | 1435 T | 43·19 | ... |
| Harrahbridge | Roy. Meteorological Soc. | ... | ... | 750 | 48·46 | 203 |
| D Kingskerswell (South Hill) | E. A. Foster, Esq. ... | 5 | 1 0 | 270 T | 26·10 | 166 |
| D Abbotskerswell (Court Grange).. | Mrs. Marcus Hare | 5 | 1 1 | 150 B | 31·72 | 160 |
| D Ashburton (Holne Vicarage) ... | Rev. J. Gill..... | 5 | 1 6 | 650 B | 49·35 | 198 |
| D " (Dolbear)..... | Maj. W.W.Battiscombe | 5 | 1 0 | 300 T | 38·83 | 184 |
| D§ " (Druid House)..... | J. S. Amery, Esq. | 5 | 1 0 | 584 T | 42·08 | 197 |
| D Newton Abbot (The Chestnuts).. | E. D. Wylie, Esq..... | 5 | 0 6 | 100 T | 26·94 | 159 |
| D Teignmouth (Woodlands) | W. B. Harris, Esq. ... | 8 | 1 2 | 98 | 24·14 | 159 |
| D " (Den Gardens) | Mr. G. Rossiter | 5 | 1 0 | 20 T | 25·12 | 149 |
| D " (Bonnicliff) | Capt. J. Horner..... | 5 | 1 0 | 260 T | 24·22 | 174 |
| § " (Benton) | W. C. Lake, Esq., M.D. | 5 | 1 0 | 320 | 22·58 | 176 |
| D§ Tavistock (Statsford, Whitechurch) | E. E. Glyde, Esq. | 5 | 1 0 | 594 T | 43·76 | 209 |
| D " (Public Library) | Mr. J. Quick | 8 | 20 0 | 283 T | 35·41 | 205 |
| D Princetown (Huccaby House) ... | R. Burnard, Esq. | 5 | 0 11 | 900 T | 45·52 | 187 |
| † " | Mr. W. Lee | 8 | 1 6 | 1390 T | 69·50 | ... |
| § " (H.M. Prison)..... | Royal Meteorological Soc | 5 | 1 0 | 1360 | 67·66 | 199 |
| Dartmoor (Leeden Tor)..... M | F. Howarth, Esq., C.E. | 5 | 1 0 | 1270 T | 38·59 | ... |
| " (N. Hessary Tor) No. 1 | " " " | 5 | 1 0 | 1625 T | 46·25 | ... |
| " " " " No. 2 | " " " | 5 | 1 0 | 1502 T | 47·17 | ... |
| † " (Cowsic Valley)..... | F.W.Lillicrap, Esq., C.E. | 8 | 1 6 | 1352 T | 54·51 | ... |
| † " (Black Dunghill) No.5 | " " " | 8 | 1 0 | 1590 T | 43·75 | ... |
| † " (Beardown Tor) No.3 | " " " | 8 | 1 0 | 1550 T | 38·14 | ... |
| † " (White Tor) No.1 | " " " | 8 | 1 0 | 1640 T | 41·62 | ... |
| † " (Devil's Tor)..... No.2 | " " " | 8 | 1 0 | 1785 T | 41·87 | ... |
| † " (Cowsic Head) ... No.4 | " " " | 8 | 1 0 | 1580 T | 58·20 | ... |
| Marytavy Rectory..... | Rev. Irvine K. Anderson | 8 | 1 0 | 560 T | 43·00 | ... |
| D Dawlish (Blyth)..... | Commander Plenderleath, RN | 5 | 1 0 | 44 T | 25·38 | 189 |
| D " (The Lawn)..... | S.F.C. Churchward, Esq | 5 | 1 0 | 18 T | 22·97 | 170 |
| " (Thorns Reservoir)..... | " " " | 5 | 1 0 | 550 T | 27·88 | ... |
| " (Burrows Reservoir) ... | " " " | 5 | 1 0 | 420 T | 24·28 | ... |
| D Chudleigh (Ideford Rectory) ... | Rev. G. J. Ford..... | 4 | 1 0 | 300 T | 27·37 | 179 |
| D Bovey Tracey (Colehays) | Mr. G. Heath..... | 5 | 1 0 | 400 | 39·89 | 168 |
| D " " (Wolleigh)..... | H.T.Ferguson, Esq. C.E. | 5 | 1 2 | 320 T | 28·16 | 187 |
| Milton Abbot (Endsleigh)..... | Mr. F. Yole | 5 | 1 0 | 180 T | 37·45 | ... |
| D Lifton (Kelly House)..... | Rev. Maitland Kelly... | 8 | 2 6 | 462 T | 34·83 | 185 |
| D Coryton Rectory | Rev. H. N. Fowler ... | 5 | 1 0 | 400 | 29·91 | 202 |
| D Starcross (Cofton Vicarage) | Rev. C. F. Benthall ... | 5 | 1 9 | 60 | 21·99 | 151 |
| D Exmouth (Nidderdale) | Mrs. Herbert Stewart.. | 5 | 1 0 | 51 | 22·43 | 162 |
| D " (Manor Grounds) | S. Hutton, Esq., C.E... | 5 | 1 0 | 13 T | 22·92 | 163 |
| " (Filter Beds) | " " " | 8 | 8 6 | 195 | 24·69 | 161 |
| Chudleigh (Trusham) | Rev. Offley H. Cary ... | 5 | 0 6 | 322 T | 26·25 | 159 |
| Budleigh Salterton (Knowle Ho.) | Capt. Arthur Pepys ... | 5 | 1 0 | 200 | 22·90 | ... |
| " " (Squabmoor)..... | S. Hutton, Esq., C.E... | 5 | 1 0 | 267 | 25·22 | 180 |

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 Sea Level | 1908 | |
| | | in. | ft. | in. | Feet. | inches. | |
| SOUTH DEVON—(con.) | | | | | | | |
| East Budleigh (West Hill Lodge) | Mrs. H. J. Thurgood... | 5 | 3 | 0 | 150 N | 24·55 | 141 |
| " " (Otterton Vic.)... | Rev. H. Mackworth Drake | 5 | 1 | 0 | 80 | 25·92 | 157 |
| " " (Bicton)..... | Mr. J. Mayne..... | 5 | 1 | 0 | 90 | 27·08 | 160 |
| " " (" Common) | S. Hutton, Esq., C.E.... | 5 | 1 | 0 | 300 | 25·47 | ... |
| Kenton (Southtown House) | Major G. H. Courtenay | 8 | 2 | 6 | 56 N | 24·79 | 157 |
| Polapit Tamar [Launceston] ... | R. C. Coode, Esq. | 5 | 1 | 0 | 315 N | 32·78 | 192 |
| Moretonhampstead (Bullaton) ... | S.C.Chapman, Esq., C.E.. | 8 | 1 | 0 | 928 N | 33·68 | 218 |
| " " (Mardon) ... | " " " | 8 | 1 | 0 | 835 | 32·39 | 216 |
| " " (Kennick) ... | " " " | 8 | 1 | 0 | 836 N | 31·88 | 231 |
| " " (Laployd) ... | " " " | 5 | 1 | 6 | 1030 N | 26·37 | 210 |
| " " (Blackingstone) | " " " | 8 | 1 | 0 | 1158 N | 33·63 | 215 |
| " " Rectory..... | Rev. S. D. Dewey | 5 | 1 | 0 | 600 B | 31·15 | 237 |
| Chagford (Frenchbeare) | Robert Stark, Esq..... | 4 | 1 | 0 | 950 T | 49·64 | ... |
| " " (Dartmoor Sanatorium) | Dr. A. Scott-Smith ... | 5 | 1 | 3 | 750 T | 38·08 | 153 |
| Kenn (Chapel Court)..... | Rev. H. Cooper | 5 | 2 | 2 | 126 | 25·52 | 142 |
| § Sidmouth (Sidmount) | Miss C. Radford..... | 5 | 1 | 0 | 149 N | 28·19 | 187 |
| Seaton..... | Mrs. Pattinson | 5 | 0 | 10 | 25 | 28·02 | 169 |
| § Rousdon [Lyme Regis] | Hon. Lady Peek..... | 5 | 1 | 0 | 516 N | 30·04 | 179 |
| § " " " " " M | " " " " " " | 3 | 1 | 0 | 516 N | 28·97 | ... |
| Cleavelands [Lyme Regis] | Mr. J. F. Stobo | 5 | 1 | 11 | 465 N | 30·98 | 185 |
| Aylesbeare (Rosamondford) | A. T. Loram, Esq..... | 5 | 0 | 10 | 220 T | 24·86 | 161 |
| † Exeter (St. Thomas) | E. N. Snow, Esq. | 5 | 0 | 8 | 65 | 26·33 | ... |
| † " (Devon & Exeter Inst.)... | J. E. Coombes, Esq. ... | 5 | 13 | 7 | 155 N | 23·49 | 172 |
| † " (Elmfield House) | W.B.Heberden, Esq.CB | 5 | 4 | 0 | 100 T | 22·07 | 146 |
| Cheriton Bishop..... | Lt.-Col. E. C. Thwaites | 5 | 1 | 0 | 575 P | 24·76 | ... |
| † Broad Clyst (Brookhill) | W.T.Bayne, Esq. LL.D. | 5 | 1 | 0 | 80 | 23·15 | 178 |
| Ottery St. Mary (West Hill) ... | B. Stansbury, Esq..... | 5 | 1 | 6 | 340 T | 28·57 | 187 |
| " " " " " " | H. D. Badcock, Esq. ... | 5 | 4 | 0 | 170 B | 29·95 | 150 |
| Northleigh Rectory | Mrs. W. Champernowne | 5 | 0 | 6 | 335 | 33·05 | 180 |
| Kilminster (Haddon Corner) ... | A. Hitchcock, Esq..... | 5 | 1 | 0 | 400 T | 32·58 | 191 |
| Axminster (Lea Combe House).. | A. C. F. Luttrell, Esq.. | 5 | 2 | 0 | 180 | 28·00 | ... |
| Newton St. Cyres | Rev. J.A. Welsh Collins | 5 | 1 | 0 | 145 T | 26·85 | 204 |
| Upton Pyne (The Parsonage) ... | Rev. A. Hillyard | 5 | 1 | 0 | 213 T | 24·72 | 158 |
| † Brampford Speke Station | Mr. A. Tucker | 5 | 1 | 0 | 83 | 21·29 | 144 |
| § Silverton (Killerton) | (R) Royal Meteorological Soc | 10 | 2 | 0 | 161 | 22·64 | 170 |
| Beaworthy (Halwill Manor)..... | W. J. Harris, Esq. ... | 5 | 1 | 0 | 535 | 38·29 | 214 |
| Crediton (Okefield) | Seymour F. Pope, Esq.. | 5 | 1 | 0 | 325 T | 24·91 | 192 |
| " " (Stockleigh Pomeroy)... | Rev. T. H. Philpott ... | 8 | 1 | 2 | 340 T | 26·34 | 191 |
| Honiton (Combe Raleigh)..... | Lt.-Col. M. James | 5 | 2 | 4 | 500 T | 31·59 | 198 |
| Chardstock Vicarage..... | Rev. A. Lewis | 5 | 0 | 8 | 333 | 30·89 | 177 |
| § Cullompton | M. T. Foster, Esq..... | 5 | 1 | 0 | 202 T | 27·48 | 197 |
| Dunkeswell Abbey Vicarage ... | Rev. W. P. Roberts ... | 5 | 1 | 6 | 800 P | 32·74 | 187 |
| † Tiverton (Broomhill) | Mrs. Dickinson | 5 | 1 | 0 | 380 | 28·27 | 181 |
| † " (Highfield)..... | Maj.-Gen.G.W.Hanson | 5 | 1 | 10 | 450 T | 35·73 | 224 |
| " " (St. Peter Street) | Miss Gill | 5 | 6 | 0 | 270 B | 28·76 | 204 |
| " " (Blundell's School) ... | E. G. Peirce, Esq. | 5 | 6 | 3 | 265 | 28·29 | 199 |
| Halberton | Capt. G. Izat, R.N. ... | 5 | 1 | 0 | 240 T | 28·62 | 162 |
| Uffculme (Bullmoor)..... | Miss M. E. Gowring ... | 5 | 1 | 0 | 280 | 28·15 | 206 |

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 Sea Level | 1908 | |
| | | in. | ft. in. | feet. | inches. | |
| SOUTH DEVON—(con.) | | | | | | |
| D Bampton (Huntsham Court) ... | H. Acland Troyte, Esq.. | 8 | 1 0 | 640 T | 37·03 | 171 |
| D „ (Wonham) | Mrs. J. R. Holland ... | 5 | 1 0 | 530 | 34·84 | 175 |
| NORTH DEVON. | | | | | | |
| D Okehampton (Oaklands) | Maj.-Gen. Holley | 5 | 1 0 | 500 T | 37·21 | 167 |
| D Spreyton Vicarage..... | Rev. H. P. Knapton ... | 5 | 1 5 | 735 | 25·83 | 216 |
| D Holsworthy (Dunsland) | W. Clifton Mogg, Esq.. | 5 | 1 6 | 495 T | 37·80 | 200 |
| D Petrockstow (HeantonSatchville) | Mr. A. Eames | 5 | 1 0 | 332 T | 33·27 | 186 |
| Dolton (Hilliers) | A. Smythies, Esq..... | 5 | 1 3 | 380 T | 30·53 | 156 |
| D Torrington (Enfield) | G. M. Doe, Esq..... | 5 | 1 0 | 336 T | 29·96 | 196 |
| D „ (Little Silver)..... | L. L. Lloyd, Esq. | 5 | 1 0 | 395 T | 32·63 | 206 |
| D Parkham (Melbury Moor)..... | Baldwin Latham EsqCE | 5 | 1 0 | 623 T | 38·72 | 245 |
| D „ „ Reservoir)... | „ „ „ „ | 5 | 1 0 | 516 T | 41·12 | 240 |
| D Hartland Abbey..... | Mr. G. Sleep | 5 | 1 6 | 222 T | 28·83 | 159 |
| Alverdiscott (The Firs)..... | F. A. Trevan, Esq. ... | 5 | 2 6 | 330 T | 29·38 | 172 |
| D Warkleigh Rectory | Rev. J. H. Thompson... | 5 | 1 0 | 440 B | 32·24 | 208 |
| D Bideford (Gammaton W. W.)... | Baldwin Latham EsqCE | 5 | 1 0 | 335 T | 27·86 | 162 |
| D „ (Webbery) | H. M. Boyd, Esq. | 5 | 1 10 | 350 T | 30·38 | 194 |
| D „ (Rectory) | Rev. T. Newton Leeke. | 5 | 1 2 | 150 T | 29·60 | 183 |
| D „ (Beechcroft) | A. H. Hobhouse, Esq... | 2 | 1 0 | 120 T | 28·75 | 198 |
| D „ (Northam Road)..... | Mr. W. Littlejohns ... | 5 | 0 6 | 20 | 27·20 | 158 |
| D „ (Horwood House) | Rev. J. Dene | 5 | 1 0 | 288 T | 25·62 | 190 |
| D East Anstey | Miss Mary Soames..... | 5 | 1 0 | 740 T | 40·07 | 187 |
| D Molland | S. J. Case, Esq..... | 5 | 1 9 | 674 T | 43·68 | 218 |
| D Northam Vicarage..... | Rev Preb Dimond-Churchward | 5 | 1 3 | 173 T | 26·74 | 175 |
| D Westward Ho! (Bellevue) | A. H. Boyd, Esq. | 8 | 1 0 | 200 T | 24·75 | 189 |
| D Instow | Miss Lock | 5 | 1 0 | 100 B | 23·30 | 162 |
| D§ South Molton (Castle Hill School) | W. H. Reeve, Esq..... | 8 | 1 0 | 363 T | 35·88 | 221 |
| D „ „ „ „ „ Gardens) | T. Wainwright, Esq.... | 12 | 3 6 | 317 | 33·28 | 182 |
| D West Buckland (County School) | G. C. Fry, Esq. | 5 | 1 6 | 651 T | 35·76 | 196 |
| Barnstaple (Newport) | T. Wainwright, Esq.... | 5 | 1 0 | 138 | 28·09 | 199 |
| D† „ (N.Devon Athenæum) | „ „ „ „ | 8 | 1 0 | 25 T | 28·35 | 202 |
| D „ (Pilton)..... | „ „ „ „ | 5 | 1 0 | 83 T | 27·93 | 177 |
| Stoke Rivers | „ „ „ „ | 5 | 1 0 | 767 | 38·69 | 185 |
| †Braunton (Preston Ho., Saunton) | Miss Durham | 5 | 0 8 | 120 B | 29·14 | 159 |
| D§Arlington Court | No. 1 Miss Chichester | 5 | 1 0 | 613 B | 45·49 | 221 |
| D „ „ „ „ „ No. 2 | „ „ „ „ | 5 | 1 0 | 613 B | 44·45 | 224 |
| Challacombe | T. Wainwright, Esq.... | 5 | 1 2 | 825 | 55·63 | 203 |
| D§Woolacombe | Miss Chichester | 5 | 1 0 | 60 T | 24·77 | 185 |
| Parracombe | Rev. J. F. Chanter ... | 5 | 1 0 | 795 T | 42·38 | 185 |
| Ilfracombe (Reservoir) | T. Wainwright, Esq.... | 5 | 1 0 | 377 | 39·51 | 226 |
| § „ (Hotel)..... | Royal Meteorological Soc | 5 | 1 0 | 24 | 31·29 | 202 |
| D Martinhoe Rectory..... | Rev. R. W. Oldham ... | 5 | 2 3 | 808 | 34·07 | 194 |
| Lynton (Lee Abbey) | C. F. Bailey, Esq. | 5 | 0 6 | 320 T | 30·74 | ... |
| D Lynmouth (Gwynallt) | A. L. Ford, Esq. | 8 | 0 8 | 284 T | 34·36 | 181 |
| D „ (Rock House) | T. H. Mead-Briggs, Esq. | 5 | 0 11 | 22 T | 31·66 | 190 |

Amc.
A

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 Sea Level | 1908 | |
| | | in. | ft. in. | feet. | inches. | |
| -CORNWALL. | | | | | | |
| Lizard | A. P. Jenkin, Esq..... | 5 | 1 0 | 244 A | 25·49 | ... |
| Mullion | R. Thomas, Esq. | 5 | 1 0 | 200 | 29·55 | 162 |
| St. Keverne (Lanarth) | P. D. Williams, Esq.. | 5 | 0 10 | 290 T | 38·43 | 201 |
| d " " (Rosuick Cottage)... .. | G. W. Jevons, Esq. ... | 5 | 1 0 | 250 T | 35·57 | 233 |
| Bosahan | Cornwall County Council | ... | ... | 240 | 25·29 | 163 |
| Helston (Tenderah) | J. Walker Tyacke, Esq. | 5 | 1 6 | 210 T | 35·43 | 189 |
| d† Penzance (Morrab Garden) | C. H. Benn, Esq. | 5 | 1 0 | 55 | 37·93 | 207 |
| " (Rosehill) .....(R) | David Howell, Esq. ... | 10 | 3 0 | 212 T | 33·32 | 189 |
| d† " (St. Clare) | Rev. Preb. Hedgeland.. | 5 | 1 0 | 213 T | 39·45 | 204 |
| † " (Trengwainton) | T. Robins Bolitho, Esq. | 10 | 1 0 | 400 T | 39·26 | 157 |
| Marazion | T. W. Field, Esq. | 5 | 2 0 | 30 | 35·17 | 180 |
| d§ Falmouth (New Observatory) (R) | E. Kitto, Esq. | 11 | 2 0 | 169 T | 37·59 | 206 |
| § " { " " " } | J. S. Spry, "Esq..... | 8 | 2 0 | 169 T | 37·61 | 197 |
| " { " " " Place} | Mr. J. Simmons..... | 5 | 1 0 | 12 | 30·12 | 165 |
| d " (Carclew) | Priestley Hogbin, Esq.. | 5 | 0 9 | ... | 37·25 | 143 |
| d Penryn (Enys) | Cornwall County Council | 5 | 1 0 | 100 T | 38·03 | 169 |
| Phillack Rectory | 5 | 1 0 | 70 A | 28·42 | 159 | |
| St. Ives | 5 | 4 0 | 60 A | 32·86 | 174 | |
| d Redruth (Trevince) | E. B. Beauchamp, Esq. | 8 | 0 8 | 240 T | 38·39 | 203 |
| d " (Tolvean)..... | A. Lanyon, Esq. | 5 | 0 9 | 365 | 37·47 | 197 |
| d " (Trewirgie) | A. P. Jenkin, Esq..... | 5 | 1 0 | 399 A | 38·21 | 229 |
| d " (Tehidy Park)..... | Mr. A. Mitchell..... | 8 | 1 1 | 287 A | 35·52 | 199 |
| d Truro (Killiow) | J. C. Daubuz, Esq..... | 5 | 1 0 | 230 T | 34·04 | 182 |
| " (Royal Institution)..... | Cornwall County Council | 5 | 43 0 | 40 A | 34·51 | 199 |
| d " (W.W., Lower Tregurrow) | W. J. Lean, Esq. | 5 | 9 0 | 71 A | 35·19 | 166 |
| Grampound Road (Creed Rectory) | Rev. G. T. C. Pearce ... | 5 | 1 0 | 130 T | 35·65 | 210 |
| d Probus (Lamellyn)..... | H. Tresawna, Esq..... | 5 | 0 6 | 230 | 32·74 | 151 |
| St. Agnes | W. Whitworth, Esq.... | 5 | 4 6 | 318 A | 27·86 | 190 |
| d Talland (Polperro)..... | H. E. Butler, Esq..... | 5 | 1 0 | 120 | 34·62 | 197 |
| d† Fowey (Torfrey)..... | W. G. Mills, Esq..... | 5 | 0 6 | 300 | 35·72 | 164 |
| d† St. Austell (Trevarna) | W. M. Coode, Esq. ... | 5 | 1 0 | 300 T | 36·99 | 205 |
| d " " " " Snowdon | " " " " " " " " " | 5 | 1 0 | 300 T | 36·83 | 199 |
| d† " " (Trevarthian) | Arthur Coode, Esq. ... | 5 | 1 0 | 310 T | 38·82 | 195 |
| d Empacombe [Devonport] | J. Sandercock, Esq. ... | 5 | 1 0 | 20 T | 31·40 | 192 |
| d Cremyll [Devonport]..... | W. Wonnacott, Esq.... | 5 | 10 0 | 25 | 31·76 | 217 |
| d St. Germans (Trethill) | Lt.-Col. J. D.A.Roberts | 5 | 2 0 | 200 B | 31·70 | 158 |
| d Looe (Morval)..... | Miss Florence Tremayne | 5 | 1 0 | 150 T | 38·97 | 161 |
| " (Bray St. Germans) | Mrs. George Sneyd ... | 5 | 1 0 | 450 T | 35·53 | 199 |
| d† Lostwithiel (Lanwithan) | Miss Foster..... | 5 | 1 0 | 80 | 36·93 | 169 |
| Newquay (Reservoir) | Dr. C. C. Vigurs | 5 | 1 0 | 214 | 25·87 | ... |
| d " " " " " " " " " | " " " " " " " " " | 5 | 1 0 | 100 | 24·50 | 177 |
| d Roche (Glencoe)..... | S. Browne, Esq..... | 5 | 0 9 | 602 T | 36·34 | 214 |
| d† Liskeard (Trevillis) | L. C. Foster, Esq..... | 5 | 1 0 | 320 A | 37·81 | 195 |
| d " (Dean Terrace) | S. W. Jenkin, Esq., C.E. | 5 | 1 1 | 400 A | 41·14 | 209 |
| d Withiel Rectory | Rev. W. S. Cruddas ... | 5 | 0 11 | 360 | 37·76 | 206 |
| d St. Wenn (Trewollack)..... | W.H.L. Shadwell, Esq. | 8 | 1 0 | 251 T | 35·59 | 211 |
| Saltash (Pentillie Castle) | Cornwall County Council | 5 | 2 4 | 150 B | 42·95 | 168 |

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 | 1908 | |
| | | in. | ft. | in. | feet. | inches. | |
| CORNWALL—(con.) | | | | | | | |
| d St. Mellion Rectory | Rev. F. T. Wintle | 5 | 1 | 0 | 400 | 37.10 | 199 |
| d Bodmin (Polgwin) | H. D. Foster, Esq. | 5 | 1 | 0 | 280 | 38.39 | 205 |
| d „ (Castle Hill) | Rev. Prebendary Every .. | 5 | 0 | 9 | 480 T | 39.11 | 224 |
| Liskeard (St. Cleer Down) | S. W. Jenkin, Esq., C.E. .. | 5 | 1 | 1 | 620 T | 36.65 | ... |
| d Callington (Pencrebar) | Miss A. H. Horndon ... | 5 | 1 | 9 | 450 T | 35.20 | 178 |
| d „ (Mount Lodge) | G. Brown, Esq. | 8 | 1 | 0 | 400 | 40.19 | 193 |
| d St. Mabyn (Pencarrow) | Mr. A. C. Bartlett. | 5 | 5 | 9 | ... | 32.99 | 212 |
| Callington (Drakewalls Place) ... | Mr. C. A. Wadge | 5 | 3 | 0 | 650 T | 37.49 | 174 |
| d Launceston (Landue) | Miss S. E. Tregoning ... | 5 | 0 | 11 | 225 T | 34.22 | 198 |
| d Altarnon Vicarage | Rev. A. H. Malan | 5 | 1 | 0 | 620 T | 46.41 | 207 |
| d Launceston (Tamar Terrace) ... | Captain L. Ching, R.N. ... | 5 | 0 | 10 | 446 | 32.75 | 184 |
| Tintagel (K. Arthur's Castle Hotel) | Cornwall County Council .. | 5 | 1 | 0 | 245 | 24.98 | 166 |
| Egloskerry (Tregeare) | E. G. B. Lethbridge, Esq. .. | 5 | 1 | 0 | 575 | 37.12 | ... |
| North Tamerton (Ogbeare) | Mr. J. S. Bray | 5 | 5 | 0 | 460 T | 28.84 | 174 |
| d Stratton (Poughill) | Miss Field | 5 | 1 | 0 | 200 B | 31.11 | 211 |
| d Morwenstow Vicarage | Rev. H. Lynne Jones ... | 5 | 0 | 10 | 331 T | 30.90 | 217 |
| SOUTH SOMERSET. | | | | | | | |
| d Chard (Tatworth Vicarage) | Rev. H. Stuart King ... | 5 | 1 | 3 | 347 T | 31.48 | 172 |
| d „ Vicarage | Rev. Preb. Walter Farrer .. | 5 | 1 | 0 | 380 T | 33.08 | 199 |
| Cricket St. Thomas (Cricket Ho.) | Mr. S. Lyon | 5 | 1 | 0 | 444 | 32.50 | 168 |
| d Crewkerne (Bincombe House) ... | Miss Sparks | 5 | 1 | 2 | 294 T | 27.49 | 182 |
| d „ (Merefield House) ... | J. Tompsett, Esq. | 8 | 14 | 5 | 240 T | 30.01 | 172 |
| d Ilminster (Laurel Bank) | W. Beckwith, Esq. | 5 | 1 | 0 | 180 T | 23.97 | 182 |
| d „ (Whitelackington Ho.) | S. Creed, Esq. | 5 | 3 | 0 | 200 T | 25.34 | 172 |
| d Yeovil (Gas Works) | E. Howell, Esq. | 5 | 22 | 0 | 122 T | 20.14 | 147 |
| d „ (Sew. Wks., Pen Mill) ... | Dr. H. Page | 5 | 1 | 0 | 101 T | 22.82 | 205 |
| d „ (Kingston) | J. H. Burt, Esq. | 5 | 6 | 0 | 186 T | 19.69 | 165 |
| d South Petherton (Yeabridge) ... | Miss E. F. Blake | 8 | 0 | 9 | 100 T | 22.20 | 175 |
| Wellington (Old Way House) ... | T. Fox, Esq. | 5 | 1 | 5 | 600 | 26.29 | 186 |
| d Stoke-under-Ham | Miss Gillett | 8 | 1 | 0 | ... | 24.10 | 174 |
| d Tintinhull (Manor House) | Rev. Dr. Price | 5 | 0 | 10 | 145 | 23.01 | 139 |
| Henstridge | Mr. G. H. Hacker | 5 | 1 | 1 | 270 T | 26.56 | 158 |
| d Dulverton (Exebridge Fishery) .. | T. F. Tracy, Esq. | 5 | 1 | 0 | 400 | 35.68 | 181 |
| Taunton (Blagdon Reservoir) ... | H. T. Coles, Esq. | 8 | 1 | 6 | 590 T | 26.34 | ... |
| d „ (Leigh Court) | A. Eastwood, Esq. | 8 | 1 | 0 | 350 T | 26.14 | 177 |
| d „ (Ashleigh) | W. A. Gunner, Esq. ... | 5 | 1 | 0 | 78 B | 22.28 | 172 |
| d „ („) | „ „ „ „ „ „ „ „ „ „ | 5 | 12 | 6 | 78 B | 21.19 | 159 |
| d „ (Linden Grove) | H. Le B. Gunner, Esq. ... | 5 | 1 | 0 | 70 B | 22.28 | 179 |
| Rimpton | H. H. G. Andrews, Esq. ... | 8 | 3 | 0 | 100 | 23.03 | ... |
| Temple Combe Rectory | Rev. J. C. Fox | 5 | 0 | 6 | 215 | 27.58 | 203 |
| d Sutton Montis | Rev. W. J. Beck | 5 | 8 | 2 | ... | 22.89 | 172 |
| d Milverton (Spring Grove) | C. Roberts Gawen, Esq. ... | 5 | 0 | 8 | 500 T | 30.54 | 194 |
| d Wiveliscombe (The Croft) | W. A. Buller, Esq. | 5 | 1 | 0 | 409 T | 32.15 | 173 |
| Langport (Huish Episcopi) | W. Kelway, Esq. | 8 | 1 | 1 | 30 P | 21.08 | ... |
| d „ (The Grange) | Dr. H. Page | 5 | 1 | 0 | 50 T | 23.60 | 211 |
| d Milverton (The Mount, Halse) ... | Miss J. E. Smith | 5 | 1 | 2 | 254 B | 29.47 | 185 |

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 Sea Level | 1908 | |
| | | in. | ft. | in. | feet. | inches. | |
| SOUTH SOMERSET—(con.) | | | | | | | |
| D Maperton Rectory | Rev. D. E. Norton..... | 5 | 1 | 0 | 367 ∇ | 27.73 | 204 |
| D North Cadbury Rectory | Rev. H. A. Boys | 8 | 1 | 3 | 256 ∇ | 23.52 | 181 |
| " " (Woolston) | " " " | ... | ... | ... | ... | 25.01 | 165 |
| Wincanton (Holbrook) | Mrs. Angerstein..... | 5 | 1 | 6 | 450 ∇ | 26.35 | ... |
| Somerton (Kingweston) | Rev. G. de Y. Aldridge | 5 | 2 | 6 | 200 ∇ | 23.98 | 191 |
| Cothelstone House..... | C. E. J. Esdaile, Esq...
E. C. Curtis, Esq. | 5 | 1 | 0 | 430 | 27.65 | 183 |
| D North Petherton (The Old Rectory) | ..... | 8 | 0 | 6 | 136 ∇ | 26.49 | 184 |
| D Hawkrigge (Liscombe) | Mr. E. W. Darby | 5 | 3 | 6 | 980 | 50.65 | 212 |
| Winsford | W. Dicker, Esq. | 5 | 1 | 2 | 685 | 41.77 | ... |
| Exford (North Ley) | Mr. F. G. Heal | 5 | 5 | 6 | 1000 | 37.82 | ... |
| D Simonsbath | Rev. H. F. Ramsay ... | 5 | 1 | 3 | 1080 ∇ | 61.30 | 208 |
| Bridgwater (Nurseries) | Mr. H. Corder | 5 | 0 | 6 | 30 ? | 23.58 | 166 |
| " (Ashford) | F. Parr, Esq., C.E. ... | 5 | 1 | 5 | 102 ∇ | 24.96 | 168 |
| D Cannington (Brymore) | H. H. P. Bouverie, Esq. | 5 | 1 | 6 | 65 ∇ | 24.24 | 159 |
| Williton (Aller Farm) | Mr. T. Hosegood | 5 | 3 | 6 | 190 | 26.59 | ... |
| D Quantockshead (St. Audries) ... | Mr. F. S. Hayne | 8 | 1 | 0 | 250 ∇ | 25.73 | 156 |
| D Holford (Woodlands House) ... | Miss I. L. Joseph | 5 | 1 | 0 | 391 ∇ | 27.28 | 168 |
| Stockland Bristol Manor House.. | Rev. H. A. Daniel..... | 5 | 1 | 0 | 65 | 25.67 | 138 |
| D Minehead (Mariansleigh) | T. F. Twist, Esq. | 5 | 1 | 0 | 45 ∇ | 25.34 | 164 |
| Porlock (Lynch Mead, Allerford) | J. Dyke Acland, Esq...
NORTH SOMERSET. | 5 | 1 | 3 | 100 ∇ | 26.16 | 166 |
| Castle Cary (Alford House) | Admiral P. F. Tillard... | 5 | 1 | 0 | 100 ? | 24.35 | ... |
| D Somerton (Butleigh Court) | R. Neville Grenville Esq. | 8 | 1 | 2 | 95 | 24.11 | 168 |
| D Bruton | H. Crowther, Esq..... | 5 | 1 | 0 | 310 | 26.13 | 191 |
| D " (King's School) | D. E. Norton, Esq..... | 5 | 1 | 2 | 200 | 27.15 | 191 |
| D Street (Hind Hayes)..... | Joseph Clark, Esq..... | 5 | 1 | 5 | 78 ∇ | 22.17 | 154 |
| D " | W. S. Clark, Esq. | 8 | 1 | 0 | 100 | 23.04 | 182 |
| D Edington..... | A. C. F. Luttrell, Esq.. | 5 | 2 | 6 | 90 ∇ | 24.09 | 160 |
| D Shepton Mallet (Pilton) | J. Dredge Allen, Esq...
Mrs. Swayne | 5 | 1 | 3 | 354 | 30.34 | 175 |
| D Glastonbury (Ynyswytryn) ..... | ..... | 5 | 1 | 8 | 245 ∇ | 23.39 | 201 |
| D Cranmore (Southill House) | S. Poyntz-Wright, Esq. | 5 | 1 | 0 | 634 ∇ | 34.24 | 196 |
| D Shepton Mallet (Charlton) | C. E. Burnell, Esq... .. | 5 | 1 | 0 | 481 ∇ | 34.12 | 182 |
| D " " (Field House) ... | F. H. Berryman, Esq.. | 5 | 1 | 0 | 500 | 33.99 | 175 |
| D " " (Grammar School) | William Aldridge, Esq. | 5 | 1 | 0 | 475 | 33.83 | 184 |
| D " " (Sewage Farm).. | W. Reader, Esq. | 5 | 0 | 8 | 310 | 34.01 | 181 |
| D Cranmore Hall | E. Barclay Whish, Esq. | 8 | 1 | 9 | 600 ∇ | 37.89 | 181 |
| Wells (Blue School) | E. J. Salter, Esq. | 8 | 1 | 3 | 125 ∇ | 29.64 | 174 |
| D " (The Deanery Gardens)... | Mr. A. King | 5 | 1 | 0 | 170 ∇ | 31.27 | 174 |
| D " (Woodbury House) | Sir J. A. Woolfryes, KCB | 5 | 0 | 9 | 216 ∇ | 33.43 | 199 |
| D " (Somerset & Bath Asylum) | Dr. W. E. Rutledge... .. | 5 | 1 | 0 | 300 | 25.20 | 160 |
| D " (Wookey Hole) | Messrs. W. S. Hodgkinson & Co. | 5 | 1 | 4 | 230 ? | 29.80 | 167 |
| Burnham (Chalbury) | H. A. Smith Spark, Esq. | 5 | 1 | 0 | 20 | 23.81 | ... |
| D " (Brent Knoll) | Miss FitzGerald..... | 5 | 2 | 0 | 26 ∇ | 28.19 | 209 |
| D Mells (Wadbury) | Mrs. Sykes | 5 | 1 | 0 | 390 ∇ | 29.06 | 157 |
| D Binegar (Gurneyslade) | Rev. P. F. Whiteside... | 5 | 1 | 0 | 588 ∇ | 39.08 | 181 |
| D Stratton-on-the-Fosse (Downside Abbey) | " " " | 8 | 1 | 0 | 600 ∇ | 34.60 | 187 |

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with .01 or more recorded. |
|--------------------------------------|---------------------------|-------------|----------------------|-----|------------------------|---------------------------------|
| | | Diameter | Height Above Ground. | | Height Above Sea Level | |
| | | in. | ft. | in. | feet. | inches. |
| NORTH SOMERSET—(con.) | | | | | | |
| D Frome (Orchardleigh) | Rev. W. A. Duckworth | 8 | 0 | 10 | 303 T | 25.51 163 |
| D „ (Beckington) | E. M. Nelson, Esq. ... | 8 | 1 | 3 | 270 T | 25.34 178 |
| D Chewton Mendip (The Priory)... | The Earl Waldegrave.. | 5 | 1 | 5 | 550 T | 37.86 200 |
| „ „ (Waldegrave Ho.) | J. Hansford Hill, Esq.. | 10 | 4 | 6 | 450 | 36.22 ... |
| Ston Easton | H. E. Hippisley, Esq.. | 5 | 3 | 0 | 480 T | 34.27 180 |
| E. Harptree (Sherborne Res., Litton) | J. A. McPherson, Esq. CE | 5 | 1 | 0 | 338 T | 33.59 160 |
| D „ „ (Harptree Court) ... | W. W. Kettlewell, Esq. | 5 | 1 | 0 | 346 T | 36.13 167 |
| „ „ „ (Hill) ... | J. A. McPherson, Esq. CE | 8 | 1 | 0 | 784 | 31.12 ... |
| Blagdon (Nordrach-on-Mendip).. | R. Thurnam, Esq., M.D. | 5 | 0 | 4 | 862 T | 36.95 158 |
| Camerton Court | Miss Jarrett | 5 | 1 | 0 | 340 T | 31.34 ... |
| D Temple Cloud | Dr. Theodore Martin... | 5 | 1 | 0 | 340 T | 33.13 196 |
| D High Littleton Vicarage | Rev. A. M. Foster | 5 | 1 | 0 | 442 T | 29.68 197 |
| D Winscombe (The Down) | J. Grubb, Esq. | 5 | 1 | 0 | 295 T | 30.16 199 |
| D „ (Wintrath) | F. A. Knight, Esq. | 5 | 1 | 0 | 300 T | 29.99 173 |
| D Hutton Rectory | Rev. W. F. Rose | 5 | 1 | 0 | 75 ? | 26.61 179 |
| D Banwell (Eversley) | Kenneth Anderson, Esq. | 5 | 1 | 6 | 50 T | 26.65 178 |
| Blagdon | J. A. McPherson, Esq. CE | 8 | 1 | 0 | 550 | 35.71 ... |
| „ „ „ | „ „ „ | 8 | 0 | 8 | 115 T | 28.62 180 |
| „ „ (Coombe Lodge) | „ „ „ | 8 | 1 | 0 | 388 T | 30.97 ... |
| Nempnett (West Town) | „ „ „ | 8 | 1 | 0 | 263 | 26.30 ... |
| D Clutton (Council School) | T. Pullen, Esq. | 5 | 1 | 6 | 420 T | 28.82 154 |
| D Pensford (Sutton Court) | Sir E. Strachey, Bt. M.P. | 8 | 1 | 0 | 280 | 30.73 185 |
| D Weston-spr.-Mare (Leycroft Ho.) | C. Brown, Esq. | 8 | 1 | 0 | 15 | 25.21 159 |
| § „ „ „ (Town Hall)... | Royal Meteorological Soc | 5 | 1 | 0 | 21 | 24.73 156 |
| D „ „ „ (Worle) | Dr. St. John Kemm ... | 5 | 1 | 0 | ... | 27.22 182 |
| Bath (Combe Hay Manor) | F. G. Smart, Esq. | 5 | 1 | 0 | ... | 31.66 198 |
| D „ (Crossways, Monkton Combe) | M. J. Lipscomb, Esq. ... | 5 | 1 | 0 | 180 | 28.78 138 |
| D Wrington (The Cottage) | Hubert C. Bristowe, Esq. | 5 | 1 | 0 | 100 | 25.30 153 |
| D „ (The Rectory) | Rev. G. M. Ashdown... | 5 | 5 | 0 | 68 | 27.20 157 |
| D „ (West Hay) | Miss Mary B. Harrison. | 5 | 2 | 0 | 100 T | 28.06 166 |
| Chew Magna | J. A. McPherson, Esq. CE | 5 | 1 | 4 | 180 T | 27.83 165 |
| Publow Vicarage | Rev. H. H. Tripp | 5 | 1 | 0 | 96 T | 26.35 159 |
| D § Bath (Henrietta Park) | Dr. W. H. Symons ... | 5 | 1 | 0 | 67 T | 24.13 168 |
| D „ (Statutory Hospital) | „ „ „ | 5 | 1 | 0 | 520 | 27.39 155 |
| D „ (Kingswood School) | „ „ „ | 5 | 1 | 0 | 620 T | 25.42 150 |
| D „ (Hampstead, Combe Park). | „ „ „ | 5 | 1 | 0 | 165 T | 24.29 150 |
| D „ (Somerset Place) | R. Lewis Lloyd, Esq. ... | 5 | 0 | 10 | 350 | 26.71 196 |
| D „ (Charlcombe) | J. Dent Young, Esq. C.E. | 8 | 2 | 0 | 325 T | 25.52 175 |
| D Batheaston | Col. Linley Blathwayt. | 5 | 1 | 0 | 166 T | 26.31 178 |
| „ „ „ M „ „ „ | „ „ „ | 5 | 1 | 0 | 166 T | 26.09 ... |
| D „ Reservoir | J. Dent Young Esq., C.E. | 6 | 2 | 0 | 248 T | 26.21 192 |
| Yatton (Chelvey) | J. A. McPherson, Esq. EC | 8 | 0 | 8 | 60 | 24.64 140 |
| Barrow Gurney Reservoir | „ „ „ | 5 | 1 | 6 | 300 T | 30.10 196 |
| D Keynsham (West View Road) ... | S. B. Froude, Esq. | 5 | 1 | 0 | 102 T | 25.06 162 |
| D Long Ashton Estate Office | H. B. Napier, Esq. ... | 8 | 1 | 0 | 134 T | 27.04 142 |
| D Clevedon (The Knoll) | Miss Woodward | 5 | 1 | 0 | 120 T | 26.28 147 |
| D „ (Water Works) | E. Button, Esq. | 5 | 0 | 9 | 28 T | 27.38 182 |
| Bristol (Coronation Road) | H. C. Martin, Esq. ... | 5 | 0 | 10 | 50 | 24.56 ... |

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 Sea Level | | 1908 |
| | | in. | ft. | in. | feet. | inches. | |
| NORTH SOMERSET—(con.) | | | | | | | |
| Wraxall (Boys' School)..... | Ebenezer Brown, Esq.. | 5 | 1 | 2 | ... | 25.95 | 168 |
| d Abbots Leigh | Sir Henry Miles, Bart. | 5 | 1 | 0 | 320 † | 27.29 | 159 |
| d† Failand House [Bristol] | Miss Agnes Fry | 5 | 1 | 0 | 385 † | 29.52 | 202 |
| Clifton (Oakfield Road)..... | J. A. McPherson, Esq. CE | 5 | 20 | 0 | 200 | 26.74 | 164 |

DIVISION VI.—WEST MIDLAND COUNTIES.

WEST GLOUCESTERSHIRE.

| | | | | | | | |
|---------------------------------------|---------------------------|----|----|----|-------|-------|-----|
| D Monkswood Reservoir [Bath] ... | J. Dent Young Esq., C.E. | 5 | 1 | 0 | 365 † | 26.12 | 202 |
| D Bristol Docks (Underfall Yard).. | W.W. Squire, Esq., C.E. | 8 | 19 | 6 | 45 † | 23.27 | 165 |
| „ (Telephone Avenue) | J.A. McPherson, Esq. CE | 5 | 50 | 0 | 80 | 26.13 | 159 |
| D Clifton (Harley Place) | Miss Hooper | 5 | 1 | 5 | 260 | 26.02 | 181 |
| D „ (Durdham Down) | Mrs. Dix | 6 | 1 | 6 | 310 | 27.39 | 188 |
| D „ (Pembroke Road) | R. F. Sturge, Esq. ... | 8 | 0 | 10 | 215 | 27.36 | 173 |
| D§ „ College | D. Rintoul, Esq. | 8 | 1 | 2 | 230 | 26.51 | 164 |
| D „ (Stoke Bishop) | H. L. P. Lowe, Esq. ... | 8 | 1 | 3 | 230 † | 28.69 | 172 |
| „ („ „ Pitch and Pay) | C. Thomas, Esq. | 5 | 1 | 3 | 264 B | 30.66 | ... |
| Westbury-on-Trym (Cote House) .. | Mrs. H. St. V. Ames... | 8 | 1 | 3 | 243 † | 26.65 | 167 |
| Pucklechurch | Rev. S. G. Gillum | 5 | 0 | 10 | 374 † | 25.55 | 203 |
| Avonmouth (Bristol Docks)..... | W.W. Squire, Esq., C.E. | 12 | 3 | 2 | 12 | 27.66 | ... |
| D Filton | F. W. Gayner, Esq. ... | 5 | 2 | 0 | 202 † | 24.04 | 165 |
| D Winterbourne (Kendleshire) ... | J. Marsh, Esq. | 5 | 1 | 0 | 170 † | 25.07 | 156 |
| D Frampton Cotterell (Park House) .. | H. H. Harding, Esq. ... | 5 | 1 | 0 | 158 † | 23.88 | 152 |
| D Chipping Sodbury (Stanshawes Ct) .. | R. N. Hooper, Esq. ... | 5 | 1 | 3 | 280 † | 26.74 | 160 |
| D „ (The Ridge) ... | Lt.-Col. P. Burges | 5 | 1 | 4 | 375 † | 25.03 | 163 |
| Almondsbury (Over Court, Field) .. | R. C. C. Lippincott, Esq. | 5 | 1 | 0 | 260 † | 26.29 | ... |
| D „ („ „ Park) | „ „ „ | 5 | 0 | 11 | 147 † | 30.26 | 197 |
| „ („ „ „) M | „ „ „ | 5 | 1 | 0 | 147 † | 29.10 | ... |
| D „ („ „ Garden) | „ „ „ | 8 | 1 | 0 | 137 † | 28.92 | 195 |
| Badminton (Lyegrove) | A. M. Miller, Esq. | 10 | 1 | 0 | 550 † | 29.46 | 152 |
| „ | Mr. W. Nash | 5 | 1 | 0 | 407 | 25.75 | 148 |
| D Wickwar Rectory | Rev. Canon R. J. Lyon | 5 | 1 | 0 | 260 † | 26.33 | 158 |
| Tortworth Court | The Earl of Ducie | 8 | 1 | 0 | 200 | 26.44 | 172 |
| „ School | E. A. Smith, Esq. | 5 | 2 | 0 | 264 | 26.53 | 150 |
| D Sedbury Park [Chepstow] | Sir W. H. Marling, Bart. | 8 | 1 | 0 | 150 † | 28.56 | 161 |
| Pen Moel [Chepstow] | Mrs. Price | 5 | 1 | 0 | 240 † | 32.45 | 203 |
| § Dursley (Woodmancote) | Meteorological Office ... | 5 | 1 | 0 | 257 | 25.45 | ... |
| Avening House | Maj. Hon. L. Byng ... | 8 | 1 | 3 | 350 ? | 25.81 | ... |
| D Berkeley Castle Gardens | Mr. R. Shore | 5 | 1 | 6 | 62 † | 25.30 | 156 |
| D „ (Sharpness Docks)..... | F. A. Jones, Esq., C.E. | 5 | 3 | 6 | 50 | 23.49 | 165 |
| D Chalford (Hyde House)..... | Piers F. Legh, Esq. ... | 5 | 1 | 6 | 527 † | 26.83 | 188 |
| Lydney | E. R. Case, Esq. | 8 | 5 | 0 | 20 † | 25.47 | ... |
| D „ (Clanna)..... | Captain W. B. Marling | 5 | 1 | 0 | 260 † | 30.22 | 169 |
| D Stroud (Stanley Park) | Sir W. H. Marling..... | 8 | 1 | 0 | 365 † | 24.63 | 153 |
| D „ (Upfield)..... | late Miss R. E. Stanton | 5 | 1 | 0 | 226 † | 23.60 | 192 |
| D Stonehouse (Wycliffe College)... | W. A. Sibly, Esq. | 5 | 1 | 0 | 125 | 22.54 | 173 |

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with ≥ 0.1 or more recorded. |
|---|-----------------------------|-------------|---------------------|------------------------|------------------------|--|
| | | Diameter | Height Above Ground | Height Above Sea Level | | |
| | | in. | ft. in. | feet. | inches. | |
| W. GLOUCESTERSHIRE—(con.) | | | | | | |
| Stonehouse (Parklands) ... No. 1 | W. Grey Robinson, Esq. | 8 | 2 6 | 103 \uparrow | 21.26 | 178 |
| " " " " ... No. 2 | " " " " | 5 | 2 6 | 103 | 21.50 | 174 |
| \mathcal{D} Whitminster | F. A. Jones, Esq., C.E. | 5 | 1 0 | 32 \nearrow | 22.89 | 166 |
| Haresfield Court | Mr. S. Pearce | 5 | 1 0 | 100 | 22.46 | 168 |
| \mathcal{D} Harescombe Grange | Miss H. Mary Hutton.. | 5 | 1 0 | 545 \nearrow | 23.76 | 219 |
| \S Forest of Dean (Whitemead Park) | C. O. Hanson, Esq. ... | 8 | 1 0 | 200 | 26.27 | ... |
| $\mathcal{D}\S$ " " " (Blakeney Hill Lo.) | " " " " ... | 8 | 1 0 | 500 | 24.15 | 148 |
| $\mathcal{D}\S$ " " " (Worcester Lodge) | " " " " ... | 8 | 0 11 | 700 | 24.05 | 141 |
| \S " " " (Braceland) | " " " " ... | 8 | 1 0 | 500 | 30.25 | ... |
| $\mathcal{D}\S$ " " " (Edgehills Lodge). | " " " " ... | 8 | 1 0 | 700 | 26.36 | 139 |
| $\mathcal{D}\S$ " " " (Ruardean Hill Lo.) | " " " " ... | 8 | 1 0 | 900 | 28.94 | 145 |
| \mathcal{D} Longney Vicarage | Rev. W. E. Stewart ... | 5 | 1 0 | 55 \uparrow | 21.87 | 173 |
| \mathcal{D} Westbury-on-Severn (Chaxhill). | Mrs. Grant | 5 | 3 0 | 122 \uparrow | 24.36 | 169 |
| Quedgeley House | Col. Curtis Hayward... | 5 | 1 0 | 65 \uparrow | 23.65 | 160 |
| \mathcal{D} Witcombe Reservoir | R. Read, Esq., C.E. ... | 8 | 3 0 | 297 \nearrow | 22.58 | 149 |
| Mitcheldean (Blaisdon) | A. L. Statham, Esq.... | 5 | 1 0 | 117 \nearrow | 21.53 | ... |
| \mathcal{D} Gloucester (Park Road) | G. Embrey, Esq. | 8 | 1 3 | 56 | 20.41 | 171 |
| \mathcal{D} " (Belgrave Road) | W. Piffe Brown, Esq... 5 | 5 | 1 0 | 52 \uparrow | 20.09 | 165 |
| " (Denmark Road) | Harley Butt, Esq. | 5 | 1 5 | 79 \uparrow | 20.50 | ... |
| \mathcal{D} " (Barnwood Vicarage). | Rev. F. H. Fowler | 5 | 1 0 | 80 \uparrow | 22.75 | 177 |
| \mathcal{D} " (Llanthony Lock) ... | E. D. Marten, Esq., C.E. | 5 | 1 2 | 39 \nearrow | 20.75 | 167 |
| \mathcal{D} " (Wotton Asylum) | Dr. E. F. Kough | 8 | 0 9 | 88 \nearrow | 20.46 | 141 |
| Dowdeswell Reservoir | J. S. Pickering, Esq., C.E. | 5 | 0 10 | 357 \uparrow | 22.46 | ... |
| \mathcal{D} Gloucester (Maisemore Lock) ... | E. D. Marten, Esq., C.E. | 5 | 1 1 | 39 \nearrow | 20.03 | 178 |
| \mathcal{D} Charlton Kings (The Grange) ... | Miss E. M. Heberden... | 5 | 0 9 | 300 | 22.46 | 156 |
| Tibberton Court | Mrs. W. E. Price | 5 | 1 0 | 109 | 22.25 | 141 |
| \mathcal{D} Cheltenham (Northfield) | J. S. Pickering, Esq. C.E. | 8 | 5 0 | 637 \nearrow | 18.63? | 170 |
| \mathcal{D} " (Hewletts Res.) ... | " " " " | 8 | 1 6 | 419 \nearrow | 20.48 | 170 |
| " (Sandford Mead) ... | " " " " | 5 | 2 6 | 210 \uparrow | 19.86 | ... |
| " (Kemerton Lodge)... | Rev. Percy Burd | 5 | 1 0 | 211 | 20.43 | 166 |
| \S " | Royal Meteorological Soc | 5 | 1 0 | 214 | 20.16 | 158 |
| \mathcal{D} " (Prestbury) | J. W. Guy, Esq. | 5 | 0 10 | ... | 21.58 | 189 |
| \mathcal{D} Winchcombe | Dr. J. Halliwell | 5 | 1 2 | 295 \uparrow | 24.70 | 175 |
| \mathcal{D} Bromsberrow Pumping Station... | W. Osborne Thorp Esq. C.E. | 5 | 1 0 | 181 \nearrow | 20.67 | 141 |
| \mathcal{D} Tewkesbury (Upper Lode) | E. D. Marten, Esq., C.E. | 5 | 1 0 | 41 \nearrow | 21.05 | 155 |
| " (Puckrup Hall) | Rev. P. F. Wigan | 5 | 0 10 | 105 ? | 17.99? | ... |
| Wormington Grange | R. E. S. Thomas, Esq.. | 8 | 0 10 | 200 | 23.65 | ... |
| EAST GLOUCESTERSHIRE. | | | | | | |
| \mathcal{D} Fairford (Kempsford) | A. T. Iles, Esq. | 5 | 1 0 | 250 ? | 23.62 | 172 |
| \mathcal{D} " (The Close) | W. Cobbett Arkell, Esq. | 5 | 1 9 | ... | 22.55 | 149 |
| \mathcal{D} " (Draycott) | C. W. Edmonds, Esq... 5 | 5 | 2 0 | 200 | 23.40 | 155 |
| " (The Croft House) | C. H. Bloxsome, Esq... 5 | 5 | 1 0 | 300 | 21.82 | ... |
| \mathcal{D} Lechlade (Claydon House) | T. T. S. Metcalfe, Esq.. 5 | 5 | 1 0 | 250 \nearrow | 22.18 | 185 |
| " (Southrop Manor) | Thomas Arkell, Esq.... | ... | 1 0 | ... | 21.30 | ... |
| \S Cirencester (Roy. Agricult. Coll.) | Meteorological Office ... | 5 | 0 10 | 443 | 24.53 | 177 |
| \mathcal{D} " (Cripps Mead) | Mrs. Wilfred Cripps ... | 5 | 0 8 | 366 \nearrow | 25.27 | 190 |

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with .01 or more recorded. |
|---------------------------------------|-----------------------------|-------------|---------------------|------------------------|------------------------|---------------------------------|
| | | Diameter | Height Above Ground | Height Above Sea Level | | |
| | | in. | ft. in. | feet. | inches. | |
| E. GLOUCESTERSHIRE—(con.) | | | | | | |
| D Cirencester (Dollarward House) .. | C. P. Hooker, Esq. ... | 5 | 1 6 | 366 | 26.42 | 202 |
| D " (" " ") .. | " " " " " " .. | 8 | 1 6 | 366 | 26.08 | 202 |
| " (Further Barton) ... | " " " " " " .. | 5 | 1 0 | 422 T | 26.12 | ... |
| D Fairford (Hatherop Castle) | Gardner S. Bazley, Esq. ... | 5 | 1 0 | 410 T | 24.92 | 195 |
| D Great Barrington | H. J. Barrett, Esq. ... | 5 | 1 6 | 430 T | 25.24 | 177 |
| D Northleach (Sherborne House) ... | Mr. A. Mitchell | 5 | 1 0 | 420 | 25.57 | 157 |
| D " (The Vicarage) | Rev. R. C. S. Jones ... | 5 | 0 9 | 545 | 27.52 | 177 |
| D " (Leygore Manor) | Arthur E. Moss, Esq. ... | 5 | 1 0 | 700 | 24.16 | 202 |
| D Bourton-on-the-Water | E. W. Kendall, Esq. ... | 5 | 1 6 | 434 T | 26.80 | 168 |
| " " (Chardwar) | G. F. Moore, Esq. | 5 | 2 6 | 430 | 27.54 | 163 |
| T Temple Guiting | Major G. T. Noel | 5 | 1 2 | 680 A | 26.37 | ... |
| † Chipping Campden (Hidcote) ... | Major W. Wright | 5 | 1 0 | 525 | 19.48 | ... |
| D† Mickleton (Bank House) | M. J. Salter, Esq. | 5 | 1 0 | 233 T | 19.84 | 154 |
| HEREFORDSHIRE. | | | | | | |
| D† Walford-on-Wye Vicarage | Rev. Kentish Bache ... | 5 | 3 0 | 112 T | 24.61 | 189 |
| D† Ross (Broad Street) | H. M. Purchas, Esq. ... | 5 | 1 3 | 123 T | 22.39 | 184 |
| D† " (The Graig) | H. Southall, Esq. | 5 | 1 0 | 213 T | 21.71 | 175 |
| D Kentchurch Rectory | Rev. R. P. Dansey | 5 | 1 0 | 215 T | 28.26 | 186 |
| † Ross (Perrystone Court) | General Clive | 5 | 1 3 | ... | 21.07 | 165 |
| M.P. / † Much Dewchurch (Bryngwyn) .. | Sir J. Rankin, Bart. A ... | 5 | 0 9 | 421 T | 27.22 | 196 |
| Allensmore (Whitfield Court) ... | G. T. Bates, Esq. | 5 | 1 3 | 452 T | 24.34 | ... |
| D† Much Marcle (Caerswall) | J. A. H. Charles, Esq. .. | 5 | 1 0 | 423 B | 26.67 | 197 |
| D " (The Mount) | Miss A. M. Charles ... | 5 | 0 8 | 240 T | 23.99 | 181 |
| D Fownhope (Morney Cross) | Miss F. Cresswell | 5 | 1 5 | ... | 20.98 | 143 |
| D Vowchurch (Whitehouse) | Arthur S. Wood, Esq. .. | 5 | 5 0 | 450 T | 30.75 | 191 |
| D† Ledbury (Orchardleigh) | M. A. Wood, Esq. | 5 | 3 6 | 180 | 22.57 | 153 |
| D† " (Underdown) | S. H. Bickham, Esq. ... | 5 | 1 0 | 307 T | 23.02 | 168 |
| † " (") | M " " " " " " .. | 5 | 1 0 | 306 T | 22.39 | ... |
| " (Putley Court) | J. Riley, Esq. | 5 | 1 0 | 290 | 26.60 | 160 |
| D " (Wellington Heath) ... | Rev F S Stooke-Vaughan | 5 | 1 2 | 505 T | 24.97 | 184 |
| D† Hereford (St. Michael's Priory) .. | Rev. R. C. Hesketh, O.S.B. | 8 | 1 0 | 291 T | 23.90 | 196 |
| D " (Breinton Court) | H. A. Wadworth, Esq. .. | 5 | 3 0 | 238 T | 21.09 | 156 |
| D† " (Richmond Place) | W. Cooke, Esq. | 8 | 0 8 | 184 T | 21.14 | 163 |
| † " (St. Owen Street) | Mrs. Jay Jones | 5 | 6 0 | 190 T | 21.79 | ... |
| D " (Quarry House) | Rev. Preb. W. Selwyn .. | 5 | 1 0 | 180 ? | 23.23 | 163 |
| D† " (Broadlands) | Miss Ida M. Lea | 5 | 1 0 | 280 T | 22.72 | 177 |
| † " (Hinton Court) | A. Battiscombe, Esq. ... | 5 | 1 0 | 185 T | 23.71 | 177 |
| D† " (Holmer Hall) | Rev. Preb. M. Hopton .. | 8 | 1 3 | 241 T | 20.94 | 175 |
| Lugwardine (Annandale) | C. J. Johnstone, Esq. ... | 5 | 1 0 | 250 ? | 21.75 | 145 |
| Bartestree Court | R. P. Haden Cope, Esq. .. | 5 | 1 0 | 295 T | 23.92 | 197 |
| " (Hagley Park) | Mr. T. Alford | 8 | 0 0 | 300 T | 22.49 | ... |
| " (Pomona) | Owen G. S. Croft, Esq. .. | 5 | 1 0 | 230 T | 22.72 | ... |
| D Credenhill (Swainshill) | B. Ronalds, Esq. | 5 | 1 0 | 266 T | 21.31 | 156 |
| D† " | R. M. Whiting, Esq. ... | 5 | 1 0 | 280 T | 24.47 | 184 |
| † Yarkhill Vicarage | Rev. A. G. Jones | 8 | 1 0 | 200 T | 23.96 | 171 |
| D† Burghill Court | Miss E. D. Woodhouse | 5 | 1 2 | 293 T | 21.59 | 163 |
| D† Ocle Pychard (Ocle Court) | G. Cresswell, Esq. | 8 | 1 2 | 298 T | 24.89 | 198 |

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with .01 or more recorded. |
|--------------------------------------|------------------------------|-------------|---------------------|------------------------|------------------------|---------------------------------|
| | | Diameter | Height Above Ground | Height Above Sea Level | | |
| | | in. | ft. in. | feet. | inches. | |
| HEREFORDSHIRE—(con.) | | | | | | |
| ▮ Whitney-on-Wye | Mr. W. Burgess..... | 8 | 1 0 | 428 T | 31·64 | 198 |
| ▮ Brilley Vicarage | Rev. W. Head | 5 | 1 0 | 590 T | 35·03 | 204 |
| † Sarnesfield Rectory | Rev. W. Marshall | 5 | 0 11 | 400 T | 23·42 | 160 |
| ▮† Bodenham (Pigeon House) | R. C. Bailey, Esq. | 5 | 1 0 | 215 | 23·38 | 187 |
| † Pencombe Rectory..... | Rev. J. Seymour St. John | 5 | 1 0 | 520 T | 26·80 | 176 |
| ▮ Huntington Court..... | E. Radclyffe Crump, Esq. | 5 | 1 1 | 833 T | 36·09 | 215 |
| ▮† Pembridge (Dilwyn)..... | Dr. T. Lambert Hall... | 5 | 0 8 | 290 T | 26·60 | 177 |
| † „ (Burton Court) | Col. P. L. Clowes | 5 | 1 0 | 400 | 25·82 | 156 |
| ▮† Kington (Lynhales) | S. Robinson, Esq. | 8 | 1 0 | 566 | 32·84 | 205 |
| ▮† „ (Gravel Hill) | Col. G. F. Pearson..... | 5 | 0 8 | 535 T | 32·24 | 235 |
| ▮† Pembridge (Marston)..... | H. Langston, Esq..... | 5 | 1 5 | 347 T | 27·22 | 172 |
| ▮ Bromyard (Munderfield Harold) | Capt. N. Enderby | 5 | 0 10 | 570 T | 25·13 | 177 |
| ▮† „ (Rowden Abbey)..... | H. J. Bailey, Esq. | 5 | 1 0 | 450 T | 26·39 | 169 |
| ▮† „ (Buckenhill)..... | R. Phipps, Esq. | 8 | 1 6 | 410 | 25·10 | 161 |
| † Whitbourne Court..... | Lady Harington..... | 5 | 1 0 | ... | 25·31 | ... |
| ▮† Leominster (Farm) | Miss Southall | 5 | 1 5 | 268 T | 24·47 | 185 |
| Brampton Bryan Hall | Mr. H. Fisher..... | 8 | 1 0 | 450 | 28·34 | ... |
| SHROPSHIRE. | | | | | | |
| ▮ Ludlow (Ashford House) | W. Downes Hall, Esq. | 5 | 0 5 | 315 T | 32·11 | 174 |
| ▮ Bromfield (Oakly Park) | Mr. T. Reason | 5 | 1 0 | 300 | 29·56 | 216 |
| ▮ „ | F. Brayshaw, Esq..... | 5 | 1 0 | 320 T | 30·10 | 195 |
| Craven Arms (Stokesay Court)... | Mr. J. R. Francis | 5 | 0 9 | 432 T | 29·07 | ... |
| ▮ Clunbury Vicarage | Rev. W. Clark Maxwell | 5 | 1 0 | 497 T | 27·70 | 137 |
| ▮ Craven Arms (Stokesay Vicarage) | Rev. W. M. D. La Touche | 5 | 1 0 | 372 T | 29·47 | 181 |
| ▮ Hopesay Rectory | Rev. R. J. Roberts | 5 | 1 0 | 565 T | 30·03 | 195 |
| Bishops Castle (Totterton) | W. H. Whitaker, Esq. | 5 | 0 7 | 700 | 28·48 | ... |
| ▮ „ „ (Castle Street) | E. Griffiths, Esq. | 5 | 2 0 | 720 T | 27·60 | 185 |
| ▮ „ „ Vicarage | Rev. C. E. Warner | 5 | 1 6 | 596 T | 30·66 | 209 |
| „ „ (More Rectory)... | Rev. Ridley Relton | 6 | 0 11 | 600 T | 28·22 | ... |
| Bridgnorth (Coton Hall) | E. M. Wakeman, Esq. | 5 | 1 6 | 460 | 28·32 | 165 |
| ▮ Church Stretton (Sewage Works) | E. J. Marsh, Esq. | 5 | 1 0 | 582 T | 32·55 | 213 |
| † Bridgnorth (Hookfield House)... | Rev. Preb. F. Burd | 5 | 0 11 | 273 T | 27·31 | 190 |
| ▮ „ (Cantreyn) | W. Bayliss, Esq. | 5 | 3 0 | 290 | 27·40 | 178 |
| „ „ „ | „ „ „ | 5 | 0 3 | 290 | 28·58 | 178 |
| ▮ „ (Aldenham Park) | Mr. T. Canning | 5 | 3 9 | 430 T | 25·65 | 143 |
| ▮ Church Preen (Preen Manor) | Mr. J. Hopkins | 5 | 1 0 | 700 T | 27·96 | 160 |
| ▮ Church Stretton (Wolstaston) | Mrs. E. D. Carr | 5 | 1 5 | 800 T | 31·13 | 200 |
| ▮ Much Wenlock (Willey Park)... | Lord Forester | 5 | 1 0 | 502 T | 28·46 | 182 |
| ▮ Pontesbury (Somerville) | Miss H. M. Croft | 5 | 1 6 | 355 T | 24·27 | 159 |
| Minsterley (Hampton Hall) | J. Whitaker, Esq..... | ... | 1 0 | 630 T | 28·00 | ... |
| ▮ „ (Wallop) | Mrs. Severne | 8 | 1 8 | 700 T | 34·23 | 194 |
| ▮ Westbury (Winsley Hall) | late Gen. Hon. W. H. Herbert | 12 | 1 6 | 365 T | 26·41 | 220 |
| ▮ Shifnal (Hatton Grange) | Mr. G. Risebrow | 5 | 4 4 | 262 | 28·46 | 200 |
| ▮ „ (Neachley)..... | Col. Hon. F. Bridgeman | 5 | 1 6 | 280 T | 29·51 | 227 |
| ▮ „ (Haughton Hall) | W. J. Brooke, Esq..... | 5 | 3 0 | 355 T | 28·95 | 182 |
| ▮ Shrewsbury (The Abbey House) | Miss F. Rouse Boughton | 8 | 1 3 | 171 T | 22·51 | 175 |
| „ (Corporation Yard)... | W. Chapple Eddowes Esq. | 8 | 1 3 | 174 T | 25·71 | 148 |

DIVISION VI.—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 | 1908 | |
| | | in. | ft. | in. | feet. | inches. | |
| SHROPSHIRE—(con.) | | | | | | | |
| § Shrewsbury | Meteorological Office ... | 8 | 1 | 0 | 212 | 23·44 | 183 |
| D „ (Highfield) | T. M. Howells, Esq. ... | 5 | 4 | 6 | 250 ∇ | 24·37 | 173 |
| § „ (Roden) | Royal Meteorological Soc | 8 | 1 | 0 | 209 | 24·18 | 170 |
| D „ (Fitz Rectory) | Rev. W. Brewster ... | 5 | 1 | 2 | 238 ∇ | 27·75 | 201 |
| „ („ Manor) | Major J. F. Horner ... | 5 | 1 | 4 | 253 ∇ | 27·16 | 187 |
| D Newport (Aston Hall) | Col. R. Leeke | 5 | 1 | 4 | 280 ∇ | 30·81 | 201 |
| D „ (Agricultural College) .. | P Hedworth Foulkes Esq | 5 | 1 | 0 | 220 | 24·84 | 178 |
| D „ (Edgmond) | J. Bodenham, Esq. ... | 8 | 1 | 0 | 261 ∇ | 28·22 | 211 |
| „ („) | „ „ „ „ „ „ „ „ | 5 | 1 | 0 | 261 ∇ | 28·13 | ... |
| D Wem | Rev. E. C. Shawfield ... | 5 | 1 | 4 | 263 | 23·69 | 144 |
| D Cheswardine (Knighton Res.) ... | G. R. Jebb, Esq., C.E. | 8 | 0 | 3 | 351 ∇ | 29·51 | 203 |
| D Oswestry (The Mount Reservoir) .. | G. W. Lacey, Esq., C.E. | 5 | 1 | 0 | 698 ∇ | 40·59 | 212 |
| Market Drayton (Buntingsdale) .. | Mrs. Tayleur | 8 | 3 | 0 | 276 ∇ | 29·37 | ... |
| D Ellesmere (The Grange) | Mrs. Ashton | 5 | 0 | 10 | 340 | 33·42 | 202 |
| D Whitchurch (Tilstock Lodge) ... | W. C. Roscoe, Esq. ... | 5 | 1 | 0 | ... | 29·10 | 152 |
| STAFFORDSHIRE. | | | | | | | |
| D Netherton (Lodge Farm Res.) ... | G. R. Jebb, Esq., C.E. | 5 | 1 | 0 | 445 ∇ | 23·52 | 161 |
| D Dudley (Shavers End) | H. A. Hill, Esq., C.E. | 5 | 1 | 0 | 744 ∇ | 26·19 | 183 |
| D Wombourne (The Bratch) | Baldwin Latham Esq CE | 5 | 0 | 9 | 271 ∇ | 26·36 | 193 |
| D Wednesbury (Ocker Hill) | G. R. Jebb, Esq., C.E. | 5 | 0 | 8 | 474 ∇ | 26·35 | 192 |
| D Walsall (Brockhurst Sew. Farm) | J. Taylor, Esq. | 8 | 0 | 11 | 376 ∇ | 30·93 | 173 |
| D „ (Wednesbury Sewage Wks.) | T. Wicks, Esq. | 5 | 2 | 8 | 381 ∇ | 25·48 | 181 |
| ur/ Bilston (The Lunt Outfall) | Vincent Tinner, Esq ... | 5 | 0 | 9 | 419 ∇ | 27·68 | 166 |
| † Wolverhampton (Graiseley) ... | R. E. W. Berrington, Esq | 6 | 0 | 9 | 506 ∇ | 29·14 | 140 |
| † „ (Town Hall) ... | G. Green, Esq., C.E. ... | 5 | 15 | 6 | 481 ∇ | 25·10 | 172 |
| † „ (West Park) ... | „ „ „ „ „ „ „ „ | 5 | 1 | 4 | 432 ∇ | 27·57 | 178 |
| D „ (Wrottesley) ... | Mr. E. Simpson | 8 | 1 | 0 | 500 | 26·26 | 156 |
| D Patshull Park | The Earl of Dartmouth | 8 | 1 | 3 | 273 | 29·73 | 155 |
| D Bloxwich (Sneyd Reservoir) | G. R. Jebb, Esq., C.E. | 5 | 1 | 0 | 507 ∇ | 26·28 | 176 |
| D Hammerwich (Cannock Chase Res) | „ „ „ „ „ „ „ „ | 5 | 1 | 0 | 475 ∇ | 23·99 | 186 |
| D Weston Park [Shifnal] | The Earl of Bradford ... | 5 | 1 | 6 | 400 ∇ | 29·07 | 182 |
| D Brewood (Belvide Reservoir) ... | G. R. Jebb, Esq., C.E. | 8 | 1 | 0 | 367 ∇ | 28·54 | 199 |
| D Lichfield (St. John Street) | Dr. F. M. Rowland ... | 5 | 0 | 10 | 269 ∇ | 26·61 | 191 |
| „ (Maple Hayes) | A. O. Worthington, Esq. | 5 | 0 | 11 | 380 ∇ | 23·52 | ... |
| D Penkridge (Rodbaston) | Mrs. H. Ward | 5 | 1 | 0 | 324 ∇ | 28·48 | 165 |
| D Hednesford (Scout House) | H. A. Hill, Esq., C.E. | 5 | 1 | 0 | 750 ∇ | 23·15 | 151 |
| Wichnor Park | Basil Levett, Esq. | 5 | 0 | 8 | 100 ? | 23·33 | ... |
| D Church Eaton Rectory | Rev. S. Wickham Jones | 8 | 0 | 8 | 298 ∇ | 28·17 | 204 |
| Shugborough | The Earl of Lichfield ... | 5 | 1 | 0 | 260 | 31·98 | 212 |
| D Burton (Hoar Cross) | F. W. Lycett, Esq. | 8 | 1 | 0 | 400 ∇ | 28·44 | 144 |
| D „ (Rangemore) | Mr. W. Bennett | 5 | 5 | 6 | 424 ∇ | 26·06 | 164 |
| D „ (Shobnall) | Messrs. Bass & Co. ... | 5 | 5 | 6 | 156 ∇ | 24·68 | 152 |
| D Stafford (Tipping Street) | W. Fred. Wright, Esq. | 5 | 2 | 6 | 258 ∇ | 28·77 | 180 |
| „ (West Bank, Doxey) M | Leslie Wilson, Esq. ... | 5 | 0 | 6 | 280 ∇ | 27·38 | ... |
| D Eccleshall (Walton Hall) | Sir H. A. Wiggin, Bart. | 5 | 1 | 3 | 344 ∇ | 31·67 | 187 |
| D Hanbury Hall | Miss Caroline M. Bott.. | 5 | 0 | 11 | 483 ∇ | 27·82 | 180 |

DIVISION VI.—WEST MIDLAND COUNTIES—*The Villas (con.) 4-1-10*
(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with .01 or more recorded. |
|--|--------------------------------|-------------|----------------------|------------------------|------------------------|---------------------------------|
| | | Diameter | Height above Ground. | Height above Sea Level | | |
| | | in. | ft. in. | feet. | inches. | |
| STAFFORDSHIRE—(con.) | | | | | | |
| d Market Drayton (Old Springs)... | F. E. Harding, Esq. ... | 5 | 1 0 | 423 π | 29.87 | 202 |
| Maer Hall Gardens | F. J. Harrison, Esq. ... | 8 | 1 6 | 390 π | 35.14 | 190 |
| § Cheadle (The Heath House)..... | Roy. Meteorological Soc. | 5 | 0 6 | 647 π | 33.32 | 186 |
| d Longton (The Meir) | G. B. H. Soame, Esq. C.E. | 5 | 1 0 | 618 π | 25.64 | 175 |
| d Betley Hall [Crewe] | Col. J. A. Macdonald... | 5 | 1 0 | 270 | 31.14 | 195 |
| Stoke-upon-Trent (Globe Street) | H. H. Goddard, Esq. ... | 5 | 1 8 | 430 \uparrow | 30.38 | ... |
| d " " " (Hartshill) ... | J. H. Knight, Esq. | 5 | 1 0 | 485 π | 32.00 | 205 |
| d Mayfield House [Ashbourne] ... | Graham C. Lawson, Esq. | 8 | 1 0 | 374 π | 33.39 | 200 |
| d " " " ["] <i>Snow g.</i> | " " " | 8 | 1 0 | 374 π | 31.84 | 200 |
| d " " " ["] <i>weekly</i> | " " " | 8 | 1 0 | 374 π | 31.79 | ... |
| d Leek (Wall Grange) | G. B. H. Soame, Esq. C.E. | 5 | 1 0 | 458 π | 34.27 | 187 |
| WORCESTERSHIRE. | | | | | | |
| d Blockley (Upton Wold)..... | E. W. Arkell, Esq. ... | 5 | 1 0 | ... | 26.85 | 157 |
| Northwick Park..... | The Lady Northwick... | 8 | 1 6 | 410 π | 23.14 | ... |
| Shipston (Tidmington House) ... | Miss Staunton | 5 | 1 1 | ... | 22.10 | ... |
| Upton-on-Severn (Willow Bank) | J. Selwyn Cowley, Esq. | 5 | 1 3 | 42 | 22.24 | 150 |
| d " " " (The Eades)... | Major E. W. Tennant.. | 5 | 0 9 | 100 \uparrow | 23.94 | 200 |
| † Evesham (Eastwick)..... | C. Burlingham, Esq. ... | 5 | 1 0 | 110 | 20.63 | ... |
| † " (Lansdowne) | R. Burlingham, Esq. ... | 5 | 5 0 | 108 \uparrow | 21.35 | ... |
| Pershore (The Poplars) | Col. J. F. Miller | 5 | 1 6 | 104 \uparrow | 20.39 | ... |
| d Gt. Malvern (British Camp Res.) | W. Osborne Thorp, Esq., C.E. | 5 | 0 11 | 677 π | 25.75 | 178 |
| d " " (Church Street)..... | " " " | 5 | 1 0 | 350 π | 26.58 | 164 |
| d§ " " (Belle Vue House)... | A. Mander, Esq. | 5 | 4 0 | 520 | 26.56 | 179 |
| " " (Davenham Gardens) | <i>Gardener's Chronicle</i> .. | ... | ... | ... | 23.81 | ... |
| d " " (Madresfield Court)... | Mr. W. Crump | 8 | 2 6 | 125 \uparrow | 23.37 | 172 |
| d Shipston (Armscote) | W. L. Stanton, Esq. ... | 5 | 1 1 | 241 π | 22.34 | 188 |
| d " (Talton) | Capt. G. Lainson Field | 8 | 1 0 | 160 π | 18.71 | 159 |
| d Kempsey (Draycott House) | Col. C.E. Southouse Scott | 5 | 1 0 | 55 | 24.37 | 175 |
| " (Priors Court) | Capt. G. M. Archdale... | 5 | 0 11 | 80 $?$ | 22.21 | ... |
| d† Worcester (Boughton Park)..... | Mrs. Isaac | 5 | 0 8 | 82 \uparrow | 24.31 | 168 |
| " (Bromwich House) ... | Rev Canon T Littleton Wheeler | 5 | 0 10 | 86 \uparrow | 21.21 | 161 |
| d† " (Diglis Lock) | E. D. Marten, Esq., C.E. | 5 | 1 0 | 49 π | 22.21 | 170 |
| d† " (Belmont Road) | G. B. Wetherall, Esq.. | 5 | 1 6 | 180 \uparrow | 22.17 | 179 |
| d† " (Water Works) | T. Caink, Esq., C.E. ... | 5 | 0 9 | 56 π | 22.51 | 169 |
| d " (Bevere Lock) | E. D. Marten, Esq., C.E. | 5 | 1 1 | 52 π | 24.20 | 163 |
| d Worcester (Hawford Lodge) | F. Ames, Esq. | 5 | 1 1 | 70 | 29.41 | 147 |
| d Martley Rectory..... | Rev. J. F. Hastings ... | 5 | 1 0 | 250 \uparrow | 27.50 | 172 |
| d Droitwich (Holt Lock) | E. D. Marten, Esq., C.E. | 5 | 1 1 | 55 π | 25.85 | 148 |
| Shelsley Walsh | Miss M. Constance Hadley | 5 | 0 8 | 164 π | 29.40 | ... |
| d Tenbury (Rochford Rectory) ... | Rev. J. Tomson | 5 | 1 0 | 317 π | 26.76 | 154 |
| § " (Nash Court) | Meteorological Office ... | 5 | 5 0 | 520 | 24.42 | 181 |
| d Redditch (Hewell Gardens) | Mr. A. A. Pettigrew ... | 5 | 1 0 | 469 π | 26.83 | 210 |
| d Bromsgrove (Tardebigge Res.)... | F. A. Jones, Esq. C.E. | 5 | 3 0 | 433 \uparrow | 25.67 | 159 |
| d Alvechurch (High Croft) | D. B. Grubb, Esq. | 5 | 1 0 | 580 | 27.33 | 159 |
| d Barnt Green (Upwood)..... | Miss M. Gibbins | 5 | 0 9 | 650 \uparrow | 22.83 | 172 |
| d Stourport (Lincombe Lock)..... | E. D. Marten, Esq., C.E. | 5 | 1 0 | 62 π | 24.40 | 171 |
| d " (Areley Hall) | S. Zachary Lloyd, Esq. | 5 | 0 9 | 70 \uparrow | 25.83 | 159 |

Note in Subp

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with '01 or more recorded. |
|----------------------------------|---------------------------|-------------|----------------------|------------------------|------------------------|---------------------------------|
| | | Diameter | Height Above Ground. | Height Above Sea level | | |
| | | in. | ft. in. | feet. | inches. | |
| WORCESTERSHIRE—(con.) | | | | | | |
| Bromsgrove (Lower Bittal Res.) | F. A. Jones, Esq., C.E. | 5 | 3 0 | 430 T | 25·53 | 183 |
| Bewdley (Beaucastle) | George Baker, Esq. ... | 5 | 0 9 | 450 B | 23·15 | 170 |
| „ (Winterdyne)..... | Miss K. M. Sturt | 5 | 1 0 | 100 P | 23·34 | 167 |
| Kidderminster (The Brinton Park) | Mr. J. T. Cowderoy ... | 5 | 1 0 | 160 A | 21·84 | 174 |
| „ (Honeybrook Ho.) | Col. R. Talbot Watson.. | 5 | 0 9 | 75 | 25·31 | ... |
| Northfield (Longbridge Place)... | Mrs. Frederick Impey.. | 5 | 0 7 | 560 T | 28·41 | 170 |
| „ (West Heath House). | Prof. Adrian J. Brown | 5 | 1 0 | ... | 27·30 | ... |
| Halesowen (Frankley) | E. Antony Lees, Esq... 5 | 5 | 0 10 | 570 A | 30·12 | 180 |
| Kings Heath (Brandwood House) | G. F. Lyndon, Esq. ... | 5 | 1 0 | 550 T | 27·20 | 210 |
| Selly Oak (Lodge Hill Cemetery) | Mr. W. Garden | 5 | 1 4 | 540 T | 29·59 | 170 |
| Stourbridge (Hagley Rectory)... | Rev. Manley Power ... | 5 | 1 0 | 750 T | 24·93 | 163 |
| „ (Pedmore)..... | E. B. Marten, Esq., C.E. | 8 | 0 11 | 350 A | 26·69 | 194 |
| „ (Longlands) | „ „ „ | 8 | 0 9 | 258 A | 25·54 | 199 |
| Stechford (Trebortha House) ... | H. H. Newark, Esq.... | 5 | 1 3 | 360 B | 25·44 | ... |
| Moseley (Prospect Road) | Rev. F. Oscar Lane ... | 5 | 1 0 | 550 T | 26·51 | ... |
| Sparkhill [Birmingham] | D. H. Owen, Esq. | 5 | 1 0 | 430 T | 27·25 | 181 |
| Dudley (Trindle House) | E. B. Marten, Esq., C.E. | 8 | 1 0 | 575 | 27·98 | 186 |
| „ (Borough Cemetery) ... | J. Gammage, Esq., C.E. | 5 | 2 3 | 591 T | 25·73 | 192 |
| WARWICKSHIRE. | | | | | | |
| Long Compton (Weston Park)... | H. A. Warriner, Esq... 8 | 8 | 3 0 | 510 T | 22·26 | 166 |
| Shipston (Honington Vicarage)... | Rev. E. H. Boddington | 5 | 0 10 | 215 T | 21·43 | 162 |
| Farnborough | Miss Prater | 5 | 1 0 | 515 T | 25·89 | 198 |
| Stratford-on-Avon (Avonfield) .. | G. W. Everard, Esq.... | 5 | 0 10 | 120 T | 21·23 | 135 |
| „ „ „ (Shottery Hall) | R. C. Carter, Esq..... | 5 | 0 8 | 140 T | 21·64 | 159 |
| „ „ „ (Hardwicke) .. | Miss E. H. Smith | 12 | 6 0 | 146 A | 21·64 | 164 |
| Alcester (Ragley Hall) | The Marquis of Hertford | 5 | 1 0 | 270 T | 21·99 | 157 |
| Snitterfield | Roden Dixon, Esq..... | 8 | 1 6 | 274 T | 22·73 | 159 |
| Warwick (Barford Rectory)..... | Rev. W. I. Brooke..... | 8 | 0 11 | 167 A | 21·40 | 135 |
| Leamington (Radford House) ... | C. E. G. Hatherell, Esq. | 5 | 1 2 | 240 T | 22·63 | 191 |
| „ (Binswood Avenue) | Rev. A. Corbet | 5 | 0 9 | ... | 22·69 | 167 |
| „ (Cubbington)..... | Mrs. Robins | 5 | 1 0 | 282 T | 21·74 | 147 |
| Kenilworth (The Spring) | Mr. W. Entwistle | 5 | 1 0 | 312 A | 21·82 | 167 |
| Rugby (Bilton Grange)..... | W. H. G. Southcomb, Esq | 5 | 1 0 | 400 | 21·91 | 151 |
| „ (Temple Observatory) ... | Rev. Denys E. Shorto.. | 5 | 1 1 | 383 T | 24·21 | 187 |
| Ryton-on-Dunsmore (Ryton Ho.) | Charles Browett, Esq... 5 | 5 | 1 2 | 260 | 24·14 | 141 |
| Coventry (City Hospital) | E. H. Snell, Esq., M.D. | 8 | 1 0 | 269 T | 23·10 | 190 |
| „ (Holyhead Road) | J. B. Morris, Esq. | 5 | 1 0 | 300 T | 21·47 | 188 |
| „ (Kingswood) | R. B. Caldicott, Esq.... | 8 | 1 0 | 340 T | 24·27 | 166 |
| Hampton-in-Arden (Hampton Manor) | Mr. W. R. Cooper..... | 8 | 0 7 | 345 T | 23·08 | 169 |
| Foleshill (Foxford School) | A. F. Smith, Esq. | 5 | 10 9 | 311 T | 24·26 | 169 |
| Coventry (Keresley Grange)..... | Miss H. Rotherham ... | 5 | 0 10 | 413 T | 24·15 | 213 |
| Birmingham (Sheldon Rectory)... | Mrs. Jones-Bateman... | 8 | 1 0 | 323 | 29·90 | 176 |
| § „ (Edgbaston) | A. Cresswell, Esq..... | 8 | 1 0 | 525 A | 26·51 | 159 |
| „ (The Crescent) | J. J. Gilbert, Esq..... | 5 | 21 0 | 495 A | 24·17 | 137 |
| „ { „ „ } ... M | „ „ „ „ „ | 5 | 7 0 | 480 A | 25·02 | ... |
| „ (Gravelly Hill)..... | W. Ll. Mold, Esq..... | 5 | 3 0 | 450 | 29·64 | 182 |

DIVISION VI.—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 | | 1908 |
| | | in. | ft. | in. | feet. | inches. | |
| WARWICKSHIRE—(con.) | | | | | | | |
| d Bedworth Cemetery | Mr. G. O. Bosworth ... | 5 | 1 | 0 | 385 T | 23·67 | 156 |
| Nuneaton (Chilvers Coton Vic.).. | Rev. R. Chadwick | 5 | 0 | 10 | 283 T | 23·01 | 149 |
| d Witton Reservoir | E. Antony Lees, Esq... .. | 5 | 3 | 0 | 347 T | 28·27 | 177 |
| d Whitacre (Birmingham W.W.).. | „ „ „ | 5 | 1 | 5 | 269 T | 25·37 | 199 |
| d Sutton Coldfield (The Park)..... | Mr. H. Harlond..... | 5 | 1 | 0 | 371 T | 27·34 | 168 |

DIVISION VII.—NORTH MIDLAND COUNTIES.

LEICESTERSHIRE.

| | | | | | | | |
|--------------------------------------|----------------------------|---|---|---|-------|-------|-----|
| Lutterworth (Walcote)..... | Major Corbet Smith ... | 5 | 0 | 6 | 290 T | 22·91 | ... |
| Market Harborough (Rose Hill). | G. O. Nicholson, Esq... .. | 5 | 1 | 0 | 350 T | 21·44 | 171 |
| East Langton Grange | J. W. Logan, Esq..... | 5 | 1 | 0 | ... | 20·56 | ... |
| Kibworth Beauchamp | E. V. Phillips, Esq. ... | 5 | 2 | 6 | 390 T | 21·19 | 157 |
| Wistow Hall Gardens | Mr. F. J. Clark | 5 | 1 | 1 | 310 T | 21·54 | 163 |
| Hallaton Hall..... | S. N. Bankart, Esq. ... | 8 | 1 | 3 | 366 | 20·26 | ... |
| Newton Harcourt | Hon. T. F. Fremantle.. | 5 | 1 | 0 | 352 T | 18·46 | ... |
| Horninghold House | Mr. B. Inchley | 5 | 1 | 6 | 380 | 20·40 | ... |
| Blaby (Whetstone Road)..... | G. F. Shoults, Esq. ... | 5 | 0 | 6 | 239 T | 22·53 | 184 |
| " (Havelock House) | F. Atkins, Esq. | 5 | 1 | 6 | 233 T | 22·70 | 190 |
| Glen Parva (S. Wigston Sew. Fm.) | Mr. W. G. J. Clark ... | 8 | 0 | 5 | 231 T | 20·77 | 183 |
| Leicester (Stonegate Road) ... | T. Spencer Smithson Esq | 5 | 0 | 6 | 258 T | 20·64 | 175 |
| " (Town Hall Square) ... | E. G. Mawbey, Esq., C.E. | 5 | 0 | 6 | 211 T | 19·81 | 169 |
| " " " " " (R) | " " " " " " " | 7 | 2 | 0 | 213 T | 19·72 | 165 |
| Market Bosworth (Osbaston Hall) | Thomas Cope, Esq..... | 8 | 1 | 0 | 385 T | 24·23 | 193 |
| Humberstone Asylum | J. E. M. Finch, Esq., M.D | 8 | 1 | 0 | 266 T | 22·13 | 201 |
| Old Humberstone | W. R. Kendall, Esq. ... | 5 | 1 | 6 | 297 T | 22·12 | ... |
| Leicester (Anstey Pastures)..... | W. P. Viccars, Esq. ... | 5 | 1 | 1 | 280 | 22·47 | ... |
| Thornton Reservoir | F. Griffith, Esq., C.E.. | 8 | 1 | 2 | 371 T | 23·85 | 174 |
| Thurcaston (Cropston, Bradgate Res.) | " " " " " " " | 8 | 1 | 0 | 246 T | 25·25 | 174 |
| Barkby Hall | Victor R. Pochin, Esq.. | 5 | 0 | 3 | 217 T | 21·90 | 164 |
| Syston..... | S. K. Daniels, Esq. ... | 5 | 1 | 6 | 180 T | 20·62 | 138 |
| Swithland (The Brand) | F. Griffith, Esq., C.E.. | 8 | 1 | 0 | 172 T | 22·12 | 162 |
| Ratcliffe-on-Wreake College ... | Rev. J. Cremonini | 5 | 1 | 0 | 300 | 21·30 | ... |
| Ashby-de-la-Zouch (Coleorton Hall) | Mr. H. Wilson | 5 | 2 | 0 | 540 T | 23·38 | 180 |
| Barrow-upon-Soar (The Mount). | Mrs. C. Stuart Thomson | 5 | 1 | 6 | ... | 19·82 | 153 |
| Charnwood Forest (Blackbrook Res.) | A. H. Walker, Esq., C.E. | 8 | 1 | 0 | 367 | 24·11 | 182 |
| Loughborough (Nan Pantan Res.) | " " " " " " " | 8 | 1 | 0 | 269 T | 21·87 | 171 |
| " (The Widenings). | Adrian Young, Esq. ... | 5 | 0 | 7 | 197 T | 22·30 | 186 |
| " (Sewage Farm)... | A. H. Walker, Esq., C.E. | 8 | 1 | 0 | 134 T | 20·48 | 172 |
| Burton-on-the-Wolds (Burton Hall) | Lord Ernest St. Maur... | 5 | 1 | 0 | ... | 21·07 | 156 |
| Prestwold Hall | E. H. Packe, Esq. | 8 | 1 | 0 | 209 T | 21·25 | 188 |
| Waltham-on-the-Wolds | G. Higgins, Esq. | 5 | 1 | 0 | 568 | 21·78 | 192 |
| Croxton Kerrial Vicarage | Rev. W. E. P. Malden | 5 | 1 | 0 | 480 T | 22·24 | 198 |
| Belvoir Castle..... | W. H. Divers, Esq. ... | 8 | 1 | 0 | 260 T | 21·43 | 212 |

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 | | 1908 |
| | | in. | ft. | in. | feet. | inches. | |
| RUTLAND. | | | | | | | |
| Liddington (Uppingham W.W.) | Messrs G. & F. W. Hodson | 5 | 1 | 0 | 152 π | 17.29 | ... |
| d Uppingham (Ridlington) | N. W. Wortley, Esq.... | 5 | 4 | 7 | 527 \uparrow | 21.25 | 190 |
| Tinwell (Glebe Farm) | H. Edwards, Esq. | 5 | 1 | 1 | ... | 19.75 | 157 |
| Whitwell Rectory | Rev. T. E. Woodhouse. | 5 | 0 | 11 | 320 | 19.81 | 191 |
| d Market Overton | Miss Grace Wingfield... | 8 | 0 | 11 | 475 \uparrow | 23.08 | 206 |
| SOUTH LINCOLNSHIRE. | | | | | | | |
| (HOLLAND AND KESTIVEN.) | | | | | | | |
| Stamford (St. George's Square).. | T. Booth, Esq. | 5 | 4 | 0 | 88 π | 19.62 | 156 |
| d Market Deeping (Wilsthorpe) ... | J. C. Gill, Esq., C.E.... | 8 | 3 | 10 | 53 π | 17.46 | 160 |
| d Bourne (Guthram)..... | F. S. Robins, Esq., C.E. | 8 | 1 | 6 | 19 | 15.63 | 157 |
| Grantham (Stainby Rectory) ... | Rev. W. A. H. Thorold | 5 | 0 | 9 | 496 | 19.11 | ... |
| d „ (Little Ponton Rect.) .. | Rev. P. R. Worsley ... | 5 | 1 | 0 | 250 \uparrow | 22.07 | 198 |
| d „ (Denton Manor) | Sir C. G. E. Welby, Bt. CB | 5 | 1 | 0 | 310 | 20.30 | 211 |
| d „ (Saltersford)..... | H. Preston, Esq. | 5 | 0 | 6 | 188 π | 18.54 | 161 |
| d „ (Guildhall) | W. Shackleton, Esq. C.E. | 5 | 13 | 6 | 202 π | 17.76 | 146 |
| d „ (High Street) | Messrs. R. & W. Bird.. | 5 | 1 | 0 | 202 | 18.73 | 168 |
| Holbeach Marsh (Somerset House) | W. H. West, Esq..... | 5 | 0 | 6 | 0 π | 18.88 | ... |
| d Boston (Black Sluice, Skirbeck). | F. S. Robins, Esq., C.E. | 8 | 1 | 3 | 11 | 20.15 | 182 |
| d „ | G. E. Clarke, Esq., C.E. | 8 | 1 | 0 | 11 π | 20.07 | 158 |
| d „ (Grand Sluice) | J. H. Johnson, Esq., C.E. | 8 | 8 | 0 | 18 \uparrow | 19.32 | 156 |
| d „ (Bargate End) | A. O. Scrivener, Esq... | 8 | 1 | 0 | 9 | 20.00 | 141 |
| d § Sleaford (Rauceby Hall) | Gen. Sir M Willson, KCB | 5 | 1 | 0 | 125 \uparrow | 22.51 | 194 |
| d Leake (Lade Bank Engines)..... | J. H. Johnson, Esq., C.E. | 8 | 1 | 0 | 10 π | 20.80 | 153 |
| d Stubton [Newark]..... | G. Nevile, Esq. | 5 | 4 | 6 | 99 \uparrow | 19.21 | 176 |
| § Fulbeck | Rev. V. F. Willson ... | 5 | 0 | 8 | 180 π | 20.33 | 191 |
| d Welbourn | Miss M. Burtt | 5 | 3 | 6 | 120 \uparrow | 19.15 | 184 |
| § Temple Bruer..... | Miss A. S. Morley | 5 | 1 | 0 | 300 \uparrow | 21.45 | 167 |
| Navenby Rectory | Mr. J. Thompson | 5 | 1 | 0 | 218 \uparrow | 21.77 | 187 |
| d Carlton-le-Moorland | J. Brocklebank, Esq.... | 5 | 1 | 2 | 49 | 19.60 | 146 |
| Lincoln (Branston Hall) | A. S. Leslie Melville, Esq | 5 | 1 | 3 | 122 π | 20.01 | 180 |
| d „ (Boultham) | Neil McK. Barron Esq. CE | 5 | 0 | 7 | 19 π | 19.15 | 164 |
| d „ (Doddington Rectory)... | Rev. R. E. G. Cole ... | 5 | 1 | 2 | 92 π | 18.86 | 169 |
| „ (Skellingthorpe Hall)... | A. H. B. Coupland, Esq. | 5 | 1 | 0 | ... | 20.81 | 152 |
| NORTH LINCOLNSHIRE. | | | | | | | |
| (LINDSEY.) | | | | | | | |
| d Carrington Grange | Mr. T. J. Ward | 5 | 6 | 0 | 15 π | 19.54 | 140 |
| d § Mareham-le-Fen | Mrs. Kime | 5 | 3 | 0 | 11 | 21.72 | 190 |
| d Revesby | J. Shaw, Esq..... | 5 | 2 | 0 | 135 π | 22.18 | 148 |
| d Woodhall Spa (Galm House) ... | J. Collins, Esq. | 5 | 1 | 0 | 72 | 19.72 | 190 |
| d § Skegness | V. H. Tippet, Esq. ... | 8 | 1 | 0 | 13 \uparrow | 17.94 | 195 |
| d Spilsby (Hagnaby Priory) | Miss Pocklington | 8 | 1 | 8 | 47 π | 25.80 | 189 |
| d „ (East Keal Rectory)..... | Rev. R. H. Simpson ... | 5 | 0 | 7 | 200 \uparrow | 21.71 | 218 |
| d „ („ „ Manor) | A. M. Wilson, Esq. ... | 8 | 1 | 0 | 181 π | 23.19 | 187 |

DIVISION VII.—NORTH MIDLAND COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain. | Days with .01 or more recorded. |
|-------------------------------------|---------------------------|-------------|----------------------|------------------------|----------------|---------------------------------|
| | | Diameter | Height Above Ground. | Height Above Sea Level | 1908 | |
| | | in. | ft. in. | feet. | inches. | |
| NORTH LINCOLNSHIRE | | | | | | |
| (LINDSEY)— <i>con.</i> | | | | | | |
| D Spilsby (Halton Holgate) | G. Rattenbury, Esq.... | 5 | 1 0 | 89 T | 23.44 | 191 |
| D " | Dr. J. W. Walker..... | 5 | 1 0 | 160 T | 25.11 | 189 |
| D " (Ashby Road) | J. J. Rainey | 5 | 1 0 | 160 T | 22.13 | 182 |
| D " (Hagworthingham) | Mr. R. Wright | 5 | 1 1 | 252 T | 22.27 | 180 |
| D Bucknall | Joshua Bint, Esq. | 5 | 1 0 | 33 T | 18.86 | 176 |
| D Horncastle | H. R. Maynard, Esq.... | 5 | 1 6 | 110 | 22.85 | 193 |
| D " (Beoley House) | G. Carlyle-Steel, Esq.... | 5 | 1 0 | 104 T | 21.42 | 194 |
| D Lincoln (Station) | Great Central Rly. Co.* | 9 | 3 6 | 26 | 18.81 | ... |
| D " (Sessions House) | W. Barr, Esq. | 5 | 1 0 | 59 T | 20.75 | 189 |
| D " (D'Isney Place) | A. H. Leslie Melville Esq | 4 | 1 0 | 215 L | 22.13 | 191 |
| D " (Cottesford Place) | F. A. Peacock, Esq. ... | 5 | 0 9 | 220 | 22.76 | 169 |
| Alford Cemetery | Mr. E. Hodgson | 5 | 1 0 | 29 T | 21.56 | 177 |
| D Scampton House | Mrs. G. E. Sandars ... | 5 | 1 11 | 80 | 19.82 | 133 |
| Willingham-by-Stow | R. C. Bacon, Esq. | 8 | 1 6 | 70 T | 21.93 | 194 |
| D Louth (Westgate) | Dr. F. Fawcett | 5 | 0 9 | 120 T | 23.12 | 179 |
| D Market Rasen | Mr. W. B. Jevons | 5 | 0 8 | 84 | 24.15 | 159 |
| " " | Great Central Rly. Co.. | 9 | 3 6 | 100 | 22.49 | 177 |
| § " " (Tealby) | Meteorological Office ... | 5 | 4 0 | 260 | 23.36 | 156 |
| D Kirmond | C. Fieldsend, Esq. | 5 | 1 2 | 309 T | 26.49 | 201 |
| D Gainsborough (Morton) | J. A. R. Greaves, Esq.. | 5 | 1 0 | 22 T | 19.82 | 162 |
| " " (N. Sandsfield) | Mr. J. Creed | 5 | 2 3 | 23 T | 19.55 | ... |
| § Caistor (Cabourne) | Rev. R. Thomas | 5 | 1 2 | 280 T | 25.63 | ... |
| D Brigg | A. Atkinson, Esq., C.E. | 8 | 1 2 | 11 T | 23.88 | 226 |
| Irby-on-Humber | H. B. Parker, Esq. | 5 | 1 0 | 175 | 21.96 | ... |
| D Grimsby (Abbey Road) | W. J. Wood, Esq., C.E. | 5 | 3 0 | 23 | 19.50 | 176 |
| " " | Great Central Rly. Co.. | 9 | 15 0 | 42 | 16.65 | ... |
| Barnetby | " " " " | 9 | 3 6 | 51 | 22.17 | 147 |
| D Brocklesby Park | Mr. F. C. Stainsby | 5 | 2 0 | 108 T | 23.36 | 191 |
| D N. Level Engine [Thorne] | Messrs. Baxter & Co.... | 5 | 2 3 | ... | 19.69 | 156 |
| Crowle (Keadby) | Great Central Rly. Co. | 9 | ... | 17 | 19.20 | 150 |
| D Burton on Stather Vicarage | Rev. F. A. Jarvis | 5 | 0 6 | 212 T | 20.48 | 162 |
| D Thornton Curtis | Rev. C. B. Goodacre ... | 8 | 1 4 | 66 | 20.33 | 188 |
| D Horkstow | E. J. Turton, Esq. | 5 | 0 10 | 75 T | 22.47 | 174 |
| Ferriby Sluice | A. Atkinson, Esq., C.E. | 5 | 1 0 | 18 T | 20.42 | 186 |
| New Holland | Great Central Rly. Co.. | 9 | 3 6 | 18 | 20.95 | 168 |
| NOTTINGHAMSHIRE. | | | | | | |
| D Sutton Bonnington | Dr. B. Stracey | 5 | 1 0 | 120 T | 21.06 | 180 |
| D Kingston (Midland Agric. Inst.).. | F. Wakerley, Esq. ... | 5 | 1 0 | 126 T | 21.34 | 181 |
| D " Hall | Mr. W. H. Cooke | 5 | 0 9 | 130 | 24.81 | 186 |
| D Plumtree (Normanton-on-Wolds) | T. A. Hill, Esq. | 8 | 1 0 | 170 T | 19.82 | 186 |
| D Nottingham (Wilford Hill Res.) | F. W. Davies, Esq. ... | 8 | 0 11 | 296 T | 20.57 | 213 |
| Cropwell Bishop (Cropwell Grove) | H. Smith, jun., Esq. | 5 | 1 1 | 160 T | 19.56 | ... |
| Bingham (Whatton Manor) | Capt. M. H. Hall | 5 | 3 0 | 104 T | 20.26 | 174 |
| D Nottingham (Beeston Fields) ... | G. Fellows, Esq. | 5 | 0 9 | 206 T | 25.54 | 185 |

* 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 -01 or more recorded. |
|-----------------------------------|--------------------------|-------------|----------------------|------------------------|----------------|---------------------------------|
| | | Diameter | Height Above Ground. | Height Above Sea Level | 1908 | |
| | | in. | ft. in. | feet. | inches. | |
| NOTTINGHAMSHIRE—(con.) | | | | | | |
| Nottingham (Trent Lane) ... (R) | A. Brown, Esq., C.E.... | 8 | 0 10 | 85 T | 20·50 | 171 |
| " (The Castle) | " " " | 8 | 1 2 | 192 T | 22·70 | 194 |
| " { " } | " " " | 8 | 76 0 | 268 T | 20·91 | 171 |
| " (Carisbrook Ho., The Park) | W. Bradshaw, Esq. | 5 | 2 0 | 247 T | 23·19 | 199 |
| Radcliffe-on-Trent | T. Yates, Esq. | 5 | 1 0 | ... | 21·71 | ... |
| " Nottingham (Stoke Bardolph) ... | A. A. Avis, Esq. | 8 | 1 0 | 66 T | 20·56 | 168 |
| " (Strelley) | T. L. K. Edge, Esq. | 8 | 1 0 | 396 T | 24·51 | 195 |
| " { " Hall) | " " " | 5 | 1 0 | 379 T | 23·77 | 189 |
| " { " ") | " " " | 5 | 1 0 | 378 T | 23·77 | 193 |
| " { " ") ... M | " " " | 5 | 1 0 | 379 T | 24·12 | ... |
| " (Mapperley Hill) ... | E. Powell, Esq. | 8 | 1 0 | 400 T | 24·31 | 181 |
| Bagthorpe (Isolation Hospital)... | P. Boobyer, Esq., M.D. | 8 | 1 0 | 189 T | 24·27 | 199 |
| " Nottingham (Basford W.W.) ... | F. W. Davies, Esq. | 8 | 1 0 | 169 T | 22·96 | 192 |
| " (Burton Joyce W.W.) ... | A. Brown, Esq., "C.E..." | 8 | 0 9 | 64 T | 21·69 | 186 |
| Bulcote (Corporation Farm)..... | Mr. J. D. Pearson | 10 | 1 3 | 65 T | 19·31 | 167 |
| Lowdham (Chilwell Nurseries)... | Rev. R. Holden | 5 | 5 6 | 90 | 17·48 | ... |
| Bulwell (Nuttall Rectory) | F. W. Davies, Esq. | 5 | 0 10 | 292 T | 24·60 | 169 |
| " (Watnall Reservoir) ... | G. W. Walker, Esq. | 8 | 0 11 | 472 T | 26·53 | 218 |
| " (Springfield)..... | F. W. Davies, Esq. | 5 | 0 9 | 166 T | 23·80 | ... |
| " (Bestwood) | F. W. Davies, Esq. | 8 | 1 2 | 317 T | 25·07 | 189 |
| " Daybrook (Ramsdale Hill Res.). | J. W. Fryar, Esq. | 8 | 0 10 | 495 T | 25·25 | 213 |
| " Eastwood Colliery | J. D. Walker, Esq. | 5 | 1 0 | 245 T | 25·14 | 194 |
| " Hucknall Torkard (Forge Mills) | F. W. Davies, Esq. | 5 | 4 3 | 200 ? | 22·81 | 145 |
| " Papplewick (Water Works) | Messrs G. & F. W. Hodson | 8 | 0 10 | 317 T | 23·36 | 189 |
| " Annesley (Selston W.W.)..... | General W. E. Warrand | 5 | 1 0 | 475 T | 22·45 | 159 |
| " Southwell (Westhorpe Hall) ... | Dr. H. Handford | 5 | 1 0 | 147 T | 22·99 | ... |
| " (Elmfield) | Mr. J. Mountney | 5 | 1 0 | 131 T | 21·10 | 197 |
| Newark Castle Gardens..... | Dr. C. Wills | 5 | 0 8 | 63 T | 19·29 | ... |
| " Farnsfield | Messrs G. & F. W. Hodson | 5 | 1 0 | 210 T | 22·05 | 187 |
| " Sutton-in-Ashfield W.W. | " " " | 5 | 1 1 | 462 T | 24·34 | 178 |
| " Mansfield (W.W. Rainworth) ... | W. Hollins, Esq. | 5 | 1 0 | 360 T | 24·98 | 151 |
| " (Berry Hill) | A. Brown, Esq., C.E.... | 5 | 1 0 | 528 T | 28·26 | 195 |
| " | W. Pickard, Esq. | 5 | 1 0 | 420 | 29·35 | 210 |
| " (West Bank) | E. Turton, Esq. | 8 | 1 0 | 405 T | 26·44 | 223 |
| " North Collingham | Messrs G. & F. W. Hodson | 5 | 1 0 | 28 T | 21·29 | 209 |
| " Clipstone Waterworks | F. W. Davies, Esq. | 5 | 1 0 | 236 T | 25·02 | ... |
| " Ollerton (Boughton W.W.)..... | Mr. A. Simmons | 8 | 0 7 | 141 T | 21·85 | 178 |
| " (Thoresby Gardens) ... | A. P. Elliott, Esq. | 8 | 0 9 | 125 T | 23·53 | 168 |
| Clumber Gardens | Great Central Rly. Co.. | 5 | 4 0 | 164 T | 22·28 | ... |
| Workshop | Mr. J. B. Allan | 9 | 3 6 | 127 | 21·67 | 177 |
| " (Osberton Gardens) ... | Great Central Rly. Co.. | 5 | 3 6 | 70 | 20·19 | 157 |
| Retford | W. H. Mason, Esq. | 9 | 3 6 | 52 | 18·57 | 169 |
| " (Morton Hall) | Col. H. Denison | 5 | 1 0 | 140 T | 20·04 | 176 |
| " (Babworth Hall) | R. C. Ramsden, Esq. | 5 | 1 0 | 92 T | 19·63 | ... |
| " Worksop (Wigthorpe Hill) | Lt.-Col. H. Mellish ... | 5 | 1 0 | 100 | 21·45 | 180 |
| " (Hodsock Priory) | " " " | 8 | 1 0 | 56 T | 20·38 | 179 |
| " { " " } ... M | " " " | 5 | 1 0 | 56 T | 20·03 | ... |

DIVISION VII.—NORTH MIDLAND COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | | Depth of Rain. | Days with .01 or more recorded. |
|---|--------------------------|-------------|----------------------|-----|------------------------|----------------|---------------------------------|
| | | Diameter | Height Above Ground. | | Height Above Sea Level | 1908 | |
| | | in. | ft. | in. | feet. | inches. | |
| NOTTINGHAMSHIRE—(con.) | | | | | | | |
| † Worksop (Hodsock Priory) ... (R) | Lt.-Col. H. Mellish ... | 11 | 1 | 0 | 56 | 20.40 | 172 |
| d The Gardens [Bawtry Hall]..... | Mr. F. Hogbin | 5 | 1 | 3 | 31 | 20.23 | 145 |
| Stockwith | Great Central Rly. Co. | 9 | 3 | 6 | 21 | 19.25 | 192 |
| d§ Bawtry (Hesley Hall) | B. I. Whitaker, Esq.... | 8 | 0 | 11 | 61 | 19.64 | 171 |
| DERBYSHIRE. | | | | | | | |
| d Melbourne (The Hollow) | Mr. W. Garratt | 5 | 1 | 0 | 182 | 23.24 | 144 |
| d Chellaston | H. Chambers, Esq..... | 5 | 1 | 0 | 170 | 23.08 | 181 |
| Willington (W.W. Milton)..... | Messrs G. & F. W. Hodson | 5 | 1 | 0 | 134 | 22.43 | ... |
| Findern (The Longlands)..... | A. Brown, Esq., C.E... | 5 | 0 | 9 | 186 | 23.11 | 146 |
| Etwall (Blakeley Lodge) | Mr. R. Giles | 5 | 1 | 0 | 190 | 24.46 | ... |
| Mickleover (County Asylum) ... | R. Legge, Esq., M.D... | 5 | 3 | 0 | 300 | 24.07 | 141 |
| d „ „ Manor..... | Mr. J. Campbell | 5 | 2 | 0 | 280 | 26.33 | 170 |
| d Derby (Wild Street)..... | Messrs. J. Davis & Son | 5 | 1 | 0 | 174 | 26.51 | 193 |
| d† „ (Midland Railway)..... | J. Sayers, Esq. | 5 | 1 | 5 | 156 | 23.63 | 187 |
| d§ „ (Royal Infirmary) | E. Forster, Esq..... | 5 | 1 | 0 | 195 | 23.49 | 180 |
| d „ (Arboretum) | J. Ward, Esq., C.E. ... | 8 | 1 | 0 | 196 | 25.59 | 193 |
| d „ (Duffield Road) | Dr. W. G. Copestake... | 5 | 8 | 0 | 184 | 23.34 | 177 |
| „ | | | | | | | |

DIVISION VII.—NORTH MIDLAND COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with ≥ 0.1 or more recorded. |
|--|---------------------------|-------------|---------------------|------------------------|------------------------|--|
| | | Diameter | Height Above Ground | Height Above Sea Level | | |
| | | in. | ft. in. | feet. | inches. | |
| DERBYSHIRE—(con.) | | | | | | |
| Chesterfield (Sewage Works) ... | Mr. W. Tomlinson..... | 5 | 2 0 | 222 | 20.95 | ... |
| D „ (Linacre Reservoir) | Chesterfield Corporation | 8 | 1 0 | 490 | 27.77 | 174 |
| „ (Tapton Grove)..... | Mr. W. R. Bloxham ... | 5 | 4 3 | 400 | 22.74 | ... |
| D§ Buxton (Devonshire Hospital)... | F. T. Kieldsen, Esq. ... | 5 | 1 0 | 988 ∇ | 41.99 | 218 |
| D „ (Portobello Bar) | W. H. Grieves, Esq. C.E. | 8 | 1 0 | 1600 ∇ | 54.97 | 254 |
| D „ (Stanley Moor) | „ „ „ | 8 | 1 0 | 1340 ∇ | 51.23 | 247 |
| D „ (Burbage Edge) | „ „ „ | 8 | 1 0 | 1400 ∇ | 53.53 | 253 |
| D Holmesfield (Barbrook Reservoir) | Gilbert Frith, Esq., C.E. | 8 | 1 0 | 1080 | 27.87 | 191 |
| D Eyam (The Rectory) | Rev. F. L. Shaw | 5 | 1 0 | 856 ∇ | 35.41 | 210 |
| D „ (Eyam View) | Mr. P. Thorpe..... | 5 | 1 0 | 945 | 35.62 | 205 |
| Comb's Moss | Great Central Rly. Co.. | 9 | 3 6 | 1669 ∇ | 31.34 | ... |
| „ Reservoir | „ „ „ | 9 | 3 6 | 710 ∇ | 34.24 | 238 |
| Chapel-en-le-Frith | „ „ „ | 9 | 3 6 | 965 ∇ | 35.61 | 218 |
| D Totley Hall..... | W. A. Milner, Esq. ... | 5 | 1 0 | 700 | 32.89 | 173 |
| Killamarsh (Norwood) | Great Central Rly. Co.. | 9 | 3 6 | 226 ∇ | 21.58 | 203 |
| D† Norton..... | Col. N. Creswick, C.B.. | 5 | 0 6 | 700 ∇ | 27.63 | 191 |
| Grindleford (Grouse Inn) No. 58 | E. Sandeman, Esq., C.E. | 5 | 1 0 | 990 | 32.56 | 173 |
| Hathersage | No. 57 „ „ „ | 5 | 1 0 | 525 | 28.95 | 183 |
| Bamford | No. 60 „ „ „ | 8 | 0 10 | 508 ∇ | 31.50 | 183 |
| D „ | No. 36 „ „ „ | 8 | 1 0 | 680 | 35.20 | 237 |
| Castleton | No. 55 „ „ „ | 5 | 1 0 | 625 | 41.75 | 202 |
| Hope School..... | No. 56 „ „ „ | 5 | 1 0 | 545 | 37.58 | 222 |
| Edale (Dale Head) | No. 54 „ „ „ | 5 | 1 0 | 1015 | 47.91 | 213 |
| „ (Upper Booth) | No. 53 „ „ „ | 5 | 1 0 | 910 | 44.37 | 199 |
| Bamford (Yorkshire Bridge Weir) No. 59 | „ „ „ | 5 | 1 0 | 540 | 35.88 | 223 |
| Ashopton (Win Hill) | No. 34 „ „ „ | 5 | 1 0 | 1240 | 36.92 | ... |
| „ (Cockbridge Farm) No. 33 | „ „ „ | 5 | 1 0 | 620 | 39.72 | 192 |
| „ (Wooler Knoll) No. 52 | „ „ „ | 5 | 1 0 | 1080 | 39.85 | ... |
| „ Inn..... | No. 32 „ „ „ | 8 | 1 0 | 610 | 37.44 | 201 |
| „ Grimbo Carr... No. 51 | „ „ „ | 5 | 1 0 | 1100 | 32.41 | ... |
| „ (Cutthroat Brdg.) No. 31 | „ „ „ | 8 | 1 0 | 994 | 39.29 | ... |
| „ (Moscar Flat) ... No. 30 | „ „ „ | 8 | 1 0 | 1154 | 35.37 | ... |
| Derwent Bridge End | No. 28 „ „ „ | 5 | 1 0 | 624 | 40.31 | 212 |
| „ Dam..... | No. 26 „ „ „ | 5 | 1 0 | 790 | 39.45 | 209 |
| Ashopton (Haglee) | No. 50 „ „ „ | 8 | 1 0 | 783 | 36.96 | 218 |
| Blackdean Moor (Crookstone) 49 | „ „ „ | 5 | 1 0 | 1460 | 45.80 | ... |
| Derwent (Lockerbrook Fm.) No. 27a | „ „ „ | 5 | 1 0 | 1120 | 44.80 | 222 |
| Woodland Dale (Woodlands, S.) 48 | „ „ „ | 5 | 1 0 | 1044 | 41.27 | 208 |
| „ „ „ (N.) 47 | „ „ „ | 8 | 1 0 | 1063 | 42.67 | 208 |
| The Peak (Fairbrook)..... | No. 46 „ „ „ | 5 | 1 0 | 1009 | 53.53 | 213 |
| „ (Nungrain)..... | No. 45 „ „ „ | 5 | 1 0 | 1320 | 53.04 | ... |
| Hayfield (Ashop Head) ... | No. 43 „ „ „ | 5 | 1 0 | 1650 | 42.83 | ... |
| Woodland Dale (Rowlee) No. 24 | „ „ „ | 5 | 1 0 | 1540 | 42.60 | ... |
| Derwent Dale (Walker Ho.) No. 22 | „ „ „ | 8 | 1 0 | 758 | 42.51 | 224 |
| Alport Dale (Alport Castles) No. 42 | „ „ „ | 5 | 1 0 | 955 | 47.71 | 185 |
| Featherbed Moss (Redgate Clough) 44 | „ „ „ | 5 | 1 0 | 1730 | 44.40 | ... |
| Derwent Dale (Birchinlee) No. 23 | „ „ „ | 5 | 1 0 | 870 | 45.46 | 230 |
| Birchinlee Moor (Cote Ridge) No. 18 | „ „ „ | 5 | 1 0 | 1440 | 39.71 | ... |

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K/

DIVISION VII.—NORTH MIDLAND COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | | Depth of Rain. | Days with .01 or more recorded. |
|--|-------------------------|-------------|---------------------|-----|------------------------|----------------|---------------------------------|
| | | Diameter | Height Above Ground | | Height Above Sea Level | 1908 | |
| | | in. | ft. | in. | feet. | inches. | |
| DERBYSHIRE—(con.) | | | | | | | |
| Lady Clough Moor No. 41 | E. Sandeman, Esq., C.E. | 5 | 1 | 0 | 1720 | 41.40 | ... |
| Coldharbour Moor (Summit) No. 39 | „ „ „ | 8 | 1 | 0 | 1670 | 42.19 | ... |
| Derwent Dale (Howden Dam) 17 | „ „ „ | 8 | 1 | 0 | 829 | 42.50 | 214 |
| „ „ (Banktop Hey) 16 | „ „ „ | 8 | 1 | 0 | 1340 | 46.98 | ... |
| „ „ (Ridge Farm) ... 13 | „ „ „ | 5 | 1 | 0 | 1175 | 38.05 | 244 |
| Alport Moor (Glethering Clough) ... 40 | „ „ „ | 5 | 1 | 0 | 1640 | 42.90 | ... |
| Westend Moor (Blacklow Cote) 15 | „ „ „ | 5 | 1 | 0 | 970 | 44.08 | ... |
| „ „ No. 10 | „ „ „ | 5 | 1 | 0 | 1560 | 40.80 | ... |
| Alport Moor No. 38 | „ „ „ | 5 | 1 | 0 | 1790 | 41.70 | ... |
| Derwent Dale (Black Dyke) No. 12 | „ „ „ | 5 | 1 | 0 | 1546 | 46.35 | ... |
| „ „ (Cranberry Clough) 6 | „ „ „ | 8 | 1 | 0 | 960 | 47.34 | ... |
| „ „ (Mosley Bank) No. 5 | „ „ „ | 8 | 1 | 0 | 1350 | 46.40 | ... |
| Ridgewalk Moor No. 9 | „ „ „ | 5 | 1 | 0 | 1650 | 42.02 | ... |
| Bleaklow Stones No. 8 | „ „ „ | 5 | 1 | 0 | 2060 | 57.60 | ... |
| Derwent Dale (Roundhill) No. 4 | „ „ „ | 5 | 1 | 0 | 1675 | 45.20 | ... |
| d Glossop (W.W., Swineshaw) ... | Mr. J. Garner | 12 | 4 | 0 | 733 π | 37.65 | 214 |
| Woodhead Station..... | Great Central Rly. Co.. | 9 | 3 | 6 | 878 π | 43.88 | 217 |

DIVISION VIII.—NORTH WESTERN COUNTIES.

CHESHIRE.

| | | | | | | | |
|------------------------------------|--------------------------|---|---|----|------------|-------|-----|
| d Audlem Vicarage | Rev. H. S. Cotton | 5 | 1 | 6 | 200 | 32.71 | 175 |
| d Baddiley (Nantwich W. W.) ... | Baldwin Latham Esq. CE | 5 | 1 | 0 | 231 π | 31.24 | 204 |
| d Nantwich (Dorfold Hall) | J. A. Saner, Esq., C.E. | 8 | 1 | 0 | 190 π | 31.59 | 192 |
| d „ (Reaseheath Hall) ... | „ „ „ | 8 | 1 | 0 | 130 π | 32.61 | 182 |
| d Aldford | Miss M. Meredith | 5 | 1 | 1 | 46 π | 29.71 | 231 |
| d Eaton Hall Gardens | Mr. N. F. Barnes | 6 | 3 | 0 | 72 π | 32.91 | 190 |
| d Sandbach (Malkins Bank) | Mssrs Brunner Mond & Co | 5 | 3 | 8 | 244 π | 25.11 | 180 |
| Eccleston | E. Wells, Esq. | 5 | 1 | 1 | 94 π | 30.42 | 170 |
| d Tarporley (Summer Hill) | Col. J. H. Hamersley... | 5 | 1 | 0 | 370 π | 31.94 | 166 |
| d Congleton (Sewage Works) | Randle Burslam Esq. CE | 5 | 1 | 0 | 248 π | 25.87 | 164 |
| d „ (Park Lane)..... | Rev. W. Besant..... | 8 | 0 | 10 | 422 π | 27.03 | 161 |
| d „ (Buglawton Vicarage) | J. A. Saner, Esq. | 8 | 5 | 0 | 347 | 27.91 | 190 |
| Bosley Reservoir | Great Central Rly. Co.. | 9 | 3 | 6 | 590 π | 28.12 | 193 |
| „ Minns | „ „ „ | 9 | 3 | 6 | 1210 π | 30.25 | 222 |
| d Tarporley (Willington Hall)..... | J. Tomkinson, Esq., M.P. | 5 | 1 | 0 | 220 | 32.25 | 197 |
| d Chester (Sewerage Works) | W. D. Scouller, Esq.... | 5 | 1 | 0 | 34 π | 27.76 | 175 |
| § „ (Hawarden Bridge)..... | Meteorological Office... | 8 | 1 | 0 | 20 | 27.89 | 195 |
| d „ (Christleton Hall) | Mr. J. Weaver | 5 | 1 | 2 | 142 π | 29.58 | 200 |
| „ (Water Works) | A. Bell, Esq. | 5 | 0 | 10 | 85 π | 28.28 | 196 |
| „ (Northgate Station)..... | Great Central Rly. Co.. | 9 | 3 | 6 | 84 π | 27.05 | 145 |
| d Middlewich..... | Mssrs Brunner Mond & Co | 5 | 3 | 10 | 138 π | 26.62 | 182 |
| „ (Bostock Hall) | Col. France Hayhurst.. | 5 | 2 | 6 | 157 π | 30.49 | ... |
| d Macclesfield (The Park) | Mr. J. Dale..... | 5 | 1 | 0 | 501 π | 32.89 | 186 |
| „ | Great Central Rly. Co.. | 9 | 3 | 6 | 539 | 31.04 | 159 |
| d Chelford (Astle Hall) | G. Dixon, Esq. | 5 | 1 | 0 | 250 π | 28.20 | 155 |

to W. Yorks

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | | Depth of Rain. | Days with 10 or more recorded. |
|---------------------------------------|--------------------------|-------------|---------------------|-----|------------------------|----------------|--------------------------------|
| | | Diameter | Height Above Ground | | Height Above Sea Level | 1908 | |
| | | in. | ft. | in. | feet. | inches. | |
| CHESHIRE—(con.) | | | | | | | |
| Chelford (Astle Hall) | M G. Dixon, Esq. | 8 | 1 | 0 | 250 T | 27·02 | ... |
| Northwich | Great Central Rly. Co. | 9 | 3 | 6 | 76 T | 24·13 | 159 |
| D§ „ (Highfield) <i>Snowdon</i> | J. A. Saner, Esq., C.E.. | 8 | 1 | 0 | 116 T | 31·25 | 200 |
| D „ (Winnington) | Mssrs Brunner Mond & Co | 5 | 3 | 8 | 80 T | 29·75 | 191 |
| D „ (Lostock Gralam) ... | „ „ „ „ | 5 | 3 | 6 | 75 T | 29·66 | 204 |
| D Macclesfield (Swanscoe Park) ... | T. C. Horsfall, Esq. ... | 5 | 1 | 0 | 676 T | 35·81 | 226 |
| Hooton Pumping Station | P. H. Bettle, Esq. | 5 | 1 | 0 | 97 T | 30·23 | ... |
| D Neston (Hinderton Lodge) | Miss L. H. Bushell ... | 5 | 1 | 0 | 145 T | 28·80 | 174 |
| Bollington (Sponds Hill) | Great Central Rly. Co.. | 9 | 3 | 6 | 1279 T | 29·02 | ... |
| D Eastham House | J. H. Vernon, Esq. ... | 5 | 1 | 0 | 100 T | 29·60 | 188 |
| Wilmslow (Parksyde) | E. Pearson, Esq. | 8 | 1 | 0 | 253 T | 27·75 | 158 |
| Whaley Bridge | Great Central Rly. Co.. | 9 | 3 | 6 | 602 T | 39·24 | 210 |
| D Handforth | A. Brothers, Esq. | 5 | 1 | 6 | 260 T | 31·83 | 160 |
| D Disley (Lyne Park).....No. 1 | T. Molyneux, Esq..... | 9 | 3 | 8 | 720 T | 40·02 | 176 |
| D „ („ „).....No. 2 | „ „ „ „ | 12 | 2 | 9 | 674 T | 34·14 | 176 |
| D Runcorn (Weston Point) | J. A. Saner, Esq., C.E. | 8 | 1 | 4 | 17 T | 31·46 | 184 |
| Wirral W.W. (Prenton) | P. H. Bettle, Esq. | 5 | 1 | 0 | 91 T | 28·86 | 177 |
| D West Kirby (Greenfield) | H. Bell, Esq. | 5 | 1 | 0 | 75 T | 28·37 | 182 |
| Altrincham (Norman's Place)..... | A. Griffiths, Esq. | 5 | 8 | 0 | 150 T | 31·96 | 150 |
| „ (Barrington House). | C. E. Newton, Esq., C.E. | 8 | 2 | 6 | 103 | 31·20 | ... |
| D§ Hoylake (District Council Office) | T. Robinson, Esq. | 5 | 1 | 0 | 33 T | 28·34 | 182 |
| § Birkenhead (Bidston Observatory) | W. E. Plummer, Esq.. | 8 | 1 | 0 | 189 T | 28·90 | 190 |
| Cheadle (Adswold) | R. W. Wright, Esq. ... | 5 | 0 | 0 | 180 | 39·99 | ... |
| D Northenden (Wythenshawe)..... | T. E. Tatton, Esq. ... | 5 | 1 | 0 | 114 T | 31·05 | 202 |
| „ („ „).....M | „ „ „ „ | 8 | 1 | 0 | 114 T | 29·62 | ... |
| Marple Top Lock | Great Central Rly. Co.. | 9 | 3 | 6 | 523 T | 32·56 | 167 |
| „ Aqueduct | „ „ „ „ | 9 | 3 | 6 | 321 T | 34·11 | 201 |
| D Stockport | Dr. H. E. Corbin | 5 | 1 | 0 | 186 T | 34·23 | 206 |
| D New Brighton (Rutland House).. | W. Bell, Esq. | 5 | 0 | 11 | 130 B | 31·89 | 180 |
| Godley Reservoir | G. H. Hill, Esq., C.E.. | 12 | 2 | 0 | 500 | 32·19 | ... |
| Newton | Great Central Rly. Co.. | 9 | 3 | 6 | 396 T | 33·30 | 180 |
| Mottram Station | „ „ „ „ | 9 | 3 | 6 | 452 T | 33·56 | 184 |
| D Broadbottom (Harewood Lodge). | Col. Sidebottom | 5 | 1 | 0 | 440 | 33·38 | 180 |
| Dukinfield (Higher Reservoir)... | F. J. Dixon, Esq., C.E. | 8 | 1 | 6 | 496 T | 30·70 | ... |
| „ (Lower „ „)..... | „ „ „ „ | 5 | 1 | 0 | 433 T | 31·55 | ... |
| D Hadfield (Millbrook House)..... | Mr. S. H. Doxon | 8 | 3 | 10 | 442 T | 36·20 | 203 |
| „ („ „ „)..... | „ „ „ „ | 12 | 4 | 0 | 442 T | 36·85 | 203 |
| Arnfield Reservoir..... | G. H. Hill, Esq., C.E.. | 12 | 2 | 6 | 550 | 36·13 | ... |
| Rhodes Wood Reservoir | „ „ „ „ | 12 | 1 | 0 | 520 | 39·18 | ... |
| Torrside Reservoir | „ „ „ „ | 12 | 1 | 6 | 680 | 41·25 | ... |
| D Staleybridge (Swineshaw)..... | F. J. Dixon, Esq., C.E. | 7 | 1 | 0 | 884 T | 45·46 | 177 |
| Woodhead Reservoir | G. H. Hill, Esq., C.E.. | 12 | 0 | 10 | 660 | 41·91 | ... |
| SOUTH LANCASHIRE. | | | | | | | |
| D Garston (Grassendale Park)..... | Miss E. C. Abraham ... | 5 | 1 | 0 | 35 T | 29·20 | 176 |
| D Aigburth (Holmfield) | Miss Maxwell | 5 | 1 | 0 | 100 T | 31·99 | 202 |
| D Woolton (Roseleigh Gardens) ... | Mr. J. Stoney | 8 | 1 | 0 | 180 | 34·05 | 197 |

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 | 1908 | |
| | | in. | ft. in. | feet. | inches. | |
| SOUTH LANCASHIRE—(con.) | | | | | | |
| d Warrington (Howley Yard) | T. Longdin, Esq. | 10 | 0 10 | 19 π | 31.87 | 190 |
| „ (Central Station) ... | Great Central Rly. Co.. | 9 | 3 6 | 59 π | 28.24 | ... |
| Liverpool (Monument Place) ... | J. A. Brodie, Esq., C.E. | 5 | 1 3 | 126 π | 31.79 | 180 |
| d „ „ „ „ (R) „ „ „ „ | „ „ „ „ | 10 | 4 6 | 129 π | 31.57 | 177 |
| „ (Smithdown Road) ... | „ „ „ „ | 10 | 0 9 | 135 π | 32.45 | 186 |
| „ (Rathbone Road) | „ „ „ „ | 10 | 1 0 | 199 π | 34.77 | 201 |
| d „ (Huyton Vicarage) ... | Mrs. E. M. Sanderson.. | 5 | 0 11 | 116 π | 35.11 | 204 |
| d „ (Knotty Ash) | W. M. Reade, Esq. ... | 5 | 1 0 | 100 | 32.66 | 202 |
| „ (Newsham Park) | J. A. Brodie, Esq., C.E. | 10 | 1 0 | 140 π | 33.50 | 200 |
| „ (Breeze Lane) | „ „ „ „ | 5 | 0 9 | 135 π | 35.78 | 193 |
| „ (Huskisson Station) ... | Great Central Rly. Co. | 9 | 3 6 | 40 π | 32.72 | 176 |
| d Heaton Mersey [Stockport] | W. B. Leigh, Esq. | 5 | 3 11 | 218 π | 30.23 | 186 |
| d Heaton Moor [„ „] | F. W. Jordan, Esq., M.D. | 5 | 1 0 | 235 | 32.16 | 168 |
| d West Derby (Croxteth Hall) ... | Mr. J. Gibbins | 5 | 1 0 | 79 π | 32.88 | 173 |
| d† Withington (Palatine Road) ... | L. G. King, Esq. | 8 | 1 6 | 110 π | 30.99 | 193 |
| d Flixton (Shawdon) | J. T. Warren, Esq. ... | 5 | 1 0 | 75 π | 29.76 | 182 |
| d Urmston Sewage Works | Mr. A. B. Ogden | 8 | 2 3 | 72 π | 29.71 | 165 |
| d Withington (Chorlton-c-Hardy Sew. Wks.) | G. F. Walter, Esq. ... | 8 | 4 0 | 76 π | 29.44 | 206 |
| d „ „ „ „ „ „ „ „ | J. H. Casartelli, Esq. | 5 | 2 0 | 75 | 29.43 | 172 |
| „ „ (Lady Barn, Fallowfield) .. | R. H. Rees, Esq. | 5 | 1 0 | 122 π | 29.14 | 165 |
| d St. Helen's (Eccleston Hill) | J. J. Lackland, Esq., C.E. | 12 | 2 9 | 268 π | 32.46 | 170 |
| d Earlestown (Newton Cemetery) .. | T. Ormand, Esq. | 5 | 1 0 | 75 π | 36.80 | 151 |
| Denton Reservoir | G. H. Hill, Esq., C.E.. | 12 | 2 0 | 324 π | 28.42 | ... |
| Gorton | „ „ „ „ | 12 | 2 0 | 263 π | 29.22 | ... |
| Manchester „ (Piccadilly) | Great Central Rly. Co.. | 9 | 40 0 | 194 π | 29.56 | 185 |
| „ „ (Fairfield) | „ „ „ „ | 9 | 6 0 | 312 π | 30.42 | 194 |
| d „ „ (Sackville Street) (R) .. | G. F. Walter, Esq. ... | 8 | 3 2 | 118 π | 26.42? | 166 |
| d† „ „ (Oldham Road) | Dr. J. Niven | 5 | 1 0 | 191 π | 32.46 | 182 |
| † „ „ (Whitworth Park) ... | Meteorological Office... | 8 | 1 5 | 126 | 28.23 | 185 |
| Eccles (Worsley New Hall) | Mr. W. B. Upjohn ... | 8 | 8 0 | 100 π | 31.70 | 159 |
| Blundellsands (Park Corner) ... | late T. M. Reade, Esq.. | 5 | 1 0 | 33 π | 30.83 | 192 |
| d Ashton-under-Lyne (Knott Hill Res.) | F. J. Dixon, Esq., C.E. | 8 | 1 3 | 600 π | 36.41 | 180 |
| „ „ „ „ (Waterhouses) .. | Great Central Rly. Co.. | 9 | 3 6 | 345 π | 32.61 | 188 |
| d§ Prestwich Asylum | F. Gore, Esq. | 8 | 1 0 | 295 | 37.72 | 213 |
| „ „ Reservoir | G. H. Hill, Esq., C.E.. | 12 | 2 0 | 356 π | 31.44 | ... |
| Oldham (Gas Works) | „ „ „ „ | 5 | 4 0 | 600 π | 36.03 | ... |
| d† „ „ (Alexandra Park) | Dr. J. B. Wilkinson ... | 8 | 1 0 | 600 | 39.58 | 203 |
| „ „ (Honeywell Lane) | Great Central Rly. Co.. | 8 | ... | 553 | 36.65 | 209 |
| „ „ (Brushes Clough) <i>old g.</i> | C. J. Batley, Esq., C.E. | 5 | 4 0 | 930 π | 42.03 | 203 |
| „ „ „ „ „ „ „ „ <i>new g.</i> | „ „ „ „ | 5 | 5 0 | 955 π | 42.60 | 203 |
| d Ormskirk (Aughton Springs) ... | C. E. Maples, Esq. ... | 5 | 1 0 | 138 π | 33.55 | 215 |
| d† Downholland (Barton Moss) | J. Baxendell, Esq. | 5 | 0 9 | 14 π | 31.22 | 195 |
| d† Bolton (Queen's Park) | T. Midgley, Esq. | 5 | 1 0 | 390 π | 44.46 | 214 |
| d† „ „ (Heaton Reservoir) | late R. H. Swindlehurst, Esq. ce | 5 | 1 0 | 500 | 44.24 | 228 |
| „ „ „ „ „ „ „ „ | „ „ „ „ | 5 | 1 0 | 500 | 41.21 | ... |
| d „ „ (Bloomfield, Heaton) ... | Mrs. F. Taylor | 5 | 1 0 | 530 π | 44.54 | 224 |
| d† „ „ (Smithills Hall) | Col. R. H. Ainsworth... | 8 | 1 2 | 510 π | 48.30 | 203 |

Miss M. S. Beard House School
by request 24. II. 10

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | | Depth of Rain.
1908 | Days with -01 or more recorded. |
|-------------------------------------|-------------------------------------|-------------|---------------------|-----|------------------------|------------------------|---------------------------------|
| | | Diameter | Height Above Ground | | Height Above Sea Level | | |
| | | in. | ft. | in. | feet. | inches. | |
| SOUTH LANCASHIRE—(con.) | | | | | | | |
| Bolton (Smithills Moor) | Col. R. H. Ainsworth... | 8 | 1 | 2 | 1375 | 53·96 | ... |
| D. Bury (Parsons Lane) | R. B. Rigby, Esq. | 8 | 9 | 8 | 316 T | 39·56 | 192 |
| † Milnrow (Piethorne, Kitcliffe)... | C. J. Batley, Esq., C.E. | 5 | 4 | 6 | 769 T | 40·25 | 214 |
| D† „ („ Coldgreave) | „ „ „ | 5 | 4 | 6 | 894 T | 35·71 | 197 |
| † „ („ Norman Hill) | „ „ „ | 5 | 4 | 6 | 1076 T | 33·83 | 197 |
| † „ („ Rooden Res.) | „ „ „ | 5 | 4 | 6 | 1131 T | 32·92 | 198 |
| D Rochdale (Deeplish Hill) | J. H. Lancashire, Esq. | 5 | 1 | 0 | 475 T | 38·40 | 196 |
| D† „ (Park Observatory) ... | Dr. A. G. Anderson ... | 8 | 0 | 6 | 472 | 41·27 | 190 |
| D „ (Fieldhead Yard) | S. S. Platt, Esq., C.E.. | 8 | 12 | 0 | 484 T | 37·61 | 184 |
| D „ („ „) ... (R) | „ „ „ | ... | 12 | 0 | 484 T | 38·15 | 183 |
| D† „ (Ashworth Moor) | J. S. Diggle, Esq., C.E. | 5 | 1 | 2 | 957 T | 43·17 | 211 |
| Bury (Gin Hall) | No. 1 J. Woodhead Smith, Esq., C.E. | 8 | 1 | 0 | 475 | 44·32 | 204 |
| „ („ „) | No. 2 „ „ „ | 8 | 1 | 0 | 475 | 44·16 | 204 |
| † Bolton (Belmont, Longworth) ... | late R. H. Swindlehurst, Esq. C.E. | 5 | 1 | 0 | 769 | 52·68 | 226 |
| D† „ („ „) | „ „ „ | 5 | 0 | 9 | 800 | 54·73 | 230 |
| † „ („ Hordern) ... M | „ „ „ | 5 | 1 | 0 | 1147 | 54·30 | ... |
| † „ („ Slater Lane) ... | „ „ „ | 5 | 1 | 0 | 981 | 53·26 | 227 |
| D Rochdale (Nayden Dean Filters). | J. S. Diggle, Esq., C.E. | 5 | 1 | 8 | 761 T | 44·83 | 196 |
| „ („ „) old g. | „ „ „ | 5 | 1 | 7 | 948 T | 39·07 | ... |
| „ („ „) new g. | „ „ „ | 5 | 1 | 4 | 948 T | 41·49 | ... |
| † Ramsbottom (Killgate Brook) M | „ „ „ | 5 | 1 | 0 | 978 T | 45·16 | ... |
| † „ (Cheesden Barn) M | „ „ „ | 5 | 1 | 0 | 997 T | 44·38 | ... |
| † „ (Shuttleworth Moss) M | „ „ „ | 5 | 0 | 11 | 1076 T | 44·35 | ... |
| „ (Higher Hill) ... M | „ „ „ | 5 | 1 | 0 | ... | 42·10 | ... |
| D Rochdale (Spring Mill Whitworth) | W. Tomlinson, Esq. ... | 8 | 1 | 7 | 720 | 49·64 | 210 |
| D „ (Cowm, „) | „ „ „ | 8 | 1 | 7 | 760 | 48·45 | 186 |
| D† Entwistle | late R. H. Swindlehurst, Esq. C.E. | 5 | 1 | 0 | 700 | 49·34 | 232 |
| † „ (Old Lyons) | M „ „ „ | 5 | 1 | 0 | 1260 | 50·07 | ... |
| † „ (Wayoh) | M „ „ „ | 5 | 1 | 0 | 613 | 51·88 | 254 |
| † „ (Broadhead) | „ „ „ | 5 | 1 | 0 | 886 | 51·18 | 254 |
| Littleborough (Hollingworth Lake) | Rochdale Canal Co.* | 8 | 1 | 5 | 600 | 35·18 | ... |
| „ (Windy Bank) | „ „ „ | 8 | 2 | 0 | 605 T | 37·15 | ... |
| † „ (Blackstone Edge). | „ „ „ | 8 | 2 | 0 | 1225 T | 29·15? | ... |
| „ (Canal Summit) ... | „ „ „ | 8 | 2 | 0 | 700 | 32·82 | ... |
| „ (Chelburn) | „ „ „ | 8 | 2 | 0 | 800 | 35·90 | ... |
| „ (Byron Edge) | „ „ „ | 8 | 1 | 5 | 1250 T | 38·04 | ... |
| „ (Lenches) | „ „ „ | 8 | 2 | 0 | 806 | 35·59 | ... |
| Walsden (Calf Lee) | „ „ „ | 10 | 1 | 6 | 960 | 37·94 | ... |
| „ (Warland Drain) | „ „ „ | 8 | 1 | 5 | 1250 T | 35·84 | ... |
| „ (Whiteholme Drain) ... | „ „ „ | 8 | 1 | 5 | 1250 T | 36·47 | ... |
| „ (Rishworth Drain) | „ „ „ | 8 | 1 | 5 | 1300 T | 35·58 | ... |
| Todmorden W.W. (Ramsden Moor) | W. Tomlinson, Esq. ... | 5 | 1 | 0 | 1326 T | 39·15 | ... |
| „ „ („ Res.) | „ „ „ | 8 | 1 | 0 | 980 T | 49·09 | 191 |
| Bacup (Britannia) | Miss M. A. Smith | 5 | 1 | 0 | 1107 T | 49·98 | ... |
| † Haslingden (Holden Wood) | J. Woodhead Smith, Esq., C.E. | 8 | 1 | 0 | 670 T | 50·93 | 204 |
| † „ (Calf Hey) | „ „ „ | 8 | 1 | 0 | 800 T | 48·36 | 204 |
| „ (Springfield Lodge) .. | John Stott, Esq. | 5 | 1 | 0 | 800 T | 48·21 | 197 |
| Rawtenstall Cemetery | J. Johnson, Esq., C.E.. | 8 | 1 | 0 | 572 | 46·04 | 192 |

* Returns supplied by C. R. Dykes, Esq.

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 | | 1908 |
| | | in | ft. | in. | feet. | inches. | |
| SOUTH LANCASHIRE—(con.) | | | | | | | |
| †Rawtenstall (Cloughbottom Res.) | J. Woodhead Smith, Esq., C.E. | 8 | 1 | 0 | 1025 | 46·01 | 215 |
| † „ (Hapton Reservoir).. | „ „ „ | 8 | 1 | 0 | 930 | 39·87 | 231 |
| CENTRAL LANCASHIRE. | | | | | | | |
| D Wigan Waterworks | W. Bolton, Esq..... | 8 | 1 | 6 | 225 | 36·18 | 218 |
| D „ (The Mariebonne) | H Nowell Harrington Esq | 5 | 1 | 0 | 150 | 37·43 | 208 |
| „ („ „) | „ „ „ | 5 | 1 | 0 | 150 | 36·44 | ... |
| Horwich (Wallsuches) | C. E. Barr, Esq.. | 5 | 1 | 0 | 655 | 33·31 | ... |
| D† „ (Lower Rivington) ... | J. Parry, Esq., C.E.... | 5 | 1 | 0 | 440 | 39·77 | 203 |
| † „ (Lower Knoll) | „ „ „ | 8 | 1 | 4 | 742 | 41·31 | ... |
| D „ (Wildersmoor) | Col. R. H. Ainsworth... | 8 | 1 | 2 | 1220 | 53·36 | 168 |
| †Rivington (Brown Hill) | J. Parry, Esq., C.E. ... | 8 | 1 | 4 | 843 | 40·57 | ... |
| D† „ (Stoneshouse) ...No. 1 | „ „ „ | 8 | 1 | 4 | 623 | 40·62 | 208 |
| † „ („) ...No. 2 | „ „ „ | 10 | 1 | 4 | 623 | 40·68 | ... |
| † „ (Hurst Hill)..... | „ „ „ | 8 | 1 | 10 | 1029 | 41·32 | ... |
| † „ (Great Hill)..... | „ „ „ | 8 | 1 | 8 | 1240 | 56·40 | ... |
| † „ (Coppice Stile)..... | „ „ „ | 8 | 1 | 8 | 879 | 37·34 | ... |
| † „ (Gamekeeper's) | „ „ „ | 8 | 0 | 8 | 850 | 44·07 | ... |
| † „ (Higher Hill) | „ „ „ | 8 | 1 | 4 | 733 | 32·87 | ... |
| Southport (Birkdale)..... | J. Baxendell, Esq..... | 5 | 1 | 0 | 27 | 32·46 | ... |
| D† „ (Hesketh Park) | „ „ „ | 5 | 1 | 0 | 38 | 32·23 | 186 |
| D† „ („ „) M.O.g. „ „ „ | „ „ „ | 8 | 1 | 0 | 38 | 32·49 | 198 |
| D† „ („ „) ... (R) „ „ „ | „ „ „ | 11 | 1 | 5 | 39 | 32·23 | 195 |
| † „ (Lord Street Station). | Great Central Rly. Co... | 9 | 3 | 6 | 21 | 29·34 | 176 |
| Haslingden (Mitchells House Res.) | C. Harrison, Esq. | 5 | 1 | 6 | 990 | 42·91 | 174 |
| D Darwen (Sunnyhurst Hey) | R. W. S. Saville, Esq.. | 8 | 1 | 8 | 915 | 44·09 | 213 |
| D „ (Earnsdale Reservoir)... | „ „ „ | 8 | 1 | 8 | 705 | 43·50 | 213 |
| § „ (Bold Venture Park) ... | Meteorological Office... | ... | ... | ... | 722 | 48·38 | 216 |
| „ (Hoddlesden) | W. Stubbs, Esq., C.E.. | 8 | 4 | 0 | 680 | 45·50 | 218 |
| „ („) | „ „ „ | 8 | 1 | 0 | 675 | 45·95 | 218 |
| † „ (Daisy Green) | „ „ „ | 8 | 1 | 0 | 969 | 42·76 | 218 |
| „ („) | „ „ „ | 8 | 1 | 0 | 969 | 42·95 | 218 |
| „ (Pickup Bank) | „ „ „ | 8 | 1 | 0 | 720 | 42·49 | 218 |
| „ („) | „ „ „ | 8 | 1 | 0 | 720 | 43·60 | 218 |
| Preston (Brindle Rectory) | Rev. J. Kinton Jacques | 5 | 1 | 8 | 380 | 42·25 | 154 |
| D „ (Walton-le-Dale W.W.) | T. W. Elliott, Esq. ... | 5 | 0 | 10 | 316 | 41·09 | 232 |
| †Blackburn (Guide Reservoir) ... | W. Stubbs, Esq., C.E.. | 8 | 1 | 0 | 650 | 38·17 | 208 |
| † „ (Witton) | „ „ „ | 8 | 2 | 6 | 315 | 40·67 | 196 |
| „ (Store Yard) | „ „ „ | 8 | 30 | 0 | 373 | 27·88 | 145 |
| „ (Water Works Office) | „ „ „ | 8 | 60 | 0 | 436 | 28·32 | 157 |
| † „ (Corporation Park)... | „ „ „ | 8 | 0 | 6 | 584 | 38·88 | 199 |
| † „ (Pumping Station) ... | „ „ „ | 8 | 6 | 0 | 600 | 39·23 | 200 |
| D Accrington (St. James's Vicarage) | Rev. A. Spencer | 8 | 1 | 6 | 475 | 39·08 | 206 |
| „ (Milnshaw Park)..... | Accrington Corporation | 5 | 1 | 6 | 464 | 36·55 | 162 |
| D Preston (Corporation Offices) ... | T. Cookson, Esq. | 8 | 18 | 7 | 148 | 36·11 | 183 |
| Blackburn (Samlesbury Sew Wks) | W. Stubbs, Esq., C.E. | 8 | ... | ... | 240 | 36·94 | 206 |
| †Causeway Side (Burnley W.W.) | W. Williamson, Esq.... | 8 | 2 | 0 | 1116 | 39·19 | ... |

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

| STATIONS. | AUTHORITIES: | Rain Gauge. | | | Depth of Rain.
1908 | Days with .01 or more recorded. |
|--|-------------------------------|-------------|----------------------|------------------------|------------------------|---------------------------------|
| | | Diameter | Height Above Ground. | Height Above Sea Level | | |
| | | in. | ft. in. | feet. | inches. | |
| CENTRAL LANCASHIRE—(con.) | | | | | | |
| †Shedding (Burnley W.W.) | W. Williamson, Esq.... | 8 | 2 0 | 960 | 39.56 | ... |
| †CantClough, S.Side(„ „) | „ „ „ | 8 | 2 0 | 900 | 40.19 | 209 |
| † „ „ N.Side(„ „) | „ „ „ | 8 | 2 0 | 900 | 39.23 | 207 |
| Rams Clough Head(„ „) | „ „ „ | 8 | 2 0 | 1260 | 39.54 | ... |
| Rishton Reservoir | Leeds & L'pool Canal Co. | ... | ... | 467 | 25.55 | ... |
| Huncoat (Burnley Road Res.) | C. Harrison, Esq. | 5 | 1 6 | 620 | 42.49 | 215 |
| d§ Burnley (Queen's Park) | Dr. Thomas Holt | 8 | 1 0 | 459 | 37.26 | 193 |
| „ (Yorkshire Street) | W. Williamson, Esq.... | 8 | 30 0 | 420 | 33.21 | 205 |
| † „ (Swinden)..... Upper g. | „ „ „ | 8 | 12 0 | 820 | 41.07 | 220 |
| † „ („)..... Lower g. | „ „ „ | 8 | 2 0 | 745 | 40.90 | 224 |
| † „ (Extwistle Moor Top)... | „ „ „ | 8 | 2 0 | 1310 | 41.38 | ... |
| d „ (Gawthorpe Hall) | Alfred Ford, Esq. | 8 | 1 3 | 316 | 39.00 | 215 |
| d Preston (Haighton) | Mssrs. Myres, Veevers & Myres | 5 | 1 2 | 255 | 38.19 | 173 |
| Alston Reservoir | T. Cookson, Esq. | 8 | 1 2 | 320 | 42.81 | ... |
| Worthdale (Watersheddles Res.) | W. Fowlds, Esq., C.E. | 5 | 1 0 | 1115 | 50.02 | ... |
| § Stonyhurst College | Rev. W. Sidgreaves, S.J. | 11 | 1 0 | 376 | 48.67 | 219 |
| d§ „ „ (R) | „ „ „ | 11 | 1 10 | 377 | 48.27 | 215 |
| § „ „ M | „ „ „ | 11 | 1 0 | 376 | 46.81 | ... |
| Knowle Green (Preston W.W.) M | T. Cookson, Esq. | 8 | 1 2 | 400 | 45.43 | ... |
| Loud-scales („ „) M | „ „ „ | 8 | 1 2 | 400 | 44.31 | ... |
| Spade Mill („ „) M | „ „ „ | 8 | 1 2 | 400 | 44.60 | ... |
| Jeffrey Hill („ „) M | „ „ „ | 8 | 1 2 | 900 | 52.94 | ... |
| C d Beaton Fell (Barnsford Res.) | Mssrs Myres, Veevers & Myres | 5 | 1 6 | 506 | 41.16 | 188 |
| „ „ („ „) | „ „ „ | 5 | 1 6 | 506 | 41.23 | ... |
| Barrowford Reservoir | Leeds & L'pool Canal Co. | 8 | 1 0 | 473 | 40.31 | ... |
| Foulridge (Canal Office) | „ „ „ | 8 | 1 0 | 497 | 43.60 | ... |
| „ (Cragg Nook Hill) .. | „ „ „ | 8 | 1 0 | 690 | 40.77 | ... |
| „ (Upper Reservoir) .. | „ „ „ | 8 | 1 0 | 582 | 39.41 | ... |
| Clitheroe (Low Moor) | W. Garnett, Esq. | 5 | 1 3 | 215 | 46.74 | ... |
| „ (Downham Hall) | R. C. Assheton, Esq.... | 10 | 1 6 | 464 | 45.89 | ... |
| d Chatburn (Middlewood) | W. K. Wilkinson, Esq. | 5 | 1 3 | 363 | 45.97 | 150 |
| NORTH LANCASHIRE. | | | | | | |
| d St. Anne's-on-the-Sea | Mr. W. E. Procter | 5 | 1 0 | 25 | 35.02 | 200 |
| Weeton | J. Cook, Esq., C.E. | 5 | 1 0 | 95 | 30.66 | ... |
| d Barton (Anderton Fold) | W. H. Mason, Esq. | 5 | 0 6 | 90 | 39.15 | 182 |
| d† Blackpool (Met. Observatory) ... | E. W. Rees Jones, Esq. M.D | 5 | 1 0 | 67 | 34.48 | 194 |
| d Poulton-le-Fylde (Singleton Pk.) | T. H. Miller, Esq. | 8 | 0 11 | 50 | 34.59 | 181 |
| d St. Michael's-on-Wyre Vicarage | Rev. P. J. Hornby | 5 | 1 0 | 25 | 37.37 | 205 |
| Rossall Beach | T. G. Benn, Esq. | 8 | 1 0 | 1 | 35.80 | 219 |
| d§ Fleetwood | M. S. Gaulter, Esq. | 5 | 1 4 | 45 | 38.91 | 167 |
| d Garstang (Bruna Hill) | Mrs. Wilson | 5 | 0 6 | 90 | 42.59 | 203 |
| „ (Holme Ho., Bleasdale) | A. Wilson, Esq..... | 5 | 1 0 | 650 | 59.28 | ... |
| „ (Fair Snape Fell) | „ „ „ | 5 | 1 0 | 1630 | 79.45 | ... |
| † „ (Barnacre Reservoir)... | J. Cook, Esq., C.E. | 5 | 1 0 | 617 | 47.44 | ... |
| † „ (Grizedale Reservoir) .. | „ „ „ | 5 | 1 0 | 519 | 45.55 | ... |
| † „ („ Stake House) | „ „ „ | 5 | 1 0 | 775 | 45.91 | ... |

Archdeacon

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 | 1908 | |
| | | | ft. | in. | feet. |  |  | inches. |
| NORTH LANCASHIRE—(con.) | | | | | | | |
| Pilling (Smallwood Hey) | Mr. J. H. Curwen | 5 | 0 | 9 | 12 T | 37.52 | ... |
| d Garstang (Forton) | J. H. Bonny, Esq. | 5 | 1 | 6 | 65 L | 38.57 | 201 |
| d Cockerham Vicarage | Rev. H. Prince | 5 | 0 | 6 | 100 T | 37.56 | 185 |
| Wyresdale (Abbeystead Res.) ... | J. C. Mount, Esq., C.E. | 8 | 1 | 0 | 366 T | 47.03 | 173 |
| d " (" Gardens) | Mr. T. Wyton | 8 | 0 | 6 | 420 | 52.54 | 194 |
| d Hampson-in-Ellel | W. G. Welch, Esq. ... | 5 | 1 | 6 | 145 T | 40.71 | 212 |
| Quernmore (Old Gauge Basin) M | J. C. Mount, Esq., C.E. | 8 | 1 | 0 | 963 T | 49.10 | ... |
| d Lancaster (Bailrigg) | H. L. Storey, Esq. | 5 | 1 | 3 | 200 | 40.79 | 209 |
| Wyresdale (Wardstone) | J. C. Mount, Esq., C.E. | 8 | 1 | 0 | 1440 T | 67.70 | ... |
| Quernmore (Brow Top) | " " " | 8 | 1 | 0 | 552 T | 41.20 | 187 |
| d Heysham House | Miss Tomlinson | 5 | 1 | 6 | 80 | 46.07 | 226 |
| d Lancaster (Strathspey) | A. B. S. Welch, Esq. ... | 5 | 1 | 0 | 85 | 41.49 | 230 |
| " (Blea Tarn Reservoir) .. | J. C. Mount, Esq., C.E. | 8 | 1 | 0 | 330 | 39.30 | 196 |
| d§ " (Greg Observatory) ... | W. French, Esq. | 8 | 1 | 0 | 312 | 42.60 | 211 |
| " (Robert Street) | J. C. Mount, Esq., C.E. | 8 | 1 | 0 | 62 T | 40.19 | 196 |
| Caton (Escowbeck) | A. Greg, Esq. | 12 | 1 | 6 | 150 T | 40.63 | 197 |
| " Vicarage | Rev. W. J. Locke | 5 | 1 | 0 | 160 T | 40.49 | ... |
| d " | F. Storey, Esq. | 5 | 1 | 0 | 250 | 41.55 | 208 |
| d§ Morecambe | Mr. T. B. Lamb | 8 | 1 | 0 | 24 T | 47.32 | 202 |
| d Bolton-le-Sands Vicarage | Rev. A. R. Tomlinson. | 5 | 1 | 2 | 70 T | 40.28 | 198 |
| d " " (The Laurels) ... | Major J. Barker | 5 | 1 | 6 | 75 T | 37.15 | 171 |
| d Wray Vicarage | Rev. C. L. Reynolds... | 5 | 1 | 0 | 165 T | 44.46 | 204 |
| d Melling (Hornby Castle) | late Col. W. H. Foster.. | 8 | 1 | 8 | 100 | 47.51 | 190 |
| d Barrow-in-Furness | W. Fergusson, Esq. ... | 11 | 1 | 6 | 36 T | 35.74 | 170 |
| d Carnforth (Over Kellet) | W. Farrer, Esq. | 8 | 1 | 0 | 175 | 39.43 | 206 |
| Arkholme (Storrs Hall) | F. F. Pearson, Esq. ... | 5 | 1 | 0 | 220 | 45.17 | ... |
| d Yealand Conyers | W. E. Roper, Esq. | 5 | 1 | 0 | 250 | 39.96 | 226 |
| d Leck Vicarage | Rev. J. Turner | 5 | 0 | 6 | 400 | 41.27 | 195 |
| d Ulverston (Urswick School Ho.) | J. Dobson, Esq. | 5 | 1 | 3 | 140 T | 44.82 | 207 |
| d Cartmel (Flookburgh Lodge) ... | J. J. Myres, Esq., C.E. | 5 | 1 | 0 | 75 | 44.82 | 194 |
| Lindal (Moor Mines) | Messrs. Harrison, Ainslie & Co. | 5 | 7 | 0 | ... | 46.53 | 168 |
| d Cartmel (Carke) | W. R. Nash, Esq. | 5 | 1 | 0 | 76 T | 43.89 | 203 |
| d " (Holker) | Lord Richard Cavendish | 5 | 0 | 9 | 85 T | 46.41 | 225 |
| d Grange-over-Sands (Eggerslack) | Miss S. M. Arkwright.. | 5 | 2 | 3 | 140 B | 51.33 | 188 |
| d " " " (Merlewood) .. | E. C. Miller, Esq. | 5 | 0 | 9 | 280 | 50.70 | 221 |
| d Ulverston (Poaka Beck) | W. Fergusson, Esq. ... | 11 | 1 | 6 | 512 T | 54.59 | 218 |
| d Cartmel (Aynsome) | J. Stewart Remington Esq | 8 | 2 | 0 | 137 T | 57.04 | 237 |
| d Finsthwaite Vicarage | Rev. S. Inman | 8 | 1 | 2 | 250 | 59.90 | 222 |
| d Broughton-in-Furness | C. P. Chambers, Esq. ... | 5 | 1 | 3 | 101 | 57.20 | 208 |
| d Blawith Vicarage | Rev. J. Ashburner | 5 | 0 | 10 | 185 | 59.72 | 200 |
| d Cartmel Fell Vicarage | R. J. Cragghill, Esq. ... | 5 | 2 | 3 | 220 T | 61.30 | 201 |
| d Coniston (Water Park) | Miss C. Marshall | 5 | 1 | 0 | 180 | 61.66 | 206 |
| d Hawkshead (Tower Bank, Sawrey) | Major W. Alcock-Beck | 5 | 1 | 0 | 342 T | 67.70 | 210 |
| d Duddon Valley (Seathwaite Vic.) | Rev. J. B. Ditchfield... | 5 | 1 | 0 | 330 T | 75.98 | 217 |
| Monk Coniston Park | Miss C. Marshall | 5 | 1 | 2 | 305 T | 83.81 | 173 |
| Hawkshead (Esthwaite Mount) .. | Miss Headlam | 5 | 1 | 0 | 246 T | 72.72 | 219 |
| " (Black Fell) | Miss C. Marshall | 5 | 1 | 6 | 1055 | 81.43 | ... |

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 | 1908 | |
| | | in. | ft. | in. | feet. | inches. | |
| NORTH LANCASHIRE—(con.) | | | | | | | |
| D Skelwith Fold [Ambleside] | Miss C. Marshall | 5 | 1 | 0 | 333 | 83.14 | 232 |
| „ „ [„] ...M | „ „ „ | 5 | 1 | 0 | 333 | 81.99 | ... |

DIVISION IX.—YORKSHIRE.

| | | | | | | | |
|------------------------------------|-----------------------------|----|-----|-----|--------|--------|-----|
| WEST RIDING (SOUTHERN). | | | | | | | |
| D† Sheffield (W.W., Gleadless) ... | Mr. R. Rodinson | 8 | 1 | 0 | 700 T | 27.96 | 184 |
| D Dinnington Hall | Mr. C. Hope | 5 | 0 | 6 | 392 T | 22.58 | 184 |
| D Sheffield (Stumperlow Hall) ... | H. J. Dixon, Esq. | 5 | 1 | 0 | 700 T | 32.35 | 205 |
| D „ (Redmires Res.) | L.S.M. Marsh, Esq., C.E. | 10 | 5 | 0 | 1110 T | 37.40 | 233 |
| „ „ „ „ } weekly | „ „ „ | 8 | 4 | 0 | 1110 T | 36.82 | ... |
| D „ (Tylecote, Ranmoor) ... | J. Dixon, Esq. | 5 | 1 | 0 | 610 T | 29.75 | 190 |
| D „ (Rivelin) | L.S.M. Marsh, Esq., C.E. | 10 | 4 | 0 | 564 T | 30.65 | 212 |
| „ „ „ „ } weekly | „ „ „ | 8 | 4 | 0 | 564 T | 30.58 | ... |
| D „ (Crookes) | „ „ „ | 10 | 2 | 0 | 629 T | 24.52 | 191 |
| „ „ „ „ } weekly | „ „ „ | 8 | 2 | 0 | 629 T | 24.67 | ... |
| D† „ (Weston Park) | E. Howarth, Esq. | 8 | 1 | 0 | 430 T | 25.42 | 179 |
| „ „ (Victoria Station) | Great Central Rly. Co.. | 9 | 3 | 6 | 188 T | 21.64 | ... |
| D „ (Dale Dyke Reservoir). .. | L.S.M. Marsh, Esq., C.E. | 10 | 3 | 0 | 715 T | 34.04 | 213 |
| „ „ „ „ „ } weekly | „ „ „ | 8 | 3 | 0 | 715 T | 33.74 | ... |
| D Rotherham (Ulley Reservoir) ... | E. B. Martin, Esq., C.E. | 5 | 1 | 0 | 184 T | 17.02? | 133 |
| Sheffield (Tinsley Locks) | Great Central Rly. Co.. | 9 | ... | ... | 117 T | 19.22 | 169 |
| D Tickhill (Sandbeck Park) | Mr. G. Summers | 8 | 1 | 0 | 150 T | 21.31 | 166 |
| D Rotherham (Moorgate) | C. E. Chrimes, Esq. ... | 5 | 1 | 0 | 262 | 20.77 | 132 |
| D Tickhill | G. G. Phillips, Esq. ... | 8 | 1 | 0 | 61 T | 22.16 | 178 |
| Derwent Dale (Low Seat) No. 21 | E. Sandeman, Esq., C.E. | 5 | 1 | 0 | 1565 | 36.54 | ... |
| „ „ (Howden Ho.) 19 | „ „ „ | 8 | 1 | 0 | 775 T | 39.33 | 221 |
| „ „ (Row Top) No. 20 | „ „ „ | 5 | 1 | 0 | 1260 | 38.90 | ... |
| „ „ (Sandy Lee) No. 7 | „ „ „ | 5 | 1 | 0 | 1340 | 40.50 | ... |
| „ „ (Crowstones) No. 3 | „ „ „ | 5 | 1 | 0 | 1660 | 42.44 | ... |
| „ „ (Featherbed Moss) 1 | „ „ „ | 5 | 1 | 0 | 1670 | 42.41 | ... |
| D Rotherham (Thrybergh) | F. Oscar Kirby, Esq. C.E. | 8 | 1 | 0 | 184 T | 20.85 | 169 |
| D Sheffield (Chapelton) | Mr. D. Bell | 8 | 5 | 0 | 581 T | 22.40 | 179 |
| D Bolsterstone (Waldershaigh) ... | late Mrs. Macro Wilson | 8 | 3 | 0 | 950 | 25.85 | 163 |
| D Doncaster (Firsby Reservoir) ... | F. Oscar Kirby, Esq. C.E. | 8 | 1 | 4 | 189 T | 21.53 | 161 |
| D „ (Wadworth Hall) | Rev. J. C. Ross | 8 | 1 | 0 | 190 T | 22.70 | 204 |
| Wentworth Woodhouse | Mr. A. Third | 5 | 0 | 10 | 360 T | 22.93 | 136 |
| D Swinton (Council Offices) | R. Fowler, Esq., C.E. ... | 8 | 1 | 0 | 126 T | 21.25 | 185 |
| D Mexborough | G. Fenwick Carter Esq. C.E. | 5 | 1 | 6 | 58 T | 18.24 | 151 |
| Wortley | Great Central Rly. Co.. | 9 | 3 | 6 | 548 T | 23.06 | 155 |
| Elsecar | „ „ „ | 9 | 3 | 6 | 181 T | 18.43 | 148 |
| Langsett Moor (Pike Lowe) ...C | J. H. Taylor, Esq., C.E. | 5 | 1 | 0 | 1358 T | 44.24 | ... |
| „ „ (Ewden Height) B | „ „ „ | 5 | 1 | 0 | 1099 T | 38.22 | ... |
| „ „ (Range Moor) D | „ „ „ | 5 | 1 | 0 | 1040 T | 42.32 | ... |
| D „ „ (Upper Midhope) A | „ „ „ | 5 | 1 | 0 | 912 T | 38.11 | 214 |
| Wortley (Service Reservoir) | „ „ „ | 5 | 1 | 0 | 700 | 25.88 | 189 |
| D† Langsett | L.S.M. Marsh, Esq., C.E. | 8 | 4 | 3 | 960 T | 31.12 | 200 |

DIVISION IX.—YORKSHIRE—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with .01 or more recorded. |
|---------------------------------|----------------------------|-------------|----------------------|-------------------------|------------------------|---------------------------------|
| | | Diameter | Height Above Ground. | Height Above Sea Level. | | |
| | | in. | ft. in. | feet. | inches. | |
| W. RIDING (SOUTHERN)-(con.) | | | | | | |
| † Langsett No. 2 | L.S.M. Marsh, Esq., C.E. | 8 | 4 9 | 761 A | 31·22 | 193 |
| Wath-upon-Deerne (Chapel St.) | Dr. F. J. Burman | 8 | 3 0 | 188 T | 19·90 | 163 |
| Bolton-upon-Deerne | T. Washington, Esq. | 5 | 1 0 | 130 T | 18·49 | 147 |
| Worsborough | Great Central Rly. Co.. | 9 | 3 6 | 225 T | 21·74 | 188 |
| Stainborough (Wentworth Castle) | W. Fisher, Esq. | 8 | 2 6 | 520 T | 23·60 | 170 |
| Doncaster | Great Central Rly. Co.. | 9 | 3 6 | 32 T | 19·74 | 152 |
| „ (Pumping Station) ... | F. Oscar Kirby, Esq. C.E. | 8 | 1 2 | 30 A | 22·69 | 170 |
| Dunford Br. (Up. Windleden) M | H. Dearden, Esq., C.E. | 12 | 2 2 | 1100 | 39·72 | ... |
| „ „ (Dearden Res.)... M | „ „ „ „ .. | 12 | 1 6 | 1244 T | 39·35 | ... |
| „ „ Station | Great Central Rly. Co.. | 9 | 3 6 | 954 T | 36·55 | 235 |
| „ „ Reservoir | H. Dearden, Esq., C.E. | 12 | 2 0 | 1111 T | 41·59 | 213 |
| Penistone | Great Central Rly. Co.. | 9 | 3 6 | 717 T | 24·06 | 151 |
| „ (Hazlehead) | „ „ „ „ .. | 9 | 3 9 | 868 T | 35·24 | 183 |
| „ (Grammar School) ... | Joseph W. Fulford, Esq. | 5 | 1 2 | 650 T | 25·03 | 162 |
| „ (Ingbirchworth Res.).. | J. H. Taylor, Esq. C.E. | 8 | 1 3 | 853 A | 31·91 | 182 |
| Barnsley (Church Street) | Dr. F. J. Sadler | 5 | 5 2 | 350 T | 22·59 | 193 |
| „ (Jordan Hill) | J. H. Taylor, Esq., C.E. | 8 | 1 3 | 460 T | 20·81 | 140 |
| „ | Great Central Rly. Co.. | 9 | 3 6 | 317 T | 17·86 | ... |
| Cawthorne | Rev. C. T. Pratt | 5 | 1 6 | 340 A | 25·68 | 176 |
| Doncaster (Wyndthorpe) | Hon. Mrs. Godfrey Chetwynd | 5 | 0 11 | 40 ? | 20·68 | ... |
| Kirk Bramwith | H. A. Brundell, Esq. C.E. | 5 | 1 0 | 17 A | 23·95 | 209 |
| Hemsworth Hall | Mr. E. T. Bendall | 5 | 1 0 | 250 T | 20·61 | 134 |
| Upton Moor Top | Lt.-Col. H. J. Johnston | 5 | 0 8 | 234 T | 24·56 | 193 |
| Ackworth (Hillthorpe) | Mrs. F. Hatchard | 5 | 1 5 | 175 T | 20·61 | 135 |
| „ (Nostell Priory) | Mr. J. Easter | 5 | 4 0 | ... | 22·07 | 162 |
| Goole (Swinfleet) | Mr. G. Harrison | 5 | 5 6 | 10 ? | 21·92 | ... |
| „ („) | A. B. Hobson, Esq. ... | 5 | 1 0 | 10 ? | 20·68 | 178 |
| „ | W. E. Grayburn, Esq. | 5 | 1 0 | 18 A | 22·25 | 186 |
| WEST RIDING (CENTRAL). | | | | | | |
| Greenfield (Chew Mount) | F. J. Dixon, Esq., C.E. | 7 | 1 0 | 1600 | 48·20 | ... |
| „ (Yeoman Hey) | „ „ „ | 7 | 1 0 | 759 | 42·90 | 147 |
| „ (Ashway Moss) | „ „ „ | 7 | 1 0 | 1607 A | 37·10 | ... |
| „ (Birchen Clough) | „ „ „ | 7 | 1 0 | 1017 A | 48·40 | ... |
| Holmbridge (Yateholme) | O. J. Kirby, Esq., C.E. | 7 | 1 0 | 861 A | 46·00 | ... |
| „ (Holme Styes Res.)... | G. H. Hill, Esq., C.E.. | 7 | 2 6 | 830 T | 42·80 | ... |
| „ (Boshaw Whams Res.).. | „ „ „ | 7 | 2 6 | 930 T | 42·40 | ... |
| „ (Bilberry Reservoir).. | „ „ „ | 7 | 2 6 | 820 T | 50·20 | ... |
| Saddleworth Station | L. K. Jones, Esq. | 5 | 4 2 | 630 T | 31·89 | ... |
| Strinesdale [Oldham] | C. J. Batley, Esq., C.E. | 5 | 4 0 | 815 A | 36·74 | 202 |
| Meltham (Harden Moss) | J. W. Schofield, Esq. | 8 | 1 2 | 1212 T | 40·93 | ... |
| „ („ „) new g. | „ „ „ | 8 | 1 0 | 1212 T | 41·66 | ... |
| Wessenden Head | „ „ „ | 8 | 1 0 | 1270 T | 37·56 | ... |
| „ (Hollin Bank Moss)... | „ „ „ | 8 | 1 0 | 1360 T | 33·46 | ... |
| „ (Great Butterley) | „ „ „ | 8 | 1 0 | 1110 T | 37·28 | ... |
| „ (Bobus) | „ „ „ | 8 | 1 0 | 1200 T | 37·23 | ... |

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 | 1908 | |
| | | in. | ft. | in. | feet. | inches. | |
| W. RIDING (CENTRAL)—(con.) | | | | | | | |
| D Standedge (Castleshaw, Broadhead) | C. J. Batley, Esq., C.E. | 8 | 4 | 6 | 876 N | 37.75 | 203 |
| † " (Cudworth) | " " " | 5 | 4 | 6 | 1410 T | 30.52 | 201 |
| " (Redbrook Res.) old g. | L. K. Jones, Esq. | 8 | 1 | 8 | 1150 | 41.14 | ... |
| " (") new g. | " " " | 8 | 1 | 6 | 1150 | 41.31 | ... |
| Meltham (Brow Grains) | J. W. Schofield, Esq. | 8 | 1 | 0 | 900 T | 37.63 | ... |
| † Denshaw (Ox Hey) | C. J. Batley, Esq., C.E. | 8 | 4 | 6 | 1030 N | 38.96 | 201 |
| D† " (New Year's Bridge)... | " " " | 8 | 4 | 0 | 1012 N | 39.48 | 201 |
| † " (Ready Con Dean) | " " " | 8 | 4 | 0 | 1414 N | 41.30 | 201 |
| Meltham (Royd Edge) | C. L. Brook, Esq. | 8 | 1 | 0 | 585 T | 44.04 | ... |
| D " (Harewood Lodge) | " " " | 8 | 1 | 0 | 514 L | 37.55 | 212 |
| " (Grange) | J. W. Schofield, Esq. | 8 | 1 | 2 | 850 T | 35.13 | ... |
| Marsden (Deer Hill) | " " " | 8 | 1 | 0 | 1149 T | 36.66 | ... |
| " (") new g. | " " " | 8 | 1 | 0 | 1149 T | 39.53 | ... |
| Wakefield (Woolley Park Gardns.) | Mr. T. Wells | 5 | 1 | 6 | 400 | 24.60 | 160 |
| D Slaithwaite (Blackmoorfoot) | J. W. Schofield, Esq. | 8 | 1 | 0 | 800 T | 41.04 | 216 |
| D " (Inglewood) | J. Woodhead, Esq. | 5 | 1 | 0 | 546 N | 38.87 | 220 |
| D Wakefield (Walton Hall) | E. Simpson, Esq. | 5 | 1 | 0 | 140 T | 16.26? | 137 |
| Huddersfield (Bankfield, Golcar) | J. R. Sykes, Esq. | 5 | 1 | 0 | 400 T | 34.64 | 186 |
| D§ " (Cemetery) | Mr. J. Firth | 8 | 1 | 0 | 410 N | 30.79 | 204 |
| D§ " (Dalton) | J. W. Robson, Esq. ... | 8 | 1 | 0 | 350 T | 26.81 | 180 |
| D† Rishworth Moor (Gt. Walden Edge) | C. Clemesha Smith Esq. CE | 5 | 0 | 10 | 1135 T | 43.66 | 217 |
| D " (Stott Hall) | " " " | 5 | 1 | 0 | 935 T | 38.93 | 219 |
| D† " (Ringstone Res.) | " " " | 5 | 1 | 0 | 990 T | 34.57 | 192 |
| " (Moor Greystones) ... | " " " | 5 | 1 | 0 | 1175 T | 43.08 | ... |
| Soyland Moor (Summit) | " " " | 5 | 1 | 0 | 1290 T | 39.53 | ... |
| " (Baitings Gate) ... | " " " | 5 | 1 | 0 | 935 T | 42.62 | 211 |
| " (Manshead) | " " " | 5 | 1 | 0 | 1240 | 40.86 | ... |
| Horbury (Highfields) | J. H. Green, Esq. | 5 | 1 | 0 | 226 T | 21.87 | ... |
| D Mirfield (Cote Wall) | J. Watson-Kaye, Esq. .. | 8 | 1 | 2 | 200 | 26.82 | 171 |
| Ossett (Lowood House) | Dr. W. Greenwood ... | 5 | 0 | 6 | 350 T | 20.44 | ... |
| D§ Wakefield Prison | Dr. A. French | 5 | 1 | 0 | 96 N | 20.32 | 152 |
| D " (Field Head) | C. Clemesha Smith Esq. CE | 5 | 1 | 0 | 250 T | 19.69 | 169 |
| D† " (Stanley Grange) | H. S. Haworth, Esq. ... | 5 | 1 | 0 | 235 T | 19.69 | 182 |
| Elland | P. H. Whitwam, Esq. .. | 8 | 1 | 0 | 307 N | 31.81 | ... |
| Batley (Staincliffe Reservoir) ... | O. J. Kirby, Esq., C.E. | 7 | 1 | 0 | 492 N | 18.33 | ... |
| D " (Woodwell Dépôt) | " " " | 8 | 1 | 0 | 301 N | 19.22 | 134 |
| D† Ardsley Reservoir | C. Clemesha Smith Esq. CE | 5 | 1 | 2 | 395 N | 21.66 | 173 |
| D " (Jaw Hill) | " " " | 5 | 1 | 0 | 315 T | 20.22 | 147 |
| Sowerby Bridge (Brockwell Triangle) | W. Cyril Empson, Esq. .. | 8 | 1 | 0 | 500 N | 35.23 | ... |
| D " (Haugh End) No. 4 | J. S. Rawson, Esq. ... | 5 | 0 | 8 | 450 T | 34.75 | 214 |
| D Fielden Hospital [Todmorden] ... | Mr. F. Rogers | 5 | 1 | 0 | 650 T | 38.96 | 198 |
| D Sourhall Hospital ["] ... | " " " | 5 | 1 | 0 | 1020 T | 49.36 | 194 |
| Halifax (Bents, Norland) No. 3 M | J. S. Rawson, Esq. ... | 5 | 0 | 8 | 800 T | 27.70 | ... |
| D " (Hall Ings, S. Owsram) ... | Rev. G. E. Aspinall ... | 5 | 0 | 7 | 750 T | 23.98 | 197 |
| " (Thorpe) | J. S. Rawson, Esq. ... | 8 | 0 | 8 | 345 T | 34.45 | ... |
| D " (") | " " " | 5 | 0 | 8 | 345 T | 35.58 | 185 |
| D† " (Public Library) | E. Green, Esq. | 8 | 1 | 0 | 625 T | 30.65 | 184 |
| " (Albert) | R. J. Hartley, Esq., C.E. | 5 | 1 | 0 | 795 T | 30.52 | ... |

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 | | 1908 |
| | | | ft. | in. | feet. |  |  | inches. |
| W. RIDING (CENTRAL)—(con.) | | in. | ft. | in. | feet. | inches. | |
| Halifax (Gibbet) | R.J. Hartley, Esq., C.E. | 5 | 6 | 0 | 568 T | 31.21 | ... |
| " (Ramsden Wood)..... | " " " " | 8 | 1 | 2 | 816 T | 30.72 | ... |
| Gomersall (Castle Hill)..... | A. J. Pyrah, Esq. | 5 | 1 | 0 | 480 | 23.15 | 169 |
| Hebden Bridge (Falling Royd).. | A. R. Crossley, Esq.... | 4 | 1 | 0 | 479 T | 39.18 | 199 |
| D " " (Summerfield)... | J. Hoyle, Esq. | 5 | 1 | 0 | 800 T | 38.25 | 200 |
| Halifax (Castle Carr) | R.J. Hartley, Esq., C.E. | ... | ... | ... | 1060 T | 39.42 | ... |
| " (Midgley Moor) | " " " " | 7 | 0 | 6 | 1350 T | 39.50 | ... |
| " (Warley Moor)..... | " " " " | 7 | 0 | 6 | 1325 T | 39.34 | ... |
| " (Ogden) | " " " " | 8 | 1 | 3 | 990 T | 36.94 | ... |
| " (Ovenden Moor) | " " " " | ... | ... | ... | 1375 | 41.74 | ... |
| " (Widdop) | " " " " | ... | ... | ... | 1050 | 38.19 | ... |
| " (Walshaw Dean Lodge) | " " " " | ... | ... | ... | 1040 | 43.70 | ... |
| " (" ")..... | " " " " | 8 | 0 | 3 | 1380 T | 40.93 | ... |
| Selby | Mr. J. Palgrave | 5 | 1 | 6 | 20 | 24.76 | ... |
| Pudsey (Fulneck) | Miss E. C. Lawford .. | 5 | 1 | 0 | 490 | 26.78 | ... |
| " (Glenera) | Dr. F. H. Squire | 5 | 1 | 0 | 521 T | 23.72 | ... |
| D " Garforth (Manor Farm) | Prof. R. S. Seton | 8 | 1 | 2 | 194 T | 21.44 | 185 |
| Bradford (Horton, Grange Road) | Mr. A. E. Chilton | 5 | 5 | 0 | 450 T | 27.97 | 217 |
| " (Queensbury)..... | R. J. Foster, Esq..... | 8 | 2 | 2 | 1050 | 32.66 | 196 |
| " (Brayshaw Reservoir).. | J. Watson, Esq., C.E.. | 5 | 1 | 0 | 982 T | 32.74 | 190 |
| D " (Lister Park) | Mr. H. Lander | 8 | 1 | 0 | 440 T | 29.20 | 221 |
| D " (Duckworth Terrace)... | E. Priestman, Esq..... | 6 | 1 | 0 | 600 | 31.10 | 199 |
| " (Thornton Moor) | J. Watson, Esq., C.E.. | 5 | 1 | 0 | 1218 T | 40.49 | 287 |
| " (Stubden Res.)...old g. | " " " " | 8 | 1 | 0 | 1075 T | 48.09 | 239 |
| " (" ") new g. | " " " " | 8 | 1 | 0 | 1075 T | 46.01 | 239 |
| " (" ") | " " " " | 5 | 1 | 0 | 1071 T | 44.34 | 239 |
| " (Nan Scar, Oxenhope)M | " " " " | 5 | 1 | 0 | 1101 T | 42.83 | ... |
| " (Stairs Top, ")M | " " " " | 5 | 1 | 0 | 1401 T | 37.13 | ... |
| " (Leeming Reservoir)M | " " " " | 5 | 1 | 0 | 850 T | 37.94 | 193 |
| " (Doe Park Res.)...old g. | " " " " | 8 | 1 | 0 | 810 T | 46.00 | 239 |
| " (" " ") new g. | " " " " | 5 | 1 | 0 | 811 T | 40.54 | 236 |
| " (Leeshaw Res.) | " " " " | 5 | 1 | 0 | 875 T | 43.11 | ... |
| " (Chellow Dean) | " " " " | 5 | 1 | 0 | 645 T | 26.89 | 198 |
| " (" Heights)..... | " " " " | 5 | 1 | 0 | 848 | 33.97 | 221 |
| " (Hewenden Res.)...old g. | " " " " | 5 | 1 | 0 | 700 T | 39.06 | 223 |
| " (" " ") new g. | " " " " | 5 | 1 | 0 | 701 T | 36.21 | 222 |
| " (Heaton Res.) ...old g. | " " " " | 8 | 1 | 0 | 530 T | 28.94 | 210 |
| " (" " ") new g. | " " " " | 5 | 1 | 0 | 531 T | 27.57 | 206 |
| Leeds (Wortley Res.) | C.G. Henzell, Esq., C.E. | 8 | 0 | 9 | 307 T | 25.40 | 175 |
| " (Knostrop) | " " " " | 8 | 0 | 9 | 72 T | 21.30 | 163 |
| D " (Holbeck) | Messrs. J. Rhodes & Co. | 10 | 32 | 0 | 127 T | 19.25 | 134 |
| D " (" W. Works Depot) | C.G. Henzell, Esq., C.E. | 8 | 0 | 9 | 93 T | 20.60 | 165 |
| D " (Museum)..... | H. Crowther, Esq..... | 10 | 46 | 0 | 177 T | 22.02 | 191 |
| " (Woodhouse Moor) | C.G. Henzell, Esq., C.E. | 8 | 0 | 9 | 307 T | 22.71 | 182 |
| D " (Weetwood Reservoir) ... | " " " " | 8 | 0 | 9 | 328 T | 22.53 | 182 |
| " (" " Lodge)..... | F. P. Reay, Esq. | 5 | 0 | 9 | 200 T | 22.21 | 157 |
| D " (Allerton Hill) | T.E.Fenwick, Esq., C.E. | 5 | 0 | 7 | 418 T | 22.77 | 198 |

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 | 1908 | |
| | | in. | ft. in. | feet. | inches. | |
| W. RIDING (CENTRAL)—(con.) | | | | | | |
| Shipley (Cragg End) | Leeds & L'pool Canal Co. | 8 | 1 0 | 304 | 26.66 | ... |
| " (West Point) | A. M. Paterson, Esq. | 5 | 0 6 | 382 ∇ | 28.71 | 179 |
| ∇ Oakworth (Oldfield Filters) | W. Fowlds, Esq., C.E. | 5 | 1 0 | 1008 ∇ | 40.21 | 235 |
| Bingley (Gilstead Filters) | J. Watson, Esq., C.E. | 5 | 1 0 | 572 ∇ | 28.24 | 153 |
| Keighley (Long Lee) | C. Croft, Esq. | 8 | 1 0 | 755 ∇ | 29.20 | 204 |
| ∇ " (The Knowle) | Mrs. W. Clough | 5 | 1 0 | 385 ∇ | 32.11 | 196 |
| ∇ Adel (Lawns Wood) | Mr. S. R. Dyson | 5 | 1 0 | 475 ∇ | 24.23 | 165 |
| Bingley (Sunnydale) | J. Watson, Esq., C.E. | 5 | 1 0 | 825 | 28.89 | 194 |
| ∇ Skipton (Silsden) | Mr. A. Elder | 5 | 1 0 | 432 ∇ | 28.06 | 177 |
| " (" Gill Grange) ... | J. Watson, Esq., C.E. | 5 | 1 0 | 883 | 28.62 | ... |
| " (" Reservoir) | " " " | 5 | 1 0 | 560 ∇ | 29.08 | 179 |
| " (Cringles Reservoir) ... | " " " | 5 | 1 0 | 760 ∇ | 29.25 | 178 |
| ∇ " (Craven Herald Office) ... | E. Townsend, Esq. | 8 | 2 4 | 360 | 31.92 | 212 |
| " (Hawthorne Cottage) ... | Leeds & L'pool Canal Co. | 8 | 1 0 | 380 | 32.13 | ... |
| Gargrave (Banks Hill Bank Newton) | " " " | 8 | 1 0 | 545 | 36.22 | ... |
| " (Ray Bridge Hill) | " " " | 8 | 0 10 | 459 | 31.35 | ... |
| " (Great Scarnber Hill) ... | " " " | 8 | 0 9 | 676 | 33.44 | ... |
| Winterburn (Long Hill) | " " " | 8 | 0 9 | 705 | 32.56 | ... |
| " (Brown Hill) | " " " | 8 | 1 0 | 961 | 43.36 | ... |
| ∇ Malham Tarn | Mr. T. Coulthard | 8 | 1 0 | 1296 ∇ | 59.77 | 233 |
| WEST RIDING (NORTHERN). | | | | | | |
| ∇ Saxton Vicarage | Rev. C. D. Ash | 5 | 2 6 | 95 | 22.43 | 187 |
| Adel (Eccup, South) | C.G. Henzell, Esq., C.E. | 8 | 0 9 | 390 ∇ | 24.51 | 201 |
| " (" East) | " " " | 8 | 0 9 | 375 ∇ | 25.22 | 194 |
| Harewood (Arthington, Breary Bank) | " " " | 8 | 0 9 | 600 | 34.42 | 199 |
| " (") | " " " | 8 | 0 9 | 139 ∇ | 31.65 | 169 |
| " House | Countess of Harewood. | 5 | 0 10 | 300 | 26.83 | 188 |
| ∇ Otley (Council Offices) | C. F. Hodgson, Esq. | 5 | 12 0 | 204 ∇ | 25.83 | 163 |
| ∇ " (Sewage Works) | " " " | 5 | 0 9 | 169 ∇ | 23.50 | 155 |
| ∇ Bolton-by-Bowland (Bolton Hall) | Mrs. Wright | 8 | 0 6 | 300 ∇ | 45.85 | 181 |
| ∇ Ilkley (Silverwell Cottage) | Mr. T. C. Gill | 5 | 1 0 | 904 ∇ | 36.07 | 194 |
| ∇ " (Glen Rosa) | F. A. Aykroyd, Esq. | 8 | 1 1 | 450 | 31.49 | 207 |
| ∇ " (Eaton Road) | A. Wilson, Esq. | 5 | 1 0 | 395 ∇ | 33.41 | 211 |
| ∇ " (Brook Street) | G. W. Worfolk, Esq. | 5 | 20 0 | 312 ∇ | 31.33 | 179 |
| Pannal (Kirkby Overblow) | A. Rowntree, Esq. | 5 | 0 9 | 340 ∇ | 19.85 | 136 |
| Leathley (Lindley Wood, S.) ... | C.G. Henzell, Esq., C.E. | 8 | 0 9 | 312 ∇ | 29.84 | 225 |
| " (" " N.) ... | " " " | 8 | 0 9 | 320 ∇ | 29.29 | 225 |
| ∇ Ilkley (March Gill Reservoir) ... | C. F. Hodgson, Esq. | 5 | 0 9 | 665 ∇ | 31.68 | 178 |
| ∇ York (Mount Villas) | Mrs. Rowntree | 5 | 1 0 | 70 | 20.72 | 204 |
| ∇ " (Cherry Hill) | Mrs. H. Richardson ... | 5 | 1 6 | 50 | 21.61 | 150 |
| ∇ " (Museum Gardens) | Oxley Grabham, Esq. | 12 | 1 0 | 57 | 21.70 | 200 |
| ∇ " (The Retreat) | Dr. H. J. Mackenzie ... | 5 | 1 0 | 74 ∇ | 21.27 | 192 |
| Slaidburn (Knowlmer Manor) ... | W. Peel, Esq. | 5 | 1 0 | 417 ∇ | 62.38 | ... |
| " (Hareden Brook) ... | M. T. Cookson, Esq. | 8 | 1 2 | 540 | 65.76 | ... |
| " (Langden Brook) ... | M. " " " | 8 | 1 2 | 556 | 70.75 | ... |

W. F. placed

near Malham

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 | 1908 | |
| | | in. | ft. in. | feet. | inches. | |
| W. RIDING (NORTHERN)-(con.) | | | | | | |
| Slaidburn (Whiteholme) | W. K. Wilkinson, Esq. | 5 | 1 3 | 475 T | 55·12 | ... |
| Skipton (Chelker Reservoir)...M | J. Watson, Esq., C.E... | 5 | 1 0 | 730 T | 31·45 | ... |
| d Spofforth (Sewage Works) | F. Bagshaw, Esq., C.E. | 8 | 1 0 | 184 T | 23·73 | 200 |
| Fewston (Timble Ings) | C. G. Henzell, Esq., C.E. | 8 | 0 9 | 912 T | 35·73 | 211 |
| " (") | " " " | 8 | 0 9 | 720 T | 26·96 | 174 |
| " (Swinsty, E.) | " " " | 8 | 0 9 | 460 T | 32·85 | 226 |
| " (" W.) | " " " | 8 | 0 9 | 425 T | 34·09 | 226 |
| " South | " " " | 8 | 0 9 | 525 T | 33·80 | 213 |
| " North | " " " | 8 | 0 9 | 525 T | 32·05 | 212 |
| " (Blubberhouses) | " " " | 8 | 0 9 | 575 T | 35·79 | 221 |
| d Wetherby (Ribston Hall) | Mr. J. McClelland | 5 | 1 2 | 130 T | 24·65 | 164 |
| d Bolton Abbey Estate Office | A. Downs, Esq..... | 5 | 1 2 | 350 | 35·43 | 189 |
| Harrogate (Ten Acres Reservoir) | F. Bagshaw, Esq., C.E. | 8 | 1 6 | 620 T | 24·87 | 181 |
| " (Bonny Cap)..... | " " " | 8 | 1 6 | 710 T | 31·17 | 201 |
| " (Wilson's Farm) | " " " | 8 | 1 6 | 630 T | 27·58 | 210 |
| d " (Scargill) | " " " | 8 | 1 0 | 646 T | 29·42 | 201 |
| " (Beaver Dyke Res.)... | " " " | 8 | 0 11 | 575 T | 28·15 | 210 |
| d§ " (Harlow Moor Obsy.)... | C. E. Rivers, Esq..... | 5 | 1 0 | 480 T | 26·01 | 202 |
| " (" Hill Res.) No. 1 | F. Bagshaw, Esq., C.E. | 8 | 1 0 | 589 T | 23·98 | 187 |
| " (Irongate) | " " " | 8 | 1 6 | 455 T | 25·07 | 180 |
| d " (The Stray) | Mr. G. W. Gledhill ... | 5 | 1 0 | 380 | 23·49 | 204 |
| d " (Park Parade) | " " " | 5 | 1 0 | 400 | 24·15 | 206 |
| Slaidburn (Dunsop Houses) | W. Stubbs, Esq., C.E.. | 8 | 1 0 | 450 T | 64·83 | 197 |
| " (Middle Knoll)..... M | " " " | 8 | 2 6 | 1298 T | 60·70 | ... |
| " (Brennand) | " " " | 8 | 1 0 | 820 T | 70·99 | 202 |
| " (Whitendale) | " " " | 8 | 1 0 | 830 T | 70·28 | 200 |
| " (Cabin Hill)..... | " " " | 8 | 3 1 | 1559 T | 63·90 | ... |
| " (Baxton Fell) | " " " | 8 | 2 6 | 1540 T | 63·50 | ... |
| d Goldsborough Hall..... | Mr. R. Goodall | 5 | 1 0 | 118 T | 25·16 | 186 |
| Knaresborough (Water Tower)... | F. Bagshaw, Esq., C.E. | 8 | 1 0 | 240 T | 23·15 | 188 |
| Barden Reservoir | J. Watson, Esq., C.E.. | 8 | 1 2 | 746 T | 42·26 | 235 |
| " " | " " " | 5 | 1 2 | 746 T | 40·83 | 235 |
| " " Upper | " " " | 5 | 1 0 | 1250 T | 46·14 | 232 |
| d Harrogate (Bilton Sewage Works) | F. Bagshaw, Esq., C.E. | 5 | 1 0 | 208 T | 23·86 | 198 |
| d Nun Monkton (Priory) | H. Horsfield, Esq..... | 5 | 0 6 | 45 | 20·74 | 174 |
| d Birstwith (Swarcliffe) | Capt. C. S. Greenwood. | 5 | 1 0 | 510 T | 30·02 | 162 |
| d " (The Moss) | C. S. Dixon, Esq. | 5 | 1 0 | 230 | 27·86 | 159 |
| Burnsall (Thorpe Fell) | J. Watson, Esq., C.E... | 5 | 1 0 | 1661 T | 45·53 | ... |
| " (Sandbed Beck) | " " " | 5 | 1 0 | 676 T | 46·68 | ... |
| d " Rectory | Rev. W. J. Stavert ... | 8 | 4 7 | 503 T | 44·96 | 220 |
| Ouseburn (Thorpe Underwood Hall) | F. W. Slingsby, Esq.... | 5 | 1 1 | 60 T | 21·12 | 160 |
| d Settle (The Terrace) | J. W. Shepherd, Esq.. | 8 | 1 2 | 531 T | 45·23 | 215 |
| § " (Giggleswick School)..... | Meteorological Office ... | ... | 1 0 | 500 | 44·19 | 194 |
| d Pateley Bridge (Castle Stead) ... | Mr. C. May..... | 5 | 1 0 | 410 | 36·17 | 179 |
| Grimwith Reservoir | J. Watson, Esq., C.E.. | 8 | 1 0 | 890 T | 45·20 | 230 |
| " " | " " " | 5 | 1 0 | 893 T | 44·15 | 229 |
| d Grassington (Chapel Ho., Kilnsey) | G. E. Clayton, Esq. ... | 5 | 3 0 | 670 T | 50·71 | 213 |
| Pateley Moor (Smaden Head) ... | C. G. Henzell, Esq., C.E. | 8 | 0 9 | 784 T | 30·02 | ... |

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 | | 1908 |
| | | in. | ft. | in. | feet. | inches. | |
| W. RIDING (NORTHERN)-(con.) | | | | | | | |
| Dallow Moor (High Skeldon) ... | C.G. Henzell, Esq., C.E. | 5 | 0 | 9 | 674 π | 30.12 | 218 |
| † " " (Harper Hill) | " " " | 5 | 0 | 9 | 858 π | 30.91 | 217 |
| D Ripon (Studley Royal Gardens). | O. H. Wade, Esq. | 5 | 1 | 6 | 250 | 25.14 | 184 |
| D " (The Red House) | F. D. Wise, Esq. | 5 | 1 | 0 | 120 | 24.52 | 147 |
| Ramsgill (Raygill House) | J. Watson, Esq., C.E. | 5 | 1 | 0 | 925 π | 47.85 | 166 |
| " | " " " | 5 | 1 | 0 | 450 π | 34.17 | 165 |
| D Arncliffe Vicarage | Rev. W. A. Shuffrey... | 8 | 2 | 6 | 732 π | 66.05 | 240 |
| D " (Amerdale)..... | J. Hammond, Esq. ... | 8 | 1 | 6 | 742 π | 57.94 | 235 |
| D High Bentham | Mr. Bryan Holmes..... | 5 | 1 | 0 | 412 π | 39.71 | 199 |
| D Ingleton (Kingsdale Head) | Mr. J. Webster | 5 | 0 | 10 | 994 π | 68.79 | 209 |
| Nidderdale (High Riggs) | J. Watson, Esq., C.E. | 5 | 1 | 0 | 1010 π | 49.29 | 193 |
| " (Angram) | " " " | 5 | 1 | 0 | 1150 π | 40.78 | 213 |
| " (New Houses) | " " " | 5 | 1 | 0 | 755 π | 40.63 | 161 |
| † Kirkby Malzeard (Drovers' Inn)... | C.G. Henzell, Esq., C.E. | 5 | 0 | 9 | 576 π | 35.40 | 210 |
| † " " (Hawset) | " " " | 8 | 0 | 9 | 820 π | 34.40 | 226 |
| " " (Hambleton Hill) | " " " | 8 | 0 | 9 | 1106 π | 36.64 | ... |
| † " " (Bagwith Brae). | " " " | 5 | 0 | 9 | 703 π | 31.09 | 189 |
| " " (Stone & Ears Wham) | " " " | 8 | 0 | 9 | 1118 π | 39.55 | ... |
| D Ripon (High Bank, Mickley) ... | Miss Harrison | 5 | 1 | 6 | 225 π | 26.61 | 162 |
| Masham Moor (Benjy Guide)..... | C.G. Henzell, Esq., C.E. | 8 | 0 | 9 | 1411 π | 37.80 | ... |
| " " (Bracken Hill) ... | " " " | 5 | 0 | 9 | 1450 π | 35.45 | ... |
| † " " (Somerside) | " " " | 5 | 0 | 9 | 928 π | 33.73 | 154 |
| † " " (High Sour Mire) | " " " | 5 | 0 | 9 | 884 π | 29.88 | 199 |
| " " (Thorney Grane).. | " " " | 5 | 0 | 9 | 1175 π | 36.55 | ... |
| " " (Spruce Gill)..... | " " " | 5 | 0 | 9 | 1187 π | 38.16 | ... |
| " " (Healey)..... | " " " | 5 | 0 | 9 | 542 π | 30.75 | 184 |
| † " " (Low Houses)..... | " " " | 5 | 0 | 9 | 693 π | 35.01 | 220 |
| " " (Black Brunt) ... | " " " | 5 | 0 | 9 | 1160 π | 34.57 | ... |
| " " (Brown Beck) ... | " " " | 5 | 0 | 9 | 1150 π | 33.29 | ... |
| D " " (Roundhill Res.). | F. Bagshaw, Esq., C.E. | 8 | 1 | 0 | 743 π | 32.00 | 174 |
| " " (" Farm) | " " " | 8 | 1 | 0 | 975 | 35.65 | 170 |
| D Wharfedale (Oughtershaw Hall) | Miss Woodd | 8 | 1 | 6 | 1175 π | 68.54 | 158 |
| D Sedbergh (Dent Vicarage) | Rev. J. A. Hayden ... | 5 | 1 | 0 | 484 π | 69.63 | 210 |
| D " (Akay) | C. E. Taylor, Esq..... | 5 | 1 | 0 | 400 π | 63.07 | 211 |
| D " (Cemetery)..... | Mr. J. Anderson..... | 5 | 1 | 0 | 374 π | 57.01 | 219 |
| " (Thorns Hall) | Miss Sedgwick ... | 5 | 1 | 0 | 400 π | 55.31 | 193 |
| D " (Croasdale Beck) | W. Atkinson, Esq..... | 5 | 1 | 0 | 623 π | 65.46 | 178 |
| EAST RIDING. | | | | | | | |
| § Patrington (Spurn Head) | Meteorological Office ... | 8 | 1 | 0 | 27 | 16.52 | 165 |
| D " | W. B. Pugh, Esq. | 5 | 2 | 6 | 46 π | 19.69 | 148 |
| D Hull (Pearson Park)..... | H. B. Witty, Esq..... | 5 | 0 | 10 | 6 | 20.21 | 188 |
| D " (Springhead) | C. B. Newton, Esq., C.E. | 5 | 1 | 0 | 16 π | 20.84 | 218 |
| D Cottingham (Water Works)..... | " " " | 5 | 1 | 1 | 26 π | 18.60 | 168 |
| D Beverley (East Riding Asylum). | Dr. M. A. Archdale ... | 5 | 1 | 0 | 175 π | 22.98 | 221 |
| " (New Walk) | W. Evans, Esq., C.E.... | 5 | 3 | 0 | 38 | 22.36 | 227 |
| " (Hull Bridge)..... | " " " | 5 | 2 | 6 | 11 π | 20.31 | 193 |

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 | 1908 | |
| | | in. | ft. | in. | feet. | inches. | |
| EAST RIDING—(con.) | | | | | | | |
| D Market Weighton (Dalton Hall) | Mr. W. Jackson..... | 5 | 1 | 6 | 150 T | 24·78 | 162 |
| § Deighton Grove [York] | Miss M. L. Whitehead. | 5 | 2 | 0 | 40 T | 21·28 | 174 |
| D Hornsea (Elim Lodge) | T. B. Holmes, Esq. ... | 8 | 1 | 6 | 30 B | 23·13 | 191 |
| Brandesburton (Hempholm Lock) | W. Evans, Esq., C.E... | 5 | 2 | 6 | 11 A | 22·43 | 204 |
| D Pocklington (Warter) | J. Coxon, Esq. | 5 | 1 | 10 | 230 T | 26·15 | 160 |
| D Heslington [York] | Hon. L. de Yarrowburgh-Bateson | 8 | 0 | 7 | 35 | 22·71 | 189 |
| Dunnington Hall [York] | Miss Hildyard | 8 | 1 | 2 | 110 | 22·09 | 189 |
| § Driffield (York Road) | W. E. Lovel, Esq. ... | 5 | 1 | 0 | 76 T | 22·79 | 168 |
| Wetwang | Rev. E. M. Cole | 5 | 1 | 0 | 235 T | 22·35 | 163 |
| D Thixendale..... | Rev. W. H. Fox | 10 | 0 | 10 | 425 T | 26·89 | 215 |
| D Lowthorpe (The Elms) | H. Onslow Piercy, Esq. | 5 | 1 | 0 | 63 A | 22·69 | 192 |
| D Birdsall Gardens | Mr. J. Anderson..... | 5 | 1 | 3 | 308 | 25·30 | 194 |
| D Bridlington..... | S. R. Crofts, Esq. | 5 | 1 | 0 | 59 | 22·22 | 202 |
| D „ (Grammar School) ... | T. V. T. Baxter, Esq... 8 | 1 | 0 | 57 A | 20·79 | 161 | |
| Welham [Malton]..... | Donald Walker, Esq.... 5 | 0 | 10 | 75 T | 23·33 | ... | |
| D Rillington (Scampston Hall) ... | Mr. F. C. Puddle | 5 | 1 | 6 | 102 A | 22·87 | 194 |
| Hunmanby (Holly Bank)..... | Miss Suter | 5 | 1 | 2 | ... | 22·25 | ... |
| D Filey (Deepdene) | A. V. Machin, Esq. ... 5 | 0 | 8 | 44 A | 22·52 | 198 | |
| NORTH RIDING. | | | | | | | |
| D Warthill (Brockfield Hall) | W. Talbot Agar, Esq.. 5 | 2 | 0 | 60 | 23·21 | 224 | |
| Haxby (Moorlands) | E. G. Tew, Esq..... | ... | 0 | 8 | 58 A | 19·50 | ... |
| Alne | R. Godfrey, Esq., C.E. 5 | 0 | 10 | 80 | 20·05 | 157 | |
| Terrington Hall..... | Mr. T. Suffield | 5 | 1 | 5 | 300 T | 23·22 | 233 |
| D New Malton | M. B. Slater, Esq. 10 | 0 | 10 | 139 A | 21·97 | 199 | |
| D § Hovingham Hall | Sir W. H. A. Worsley, Bt. 5 | 0 | 6 | 120 T | 25·02 | 149 | |
| D Thirsk (Dalton Parsonage) | Rev. G. H. Chilman ... 5 | 1 | 0 | 87 T | 20·84 | 207 | |
| § Ampleforth College | Meteorological Office ... | ... | 1 | 0 | 350 | 21·59 | 167 |
| Thirsk (Sowerby) | A. C. Bamlett, Esq. ... 5 | 6 | 0 | 113 | 19·23 | ... | |
| D „ (The Hall)..... | Reginald Bell, Esq. ... 5 | 1 | 10 | 121 A | 21·27 | 162 | |
| „ (Mount St. John) <i>Snow g.</i> | A. J. Walker, Esq. ... 5 | 1 | 7 | 535 A | 22·97 | ... | |
| D „ { „ „ „ } „ „ „ | „ „ „ „ „ „ „ | 5 | 1 | 0 | 523 A | 23·13 | 182 |
| „ { „ „ „ } <i>Cary g.</i> | „ „ „ „ „ „ „ | 5 | 1 | 0 | 523 A | 22·39 | ... |
| „ { „ „ „ } <i>M</i> | „ „ „ „ „ „ „ | 5 | 1 | 10 | 542 A | 23·06 | ... |
| „ (Boltby)..... | „ „ „ „ „ „ „ | 5 | 0 | 7 | 495 A | 22·59 | ... |
| „ (Cliff Head, Boltby) No. 1 M | „ „ „ „ „ „ „ | 5 | 4 | 7 | 773 A | 20·41 | ... |
| „ { „ „ „ } No. 2 M | „ „ „ „ „ „ „ | 5 | 1 | 4 | 772 A | 24·26 | ... |
| „ (Newbuilding) | G. S. Thompson, Esq.. 8 | 1 | 3 | 600 | 23·87 | 139 | |
| D Thornton-le-Dale | A. Priestman, Esq. ... 5 | 1 | 0 | 150 T | 23·57 | 210 | |
| D Pickering | Dr. J. L. Kirk | 5 | 1 | 0 | 150 | 21·17 | 209 |
| D Bedale (Burneston) | Rev. Canon J. T. Hartley 5 | 3 | 9 | 110 T | 24·29 | 187 | |
| „ (Thorpe Perrow) | Mr. C. W. Tilly..... | 8 | 1 | 6 | 140 | 26·92 | 164 |
| D „ (Park House)..... | Miss M. Greenwood ... 5 | 1 | 1 | 180 | 23·35 | 216 | |
| „ (Newton House) .. | Mr. W. Paylor | 5 | 2 | 6 | 125 | 22·01 | ... |
| D Northallerton (Thornton-le-Moor) | Col. R. W. Peckitt ... 5 | 1 | 0 | 136 T | 23·26 | 185 | |
| D Leyburn (Bolton Hall) | Mr. F. Scrivener | 8 | 1 | 0 | 420 T | 31·79 | 196 |

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 | 1908 | |
| | | in. | ft. | in. | feet. | inches. | |
| NORTH RIDING—(con.) | | | | | | | |
| D Seamer (Irtton Pumping Station) | W. Millhouse, Esq. C. E. | 8 | 1 | 0 | 94 ∇ | 24·08 | 196 |
| D Scarborough (Osgodby)..... | W. W. " " " | 8 | 1 | 0 | 166 ∇ | 22·50 | 145 |
| D§ " " " " " " " " " " | W. W. Larkin, Esq.... | 5 | 1 | 0 | 101 | 20·22 | 192 |
| D " " (Manor Road) | H. W. Smith, Esq. ∇ ... | 5 | 1 | 0 | 170 | 23·41 | 200 |
| D " " (Scalby) | Mrs. J. W. Rowntree... | 5 | 0 | 11 | 300 B | 25·46 | 181 |
| Muker (Gunnarside Lodge) | W. M. Christy, Esq.... | 5 | 1 | 0 | 900 T | 51·76 | ... |
| D Northallerton (Osmotherley)..... | T. Yeoman, Esq. | 8 | 0 | 8 | 660 | 21·75 | 151 |
| § Rounton Grange..... | Mr. J. Hanagan..... | 8 | 1 | 0 | 249 | 22·09 | 206 |
| Richmond (Sedbury Park) | G. Gilpin Brown, Esq.. | 5 | 1 | 0 | 450 | 25·61 | .... |
| D " " (Gilling West)..... | G. Roper, Esq. | 5 | 1 | 3 | 303 T | 25·37 | 148 |
| Middleton Tyas | J. F. B. Baker, Esq. ... | 5 | 0 | 10 | 380 T | 22·34 | ... |
| Fylingdales (The Vicarage) | Rev. R. Jermyn Cooper | 6 | 0 | 10 | 125 | 21·87 | ... |
| D Ingleby Manor | Lord De L'Isle | 5 | 0 | 11 | 460 T | 26·85 | 181 |
| D " " Greenhow..... | P. Huntington, Esq. ... | 5 | 1 | 0 | 448 T | 23·83 | 189 |
| D East Layton Hall | Mrs. Proud | 11 | 1 | 0 | 575 T | 26·71 | 145 |
| D Stanwick Park [Darlington] | Mr. W. Higgin | 5 | 1 | 1 | 300 T | 25·36 | 178 |
| D Forcett Park [" "] | Capt. P. M. French ... | 11 | 1 | 0 | 351 T | 26·57 | 162 |
| D Sleights (Brook Park) | E. Isle Hubbard, Esq... | 5 | 1 | 0 | 80 T | 23·66 | 186 |
| D Whitby (Park Hall, Aislaby) .. | Rev. J. H. Richardson.. | 5 | 1 | 0 | 500 | 26·63 | 236 |
| D§ " " (Crescent Avenue) | T. Newbitt, Esq. | 8 | 5 | 10 | 125 | 19·66 | 170 |
| D Great Ayton (Easby Hall) | J. J. Emerson Esq., LL.D. | 5 | 1 | 0 | 355 | 24·40 | 189 |
| D Kildale Hall | R. B. Turton, Esq. ... | 5 | 1 | 2 | 600 T | 26·50 | 188 |
| D Stokesley (Seamer)..... | J. Pounder, Esq. | 5 | 1 | 4 | 250 | 20·68 | 159 |
| D Whitby (Mulgrave Castle) | Mr. J. Corbett | 5 | 1 | 0 | 410 T | 23·00 | 191 |
| D Guisborough (Lockwood Beck Res) | W. P. Anson, Esq., C. E. | 8 | 1 | 0 | 632 ∇ | 25·11 | 189 |
| " " " " " " " " " " | " " " " " " " " " " | 8 | 1 | 0 | 632 ∇ | 24·89 | ... |
| D Middlesbrough (Ormesby) | Mr. W. Sanderson..... | 5 | 1 | 0 | 100 T | 19·89 | 174 |
| D " " (Linthorpe) | Mrs. C. L. Bell | 8 | 1 | 0 | 48 T | 18·03 | 180 |
| D " " (Albert Park) ... | J. M. Parnaby, Esq. ... | 8 | 1 | 0 | 30 | 17·81 | 165 |
| D Saltburn-by-the-Sea (Skelton Castle) | Mr. J. R. Batty..... | 5 | 0 | 9 | 272 ∇ | 23·68 | 189 |
| Baldersdale (Blackton Reservoir) | D. D. Wilson, Esq. ... | 5 | 1 | 0 | 935 T | 38·30 | ... |
| " " (Balderhead) | " " " " " " " " " " | 5 | 1 | 0 | 1360 | 45·03 | ... |
| D† " " (Hury Reservoir) ... | " " " " " " " " " " | 5 | 1 | 0 | 866 T | 34·42 | 178 |
| Lunedale (Lunehead)..... | " " " " " " " " " " | 5 | 1 | 0 | 1450 | 55·54 | ... |
| " " (Selset) | " " " " " " " " " " | 5 | 1 | 0 | 924 T | 41·95 | ... |
| D† " " (Grassholme Reservoir) | " " " " " " " " " " | 5 | 1 | 0 | 936 ∇ | 38·62 | 181 |
| D† Mickleton | No. 1 Dr. H. R. Mill | 8 | 1 | 0 | 850 | 25·06 | 197 |
| " " | No. 2 " " " " " " " " " " | 8 | 1 | 0 | 860 ? | 29·85 | ... |
| † " " (Lime Kiln Pasture)... | " " " " " " " " " " | 8 | 1 | 0 | 1175 T | 30·95 | ... |

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DIVISION X.—NORTHERN COUNTIES.

DURHAM.

| | | | | | | | | |
|---|---------------------------------|-------------------------|---|---|---|--------------|-------|-----|
| D | Darlington (Hurworth Grange)... | Mrs. J. E. Backhouse... | 5 | 1 | 0 | 161 ∇ | 20·96 | 166 |
| D | " " (Cleveland Parade)... | W. W. Willmott, Esq. | 5 | 1 | 3 | 160 T | 21·83 | 171 |

DIVISION X.—NORTHERN COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | | Depth of Rain. | Days with 0.1 or more recorded. |
|--------------------------------------|---------------------------|-------------|----------------------|-----|------------------------|----------------|---------------------------------|
| | | Diameter | Height Above Ground. | | Height Above Sea Level | 1908 | |
| | | in. | ft. | in. | feet. | inches. | |
| DURHAM—(con.) | | | | | | | |
| D Darlington (Public Park)..... | Mr. J. Morrison | 5 | 1 | 0 | 150 ? | 24.07 | 178 |
| D „ (Hummersknott) | Mr. J. Short | 5 | 1 | 0 | 200 | 21.08 | 134 |
| D† Barnard Castle (County School) .. | R. Hitchcock, Esq. ... | 5 | 1 | 6 | 540 A | 26.48 | 196 |
| D Gainford | Walter Scott, Esq. ... | 5 | 1 | 0 | 260 T | 23.09 | 149 |
| D Stockton (Rimswell) | W. Anderson, Esq., C.E. | 8 | 1 | 0 | 100 T | 20.37 | 186 |
| D „ (Ropner Park) | M. H. Sykes, Esq. | 5 | 1 | 9 | 61 A | 19.22 | 162 |
| D „ (Londonderry Road) ... | W. B. Heberden, Esq. ... | 8 | 4 | 1 | 46 T | 18.81 | 169 |
| D Hurworth Burn (Crookfoot Res.) .. | T. Bower, Esq., C.E. ... | 10 | 1 | 6 | 293 A | 21.13 | 204 |
| D West Hartlepool (Lynn Street) .. | Mr. H. Lamb | 5 | 65 | 0 | 84 | 13.68 | 169 |
| „ „ (Water Works) .. | T. Bower, Esq., C.E. ... | 10 | 1 | 0 | 35 A | 23.93 | ... |
| D „ „ (Bradgate) | G. H. Baines, Esq. | 8 | 1 | 3 | 100 T | 23.63 | 189 |
| D Hurworth Burn | T. Bower, Esq., C.E. ... | 10 | 1 | 0 | 357 A | 22.60 | 200 |
| D Hartlepool (Hart Reservoir) | „ „ „ | 10 | 1 | 0 | 172 A | 18.83 | 182 |
| D Willington Rectory | Rev. T. Urmson | 5 | 1 | 0 | 285 T | 22.76 | 149 |
| Weardale (Cowshill) | Mr. J. T. Carr | 6 | 1 | 0 | 1240 | 36.08 | ... |
| D Stanhope (Parson Byer's Quarry) .. | Messrs. Bell Bros., Ltd. | 5 | 6 | 8 | 846 T | 28.12 | 159 |
| D Wearhead Station | Mr. R. Rust | 5 | 0 | 6 | 1104 | 47.36 | 169 |
| § Durham Observatory | Meteorological Office ... | 12 | 4 | 0 | 352 | 19.40 | 182 |
| § Ushaw (St. Cuthbert's College) .. | Rev. Dr. C. Gelderd ... | 5 | 0 | 9 | 600 A | 25.24 | 206 |
| Pittington (Elemore Hall) | Miss Baker Baker | 8 | 0 | 6 | 323 T | 20.31 | ... |
| D Weardale W.W. (Tunstall Res.) .. | R. Askwith, Esq., C.E. | 8 | 1 | 2 | 724 A | 29.13 | 158 |
| „ „ (Waskerley 6) .. | „ „ „ | 8 | 4 | 2 | 1229 A | 24.65 | ... |
| „ „ („ 3) .. | „ „ „ | 8 | 4 | 6 | 1433 A | 29.81 | ... |
| „ „ („ 4) .. | „ „ „ | 8 | 4 | 7 | 1321 A | 26.42 | ... |
| „ „ („ 5) .. | „ „ „ | 8 | 4 | 2 | 1244 A | 27.48 | ... |
| D „ „ („ 2) .. | „ „ „ | 8 | 0 | 11 | 1179 A | 29.16 | 204 |
| „ „ („ 1) .. | „ „ „ | 8 | 4 | 5 | 1367 A | 26.46 | ... |
| „ „ („ 1) .. | „ „ „ | 8 | 4 | 4 | 1317 A | 26.54 | ... |
| D „ „ (Smiddy Shaw) .. | „ „ „ | 8 | 1 | 3 | 1128 A | 31.02 | 205 |
| Seaham (Dalton Pumping Sta.) .. | A. B. E. Blackburn, Esq. | 8 | 1 | 0 | 345 A | 18.18 | 175 |
| Fence Houses (Chilton Moor) ... | V. W. Corbett, Esq. ... | 5 | 1 | 4 | 186 T | 17.22 | ... |
| D Seaham Harbour | Mr. G. H. Aird | 8 | 1 | 6 | 141 | 18.49 | 167 |
| „ Hall | the late Mr. R. Draper | 5 | 1 | 0 | 112 A | 18.77 | ... |
| Chester-le-Street (Biddick Hall) .. | Mr. A. Bentley | 5 | 1 | 0 | 150 T | 21.96 | 158 |
| Ryhope Pumping Station | A. B. E. Blackburn, Esq. | 8 | 1 | 1 | 228 A | 18.24 | 169 |
| D Medomsley (Manor House) | H. Palmer, Esq. | 5 | 1 | 0 | 746 A | 22.33 | 175 |
| D Burnopfield (Leazes Hall) | H. F. Bulman, Esq. ... | 5 | 1 | 0 | 585 T | 24.03 | 169 |
| D† Sunderland (W. Hendon Ho.) No. 5 | T. W. Backhouse, Esq. | 5 | 1 | 0 | 130 A | 18.99 | 182 |
| † „ („ „ „ „) No. 6 | „ „ „ „ „ | 5 | 1 | 0 | 130 A | 18.99 | 180 |
| D „ (Mowbray Park) | H. Renny, Esq., M.D. ... | 5 | 1 | 0 | 105 | 19.23 | 177 |
| „ (Claxheugh Grove) ... | J. P. Cornett, Esq. | 5 | 2 | 6 | 90 | 19.13 | ... |
| D „ (The Cedars) | W. F. Vint, Esq. | 5 | 0 | 6 | 115 T | 18.45 | 155 |
| D „ (Southwick Cemetery) .. | Mr. J. R. Hodgson | 8 | 1 | 0 | 171 A | 19.95 | 146 |
| „ (Boldon Rectory) | Rev. J. G. B. Knight ... | 5 | 0 | 9 | 100 ? | 18.62 | 149 |
| „ (Cleaton Pumping Sta.) .. | A. B. E. Blackburn, Esq. | 8 | 1 | 0 | 216 A | 18.60 | 149 |
| D Ryton-on-Tyne | J. P. Dalton, Esq. | 5 | 1 | 0 | 258 A | 21.64 | 180 |
| „ „ (Balgonie House) .. | J. W. Smith, Esq., M.D. | 5 | 1 | 6 | 258 | 22.24 | ... |

DIVISION X.—NORTHERN COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with .01 or more recorded. |
|--------------------------------------|----------------------------------|-------------|----------------------|------------------------|------------------------|---------------------------------|
| | | Diameter | Height Above Ground. | Height Above Sea Level | | |
| | | in. | ft. in. | feet. | inches. | |
| NORTHUMBERLAND. | | | | | | |
| D Haltwhistle (Bellister Castle) ... | J. M. Clark, Esq. | 5 | 1 0 | 380 | 35.90 | 187 |
| D Corbridge (Howden Dene) | J. H. Straker, Esq. ... | 5 | 0 9 | 200 T | 24.92 | 195 |
| D Bardon Mill (Beltingham Vic.).. | Rev. H. C. Newbery ... | 5 | 3 0 | 323 | 29.02 | 200 |
| Newcastle (Lit. and Phil. Soc.).. | H. Richardson, Esq. ... | 8 | 55 0 | 160 | 23.37 | ... |
| D „ (Chronicle Office) ... | Newcastle Chronicle ... | 8 | 30 0 | 148 | 20.37 | 145 |
| § „ (Northumberland Rd.) | N. H. Martin, Esq. ... | 8 | 45 0 | 200 | 20.03 | 195 |
| „ (Leazes Park) | C. R. S. Kirkpatrick, Esq., C.E. | 5 | 1 0 | 255 T | 21.10 | ... |
| D „ (Town Moor) | A. Wright, Esq. | 5 | 2 0 | 201 T | 22.21 | 195 |
| D „ (Wellburn, Jesmond). | J. H. Holmes, Esq. ... | 5 | 1 6 | 163 T | 21.30 | 144 |
| D Haddon-on-the-Wall Vicarage... | Rev. W. G. Pringle ... | 5 | 1 0 | 420 T | 24.05 | 189 |
| § North Shields (Dockwray Square) | Meteorological Office ... | 8 | 1 4 | 117 | 20.03 | 182 |
| D Tynemouth (Tyne Pier Works).. | J. Walker, Esq., C.E... | 5 | 1 8 | 65 T | 20.25 | 182 |
| Stamfordham Vicarage | Rev. G. Evans-Gwynne | 5 | 0 6 | 422 | 23.03 | ... |
| Whittle Dean (Newcastle W.W.) | A. L. Forster, Esq., C.E. | 5 | 0 6 | 380 | 21.37 | ... |
| „ „ Filters(„ „) | „ „ „ | 5 | 1 1 | 353 | 22.76 | 176 |
| Whittington („ „) | „ „ „ | 8 | 0 9 | 528 | 24.15 | ... |
| Burnside („ „) | „ „ „ | 5 | 0 9 | 419 | 22.73 | ... |
| N. Tyne (Green Crag)(„ „) | „ „ „ | 5 | 1 6 | 896 T | 25.64 | ... |
| Ryal Cottage („ „) | „ „ „ | 10 | 0 9 | 463 | 24.91 | ... |
| Hallington Village („ „) | „ „ „ | 5 | 1 0 | 467 T | 25.74 | ... |
| „ Reservoirs(„ „) | „ „ „ | 5 | 1 0 | 470 | 24.71 | ... |
| „ (Fawcett) („ „) | „ „ „ | 5 | 1 2 | 537 T | 24.34 | ... |
| „ (Cheviot) („ „) | „ „ „ | 5 | 1 2 | 576 | 23.98 | ... |
| Gunnerton Burn(Camphill)(„ „) | „ „ „ | 5 | 1 1 | 650 T | 25.14 | ... |
| Colt Crag („ „) | „ „ „ | 5 | 1 0 | 654 | 24.40 | ... |
| Bellingham (High Green Manor) | Capt. C. Morrison-Bell | 5 | 1 0 | 849 T | 33.22 | ... |
| D Scots Gap (Wallington) | Mr. E. Keith | 8 | 2 9 | 446 T | 33.61 | 155 |
| D Angerton Hall | Mr. R. Elliott | 5 | 1 0 | 320 T | 29.06 | 177 |
| † Morpeth | T. Matheson, Esq..... | 8 | 1 6 | 100 | 24.55 | 150 |
| D† „ (Bothalhaugh Garden).. | Hon. & Rev. W. C. Ellis | 5 | 1 10 | 35 | 22.94 | 215 |
| † „ („ „) M | „ „ „ „ | 5 | 1 10 | 35 | 21.85 | ... |
| D† „ („ „ Lawn).... | „ „ „ „ | 5 | 1 10 | 137 | 22.72 | 215 |
| † „ („ „) M | „ „ „ „ | 5 | 1 10 | 135 | 22.96 | ... |
| „ (Longhirst Hall)..... | Hon. J. A. Joicey | 7 | 1 0 | 168 | 18.82? | ... |
| D§ „ (Cockle Park).. | T. E. W. Dobson, Esq. | 8 | 1 0 | 325 T | 25.88 | 216 |
| D Font Res. (Tynemouth W.W.) A | H. G. Coventry, Esq., C.E | 10 | 0 6 | 620 T | 26.56 | 205 |
| Redpath („ „) E | „ „ „ | 10 | 0 6 | 850 T | 29.46 | ... |
| Tod Crag („ „) B | „ „ „ | 10 | 0 6 | 1000 T | 28.63 | ... |
| Fallowlees („ „) D | „ „ „ | 10 | 0 6 | 850 T | 30.25 | ... |
| Chartners („ „) C | „ „ „ | 10 | 0 6 | 1000 T | 28.77 | ... |
| † Acklington (Broomhill Colliery) | J. H. Merivale, Esq. . . | 5 | 7 0 | 90 ? | 19.52 | ... |
| Rothbury (Brinkburn Priory) ... | Mrs. Hugh Fenwick ... | 8 | 1 2 | 257 T | 24.23 | ... |
| D§ „ (Cragside)..... | Lord Armstrong..... | 8 | 1 0 | 405 T | 29.49 | 185 |
| Redewater (Chattlehope) | A. L. Forster, Esq., C.E. | 5 | 1 0 | 900 | 44.08 | 220 |
| „ (Cateleugh) | „ „ „ | 5 | 1 0 | 819 | 39.65 | 220 |
| Alwinton (Biddleston Hall) | P. Dodds, Esq. | 5 | 1 0 | 820 T | 28.77 | 172 |
| § Alnwick Castle | Meteorological Office ... | 5 | 0 4 | 178 | 23.60 | 184 |
| D Glanton (Glanton Pyke Gardens) | Mr. J. Henderson | 8 | 4 2 | 521 T | 25.68 | 202 |

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 | | 1908 |
| | | in. | ft. | in. | feet. | inches. | |
| NORTHUMBERLAND—(con.) | | | | | | | |
| D Howick Hall | Earl Grey | 8 | 0 | 10 | 121 π | 23.98 | 163 |
| Ilderton (Lilburn Tower) | A. B. Collingwood, Esq. π | 10 | 6 | 0 | 300 π | 20.45 | ... |
| D " (" Cottage) | N. D. Cowans, Esq. ... | 5 | 1 | 0 | 340 π | 22.01 | 178 |
| Wooler (St. Ninians)..... | Dr. R. Walker | 8 | 0 | 10 | 176 π | 23.68 | ... |
| " (Doddington Vicarage) .. | Rev. J. G. Shotton..... | 8 | 0 | 6 | 140 π | 20.67 | ... |
| D " (Fenton) | Hon. F. W. Lambton, MP | 8 | 1 | 6 | 200 | 23.55 | 202 |
| Bamburgh | T. W. Little, Esq. | 5 | 1 | 0 | 75 π | 17.70? | ... |
| D Pawston [Coldstream] | B. P. Selby, Esq. | 8 | 1 | 0 | 328 π | 24.63 | 186 |
| Beal (Barmoor Castle) | Dr. T. Hodgkin | 8 | 3 | 6 | 400 | 23.47 | 161 |
| CUMBERLAND. | | | | | | | |
| D Millom (Leyfield) | Cedric Vaughan, Esq. CE | 5 | 1 | 2 | 81 π | 43.40 | 218 |
| Ravenglass (The Grove) | Miss C. Marshall | 5 | 1 | 2 | 84 π | 43.51 | 192 |
| § Eskdale Green (Gatehouse) | " " " " | 5 | 0 | 10 | 215 π | 57.98 | 224 |
| D Beckfoot | Rev. T. W. Fair..... | 5 | 1 | 0 | 180 π | 67.14 | 225 |
| D Seascale (Whinthwaite) | Dr. R. Hellon | 5 | 1 | 0 | 52 π | 37.24 | 201 |
| D Gosforth (Bolton Hall)..... | Col. J. R. Bain | 5 | 1 | 8 | 135 π | 46.35 | 202 |
| D " (Ellerslie) | W. H. Kitchen, Esq.... | 5 | 1 | 0 | 185 π | 46.86 | 202 |
| Braystones | H. H. Watson, Esq. ... | 10 | 3 | 6 | 36 π | 39.62 | ... |
| D Calder Abbey..... | T. H. Rymer, Esq..... | 8 | 1 | 3 | 230 π | 44.77 | 204 |
| Styehead Tarn | M Dr. H. R. Mill | 4 | 0 | 6 | 1472 π | 135.85 | ... |
| The Stye B | M " " " | 4 | 1 | 0 | 1077 π | 175.60 | ... |
| " C | M " " " | 4 | 1 | 0 | 1077 π | 177.25 | ... |
| " D | M " " " | 4 | 1 | 0 | 1077 π | 141.25 | ... |
| Borrowdale (Seathwaite) | M " " " | 4 | 0 | 6 | 422 π | 127.04 | ... |
| " (") weekly | " " " " | 5 | 1 | 0 | 422 π | 126.72 | ... |
| D § " (") | Royal Meteorological Soc | 5 | 1 | 0 | 423 π | 127.38 | 225 |
| " (") | Miss C. Marshall | 5 | 1 | 0 | 423 | 126.35 | ... |
| Ullscarf | M G. H. Hill, Esq., C.E.. | 7 | 1 | 8 | 2100 π | 113.80 | ... |
| Egremont (Ringingstone) | Harold Adair, Esq. ... | 5 | 1 | 0 | 260 π | 44.71 | 217 |
| D St. Bees (The Priory) | Rev. R. H. Snape | 5 | 1 | 1 | 6 ? | 38.86 | 241 |
| Cleator Moor Water Works | R. Robertson, Esq., C.E. | 5 | 0 | 6 | 395 π | 53.54 | 166 |
| Frizington (Parkside Mines) ... | H. Norman Morris, Esq. | 8 | 20 | 0 | 320 π | 41.90 | ... |
| Helvellyn (Birkside) | M G. H. Hill, Esq., C.E.. | 7 | 1 | 3 | 1900 π | 93.40 | ... |
| Wythburn | " " " " | 7 | 1 | 4 | 580 π | 82.10 | ... |
| Buttermere (Hassness) | Mr. R. J. Carroll | 5 | 1 | 0 | 355 | 100.99 | 212 |
| D Borrowdale (Grange) | Mr. J. Threlkeld | 5 | 0 | 9 | 271 π | 84.91 | 210 |
| Armboth Fells (The Pewitts)..... | G. H. Hill, Esq., C.E.. | 7 | 1 | 6 | 1650 π | 84.10 | ... |
| Helvellyn (Whiteside) | " " " " | 7 | 1 | 6 | 2100 π | 76.50 | ... |
| Thirlmere (Dale Head Hall) ... | " " " " | 7 | 1 | 5 | 620 π | 71.00 | ... |
| D Whitehaven (Scragill Reservoir) .. | E. E. Stiven, Esq., C.E. | 8 | 1 | 0 | 188 π | 39.01 | 210 |
| D " (Irish Street) | Dr. Welby I'Anson ... | 5 | 1 | 1 | 21 π | 39.47 | 210 |
| Distington (Gilgarran) | Mr. A. Kydd | 5 | 4 | 9 | 470 π | 40.00 | 204 |
| Ullswater (Hallsteads) | Miss C. Marshall | 5 | 2 | 0 | 497 π | 51.80 | 208 |
| Keswick (Deer Close) | John Marshall, Esq. .. | 7 | 1 | 9 | 300 π | 57.32 | 213 |
| " (Derwent Island) old g. | " " " " | 5 | 0 | 7 | 280 | 55.10 | 218 |

DIVISION X.—NORTHERN COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth
of Rain.
1908 | Days with
-01 or
more recorded. |
|--|---------------------------|-------------|----------------------------|------------------------------|---------------------------|---------------------------------------|
| | | Diameter | Height
Above
Ground. | Height
Above
Sea Level | | |
| | | in. | ft. in. | feet. | inches. | |
| CUMBERLAND—(con.) | | | | | | |
| Keswick (Derwent Island) <i>new g.</i> | John Marshall, Esq. ... | 5 | 0 6 | 290 | 52·34 | 218 |
| D „ (York City & Co. Bank) | Mr. R. W. Mayson ... | 5 | 1 6 | 265 T | 52·78 | 219 |
| D „ (Shu-le-crow) | A. Mitchell Dawson, Esq. | 5 | 0 7 | 296 T | 53·07 | 223 |
| D „ (Crosthwaite School)... | H. Swinburn, Esq. | 5 | 1 0 | 254 T | 51·51 | 210 |
| D Ullock | J. H. Walker, Esq. ... | 5 | 1 0 | 313 T | 50·26 | 219 |
| D Workington (Winscales) | Mrs. J. A. Trench | 5 | 1 6 | 440 T | 35·62 | 187 |
| D Cockermouth (Whinfell Hall)... | Mrs. F. M. Peile | 5 | 0 1 | 255 T | 55·80 | 224 |
| D „ (Brandlingill) | Mrs. Sewell | 9 | 1 0 | 320 T | 57·73 | 206 |
| D „ (Shatton Hall) | Miss Irwin | 5 | 1 0 | 300 T | 40·26 | 231 |
| D Threlkeld (Blencathra San.) | Dr. W. Goodchild | 5 | 1 0 | 885 T | 56·25 | 235 |
| Camerton Vicarage | Rev. E. C. Bennett ... | 5 | 1 0 | 200 T | 38·06 | ... |
| Bassenthwaite (Mirehouse) | Miss Spedding | 5 | 1 1 | 300 | 45·68 | 214 |
| „ (Higham) | Joseph Fisher, Esq. | 5 | 0 9 | 500 | 42·47 | 176 |
| D „ (Bassenfell) | Mrs. S. G. Rathbone ... | 8 | 1 0 | 384 | 39·03 | 191 |
| D Cockermouth (Broughton Grange) | G. S. Wilson, Esq. ... | 5 | 1 3 | 209 T | 39·47 | 216 |
| Hutton John | Rt. Hon The Speaker, MP | 5 | 0 11 | 700 T | 43·11 | 207 |
| Penrith (Nandana) | G. Varty-Smith, Esq. ... | 5 | 1 0 | 650 T | 32·30 | 265 |
| § „ (Fir Bank, Fell Lane) .. | T. Lester, Esq. | 5 | 1 0 | 575 T | 26·99 | 168 |
| § „ (Newton Rigg) | Meteorological Office ... | 8 | 1 0 | 559 | 31·91 | 209 |
| „ (Greystoke) | H. Walker, Esq. | 5 | 1 3 | 650 | 41·13 | ... |
| D „ („ Belle Vue) .. | Miss E. A. Rowe | 5 | 4 0 | 680 T | 33·32 | 191 |
| „ (Ennim) | Mrs. Hamlet Riley ... | 8 | 0 6 | 660 | 37·01 | 188 |
| „ (Inglewood) | H. F. Thompson, Esq. .. | 5 | 1 0 | 550 T | 33·67 | 180 |
| D Bassenthwaite (Armathwaite Hall) | T. M. Hartley, Esq. ... | 8 | 1 0 | 305 | 40·22 | 236 |
| D Cockermouth (Isel Vicarage) ... | Rev. W. Vale Bagshawe | 5 | 0 8 | 200 | 42·25 | 208 |
| Maryport (Netherhall) | Mrs. H. P. Senhouse ... | 5 | 0 6 | 27 T | 38·42 | 152 |
| D Penrith (Nunwick Hall) | Mrs. Heywood Thompson | 5 | 1 0 | 298 T | 31·49 | 190 |
| D § Aspatria (Agricultural College) .. | J. Smith Hill, Esq. ... | 8 | 1 0 | 251 | 39·26 | 218 |
| „ (Brayton Hall) | Sir Wilfrid Lawson Bart. | 8 | 0 8 | 200 | 39·91 | 216 |
| D Wigton (Brookfield) | J. J. Jopling, Esq. | 5 | 0 9 | 124 T | 38·42 | 230 |
| D Alston (Lowbyer Manor House) | J. R. Walton, Esq. ... | 5 | 1 0 | 920 | 37·70 | 216 |
| Wreay Vicarage | Rev. A. R. Hall | 5 | 2 0 | 310 T | 29·93 | 194 |
| D Geltsdale | H. C. Marks, Esq., C.E. | 5 | 1 2 | 778 T | 33·57 | 230 |
| Carlisle (Spital Cemetery) | J. Veitch, Esq. | 8 | 4 0 | 114 T | 33·30 | 201 |
| „ (Rickerby) | Miles MacInnes, Esq. ... | 8 | 1 2 | 52 T | 29·08 | ... |
| „ (Stanwix) | Sir Benjamin Scott ... | 8 | 1 6 | 100 T | 31·60 | 188 |
| D „ (Newby Grange) | T. H. Hodgson, Esq. ... | 5 | 0 8 | 64 T | 27·88 | 201 |
| § „ (Scaleby Hall) | Royal Meteorological Soc | 5 | 1 0 | 112 | 35·18 | 240 |
| D Brampton (Denton House) | Miss B. Gardhouse | 5 | 1 5 | 541 T | 30·22 | 198 |
| D Penton (Warwick's Land School) .. | W. Roden, Esq. | 5 | 1 0 | 250 B | 38·17 | 209 |
| WESTMORLAND. | | | | | | |
| Kirkby Lonsdale | J. R. Picard, Esq. | 7 | 0 8 | 215 T | 51·07 | ... |
| D „ „ (Casterton) | R. A. Clarke, Esq. | 8 | 1 0 | 305 | 52·16 | 228 |

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 | 1908 | |
| | | in. | ft. in. | feet. | inches. | |
| WESTMORLAND—(con.) | | | | | | |
| Barbon (Underfell) | Miss C. E. Wilson | 5 | 1 5 | 395 B | 46·09 | 190 |
| D „ Manor | A. Ford, Esq. | 6 | 1 3 | 650 T | 48·77 | 169 |
| D „ | Miss Wilkinson | 5 | 1 0 | 310 T | 49·97 | 171 |
| D Milnthorpe (Leasgill) | T. A. Argles, Esq. | 5 | 0 8 | 130 | 44·25 | 206 |
| D „ (Crosthwaite Vic.) | Rev. T. Heelis | 5 | 1 0 | 160 T | 52·99 | 204 |
| D Kendal (Helm View) | W.R.Wilson, Esq., C.E. | 5 | 1 0 | 138 | 54·33 | 164 |
| D „ (Holmercroft) | R. Rhodes, Esq. | 5 | 1 3 | 176 T | 55·84 | 215 |
| D „ (Ivy Garth) | R. J. Nelson, Esq. | 5 | 1 6 | 146 T | 55·15 | 206 |
| D „ (Birchfield) | H. W. Baron, Esq. | 5 | 1 6 | 200 | 57·56 | 204 |
| D „ (Ellergreen) | C. J. Cropper, Esq. | 5 | 1 6 | 270 T | 59·01 | 218 |
| D Bowness (Lindeth Howe) | F. G. Senior, Esq. | 5 | 1 0 | 250 T | 63·05 | 204 |
| D „ (Fallbarrow) | J. Leeming, Esq. | 8 | 1 0 | 155 T | 62·52 | 192 |
| Windermere | Miss C. Marshall | 5 | 1 0 | 290 T | 62·25 | 217 |
| D „ (Fellside) | T. D. Lingard, Esq. | 5 | 0 6 | 310 T | 61·96 | 183 |
| D „ (Holehird) | W. G. Groves, Esq. | 5 | 1 0 | 483 T | 70·42 | 222 |
| D „ (Brockhole) | W. Gaddum, Esq. | 5 | 1 6 | 145 | 69·08 | 221 |
| D Ambleside (Skelwith Bridge) .. | A. J. Adams, Esq. | 5 | 1 9 | 190 T | 88·08 | 198 |
| Little Langdale (Fell Foot) ...M | Miss C. Marshall | 5 | 2 2 | 380 | 107·56 | ... |
| Ambleside (White Craggs) | C. H. Hough, Esq. | 5 | 2 4 | 252 | 72·63 | 235 |
| D „ (Gale House) | G.A. Johnston, Esq. M.D. | 5 | 1 0 | 250 T | 76·34 | 234 |
| D Elterwater Hall | Miss M. Astley | 5 | 1 1 | 200 | 87·51 | 221 |
| Rydal (The Stepping Stones) ... | Gordon Wordsworth Esq .. | 5 | 1 0 | 190 | 80·33 | 252 |
| „ „ „ „ „ „ M | „ „ „ „ „ „ | 5 | 1 3 | 190 | 80·12 | ... |
| D Loughrigg (Silverthwaite) No. 1 | Miss A. Sharp | 5 | 1 0 | 292 B | 77·58 | 217 |
| D „ „ „ „ „ „ No. 2 | „ „ „ „ „ „ | 5 | 1 0 | 280 | 79·84 | 216 |
| Ambleside (Rydal Farm) | Ralph Fletcher, Esq. | 5 | 0 8 | 160 | 80·11 | 213 |
| D Dungeon Ghyll | Miss C. Marshall | 5 | 1 0 | 310 | 109·73 | 270 |
| „ „ „ „ „ „ M | „ „ „ „ „ „ | 5 | 1 0 | 311 | 107·13 | ... |
| Mickleden | „ „ „ „ „ „ M | 5 | 1 6 | 490 | 125·85 | ... |
| D Grasmere (High Close) | F.M.T. Jones Balme, Esq .. | 8 | 0 9 | 553 T | 83·50 | 199 |
| D „ (The Wray) | Miss G. M. Simpson | 5 | 1 0 | 221 T | 91·90 | 240 |
| D Kirkby Stephen (Redman House) | Mrs. T. Mason | 5 | 1 0 | 574 T | 41·54 | 200 |
| Hayes Water (High Street) No. 3 | Baldwin Latham Esq., CE .. | 5 | 1 0 | 2600 T | 78·57 | ... |
| „ „ „ „ „ „ No. 1 | „ „ „ „ „ „ | 5 | 1 0 | 1750 T | 94·64 | ... |
| „ „ „ „ „ „ No. 2 | „ „ „ „ „ „ | 5 | 1 0 | 2000 T | 70·05 | ... |
| Shap Vicarage | Rev. W. H. Crompton. | 5 | 1 0 | 863 T | 45·03 | 203 |
| Grizedale (Ruthwaite Lodge) ... | Miss C. Marshall | 8 | 1 6 | 1750 | 105·17 | ... |
| Patterdale Hall | „ „ „ „ „ „ | 5 | 1 3 | 490 T | 78·41 | 217 |
| „ (Greenside Mine) | W. H. Borlase, Esq. | 7 | 1 6 | 1000 T | 85·70 | ... |
| D Appleby (Castle Bank) | C. R. Rivington, Esq. | 5 | 1 2 | 440 T | 35·12 | 214 |
| Ullswater (Sharrow Bay) | Mr. G. Robinson | 5 | 0 7 | 600 | 42·59 | ... |
| D Great Strickland (Greencroft) ... | Mrs. Whiteside | 5 | 2 0 | 648 T | 33·32 | 192 |
| D Morland [Penrith] | Miss M. F. Markham | 5 | 1 0 | 456 T | 34·06 | 211 |
| Lowther Castle [Penrith] | Mr. F. Clarke | 8 | 4 0 | 760 T | 24·34 | 176 |

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS.

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with ≥ 0.1 or more recorded. |
|---------------------------------------|----------------------------|-------------|----------------------|-------------------------|------------------------|--|
| | | Diameter | Height Above Ground. | Height Above Sea Level. | | |
| | | in. | ft. in. | feet. | inches. | |
| MONMOUTH. | | | | | | |
| D§ Rumney (Witla Court)..... | late H. Heywood, Esq. | 5 | 1 0 | 176 ∇ | 34.86 | 200 |
| Caldicot Level (Porton)..... | Blethyn T. Rees, Esq. CE | 5 | 1 3 | 27 ∇ | 27.03 | 158 |
| D Portskewett (Sudbrook) | W. K. Laurence, Esq. CE | 8 | 0 10 | 22 \uparrow | 29.07 | 155 |
| Bassalleg (Bryn Hedydd) | Blethyn T. Rees, Esq. CE | 5 | 0 8 | 333 ∇ | 38.02 | 177 |
| Rogerstone (Rhiwderin) | L. Forestier-Walker Esq. | 5 | 1 3 | 250 | 38.60 | 203 |
| Caerleon (Llanwern House) | D. A. Thomas, Esq., M.P. | 8 | 1 0 | 190 \uparrow | 29.56 | 137 |
| D§ Newport (Friar Street Yard) ... | C. Cullum, Esq. | 5 | 6 0 | 32 | 35.76 | 177 |
| D§ " (Ynis-y-fro) | " " " | 5 | 1 0 | 130 \uparrow | 26.68 | 176 |
| D§ " (Pant-y-reos Res.) | " " " | 5 | 1 0 | 435 | 45.94 | 182 |
| D " (W. W., Llanvaches) | R. H. Haynes, Esq., C.E. | 5 | 0 10 | 456 ∇ | 31.57 | 204 |
| D " (Wentwood) | " " " | 5 | 1 0 | 500 ∇ | 35.07 | 194 |
| D Chepstow (Piercefield Park) | H. Clay, Esq. | 5 | 1 6 | 310 | 30.95 | 172 |
| D " (Itton Court) | E. Curre, Esq. | 5 | 1 0 | 390 | 33.81 | 194 |
| D Llanfrechfa Grange | F. J. Mitchell Esq. ... | 5 | 4 0 | 326 ∇ | 35.88 | 193 |
| D Tredunnoch Rectory | Rev. C. T. Salusbury... | 5 | 2 3 | 170 ∇ | 30.97 | 159 |
| D§ Newport (W. W., Newchurch)... | R. H. Haynes, Esq., C.E. | 5 | 1 0 | 525 ∇ | 35.80 | 198 |
| Abersychan (The Hawthorns)... | J. W. Mulligan, Esq., MD | 5 | 1 0 | 755 \uparrow | 44.90 | 218 |
| § " (Glansychan) | Meteorological Office... | 3 | 2 0 | 698 | 43.49 | 154 |
| D Abertillery (Cwmtilbery) | W. Y. Hobkirk, Esq. ... | 5 | 1 0 | 970 \uparrow | 53.21 | 181 |
| D Tredegar (The Willows) | G. A. Brown, Esq., M.D. | 8 | 1 0 | 1024 \uparrow | 50.14 | 185 |
| D Ebbw Vale (Iron Works) | F. Mills, Esq. | 8 | 1 0 | 902 ∇ | 50.91 | 204 |
| D Monmouth (The Hendre) | Mr. T. Coomber | 8 | 1 0 | 176 \uparrow | 23.69 | 168 |
| D " (Leasbrook) | Rev. Humphrey F. Hall | 5 | 1 0 | 110 | 24.64 | 142 |
| Abergavenny (Larchfield) | Dr. J. Glendinning ... | 5 | 1 0 | 240 \uparrow | 29.42 | 166 |
| D† " (The Chain) | W. Baker Gabb, Esq. ... | 5 | 1 3 | 300 | 32.12 | 168 |
| D Monmouth (Pentwyn) | Rev. Canon J. Harding | 5 | 1 0 | 191 ∇ | 24.45 | 149 |
| D Llantilio Court | Sir H. Mather-Jackson Bt | 5 | 0 11 | 207 | 28.74 | 151 |
| Pandy (Trewyn) | P. B. Barneby, Esq. ... | 8 | 1 0 | 444 ∇ | 33.55 | ... |
| D† Grwyne Fawr (Coed Dias) | W. Baker Gabb, Esq. ... | 5 | 1 0 | 1000 ? | 43.22 | 242 |
| D† " " (Ffwydd Fwthog) | Baldwin Latham, Esq. CE | 5 | 0 8 | 1380 ∇ | 36.15 | 238 |
| D† Llanthony Abbey | " " " | 5 | 1 0 | 792 ∇ | 40.75 | 188 |
| GLAMORGAN. | | | | | | |
| Barry (Canon Street) | E. W. Waite, Esq., C.E. | 5 | 1 0 | 87 | 29.43 | 159 |
| Cowbridge (Fonmon Castle) | O. H. Jones, Esq. | 8 | 1 2 | 130 | 32.53 | 180 |
| D Barry W. W. (Biglis) | T. E. Franklin, Esq. C.E. | 5 | 1 0 | 20 \uparrow | 27.92 | 162 |
| " " (Merthyr Dyfan Res.) | " " " | 5 | 1 0 | 300 \uparrow | 32.36 | ... |
| " " (Pencoedtre Res.) | " " " | 5 | 1 0 | 200 \uparrow | 31.06 | ... |
| D " " (Dinas Powis Res.) | " " " | 5 | 1 0 | 165 \uparrow | 29.43 | 164 |
| D Lower Penarth | E. I. Evans, Esq., C.E. | 5 | 1 0 | 67 ∇ | 29.89 | 228 |
| D Penarth | " " " | 5 | 5 0 | 160 ∇ | 30.11 | 187 |
| Cardiff (Cogan Pill, Llandough) | C. H. Priestley, Esq. C.E. | 5 | 1 0 | 121 ∇ | 33.08 | 167 |
| " " (Trade Street) | " " " | 5 | 1 0 | 45 | 32.93 | 202 |
| D " " (Park Place) | Dr. C. T. Vachell | 5 | 1 0 | 42 ∇ | 34.17 | 182 |

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | | Depth of Rain.
1908 | Days with .01 or more recorded. |
|---------------------------------------|----------------------------|-------------|----------------------|-----|------------------------|------------------------|---------------------------------|
| | | Diameter | Height Above Ground. | | Height Above Sea Level | | |
| | | in. | ft. | in. | feet. | inches. | |
| GLAMORGAN—(con.) | | | | | | | |
| D Cardiff (Ely Pumping Station)... | C.H. Priestley, Esq., CE | 5 | 1 | 0 | 53 π | 36.20 | 199 |
| D Porthcawl | R. S. Lilley, Esq. | 8 | 1 | 0 | 44 π | 30.46 | 174 |
| D Llandaff (Howell's School) | Miss A. G. Winny | 5 | 1 | 4 | 86 \uparrow | 34.31 | 184 |
| D† Cardiff (Penylan) | E. Walford, Esq., M.D. | 5 | 1 | 0 | 204 | 34.53 | 215 |
| „ (New Filters, Heath) | C.H. Priestley, Esq. C.E. | 5 | 1 | 0 | 132 | 36.27 | 183 |
| „ (Llanishen Reservoir) ... | „ „ „ | 5 | 1 | 0 | 155 | 33.87 | 171 |
| D „ (Lisvane Reservoir) | „ „ „ | 5 | 1 | 0 | 150 | 33.07 | 170 |
| „ Cowbridge (Ash Hall) | E. Tudor Owen, Esq. ... | 8 | 3 | 0 | 315 π | 41.20 | 194 |
| D Llantrisant (Talgarn) | G. L. Clark, Esq. | 5 | 4 | 3 | 250 | 51.32 | 189 |
| „ (Llanilid Reservoir). .. | Gomer S. Morgan, Esq. ... | ... | ... | ... | 582 | 43.18 | ... |
| D Oystermouth (Newton) | Rev. Secretan Jones ... | 5 | 0 | 9 | 279 \uparrow | 43.05 | 193 |
| D Mumbles (Bristol Ch. Yacht Club) | A. Denyer, Esq. | 5 | 1 | 0 | 20 | 42.24 | 200 |
| D§ Port Talbot (Twyn-yr-hydd, Margam) | G. Lipscomb, Esq. | 5 | 1 | 0 | 180 \uparrow | 39.19 | 206 |
| „ Pontypridd (Maesderwen, Graig) | T. Bowen, Esq. | 5 | 10 | 0 | 425 \uparrow | 49.10 | 189 |
| D „ (Old Town Reservoir) | W. Jones, Esq. | 5 | 1 | 0 | 300 | 50.86 | 176 |
| „ Porth (Cemetery Road) | D. Hawkins, Esq. | 5 | 1 | 6 | 500 \uparrow | 62.75 | ... |
| D Caerphilly (Ystrad Mynach) ... | Lt.-Col. M. Lindsay ... | 8 | 0 | 5 | 315 π | 44.83 | 179 |
| D Swansea (Le Mayals) | J. E. Stevens, Esq. ... | 8 | 1 | 2 | 220 π | 50.70 | 162 |
| D „ Harbour | A.O. Shenck, Esq., C.E. | 12 | 14 | 9 | 46 | 46.09 | 200 |
| „ „ (Killay House) | M. B. Williams, Esq. ... | 5 | 0 | 6 | 265 \uparrow | 45.19 | 189 |
| D „ „ (The Knoll) | E. H. Perkins, Esq. ... | 8 | 1 | 0 | 150 π | 44.87 | 217 |
| D Briton Ferry (Brynsiriol) | H. A. Clarke, Esq. ... | 5 | 1 | 0 | 33 π | 42.59 | 174 |
| D Morriston (Glanravan) | Ll. J. Naysmith, Esq. .. | 5 | 1 | 0 | 53 π | 47.00 | 199 |
| D† Ystradyfodwg (Tyntyla Hospital) | J. D. Jenkins, Esq., M.D. | 5 | 1 | 0 | 590 \uparrow | 60.29 | 168 |
| D Neath | E.C. Pole, Esq. | 5 | 1 | 0 | 204 π | 49.53 | 195 |
| „ „ (Fairly Land) | Major E. Ll. Green ... | 5 | 1 | 9 | 175 π | 43.93 | 216 |
| D Treharris Service Reservoir | T. F. Harvey, Esq., C.E. | 5 | 1 | 0 | 865 | 48.37 | 200 |
| „ Rhondda (Ferndale) | G. Childs, Esq. | 5 | 1 | 0 | 830 π | 61.47 | ... |
| „ Glyncoirwg | Mr. C. Stevens | 5 | 1 | 6 | 823 π | 73.74 | ... |
| D Mountain Ash (Maesydderwen) .. | M. Morgan, Esq. | 5 | 1 | 0 | 483 π | 49.91 | 197 |
| D „ „ (Darranlas Res.) .. | W. G. Thomas, Esq. ... | 5 | 0 | 11 | 540 | 55.48 | 198 |
| „ „ „ (Clydach Res.) ... | „ „ „ „ „ „ „ | 5 | 1 | 0 | 930 | 68.63 | 203 |
| D† Treherbert (Bute Colliery) | Sir W. T. Lewis, Bart. ... | 5 | 1 | 0 | 670 | 75.92 | 203 |
| D† „ „ (Tyn-y-waun) | O. Thomas, Esq. | 5 | 1 | 0 | 801 | 77.32 | 222 |
| „ „ „ „ „ „ „ | „ „ „ „ „ „ „ | 5 | 1 | 0 | 801 | 79.01 | ... |
| D Gorseinon (Penllergaer) | Sir J. T. D. Llewelyn, Bt. | 5 | 3 | 0 | 240 \uparrow | 46.79 | 205 |
| D Cwmaman Colliery | W. J. Heppell, Esq. ... | 5 | 2 | 2 | 930 π | 64.75 | 210 |
| D† Rhondda (Pont Lluest Wen Res.) | W. Jones, Esq. | 5 | 1 | 0 | 1225 | 57.89 | 158 |
| D† Aberdare (Abernant Hospital) ... | Dr. Evan Jones | 5 | 1 | 6 | 430 \uparrow | 55.08 | 140 |
| D „ „ „ (House) | Sir W. T. Lewis, Bart. | 5 | 1 | 0 | 469 | 53.67 | 209 |
| D Felindre (Lower Lliw Reservoir) | R. H. Wyrill, Esq., C.E. | 8 | 1 | 3 | 426 \uparrow | 50.99 | 214 |
| D „ „ „ (Upper „ „ „) | „ „ „ „ „ „ „ | 8 | 1 | 0 | 610 | 58.98 | 217 |
| D Merthyr Tydfil (Penbryn Filters) | T. F. Harvey, Esq., C.E. | 5 | 1 | 0 | 936 | 50.58 | 235 |
| D Dowlais (Gwernllwyn) | R. C. Harrison, Esq. ... | 5 | 1 | 6 | 1071 π | 51.27 | 202 |
| D Ystalyfera (Wern School) | J. Williams, Esq. | 5 | 1 | 3 | 240 \uparrow | 63.33 | 190 |

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | | Depth of Rain. | Days with 10 or more recorded. |
|--|----------------------------|-------------|----------------------|-----|------------------------|----------------|--------------------------------|
| | | Diameter | Height Above Ground. | | Height Above Sea Level | 1908 | |
| | | in. | ft. | in. | feet. | inches. | |
| CARMARTHEN. | | | | | | | |
| D Llanelly (Old Market Yard) ... | G. Watkeys, Esq., C.E. | 5 | 10 | 0 | 35 T | 42·46 | 194 |
| D " (Cwmlliedi W.W.)..... | " " " | 5 | 3 | 0 | 240 T | 51·89 | 214 |
| Llanddarog (Lletherllestry)..... | H. L. Puxley, Esq. ... | 4 | 1 | 0 | 250 T | 47·84 | 194 |
| D Carmarthen (The Friary)..... | L.M. Bowen-Jones, Esq. | 5 | 1 | 5 | 62 T | 49·68 | 210 |
| Nantgaredig (Ystradwrallt)..... | W.S. Gwynne Morris Esq | 8 | 1 | 0 | 100 ? | 43·22 | ... |
| † Llandilo (Golden Grove Gardens) | The Earl Cawdor ... | 6 | 1 | 6 | 125 T | 56·20 | 206 |
| D " (Cae-glas) | J. Lewes Thomas, Esq. | 5 | 3 | 0 | 190 T | 47·15 | 237 |
| † " (Dynevov Castle) | Lord Dynevov | 8 | 1 | 0 | 202 T | 50·22 | 226 |
| § Llandovery (Nantyalwgfaen) ... | Douglas T.M. Jones, Esq. | 5 | 1 | 0 | 249 T | 48·00 | 210 |
| D Llanwrda (Dolaucothy)..... | Gen. Sir J. Hills-Johnes | 5 | 2 | 6 | 498 T | 53·53 | 217 |
| PEMBROKE. | | | | | | | |
| Pembroke (Stackpole Court)..... | The Earl Cawdor ... | 6 | 1 | 6 | 60 T | 37·25 | 186 |
| Tenby (Bryn Hyfryd) | J. F. J. Burgess, Esq.. | 5 | 1 | 6 | 100 ? | 44·58 | ... |
| § St. Ann's Head | Meteorological Office ... | 8 | 0 | 8 | 150 | 38·50 | 208 |
| D Pembroke Dock | D. J. Morgan, Esq. ... | 8 | 1 | 0 | 101 T | 38·07 | 187 |
| D " " (County School) | G. H. West, Esq. | 5 | 1 | 0 | 85 | 41·28 | 186 |
| D Saundersfoot (Hean Castle) | Herbert C. Lewis, Esq. | 5 | 1 | 11 | 206 T | 33·43 | 164 |
| Haverfordwest (Picton Castle)... | Sir C. E. G. Philipps, Bt. | 5 | 0 | 10 | 138 | 48·50 | 199 |
| D " (Portfield) | J. W. Phillips, Esq. ... | 5 | 1 | 0 | 220 T | 40·97 | 215 |
| D § " (High Street) ... | E. Picton Phillips, Esq. | 5 | 1 | 0 | 95 T | 44·91 | 192 |
| D Whitland (Trewern) | G. Protheroe-Benyon Esq | 5 | 3 | 6 | 100 ? | 51·85 | 176 |
| D St. Davids | D. P. Williams, Esq... | 5 | 1 | 0 | 216 | 37·11 | 181 |
| D Treffgarne Hall | Col. R. O. Lloyd, R.E. | 5 | 1 | 1 | 286 T | 46·02 | 200 |
| D Henry's Moat..... | H. T. Dale, Esq..... | 5 | 1 | 0 | 450 ? | 63·70 | 184 |
| D Fishguard (Langton, Dwrbach).. | J. C. Yorke, Esq. | 5 | 1 | 0 | 320 | 44·52 | 222 |
| D Newport (Llwyngwair)..... | G. B. Bowen, Esq..... | 8 | 1 | 1 | 40 T | 41·96 | 148 |
| D Castle Malgwyn [Llechryd] | Mr. H. Baldwin..... | 5 | 1 | 0 | ... | 43·19 | 184 |
| CARDIGAN. | | | | | | | |
| D Lampeter (Falcondale) | Mr. W. Taylor | 5 | 1 | 10 | 498 | 49·37 | 218 |
| Nantneuadd [Abergwesyn] ... M | Mr. W. Roberts | 5 | 1 | 0 | 1290 | 66·10 | ... |
| D Lampeter (Llanlear) | Miss Lewes | 5 | 1 | 1 | 226 | 38·62 | 186 |
| Tregaron (Maes-y-bettws) ... M | Dr. H. R. Mill | 5 | 1 | 0 | 910 | 58·10 | ... |
| Strata Florida (Towy-fechan) M | " " " | 5 | 1 | 0 | 1330 | 71·75 | ... |
| D Strata Florida (Hafod)..... | † J. Waddingham, Esq | 5 | 1 | 0 | 580 T | 57·25 | 219 |
| § Aberystwyth (N. Parade)..... | A. Thomas, Esq. | 8 | 2 | 6 | 20 | 33·82 | 192 |
| D " (Gogerddan) | Mr. W. Penwill..... | 5 | 1 | 1 | 83 B | 44·21 | 194 |
| Plynlimon | Dr. H. R. Mill | 5 | 1 | 0 | 1740 | 97·35 | ... |
| BRECON. | | | | | | | |
| D Nanthir Reservoir [Aberdare] ... | O. Williams, Esq., C.E. | 5 | 1 | 0 | 860 T | 56·78 | 234 |
| " " ["] M | " " " | 5 | 1 | 0 | 860 T | 57·09 | 235 |
| † Pont Neath Vaughan [Glyn Neath] | W. N. Hogben, Esq. ... | 5 | 1 | 5 | 297 T | 57·87 | 214 |
| D† Ebbw Vale W.W. (Filters) No. 1 | T. J. Thomas, Esq., C.E. | 5 | 1 | 0 | 1413 T | 54·20 | 227 |

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DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | | Depth of Rain.
1908 | Days with .01 or more recorded. |
|--------------------------------------|------------------------------|-------------|----------------------|-----|------------------------|------------------------|---------------------------------|
| | | Diameter | Height Above Ground. | | Height Above Sea Level | | |
| | | in. | ft. | in. | feet. | inches. | |
| BRECON—(con.) | | | | | | | |
| † Ebbw Vale W.W. <i>West g.</i> No.3 | T.J. Thomas, Esq., C.E. | 5 | 1 | 0 | 1468 | 55·22 | 226 |
| † „ „ „ <i>N. W.g.</i> No.2 | „ „ „ | 5 | 1 | 0 | 1471 | 55·88 | 226 |
| † „ „ „ (Carno, S.) ... | „ „ „ | 5 | 1 | 0 | 1236 | 49·58 | 224 |
| † „ „ „ { „ E.) ... | „ „ „ | 5 | 1 | 0 | 1391 | 52·03 | 227 |
| † „ „ „ { „ W.) ... | „ „ „ | 5 | 1 | 0 | 1412 | 57·96 | 222 |
| † „ „ „ { „ N.) ... | „ „ „ | 5 | 1 | 0 | 1533 | 47·82 | 224 |
| d† Taff Fechan (Pentwyn Res.) ... | T. F. Harvey, Esq., C.E. | 5 | 1 | 0 | 1120 | 62·17 | 234 |
| † „ „ „ („ „ „) ... | „ „ „ | 5 | 1 | 0 | 1120 | 61·25 | ... |
| † Cardiff W.W. (Cwm Taff Fawr No.5) | C.H. Priestley, Esq., C.E. | 5 | 1 | 0 | 1143 | 62·79 | ... |
| † „ „ „ (Storey Arms, No. 4) | „ „ „ | 5 | 1 | 0 | 1430 | 62·20 | ... |
| † „ „ „ (Cwm Taff Fawr, No. 1) | „ „ „ | 5 | 1 | 0 | 2350 | 69·76 | ... |
| † „ „ „ (Cantref Res., No. 2) | „ „ „ | 5 | 1 | 0 | 1120 | 72·02 | 239 |
| d† „ „ „ (Beacons Res., No. 6) | „ „ „ | 5 | 1 | 0 | 1340 | 75·45 | 239 |
| „ „ „ (Nant Penig, No. 3) .. | „ „ „ | 5 | 1 | 0 | 2000 | 84·84 | ... |
| d† Taff Fechan (Neuadd Res.) No.1 | T. F. Harvey, Esq., C.E. | 5 | 1 | 0 | 1462 | 67·38 | 224 |
| † „ „ „ („ „ „) No.1M | „ „ „ | 5 | 1 | 0 | 1462 | 63·55 | ... |
| d† „ „ „ („ „ „) No.4 | „ „ „ | 5 | 1 | 0 | 1487 | 74·86 | 224 |
| d† „ „ „ („ „ „) No.4A | „ „ „ | 5 | 1 | 0 | 1487 | 75·01 | 224 |
| † „ „ „ („ „ „) No.2M | „ „ „ | 5 | 1 | 0 | 1993 | 70·86 | ... |
| † „ „ „ („ „ „) No.5M | „ „ „ | 5 | 1 | 0 | 1515 | 73·20 | ... |
| † „ „ „ („ „ „) No.10 | „ „ „ | 5 | 1 | 0 | 1700 | 67·39 | ... |
| d† „ „ „ („ „ „) No.11 | „ „ „ | 5 | 1 | 0 | 1524 | 62·71 | 223 |
| † „ „ „ („ „ „) No.7M | „ „ „ | 5 | 1 | 0 | 2017 | 68·24 | ... |
| † „ „ „ („ „ „) No.8M | „ „ „ | 5 | 1 | 0 | 1723 | 79·43 | ... |
| † „ „ „ („ „ „) No.3M | „ „ „ | 5 | 1 | 0 | 1843 | 55·54 | ... |
| „ „ „ („ „ „) No.3AM | „ „ „ | 5 | 1 | 0 | 1843 | 56·88 | ... |
| † „ „ „ („ „ „) No.9M | „ „ „ | 5 | 1 | 0 | 1997 | 57·02 | ... |
| † „ „ „ („ „ „) No.6M | „ „ „ | 5 | 1 | 0 | 2099 | 85·57 | ... |
| Crickhowell (Glanusk Park) | Lord Glanusk | 5 | 1 | 0 | 290 | 36·96 | 149 |
| d† „ „ (Gwernvale) | E. Pirie Gordon, Esq. ... | 5 | 1 | 0 | 393 | 32·78 | 169 |
| „ „ (Penmyarth) | S. H. Cowper Coles, Esq. ... | 5 | 1 | 0 | 330 | 35·33 | 194 |
| Swansea W.W. (Nantyrwydd) ... | R. H. Wyrill, Esq., C.E. ... | 5 | 1 | 0 | 920 | 83·89 | 174 |
| D „ „ (Bwlch) | „ „ „ | 8 | 1 | 0 | 1246 | 135·08 | 207 |
| „ „ „ (Gihirych) | „ „ „ | ... | ... | ... | ... | 75·33 | ... |
| D „ „ „ (Cray Res.) No.1 (A) | „ „ „ | 5 | 1 | 0 | 1030 | 61·72 | 191 |
| „ „ „ („ „ „) No.2 ... | „ „ „ | 5 | 1 | 0 | 1015 | 78·79 | ... |
| D Bwlch (Buckland Gardens) | Mr. A. J. Keen | 5 | 1 | 0 | 179 | 37·86 | 152 |
| † Talybont (Cui) | H. Jones Williams, Esq. ... | 5 | 1 | 0 | 490 | 41·30 | ... |
| d† Brecon (New Inn) | Mr. W. Williams | 5 | 1 | 0 | 810 | 48·05 | 152 |
| † Cray Station | Mr. J. Jones | 5 | 1 | 0 | 930 | 55·60 | ... |
| † Crickhowell (Cwmdu) | Mr. J. P. Edwards | 5 | 1 | 0 | 430 | 30·40? | ... |
| † „ „ (Ffordlas Farm) M | Mr. S. A. Gore | 5 | 1 | 0 | 1170 | 41·20 | ... |
| † Cathedine Rectory | Rev. J. S. Jones | 5 | 1 | 0 | 660 | 27·51? | ... |
| † Llanfrynach (Tymawr) | Miss D. de Winton ... | 5 | 1 | 0 | 450 | 37·49 | 178 |
| † Crickhowell (Tal-y-maes) | Dr. H. R. Mill | 5 | 1 | 0 | 1250 | 42·10 | ... |
| † Trecastle (Blaenau-hydfwr) ... | „ „ „ | 5 | 1 | 0 | 1070 | 60·80 | ... |
| † Black Mountains (Waun Fach) .. | Rev. R. P. Dansey | 5 | 1 | 0 | 2650 | 50·95 | ... |
| † „ „ „ (Pen-y-Mallwyn) | Baldwin Latham, Esq. CE | 5 | 1 | 0 | 2512 | 41·88 | ... |

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 | 1908 | |
| | | in. | ft. in. | feet. | inches. | |
| BRECON—(con.) | | | | | | |
| †Black Mountains (Taren-yr-Esgob) | BaldwinLatham, Esq. CE | 5 | 1 0 | 2039 | 40.53 | ... |
| D†Trecastle (Lliwel Vicarage) | Rev. P. W. Green | 5 | 1 0 | 740 | 49.63 | 200 |
| †Brecon (Penoyre) | late R. D. Cleasby, Esq. | 5 | 1 0 | 800 | 44.17 | 239 |
| D Talgarth (Bell Street) | F. J. Morgan, Esq. | 5 | 10 9 | 421 | 30.23 | 159 |
| D†LlanfihangelNant-Bran(Cwmecynog) | Dr. H. R. Mill | 5 | 1 0 | 790 | 44.68 | 170 |
| †Merthyr-Cynog | M Mr. W. Davies | 5 | 1 0 | 1050 | 46.70 | ... |
| §Hay (Gwernyfed Park) | Roy. Meteorological Soc. | 5 | 1 6 | 375 | 28.26 | 187 |
| †Upper Chapel (Tymawr) | Mrs. Probert | 5 | 1 0 | 945 | 43.28 | ... |
| Llanwrtyd Wells (Llandulas) M | Mr. W. Price | 5 | 1 0 | 790 | 46.00? | ... |
| D†Llangammarch Wells | Dr. W. Black Jones ... | 8 | 1 0 | 551 | 44.42 | 218 |
| D Builth Wells (Tyn-y-berllan) ... | Dr. W. W. Baldock Fry | 5 | 1 0 | 430 | 36.23 | 191 |
| †Abergwesyn (Caewain) | M Rev. T. Jones | 5 | 1 0 | 1010 | 56.98 | ... |
| † " (Llanerch-yrfa) M | Dr. H. R. Mill | 5 | 1 0 | 1430 | 59.93 | ... |
| Pen-graig [Newbridge] | M " " " " " " | 5 | 1 0 | 960 | 55.60 | ... |
| Llysdinam [" "] | CVenablesLlewelynEsq | 5 | 1 3 | 640 | 42.44 | 229 |
| RADNOR. | | | | | | |
| New Radnor (Glascwm) | M Mr. G. Bufton | 5 | 1 0 | 957 | 39.90 | ... |
| Builth Road (St. John's Vicarage) | Rev. J. L. Bryans | 5 | 0 11 | 550 | 37.44 | 189 |
| D§Llandrindod Wells (Kimberley) .. | W. B. de Winton, Esq. | 5 | 1 0 | 699 | 36.39 | 233 |
| D New Radnor (Ednol) | Mr. W. Jones | 5 | 1 0 | 950 | 40.27 | 204 |
| Radnor Forest (Great Rhos) | H. Langston, Esq. | 5 | 1 6 | 2150 | 44.51? | ... |
| Birmingham W. W. (Nant-y-car) M | E. Antony Lees, Esq. ... | 5 | 1 0 | 1545 | 67.82 | ... |
| D " " (Tyrmynydd) ... | " " " " " " | 5 | 1 0 | 832 | 53.43 | 223 |
| " " (Esgair Garthen) M | " " " " " " | 5 | 1 0 | 1600 | 62.60 | ... |
| " " (Esgair Gader) M | " " " " " " | 5 | 1 0 | 1500 | 53.60 | ... |
| " " (Bwlchyrhendre) M | " " " " " " | 5 | 1 0 | 1585 | 57.25 | ... |
| D " " (Claerwen) | " " " " " " | 5 | 1 0 | 1250 | 57.55 | 186 |
| " " (Tynant) | M " " " " " " | 5 | 1 0 | 1250 | 59.55 | ... |
| D Rhayader (Greenfields) | Capt. N. H. Matthews ... | 5 | 1 8 | 740 | 45.89 | 216 |
| " Vicarage | Rev. L. H. Evans | 5 | 1 0 | 720 | 48.34 | 168 |
| Birmingham W. W. (Claerddu) M | E. Antony Lees, Esq. ... | 5 | 1 0 | 1500 | 62.40 | ... |
| " " (Cerrigllwydion) M | " " " " " " | 5 | 1 0 | 1700 | 63.46 | ... |
| " " (Calettwr) M | " " " " " " | 5 | 1 0 | 1500 | 62.20 | ... |
| " " (Figin) ... M | " " " " " " | 5 | 1 0 | 1700 | 67.20 | ... |
| " " (Aberhenllan) M | " " " " " " | 5 | 1 0 | 1250 | 53.90 | ... |
| D " " (Abergwyngy) | " " " " " " | 5 | 1 0 | 1200 | 59.25 | 197 |
| " " (Gwngu) ... M | " " " " " " | 5 | 1 0 | 1650 | 64.63 | ... |
| Llanbister (Llananno) | Dr. H. R. Mill | 5 | 1 0 | 900 | 41.60 | ... |
| MONTGOMERY. | | | | | | |
| D Llangurig (Dernol) | Dr. H. R. Mill | 5 | 1 0 | 850 | 53.27 | 175 |
| " (Esgair Clochfan) ... | " " " " " " | 5 | 1 2 | 1330 | 44.40 | ... |
| " -on-the-Hill | " " " " " " | 5 | 1 2 | 1330 | 45.30 | ... |
| " (Ystrad-olwyn-fawr) M | " " " " " " | 8 | 1 0 | 950 | 41.60 | ... |

to Cardigan

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with .01 or more recorded. |
|------------------------------------|-------------------------|-------------|----------------------|------------------------|------------------------|---------------------------------|
| | | Diameter | Height Above Ground. | Height Above Sea Level | | |
| | | in. | ft. in. | feet. | inches. | |
| MONTGOMERY—(con.) | | | | | | |
| Llangurig (Ystrad-olwyn-fawr) M | Dr. H. R. Mill | 5 | 1 0 | 950 | 39.80 | ... |
| Llandinam (Plas Dinam) | Mr. D. Bowen | 5 | 4 0 | 504 T | 36.17 | 180 |
| D Newtown (Dolfor) | W. B. Pugh, Esq. | 5 | 2 6 | 1027 | 32.69 | 178 |
| " (Gregynog) | Lord Joicey | 5 | 1 0 | 660 T | 41.66 | 197 |
| D Welshpool (Leighton Hall) | Mrs. Naylor | 5 | 1 0 | 400 T | 31.83 | 199 |
| Garthbibio (Bwlch Tomlyd) ... M | Dr. H. R. Mill | 5 | 1 0 | 1370 T | 70.90 | ... |
| D Lake Vyrnwy | E. D. Marten, Esq. C.E. | 5 | 0 7 | 770 T | 53.57 | 207 |
| " " (Bryn Gwyn) | J. Parry, Esq., C.E. | 8 | 1 0 | 1311 T | 55.17 | ... |
| D " " (Bank Cynon Isaf) | " " " | 8 | 1 0 | 750 T | 52.37 | 190 |
| " " (Ty Uchaf) | " " " | 8 | 1 0 | 860 T | 54.77 | ... |
| " " (Heol-y-ffridd) No.1 | " " " | 8 | 1 0 | 912 T | 78.39 | ... |
| " " (" " ") No.2 | " " " | 8 | 1 0 | 912 T | 68.82 | ... |
| " " (Tynyffridd) | " " " | 8 | 1 0 | 1010 T | 53.29 | ... |
| " " (Lluestwen) | " " " | 8 | 1 0 | 1667 T | 68.98 | ... |
| " " (Llwynrhiw) | " " " | 8 | 1 0 | 1428 T | 76.43 | ... |
| " " (Craig-y-Gribbin) | " " " | 8 | 1 0 | 1100 T | 59.22 | ... |
| " " (Eunant Bridge) | " " " | 8 | 1 0 | 830 T | 71.00 | ... |
| " " (Carreg Goch) | " " " | 8 | 1 0 | 1750 T | 71.82 | ... |
| " " (Fawnog) | " " " | 8 | 1 0 | 1315 T | 54.69 | ... |
| FLINT. | | | | | | |
| Cilcain | W. Simmons, Esq. | 5 | 1 0 | 790 T | 34.15 | 188 |
| Hawarden | Great Central Rly. Co. | 9 | 3 6 | 35 | 29.64 | 178 |
| Flint (Soughton Hall, Northop). | John E. Bankes, Esq. | 5 | 1 0 | 418 | 32.84 | 175 |
| D " (Highfield, ") | Rev. Canon A. Atkinson | 5 | 1 0 | 400 | 31.55 | 156 |
| † Bodfari (Nantlys) | P. P. Pennant, Esq. | 5 | 1 6 | 173 T | 27.64 | 189 |
| D† " (Henblas) | Mrs. Scott Bankes | 5 | 1 0 | 283 T | 28.89 | 197 |
| D " (Cae Gwyn) | Mrs. Morgan | 5 | 0 5 | 550 T | 31.06 | 222 |
| D St. Asaph (St. Beuno's College). | St. Beuno's College | 5 | 0 8 | 490 T | 28.87 | 206 |
| D Rhyl (Sewage Works) | Mr. J. Jones | 8 | 1 0 | 31 T | 26.51 | 192 |
| D Prestatyn (Edlestone House) | T. J. Scott, Esq. | 5 | 0 6 | 30 | 28.53 | 157 |
| DENBIGH. | | | | | | |
| D Llangadwaladr (Penygwely Res.) | G. W. Lacey, Esq., C.E. | 5 | 1 0 | 1094 | 42.42 | 205 |
| Glynceiriog | F. E. Rooper, Esq. | 5 | 1 6 | 750 T | 44.62 | 201 |
| D Cerrig-y-Druoidion (Garthmeilio) | Col. S. Parr Lynes | 5 | 1 0 | 930 | 43.41 | 180 |
| D† " " " (Bwlch-y-beudy) | Col. C. S. Mainwaring | 5 | 1 0 | 1050 T | 45.28 | 190 |
| Wrexham (Pack Saddle Res.) | F. Storr, Esq., C.E. | 5 | 0 9 | 370 T | 37.48 | 191 |
| " " (Cae Llwyd Res.) | " " " | 5 | 0 9 | 918 T | 40.86 | 192 |
| D " (Broughton) | J. Hall, Esq. | 5 | 1 0 | 500 T | 37.39 | 202 |
| " " (Gwersyllt) | S. H. V. Simmons, Esq. | 5 | 1 0 | 283 T | 34.15 | ... |
| Gresford (Trewythen) | Miss Howell Evans | 5 | 1 0 | 350 | 34.11 | 194 |
| " " (Horsley Hall) | Alfred Ashworth, Esq. | 5 | 1 0 | 135 | 31.32 | 151 |
| D Cyffylliog (Fachlwyd Hall) | Elliott S. Currey, Esq. | 5 | 1 0 | 640 T | 40.48 | 231 |
| D Ruthin (Tymawr) | Maj.-Gen. C. L. Cary | 5 | 1 0 | 400 | 30.85 | 194 |
| D " (Llanbedr Hall) | Dr. G. A. Crace-Calvert | 5 | 1 0 | 451 T | 28.60 | 191 |

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with 91 or more recorded. |
|---|--------------------------------|-------------|----------------------|------------------------|------------------------|--------------------------------|
| | | Diameter | Height Above Ground. | Height Above Sea Level | | |
| | | in. | ft. in. | feet. | ches. | |
| DENBIGH—(con.) | | | | | | |
| †Cerrig-y-Druidion (Hafod-llan-isaf) | late G. F. Deacon, Esq. CE | 5 | 1 2 | 1200 | 41·93 | ... |
| †Pentre Voelas (Nant Heilyn) ... | " " " | 5 | 1 0 | 1225 | 50·61 | 215 |
| †Cerrig-y-Druidion (Hafod-yr-Onen) ... | " " " | 5 | 1 0 | 1175 | 45·35 | 222 |
| †Nantglyn (Pant-y-maen) ... | M. W. Barker, Esq. | 8 | 1 0 | 1320 † | 45·92 | ... |
| †Llyn Bran ... | M. " " " | 8 | 1 0 | 1428 † | 51·56 | ... |
| †Llanrwst (County School) ... | Rev. J. I. Farr ... | 5 | 1 4 | 55 † | 48·18 | 214 |
| †Llangerniew (Hafodunos) ... | Col. Sandbach ... | 5 | 2 0 | 512 † | 40·38 | 189 |
| Llanefydd (Rhyl W.W., S.) ... | M. L. G. Hall, Esq., C.E. ... | 5 | 1 0 | 600 | 30·88 | ... |
| " (" " W.) ... | M. " " " | 5 | 1 0 | 580 | 24·90 | ... |
| " (" " E.) ... | M. " " " | 5 | 1 0 | 570 | 25·79 | ... |
| D " (Plas Uchaf Res.) ... | " " " | 5 | 1 0 | 485 | 26·46 | 184 |
| D " (Glascoed Reservoir) ... | " " " | 5 | 1 0 | 360 | 28·73 | 195 |
| D Llangynhafal (Plas Draw) ... | Col. C. J. Bromhead, C.B. ... | 5 | 1 0 | 419 † | 31·44 | 236 |
| †Denbigh (Asylum) ... | W. Barker, Esq. | 5 | 0 10 | 316 † | 29·98 | 183 |
| D " (Garn) ... | W. D. W. Griffith, Esq. ... | 5 | 1 0 | 447 † | 33·46 | 190 |
| " (Gallt-faenan) ... | Mr. J. B. Pritchard ... | 5 | 0 5 | 400 | 34·38 | ... |
| Trefnant (Maes Elwy) ... | Major R. F. Birch ... | 5 | 1 3 | 190 † | 31·47 | 141 |
| D Tal-y-cafn (Bodnant Hall) ... | Mr. J. Saunderson ... | 8 | 1 6 | 120 | 33·05 | 173 |
| D Colwyn Bay (Four Crosses) ... | W. Jones, Esq., C.E. ... | 5 | 1 0 | 400 † | 28·48 | 177 |
| D " " (East Parade) ... | " " " | 5 | 1 3 | 65 † | 25·71 | 177 |
| MERIONETH. | | | | | | |
| †Towyn (Gothic House) ... | Dr. E. Lewys-Lloyd ... | 5 | 1 0 | 11 † | 38·99 | 207 |
| D " (Peniarth) ... | late W. R. M. Wynne Esq. ... | 9 | 1 0 | 25 | 49·61 | 198 |
| Dolgelly (Dr. Williams' School) ... | Miss F. A. Anstey ... | 5 | 2 0 | 30 | 52·06 | ... |
| D " (Bryntirion) ... | C. G. Beale, Esq. | 5 | 0 10 | 50 | 62·27 | 205 |
| †Bala (Eryl Aran) ... | Mrs. Burton ... | 8 | 1 0 | 600 † | 55·86 | 203 |
| ‡Aberdovey ... | Meteorological Office ... | | | ... | 40·39 | 217 |
| †Llanderfel (Palé Gardens) ... | Mr. E. J. Edwards ... | 8 | 1 0 | 606 † | 47·62 | 211 |
| D Tan-y-bwlch (The Gardens) ... | Mr. J. Roberts ... | 5 | 1 0 | 50 ? | 67·13 | 224 |
| Blaenau Festiniog (Oakley Quarries) ... | Owen Jones, Esq. | 5 | 10 0 | 1100 | 105·72 | ... |
| Corwen (Rûg Gardens) ... | Mr. J. S. Higgins ... | 5 | 1 4 | 500 | 37·29 | 186 |
| CARNARVON. | | | | | | |
| [Bardsey Island] ... | Hon. F. G. Wynn ... | 5 | 1 0 | 50 ? | 33·00 | ... |
| †Criccieth (Talarvor) ... | Dr. J. Roberts ... | 5 | 2 0 | 49 † | 35·30 | 175 |
| † " (Cefn-Maen) ... | Mr. F. Murchie ... | 8 | 1 0 | 220 † | 47·30 | 170 |
| Pwllheli (Bodfean Hall) ... | Hon. F. G. Wynn ... | 5 | 1 0 | 100 † | 45·24 | ... |
| †Portmadoc (Wern Gardens) ... | R. M. Greaves, Esq. ... | 5 | 1 0 | 90 ? | 53·23 | 151 |
| †Beddgelert (Moel Hebog) ... | late Mr. Griffith Williams ... | 5 | 1 0 | 1500 | 110·00 | ... |
| Nantlle (Dorothea Quarries) ... | W. J. Griffith, Esq. ... | 8 | 3 0 | 450 | 59·26 | ... |
| †Llandwrog (Glynllivon Park) ... | Hon. F. G. Wynn ... | 5 | 1 0 | 100 † | 40·86 | ... |
| " (" Nursery) ... | " " " | 5 | 1 0 | 180 † | 48·11 | ... |
| " (" Garden) ... | " " " | 5 | 1 0 | 100 † | 41·18 | 188 |
| " (" Fort) ... | " " " | 5 | 1 0 | 180 † | 38·87 | 203 |
| Snowdon (Wenallt) ... | No. 6 A. Lockwood, Esq. ... | 5 | 1 0 | 1050 † | 151·55 | ... |

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 SeaLevel | 1908 | |
| | | in. | ft. | in. | feet. | inches. | |
| ISLE OF MAN. | | | | | | | |
| Castletown (Langness) | Bd. of Northern Lights | 8 | 1 | 0 | 75 | 28·70 | ... |
| „ (Derbyhaven) | A.W.Moore, Esq.C.V.O. | 5 | 0 | 10 | 10 | 39·84 | ... |
| Santon Vicarage | „ „ „ | 5 | 0 | 10 | 250 | 37·01 | ... |
| d Douglas (Woodville)..... | H. Story, Esq. | 8 | 1 | 0 | 160 L | 38·02 | 204 |
| „ (Clypse, Onchan) | A.W.Moore, Esq.C.V.O. | 8 | 1 | 0 | 450 | 40·47 | ... |
| „ (Baldwin) | „ „ „ | 8 | 1 | 0 | 120 | 49·56 | ... |
| Bishops Court | „ „ „ | 5 | 0 | 10 | 80 | 36·45 | ... |
| Ramsey | „ „ „ | 8 | 1 | 3 | 18 | 37·70 | 192 |
| Point of Ayre..... | Bd. of Northern Lights | 3 | 4 | 6 | 116 | 28·99 | ... |
| ISLES OF SCILLY. | | | | | | | |
| § St. Mary's | Meteorological Office ... | 8 | 1 | 6 | 20 L | 24·67 | 200 |
| „ | Cornwall County Council | ... | ... | ... | ... | 24·22 | ... |
| Tresco Abbey | T.A.DorrienSmith, Esq. | 11 | 3 | 0 | 40 | 23·92 | 182 |
| CHANNEL ISLANDS. | | | | | | | |
| d JERSEY(St.Helier, St.LouisObsy.) | Rev.M.Dechevrens, S.J. | 8 | 5 | 0 | 180 | 21·42 | 153 |
| § „ St. Aubins | Meteorological Office ... | 8 | 1 | 9 | 36 | 25·16 | 198 |
| „ „ (Belle Vue)... | Miss M. M. Sumner ... | 5 | 0 | 10 | 220 | 25·06 | 159 |
| d GUERNSEY(S.Martins, LesBlanches) | B. T. Rowswell, Esq.... | 5 | 1 | 0 | 310 T | 24·33 | 193 |
| d „ (St.PeterPort, St.Martin'sRd.) | A. Collenette, Esq. ... | 5 | 1 | 0 | 295 L | 26·22 | 181 |
| d§ „ („ „ „ Villa Carey) ... | Dr. F. E. Carey | 8 | 1 | 6 | 180 | 24·94 | 185 |
| d „ (L'Ancrese, Les Mielles) ... | J. S. Hocart, Esq. | 5 | 1 | 0 | 33 T | 25·24 | 167 |
| d ALDERNEY (Le Huret) | B. T. Rowswell, Esq... | 5 | 1 | 0 | 245 | 24·02 | 150 |
| d SARK (Vallée du Creux) | „ „ „ „ ... | 5 | 1 | 0 | 320 | 18·51 | 155 |
| HERM (Harbour) | „ „ „ „ ... | 5 | 1 | 0 | 20 | 22·99 | ... |

SCOTLAND.

DIVISION XII.—SOUTHERN COUNTIES.

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with .01 or more recorded. |
|-----------------------------------|-------------------------------|-------------|----------------------|------------------------|------------------------|---------------------------------|
| | | Diameter | Height Above Ground. | Height Above Sea Level | | |
| | | in. | ft. in. | feet. | inches. | |
| WIGTOWN. | | | | | | |
| Mull of Galloway | Bd. of Northern Lights | ... | ... | 327 | 29.14 | 147 |
| D Whithorn | Dr. J. F. Smith | 5 | 2 3 | 207 ∇ | 42.64 | 207 |
| D " (Cutroach) | J. G. Martin, Esq. | 5 | 0 6 | 120 ∇ | 37.38 | 201 |
| Port William (Blairbuie) | Hugh McMaster, Esq. ... | 5 | 2 6 | 150 ∇ | 41.81 | 199 |
| D Garliestown (Galloway House)... | Mr. J. Day | 5 | 4 6 | 20 ? | 39.13 | 180 |
| § Logan House | Scot. Meteorological Soc. ... | ... | ... | 100 ? | 39.03 | ... |
| D Stoneykirk (Ardwell House)..... | Sir M. J. Stewart, Bart. ... | 8 | 3 9 | 107 ∇ | 37.63 | 198 |
| Port Patrick (Killantringan) ... | Bd. of Northern Lights | ... | ... | 162 | 49.77 | 161 |
| Loch Ryan Lighthouse | " " " | ... | ... | 46 | 40.39 | 152 |
| Corsewall | " " " | ... | 3 4 | 112 | 40.53 | 168 |
| KIRKCUDBRIGHT. | | | | | | |
| Little Ross | Bd. of Northern Lights | ... | 3 3 | 175 | 27.94 | 162 |
| Kirkcudbright (Balmae) | The Countess of Selkirk | 5 | 0 3 | 150 ∇ | 36.11 | ... |
| Auchencairn (Torr House) | W. Ovens, Esq. | 5 | 0 8 | 50 | 48.08 | ... |
| § Gatehouse (Cally) | Scot. Meteorological Soc. ... | 5 | 1 0 | 120 | 48.27 | 217 |
| D Dalbeattie (Kirkennan)..... | Wellwood Maxwell, Esq. ... | 5 | 0 9 | 30 ∇ | 47.78 | 229 |
| D " (Little Richorn) | Mr. W. Kerr | 5 | 0 9 | 54 ∇ | 43.53 | 182 |
| Creetown (Cassencary) | JA Henryson-Caird, Esq. ... | 5 | 0 8 | 50 | 43.64 | 214 |
| § Kirkbean (Arbigland) | Scot. Meteorological Soc. ... | ... | ... | 50 ? | 44.59 | ... |
| D Kirkpatrick Durham (Glenlair).. | Major W. Maxwell ... | 5 | 0 6 | 250 ∇ | 53.17 | 191 |
| D § Cargen [Dumfries] | R. F. Dudgeon, Esq. | 5 | 0 4 | 80 ∇ | 46.66 | 164 |
| D § Lochrutton (Dumfries W.W.)... | Nigel B. Wilson, Esq. ... | 5 | 1 0 | 273 ∇ | 47.47 | 253 |
| D Lincluden House [Dumfries] ... | Miss Young | 5 | 1 0 | 60 ∇ | 41.66 | 240 |
| D § Jardington [Dumfries]..... | J. Rutherford, Esq. ... | 5 | 1 0 | 80 ? | 40.11 | 210 |
| Glenhead of Trool | J. McMillan, Esq. | 5 | 0 11 | 320 | 69.05 | ... |
| D Dalry (Glendarroch) | Miss M. Barbour | 5 | 0 11 | 192 ∇ | 53.12 | 227 |
| " (Clenerie) | Mr. G. Geddes | 8 | 0 10 | 800 | 57.35 | ... |
| D " (The Old Garroch) | T. R. Bruce, Esq. | 8 | 0 9 | 448 ∇ | 65.16 | 245 |

DIVISION XIII.—SOUTH EASTERN COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with .01 or more recorded. |
|------------------------------------|---------------------------|-------------|---------------------|-----|------------------------|---------------------------------|
| | | Diameter | Height Above Ground | | Height Above Sea Level | |
| | | in. | ft. | in. | feet. | inches. |
| SELKIRK—(con.) | | | | | | |
| D Selkirk (Philiphaugh) | Mr. J. Hunter | 12 | 4 | 6 | 460 | 28.32 |
| D „ (The Hangingshaw) ... | Miss Johnstone of Alva | 6 | 0 | 6 | 670 T | 27.70 |
| D Galashiels (Abbotsford Rd.)..... | Dr. J. W. Somerville... | 5 | 0 | 8 | 416 T | 25.49 |
| „ (Clovenfords) | W. R. Ovens, Esq..... | 6 | 1 | 6 | 500 | 30.45 |
| „ (Stantling Craigs) ... | Mr. W. Ross | 12 | 1 | 3 | 800 | 26.74 |
| PEEBLES. | | | | | | |
| Ravenscraig (Edinburgh W.W.) No.3 | W. A. Tait, Esq., C.E. | 5 | 1 | 3 | 2258 A | 66.48 |
| Gameshope Loch („ „) No. 4 | „ „ „ | 5 | 1 | 3 | 1860 A | 62.59 |
| Donald's Cleuch Head („ „) No.11 | „ „ „ | 5 | 1 | 3 | ... | 69.17 |
| Loch Craig Head („ „) No. 2 | „ „ „ | 5 | 1 | 3 | 2627 A | 58.54 |
| Gameshope Farm („ „) No.5a | „ „ „ | 5 | 1 | 3 | 1538 A | 63.20 |
| „ „ „ („ „) No. 5 | „ „ „ | 8 | 1 | 3 | 1538 A | 59.94 |
| Talla Linns Foot („ „) No.6a | „ „ „ | 5 | 1 | 3 | 966 A | 54.62 |
| „ „ „ („ „) No. 6 | „ „ „ | 8 | 1 | 3 | 966 A | 53.72 |
| Quarter Hill „ („ „) No.7a | „ „ „ | 5 | 1 | 3 | 1196 A | 41.96 |
| „ „ „ („ „) No. 7 | „ „ „ | 8 | 1 | 3 | 1196 A | 41.55 |
| Victoria Lodge („ „) | „ „ „ | 5 | 1 | 3 | 904 A | 40.49 |
| „ „ „ („ „) ... M | „ „ „ | 8 | 1 | 3 | 904 A | 38.53 |
| D Stobo (Dawyck Gardens) | Mr. J. Simpson | 5 | 1 | 1 | 600 T | 34.11 |
| § „ Castle | Scot. Meteorological Soc. | 3 | 1 | 0 | 600 | 37.96? |
| Peebles (Swinton Bank) | C. A. Ainslie, Esq. ... | 5 | 0 | 5 | 600 B | 28.86 |
| D „ „ „ „ „ „ „ „ „ (R) | „ „ „ „ „ „ „ „ | 8 | 4 | 6 | 600 | 29.26 |
| Innerleithen (Leithen Lodge) ... | Mr. D. Clark | 11 | 0 | 0 | 700 T | 36.66 |
| § Castlecraig [Dolphinton] | Scot. Meteorological Soc. | ... | ... | ... | 700 ? | 34.02 |
| D West Linton (The Rectory) | Rev. J. S. Begg | 5 | 1 | 0 | 800 T | 35.66 |
| D „ „ (Rutherford House) | Ewen Cameron, Esq.... | 5 | 3 | 9 | 970 A | 36.54 |
| Eddlestone (Portmore Reservoir) | W. Anderson, Esq..... | 11 | 0 | 6 | 1000 | 29.97 |
| § N. Esk Reservoir [Penicuik] ... | Mr. W. Tod | 11 | 0 | 6 | 1150 A | 34.15 |
| BERWICK. | | | | | | |
| D Earlston (Cowdenknowes) | Mr. J. Robertson | 5 | 0 | 10 | 360 A | 26.68 |
| Coldstream (Lochton) | J. Aitchison, Esq. | 5 | 1 | 0 | 150 B | 22.63 |
| D „ (The Hirsell) | Mr. P. McAndrew | 5 | 1 | 0 | 94 A | 22.82 |
| D § Marchmont House | Mr. J. A. Wood | 5 | 1 | 0 | 498 T | 30.73 |
| D Duns Castle | Mr. J. R. Redpath | 5 | 1 | 0 | 500 | 27.93 |
| D „ (Manderston) | Mr. F. J. Marshall | 8 | 1 | 6 | 356 A | 29.79 |
| West Foulden | J. Hewat Craw, Esq.... | 5 | 1 | 0 | 250 T | 21.66 |
| St. Abb's Head | Bd. of Northern Lights | 8 | 4 | 3 | 224 | 24.82 |
| HADDINGTON. | | | | | | |
| Garvald (Donolly Reservoir) ... | W. Ross Young, Esq., CE | 11 | 1 | 6 | 560 A | 28.35 |
| D Drummore [Musselburgh] | Mr. J. Robson | 5 | 1 | 0 | 75 T | 19.35 |
| D Whittingehame Gardens | Mr. J. Garrett | 5 | 1 | 0 | 348 B | 23.45 |
| Garvald (Thorster Reservoir)..... | W. Ross Young Esq. C.E. | 12 | 1 | 6 | ... | 25.85 |

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain. | Days with '01 or more recorded. |
|--------------------------------------|---------------------------|-------------|---------------------|------------------------|----------------|---------------------------------|
| | | Diameter | Height Above Ground | Height Above Sea Level | 1908 | |
| | | in. | ft. in. | feet. | inches. | |
| HADDINGTON—(con.) | | | | | | |
| §Haddington (District Asylum)... | Scot. Meteorological Soc. | 5 | 0 9 | 240 | 21·62 | ... |
| §Prestonkirk (Beil) | " " | 5 | 1 6 | 180 | 24·16 | ... |
| Dunbar (Barnsness) | Bd. of Northern Lights | ... | ... | 120 | 20·04 | 145 |
| §Prestonkirk (Smeaton) | Scot. Meteorological Soc. | 7 | 7 10 | 100 | 20·31 | ... |
| §Gosford House Gardens..... | Mr. W. Galloway | 5 | 1 0 | 24 | 20·08 | 183 |
| §Aberlady Manse..... | Rev. J. Hart | 5 | 0 11 | 15 | 19·46 | ... |
| North Berwick Reservoir | W. Ross Young, Esq., CE | 5 | 1 6 | 150 T | 21·80 | ... |
| " " (Fidra) | Bd. of Northern Lights | 3 | 3 0 | ... | 18·29 | ... |
| MIDLOTHIAN. | | | | | | |
| Moorfoot Hills (Bowbate) | W. Anderson, Esq..... | 11 | 0 6 | 2042 | 42·02 | ... |
| " " (Gladhouse Res.) | " " " | 5 | 0 6 | 900 | 31·14 | 214 |
| " " (Rosebery) | " " " | 4 | 0 6 | 750 | 26·67 | 211 |
| Pentland Hills (Crosswood) | " " " | 5 | 1 0 | 950 | 33·83 | ... |
| Moorfoot Hills (Edgelaw)..... | " " " | 4 | 0 6 | 654 | 28·71 | 211 |
| Pentland Hills (Harperrig) | " " " | 5 | 0 6 | 900 | 33·70 | ... |
| " " (Harehill) | " " " | 11 | 1 5 | 1470 | 35·35 | ... |
| " " (Loganlea) | " " " | 8 | 1 4 | 850 | 34·49 | ... |
| §West Calder (Addiewell) | Scot. Meteorological Soc. | 5 | 0 6 | 600 | 31·39 | ... |
| Pentland Hills (Swanston) | W. Anderson, Esq..... | 11 | 0 6 | 550 | 25·76 | ... |
| " " (Glencorse Res.).. | " " " | 5 | 1 3 | 787 | 34·78 | 215 |
| " " (Harlaw) | " " " | 5 | 0 6 | 800 | 28·11 | ... |
| " " (Clubbiedean Res.) | " " " | 11 | 0 6 | 750 | 28·11 | ... |
| " " (Harbour Hill) ... | " " " | 11 | 0 6 | 1112 | 33·30 | ... |
| Liberton (Alnwick Hill) | " " " | 11 | 0 6 | 400 | 23·68 | 182 |
| §Dalkeith Gardens | Mr. J. Whytock..... | 5 | 1 0 | 144 | 19·13 | 143 |
| §Edinburgh (R. Obs., Blackford Hill) | T. Heath, Esq. | 8 | 1 0 | 442 T | 21·27 | 169 |
| §Corstorphine House | Dr. T. N. Johnston ... | 5 | 1 0 | 165 | 25·93 | 245 |
| §Musselburgh (Levenhall) | The Misses Husband... | 5 | 1 0 | 15 T | 19·76 | 177 |
| §Edinburgh (Univ. Engin. Lab.) | Prof. T. Hudson Beare. | 5 | 1 0 | 240 T | 22·60 | 185 |
| † " " " " " M | " " " " " " | 5 | 1 0 | 240 T | 21·96 | ... |
| § " " (City Observatory)... | W. Peck, Esq. | 8 | 1 0 | 349 | 20·80 | 169 |
| † " " (Charlotte Square)... | Messrs. Leslie & Reid, CE | 11 | 1 6 | 190 T | 21·40 | ... |
| † " " " " " " | " " " " " " | 12 | 63 0 | 300 | 16·68 | ... |
| § " " (Streatham House)... | Scot. Meteorological Soc. | ... | ... | ... | 25·10 | ... |
| §Cramond Bridge (Craigiehall) ... | Mr. J. Sutherland | 8 | 0 8 | ... | 23·35 | ... |
| §Leith | Meteorological Office ... | 8 | 1 8 | 37 | 22·14 | 200 |
| § " (Navigation School)..... | Scot. Meteorological Soc. | 5 | 0 5 | 76 | 24·04 | ... |
| §Davidson's Mains (Broomfield)... | Mr. C. Comfort | 5 | 0 10 | 42 L | 22·73 | 168 |
| LINLITHGOW. | | | | | | |
| Whitburn (Polkemmet) | Scot. Meteorological Soc. | 5 | 2 0 | 600 T | 51·19 | ... |
| §Bathgate (Boghead House) | J Robertson Durham Esq | 5 | 2 0 | 500 | 36·24 | 207 |
| §Uphall | Scot. Meteorological Soc. | 5 | 0 10 | 380 | 30·58 | ... |
| Carribber Reservoir | M John P. Lawrie, Esq... | 5 | 0 7 | 425 T | 32·40 | ... |

Transfer to Humiliyone

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain. | Days with 0.1 or more recorded. |
|----------------------------------|------------------------|-------------|---------------------|------------------------|----------------|---------------------------------|
| | | Diameter | Height Above Ground | Height Above Sea Level | 1908 | |
| | | in. | ft. in. | feet. | inches. | |
| LINLITHGOW—(con.) | | | | | | |
| D Linlithgow Academy..... | J. Beveridge, Esq..... | 5 | 1 0 | 170 T | 31.77 | 187 |
| „ „ „.....M | „ „ „ „ „..... | 5 | 1 0 | 170 T | 34.00 | ... |
| D Dalmeny House..... | Mr. D. T. Johnston .. | 8 | 0 5 | 55 | 25.42 | 179 |
| Bo'ness (Neidpath Cottage) | Mr. J. Grant | 5 | 3 0 | 200 T | 24.96 | ... |
| D „ (Grange) | H. M. Cadell, Esq. ... | 5 | 0 2 | 14 | 27.49 | 172 |

LANARK.

| | | | | | | | |
|------------------------------------|--------------------------|-----|---------|-----|-------|--------|-----|
| § Leadhills..... | Scot.Meteorological Soc. | 5 | 1 | 1 | 1300 | 55.88 | ... |
| Lamington (Cowgill Reservoir)... | J. Chisholm, Esq., C.E. | 5 | 1 | 0 | 970 T | 38.95 | ... |
| § "..... | Scot.Meteorological Soc. | 5 | 1 | 4 | 800 | 35.27 | ... |
| D Biggar | J. Eunson, Esq. | 8 | 1 | 0 | 691 T | 30.91 | 204 |
| " (Cambus Wallace)..... | F. W. M. Watson, Esq. | 6 | 0 | 6 | 748 T | 27.96 | ... |
| D " (Shieldhill) | Miss Dunlop | 5 | on roof | | 850 T | 26.49 | 198 |
| § Strathaven (Kype)..... | Scot.Meteorological Soc. | ... | ... | ... | ... | 40.40 | ... |
| Lanark (Rhyber Lodge) | R. Swann, Esq. | 6 | 3 | 0 | 650 | 29.10 | ... |
| D Cleghorn..... | Mrs. Elliott Lockhart... | 5 | 0 | 6 | 720 T | 32.28 | 172 |
| D Carluke (Mauldslie Castle) | Mr. D. Bryson | 5 | 1 | 0 | 140 | 30.58 | 152 |
| Hamilton Water Works | Mr. W. H. Purdie..... | 7 | 1 | 0 | 436 T | 35.50 | ... |
| D " (Lighthstone Hall) | Rev. T. M. B. Paterson | 5 | 1 | 9 | 260 T | 35.11 | 201 |
| Motherwell (Dalzell Gardens) .. | Mr. W. Mackie | 6 | 5 | 6 | 170 | 36.63? | ... |
| D § Busby (Thornton Hall)..... | Mr. J. Wilson | 6 | 1 | 0 | 440 | 37.36 | 208 |
| D § Bothwell | Dr. J. T. Wilson | 5 | 0 | 9 | 150 T | 26.26 | 166 |
| Glasgow (Tollcross Park)..... | J. Whitton, Esq. | 5 | 0 | 6 | 85 | 34.00 | ... |
| " Green..... | " " " | 5 | 0 | 6 | 35 | 31.49 | ... |
| " (Bellahouston Park) ... | " " " | 5 | 0 | 6 | 160 | 30.78 | ... |
| † " (Botanic Gardens)..... | " " " | 5 | 0 | 6 | 110 | 33.65 | ... |
| " (Alexandra Park) | " " " | 5 | 0 | 6 | 141 | 34.13 | ... |
| " (George Square) | " " " | 8 | 6 | 0 | 40 | 32.27 | ... |
| " (Kelvingrove Park) ... | " " " | 5 | 0 | 6 | 48 | 33.41 | ... |
| " (Ruchill Park) | " " " | 5 | 0 | 6 | 220 | 37.59 | ... |
| § " (Belvedere Hospital) ... | Scot.Meteorological Soc. | 5 | 1 | 1 | 60 T | 31.64 | ... |
| § " Observatory | Prof. L. Becker | 11 | 2 | 0 | 182 | 35.84 | 213 |
| " (Springburn Park) | J. Whitton, Esq. | 5 | 0 | 6 | 361 | 30.08 | ... |
| Airdrie | J. Chisholm, Esq., C.E. | 5 | 1 | 0 | 400 T | 32.98 | ... |
| D " (Hillend Reservoir) | Mr. W. A. Ritchie | 6 | 4 | 6 | 620 T | 34.56 | 200 |
| § Roughrigg Res. [Slamannan] .. | J. Chisholm, Esq., C.E. | 5 | 1 | 0 | 661 T | 33.93 | ... |
| AYR. | | | | | | | |
| Ballantrae (Glendrisaig)..... | P. Murdoch, Esq. | 10 | 4 | 0 | 42 | 35.63 | 183 |
| Barrhill (Dochroyle)..... M | Mr. J. Scott | 6 | 0 | 6 | 548 T | 41.35 | ... |
| Colmonell | late A. Beattie, Esq.... | 5 | 1 | 0 | 140 T | 44.15 | ... |
| D § Girvan (Pinmore) .. | Hugh Hamilton, Esq... | 5 | 0 | 5 | 197 T | 52.15 | 269 |
| D Barr Manse | Rev. G. Dods..... | 5 | 1 | 0 | 330 | 47.51 | 204 |
| Girvan (Glendoune Gardens) ... | Mr. J. Simons | 5 | 1 | 0 | 100 T | 44.11 | 199 |

DIVISION XIV.—SOUTH WESTERN COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with ≥ 0.1 or more recorded. |
|---|---------------------------|-------------|---------------------|------------------------|------------------------|--|
| | | Diameter | Height Above Ground | Height Above Sea Level | | |
| | | in. | ft. in. | feet. | inches. | |
| AYR—(con.) | | | | | | |
| Ailsa Craig..... | Bd. of Northern Lights | 3 | 5 0 | ... | 29.89 | 158 |
| Loch Finlas..... | J. Young, Esq., C.E.... | 5 | 1 0 | 849 ∇ | 63.06 | ... |
| ∇ Dalrymple (Bow Hill) | A. Gillespie, Esq. | 5 | 0 8 | 978 | 45.12 | 222 |
| Maybole (Culzean Gardens) | Mr. D. Murray | 9 | 3 0 | 200 | 37.60 | ... |
| „ (Knockdon Farm) | Mr. W. Muir | 5 | 2 0 | 344 | 34.72 | ... |
| Ayr (Doonside) | W. H. Dunlop, Esq. ... | 5 | 1 0 | 90 | 38.83 | 199 |
| ∇ „ (Doonholm)..... | J. Kennedy, Esq. | 5 | 1 0 | 90 | 37.90 | 196 |
| ∇ Mauchline (Catrine) | Messrs. J. Finlay & Co. | 6 | 1 0 | 301 ∇ | 33.78 | 192 |
| Muirkirk (Glenbuck) | Mr. W. F. Hamilton... | 6 | 1 0 | 900 | 44.30 | ... |
| ∇ Kilmarnock..... | Scot. Meteorological Soc. | 5 | 1 0 | 74 | 41.16 | ... |
| ∇ „ (Agricultural College) | Prof. R. A. Berry | 8 | 1 0 | 85 ∇ | 39.64 | 199 |
| „ (North Craig Res.).... | R. Blackwood, Esq. ... | 12 | 1 0 | 319 ∇ | 43.40 | ... |
| ∇ Saltcoats | Scot. Meteorological Soc. | 11 | ... | ... | 39.66 | ... |
| ∇ Stevenston (Greenhead Filters)... | Gilbert Chrystie, Esq. CE | 11 | 1 0 | 186 ∇ | 41.47 | ... |
| ∇ Dalry (Blair) | Mr. W. Mair | 5 | 1 3 | 155 ∇ | 53.01 | 198 |
| ∇ „ (Mount Pleasant) | Archibald Shanks, Esq. | 5 | 1 1 | 290 ∇ | 47.46 | 228 |
| ∇ „ (Munnoch Reservoir) | Gilbert Chrystie, Esq. CE | 11 | 1 3 | 325 ∇ | 49.25 | ... |
| „ (Caaf Reservoir)..... | „ „ „ | 9 | 1 0 | 515 ∇ | 57.22 | ... |
| „ (Camphill Reservoir) | James Lee, Esq., C.E.... | 12 | 1 6 | 611 | 60.25 | ... |
| Shaws Water Works (Kelly Dam) | D. Macalister, Esq., C.E. | 6 | 1 0 | 640 | 77.80 | ... |
| „ „ (Knockencorsan) | „ „ „ | 6 | 1 0 | 1040 | 68.80 | ... |
| RENFREW. | | | | | | |
| Lochwinnoch (Garthland)..... | H. Macdowall, Esq. ... | 5 | 0 11 | 150 | 66.98 | ... |
| „ (Castlesemple)..... | Mr. C. Jamieson..... | 7 | 26 0 | 240 | 44.03 | 220 |
| Gorbals Dist. W.W. (Ryat Lynn) | J.R. Sutherland, Esq. CE | 8 | 0 5 | 310 | 48.20 | ... |
| „ „ „ (Waulk Glen) | „ „ „ | 12 | 0 5 | 280 | 46.45 | ... |
| „ „ „ (Middleton).... | „ „ „ | 12 | 0 5 | 550 | 55.90 | ... |
| „ „ „ (Nether Cairn) | „ „ „ | 12 | 0 5 | 700 | 58.90 | ... |
| Paisley W.W. (Stanely) | James Lee, Esq., C.E.. | 12 | 1 0 | 190 | 40.50 | ... |
| „ „ (Back Thornley Muir) | „ „ „ | 12 | 1 0 | 646 | 52.15 | ... |
| „ „ (Muirhead)..... | „ „ „ | 12 | 1 0 | 482 ∇ | 53.17 | ... |
| „ „ (Springside) | „ „ „ | 12 | 1 0 | 532 ∇ | 61.25 | ... |
| ∇ Glasgow (Queen's Park) | J. Whitton, Esq. | 8 | 0 9 | 144 ∇ | 33.61 | 202 |
| „ (Maxwell Park) | „ „ „ | 5 | 0 6 | 69 | 34.03 | ... |
| Paisley (Crookston House) | Mrs. Hotchkis | 5 | 0 5 | 50 | 36.20 | ... |
| ∇ „ (The Coats Observatory) | D. Maclean, Esq. | 10 | 1 8 | 107 | 43.21 | 226 |
| ∇ Kilmalcolm Waterworks | Scot. Meteorological Soc. | ... | ... | 500 ? | 73.56 | ... |
| Shaws W.W. (Duchall Moor) .. | D. Macalister, Esq., C.E. | 6 | 1 0 | 1150 | 76.30 | ... |
| „ „ (Creuch Hill) | „ „ „ | 6 | 1 0 | 1350 | 65.50 | ... |
| „ „ (Largs Road) | „ „ „ | 5 | 1 0 | 910 | 54.86 | ... |
| „ „ (Green Water) | „ „ „ | 6 | 1 0 | 788 ∇ | 71.00 | ... |
| ∇ Kilmalcolm (St. Oswald's) ... (R) | Scot. Meteorological Soc. | ... | 1 0 | 400 | 57.19 | ... |
| ∇ Douglichill Res. (Port Glasgow W.W.) | James Murray, Esq. ... | 5 | 1 6 | 540 ∇ | 48.69 | ... |
| ∇ Auchendores Res. („ „ „) | „ „ „ | 5 | 1 6 | 320 ∇ | 45.37 | ... |
| Shaws W.W. (Gryfe Reservoir). | D. Macalister, Esq., C.E. | 6 | 1 0 | 640 ∇ | 64.80 | ... |
| „ „ (Mansfield) | „ „ „ | 5 | 1 0 | 573 ∇ | 62.53 | 245 |

DIVISION XIV.—SOUTH WESTERN COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with .01 or more recorded |
|----------------------------------|---------------------------|-------------|---------------------|------------------------|------------------------|--------------------------------|
| | | Diameter | Height Above Ground | Height Above Sea Level | | |
| | | in. | ft. in. | feet. | inches. | |
| RENFREW—(con.) | | | | | | |
| Shaws W.W. (Compensation Res.) | D. Macilister, Esq., C.E. | 5 | 1 0 | 600 | 72.19 | 263 |
| „ „ (Loch Thom) | „ „ „ .. | 5 | 1 0 | 643 ∇ | 73.45 | 263 |
| „ „ (Shielhill) | „ „ „ .. | 6 | 1 0 | 962 ∇ | 77.80 | ... |
| „ „ (Darndaff Moor).... | „ „ „ .. | 6 | 1 0 | 850 | 69.30 | ... |
| „ „ (Spango Burn) ... | „ „ „ .. | 6 | 0 9 | 757 ∇ | 72.20 | ... |
| „ „ (Hole Glen)..... | „ „ „ .. | 5 | 1 0 | 603 | 58.00 | 243 |
| „ „ (New Yetts Dam).. | „ „ „ .. | 5 | 1 0 | 800 | 64.67 | 243 |
| n§Greenock (Prospect Hill) | „ „ „ .. | 5 | 1 0 | 233 | 65.18 | 230 |
| Bishopton (Ingliston) | D. Cross, Esq..... | 5 | 1 0 | 195 | 44.40 | ... |
| Langbank (East Bank Gardens). | A. Cross, Esq..... | 5 | 2 6 | 150 | 46.68 | ... |

DIVISION XV.—WEST MIDLAND COUNTIES.

DUMBARTON.

| | | | | | | |
|------------------------------------|----------------------------------|-----|-----|--------------|-------|-----|
| n§Dumbarton (Leven Shipyard) ... | Messrs W. Denny & Bros. | 5 | 1 0 | 9 ∇ | 46.21 | 240 |
| n Duntocher (Cochno Filters) | G. D. Mackie, Esq., C.E. | 5 | 1 0 | 400 ∇ | 45.02 | 215 |
| Kilpatrick Hills (Greenside Res.) | „ „ „ .. | 5 | 1 0 | 876 ∇ | 52.37 | ... |
| „ „ (Loch Cochno)... | „ „ „ .. | 5 | 1 0 | 909 ∇ | 54.02 | ... |
| „ „ (Jaw Reservoir) .. | „ „ „ .. | 5 | 1 0 | 912 ∇ | 58.43 | ... |
| „ „ (Burncrooks Res.) | „ „ „ .. | 5 | 1 0 | 820 ∇ | 41.81 | ... |
| Renton (Carman Reservoir) | Mr. Chas. Brown | ... | ... | 400 | 44.67 | 203 |
| n Helensburgh (Fernigair House).. | W. Rodger, Esq. | 6 | 0 6 | 18 | 50.84 | 212 |
| n „ (Water Works) ... | „ „ „ .. | 6 | 0 6 | 300 | 42.25 | 219 |
| §Roseneath (Achnashie) | A. S. Campbell, Esq.... | 6 | 1 0 | 25 | 61.05 | 183 |
| Garelochhead (Rahane) | Mr. W. S. Turnbull ... | 6 | 1 0 | 32 | 68.30 | ... |
| Glen Finlas Reservoir | Mr. Daniel Murray ... | ... | ... | 750 | 79.20 | ... |
| n Arrochar House.....(R) | Mr. J. Thomson | 6 | 1 3 | 50 | 86.85 | 205 |

STIRLING.

| | | | | | | |
|-----------------------------------|-----------------------------|---|------|--------------|-------|-----|
| n Torrance (Glenorchard)..... | Miss Bartholomew | 5 | 1 6 | 200 | 43.65 | 212 |
| Strathblane (Mugdock Reservoir) | J. R. Sutherland, Esq. CE | 8 | 0 6 | 320 | 49.30 | ... |
| n „ (Craigend Castle) ... | Mr. A. Davidson | 5 | 1 2 | 533 ∇ | 56.93 | 195 |
| „ (Craigbarnet) | Capt. G. H. Miller Stirling | 6 | 0 6 | 300 ∇ | 54.10 | ... |
| n „ (The Manse) | Rev. W. B. Moyes..... | 5 | 0 6 | 235 ∇ | 57.10 | 207 |
| n Kilsyth (Currymire) | James Smith, Esq. ... | 5 | 1 2 | 200 | 52.33 | 216 |
| Muiravonside Ho. [Linlithgow]. | Mr. C. Leeder..... | 5 | 4 8 | 175 | 32.74 | ... |
| Polmont (Vellore).....(R) | W. Brown, Esq..... | 8 | 4 6 | 330 | 30.28 | 196 |
| n Falkirk (Inglewood, Laurieston) | W. Ballantine, Esq. ... | 5 | 1 3 | 133 ∇ | 36.49 | 162 |
| n „ (Westbank) | A. Nimmo, Esq..... | 5 | 0 9 | 75 | 36.29 | 190 |
| „ (Burgh Hospital) | David Ronald, Esq., C.E. | 5 | 1 0 | 395 ∇ | 38.01 | ... |
| n „ („ Buildings) | „ „ „ .. | 5 | 1 0 | 107 ∇ | 33.99 | 187 |
| „ (Ardenlea) | J. Aitken, Esq., F.R.S. | 5 | 1 0 | 105 ∇ | 37.54 | ... |
| „ (Kerse) | No. 1 C. Brown, Esq. | 8 | 1 0 | 18 ∇ | 32.30 | ... |
| „ („) | No. 2 „ „ „ .. | 5 | 0 10 | 18 ∇ | 32.65 | ... |
| n „ (Cauldhame) | David Ronald, Esq., C.E. | 5 | 1 0 | 73 ∇ | 34.27 | 199 |

V. Andrew Esq. C.E.

DIVISION XV.—WEST MIDLAND COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain. | Days with "0" or more recorded. |
|-------------------------------------|---|-------------|---------------------|------------------------|----------------|---------------------------------|
| | | Diameter | Height Above Ground | Height Above Sea Level | 1908 | |
| | | in. | ft. in. | feet. | inches. | |
| STIRLING—(con.) | | | | | | |
| Little Denny Reservoir | C. Massie, Esq. | 8 | 1 0 | 326 | 45·39 | ... |
| " " Filters..... | " " | 8 | 1 0 | 268 ∇ | 44·22 | ... |
| Kilsyth (Faughlin Res.) | " " | 8 | 1 0 | 707 ∇ | 60·52 | ... |
| § Bannockburn (Auchenbowie) ... | Mr. J. Porter | 6 | 1 0 | 280 | 49·50 | ... |
| Earlsburn Reservoir | C. Massie, Esq. | 8 | 1 0 | 1202 ∇ | 64·80 | ... |
| d Killearn (Achnagowen)..... | Miss Guthrie-Smith ... | 5 | 0 10 | 332 ∇ | 49·77 | 196 |
| Stirling (Touch Reservoir) | A. H. Goudie, Esq. ... | 8 | 2 6 | 765 | 48·64 | 210 |
| " (Polmaise Gardens)..... | Mr. W. W. Ritchie ... | 6 | 1 0 | 12 | 37·41 | ... |
| " (Victoria Place) | R. Kidston, Esq., F.R.S. | 5 | 2 10 | 100 | 39·46 | ... |
| d § Buchlyvie (The Manse)..... | Rev. J. A. Macdonald.. | 5 | 1 3 | 118 \dagger | 50·29 | 245 |
| Gargunnoch House | C. Stirling, Esq..... | 5 | 5 8 | 85 \dagger | 29·22 | ... |
| d Kippen (Arngomery) | Mr. P. McCowan | 5 | 4 2 | 150 | 44·38 | 162 |
| d † Bridge of Allan (The Lea) | Laurence Pullar, Esq...
J.R. Sutherland, Esq. CE | 5
... | 1 0
... | 110
1800 | 37·25
85·10 | 213
... |
| Ben Lomond (Hd. of Duchray Val.) | " " " | ... | ... | 870 | 87·70 | ... |
| Loch Arklet (Corriehichon) | " " " | ... | ... | 950 | 88·40 | ... |
| " " (Corriearklet) | " " " | ... | ... | 380 | 88·10 | ... |
| Glengyle | " " " | ... | ... | | | |
| BUTE. | | | | | | |
| Arran (Pladda) | Bd. of Northern Lights ... | ... | ... | 130 | 61·54 | 176 |
| " (Pillar Rock, Holy Island) | " " " | 3 | 0 3 | 46 | 54·97 | 169 |
| d " (Brodict, U.F. Manse) ... | Rev. A. Sutherland ... | 5 | 1 0 | 150 ? | 68·22 | 207 |
| " (Strabane) | A. Hugh Douglas, Esq. | 5 | 1 5 | 25 | 72·34 | ... |
| d Rothesay (Crichton Road) | H. Lauder, Esq..... | 5 | 4 0 | 97 | 55·76 | 230 |
| § " (Glenburn)..... | Scot. Meteorological Soc | 5 | 1 0 | 95 | 55·68 | ... |
| Port Bannatyne (Ettrickdale) ... | Lt.-Col. M.R. Gray Buchanan | 5 | 1 0 | 190 B | 55·28 | 244 |
| ARGYLL—(MAINLAND.) | | | | | | |
| Mull of Kintyre | Bd. of Northern Lights ... | ... | ... | 279 ? | 42·58 | 162 |
| d Campbeltown (Witchburn) | Mr. John Giffen | 5 | 1 2 | 75 | 48·23 | 248 |
| § " (The Rectory)..... | Scot. Meteorological Soc. | 5 | 2 1 | 30 ? | 51·58 | ... |
| " (Devaar) | Bd. of Northern Lights ... | ... | 3 4 | 120 ? | 45·95 | 141 |
| Kintyre (Killeam Manse, Muasdale) | Rev. D. J. Macdonald .. | 5 | 1 0 | 30 B | 40·69 | 213 |
| " (Largie Castle) | J.R.M. Macdonald, Esq. | 5 | 1 0 | 160 \dagger | 44·62 | ... |
| " (Skipness Castle) | Mr. P. McLean ... | 5 | 1 6 | 27 \dagger | 46·06 | ... |
| d " (Glenreasdell Mains) ... | Ronald S. Ker, Esq. ... | 5 | 1 0 | 149 \dagger | 54·92 | 215 |
| " (Bunawe Cottage, Tarbert) | Mr. D. M. McIlriach ... | 6 | 0 8 | 150 ? | 66·65 | 190 |
| d " (Carsee, ") | J. Birkmyre, Esq., jun. | 6 | 1 6 | 20 | 44·31 | 235 |
| d Tighnabraich (Craigandaraich) | J. S. Paton, Esq. | 12 | 5 0 | 50 B | 66·25 | 209 |
| d Dunoon (Reservoir) | A. Stirling, Esq., C.E.. | 4 | 3 6 | 245 ∇ | 92·95 | 233 |
| d " (Redhurst) | Dr. J. Banks | 5 | 1 6 | 60 | 85·73 | 226 |
| " (Grammar School) | J. MacGregor, Esq. ... | 5 | 1 5 | 56 ∇ | 77·90 | ... |
| d Holy Loch (Ardnadam) | Rev. J. Cairns Mitchell | 5 | 1 0 | 66 B | 86·48 | 234 |
| d Loch Fyne (Otter Ferry) | Mrs. Stewart | 5 | 1 0 | 37 \dagger | 48·94? | 221 |
| d Loch Eck (Benmore)..... | H. J. Younger, Esq. ... | 5 | 1 3 | 40 | 90·40 | 190 |
| v Ardrishaig (Canal Office) | L. J. Groves, Esq., C.E. | 5 | 1 0 | 44 | 66·00 | 226 |

DIVISION XV.—WEST MIDLAND COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | | Depth of Rain.
1908 | Days with .01 or more recorded. |
|------------------------------------|------------------------------|-------------|----------------------|-----|------------------------|------------------------|---------------------------------|
| | | Diameter | Height above Ground. | | Height above Sea Level | | |
| | | in. | ft. | in. | feet. | inches. | |
| ARGYLL—(MAINLAND)— <i>con.</i> | | | | | | | |
| D§ Lochgilphead (Poltalloch)..... | Mr. D. S. Melville..... | 5 | 1 | 2 | 135 | 57·98 | 234 |
| D Loch Fyne (Furnace)..... | Mr. W. Nicol | 5 | 3 | 0 | 15 L | 73·75 | 223 |
| D Strachur (Tombuidhe) | J. Robertson, Esq..... | 5 | 1 | 0 | 180 T | 65·69 | 220 |
| D† Lochgoilhead (Nuthill) | G. Murray Knox, Esq.. | 5 | 1 | 0 | 15 | 74·30 | 230 |
| D† Inveraray (Newtown) | Mrs. Little | 5 | 1 | 0 | 17 | 74·68 | 256 |
| D† „ (Stronshira)..... | Rev. P. N. Mackichan.. | 5 | 1 | 0 | 10 | 70·02 | 236 |
| D§ Ardkinglas | Sir Andrew Noble, Bt.. | 8 | 1 | 6 | 37 A | 82·83 | 258 |
| D Kilmelfort (Arduaine) | J. A. Campbell, Esq.... | 5 | 0 | 10 | 23 L | 60·51 | 231 |
| Glen Shira (Drimlie) | Rev. P. N. Mackichan.. | 5 | 0 | 10 | 600 ? | 86·69 | ... |
| § Appin (Airds)..... | Mr. A. McLachlan..... | 5 | 0 | 11 | 15 | 53·55 | ... |
| D Morvern (Kingairloch) | G. Herbert Strutt, Esq. | 5 | 1 | 0 | 40 P | 107·98 | 232 |
| D „ (Drimnin) | Mrs. Gordon | 5 | 1 | 0 | 225 | 66·41 | 257 |
| D Ballachulish House | F. C. Beresford Drummond Esq | 5 | 1 | 0 | 56 A | 82·96 | 239 |
| „ (Glencoe) | J. D. Sutherland, Esq. | ... | 6 | 0 | 100 | 87·39 | ... |
| D§ Strontian (Laudale) | J. A. Fletcher, Esq. ... | 8 | 1 | 0 | 15 A | 73·98 | 243 |
| D§ Loch Sunart (Glenborrodale) ... | C. D. Rudd, Esq. | 5 | 0 | 2 | 60 L | 70·67 | 237 |
| Glenleven (Blackwater) ...No. 4 | Loch Leven Power Co.. | ... | ... | ... | 1040 P | 78·06 | ... |
| „ (Dam) | „ „ „ „ | ... | ... | ... | 1050 P | 75·33 | ... |
| „ (Invercann).....No. 6 | „ „ „ „ | ... | ... | ... | 1100 P | 70·24 | ... |
| „ (Kinlochleven) ..No. 1 | „ „ „ „ | ... | ... | ... | 100 P | 86·56 | ... |
| Ardnamurchan | Bd. of Northern Lights | 8 | 4 | 3 | 180 | 50·99 | 152 |
| D Ardgour | Capt. A. J. N. Maclean | 5 | 0 | 10 | 65 B | 99·99 | 245 |
| Loch Eil (Corran) | Bd. of Northern Lights | 3 | 1 | 6 | 38 | 94·47 | 192 |
| ARGYLL—(INSULAR.) | | | | | | | |
| D Islay (Tighcargaman, Port Ellen) | Peter Reid, Esq..... | 5 | 1 | 8 | 24 | 45·32 | 230 |
| D „ (Ardbeg) | C. E. Hay, Esq..... | 5 | 7 | 0 | 46 T | 45·62 | 265 |
| „ (Rhinn) | Bd. of Northern Lights | 7 | 3 | 6 | 150 | 39·38 | 167 |
| „ (Lochindaul)..... | „ „ „ | 3 | 0 | 6 | 52 | 42·98 | ... |
| „ (McArthurshead) | „ „ „ | 3 | 0 | 4 | 128 | 62·84 | 166 |
| D „ (Eallabus)..... | J. Laughton, Esq..... | 5 | 1 | 0 | 68 T | 51·22 | 256 |
| „ (Rhuvaal) | Bd. of Northern Lights | 3 | 1 | 3 | 147 | 42·36 | 193 |
| Jura (Ardfin) | Miss Campbell | 5 | 1 | 0 | 160 | 51·56 | 230 |
| „ (Fladda) | Bd. of Northern Lights | 3 | 1 | 0 | 42 | 39·60 | ... |
| Lismore (Mousedale)..... | „ „ „ | 7 | 3 | 10 | 105 | 37·85 | ... |
| § Eriska Island | Scot. Meteorological Soc. | 5 | 1 | 6 | 30 | 61·91 | ... |
| Mull (Bunessan) | Duncan Cameron, Esq. | 5 | 1 | 4 | 50 B | 80·64 | ... |
| § „ (Lochbuie)..... | Scot. Meteorological Soc. | 8 | 1 | 2 | 20 | 88·90 | ... |
| D „ (Kinlochspelve) | Mr. R. McMorran | 8 | 1 | 0 | 45 | 94·09 | 245 |
| D „ (Ulva) | F. W. Clark, Esq..... | 5 | 1 | 0 | 30 A | 65·72 | 254 |
| D§ „ (Gruline) | J. W. Melles, Esq. ... | 8 | 1 | 0 | 101 P | 79·59 | 259 |
| D „ (Quinish) | J. N. Forsyth, Esq. ... | 5 | 1 | 3 | 35 B | 55·00 | 232 |
| „ (Glengorm) | F. Morgan, Esq..... | 5 | 0 | 11 | 300 | 59·19 | ... |
| „ Sound of | Bd. of Northern Lights | 3 | 1 | 4 | 55 | 65·65 | 200 |
| Sanda | „ „ „ | ... | ... | ... | 165 | 37·63 | ... |

DIVISION XVI.—EAST MIDLAND COUNTIES.

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | | Depth of Rain. | Days with .01 or more recorded. |
|----------------------------------|--------------------------|-------------|---------------------|-----|------------------------|----------------|---------------------------------|
| | | Diameter | Height Above Ground | | Height Above Sea Level | 1908 | |
| | | in. | ft. | in. | feet. | inches. | |
| CLACKMANNAN. | | | | | | | |
| Alloa (Mar Street)..... | A. Mitchell, Esq. | 5 | 0 | 6 | 70 | 30.31 | ... |
| „ W.W. (Gartmorn Res.) ... | Andrew Mackie, Esq. CE | 11 | 1 | 0 | 172 A | 31.77 | ... |
| Alva House..... | Miss Johnstone of Alva | 5 | 1 | 6 | 180 | 39.48 | ... |
| D Dollar (Dollarbeg)..... | James Bleloch, Esq. ... | 5 | 0 | 9 | 265 T | 37.28 | 199 |
| D§ „ (Academy) | Mr. A. Blackwood | 9 | 1 | 0 | 178 | 38.76 | 147 |
| KINROSS. | | | | | | | |
| Blairingone [Dollar]..... | Rev. J. F. Cameron ... | 5 | 1 | 6 | 300 T | 37.43 | 178 |
| D Loch Leven Sluice | Mr. W. Hay | 8 | 0 | 9 | 360 L | 37.44 | 166 |
| Kinross House | Mr. James Kirk..... | 8 | 3 | 8 | 377 T | 36.04 | ... |
| FIFE. | | | | | | | |
| D Dunfermline(BroomhallGardens) | Mr. J. Mitchell | 5 | 1 | 0 | 15 T | 27.78 | 178 |
| D Culross (Westgrange) | J. J. Dalglish, Esq. ... | 5 | 0 | 2 | 116 A | 31.72 | 180 |
| Dunfermline (Keavil) | „ „ „ | 5 | 0 | 2 | 150 | 26.96 | 164 |
| Carnock (Luscar House) ... No. 1 | A. Mitchell, Esq. | 5 | 0 | 10 | 430 T | 33.26 | ... |
| „ „ „ „ „ No. 2 | „ „ „ | 5 | 0 | 10 | 430 T | 32.98 | ... |
| „ (Craigluscar) | A. W. Bell, Esq., C.E. | 12 | 0 | 4 | 280 A | 38.25 | ... |
| §Leslie (Lothrie Reservoir)..... | Scot.Meteorological Soc. | 5 | 0 | 5 | 702 | 34.07 | ... |
| Largo (Carlton) | Mr. E. Tate | 5 | 2 | 6 | 150 T | 31.84 | 186 |
| D Colinsburgh Manse | Rev. Robert Dick | 5 | 2 | 0 | 130 T | 27.00 | 180 |
| D „ (Balcarres)..... | Mr. J. M. Paul | 5 | 1 | 0 | 300 T | 28.73 | 181 |
| D Carnbee (Ovenstone W.W.) | A. P. Watson, Esq. ... | 5 | 1 | 0 | 168 A | 22.22? | 156 |
| §Cupar (Clatto Reservoir)..... | Scot.Meteorological Soc. | ... | ... | ... | ... | 30.75 | ... |
| D „ (Fife & Kinross Asylum).. | W. Swinton, Esq. | 5 | 1 | 0 | 210 | 26.59 | 194 |
| §Crail (Cambo) | Scot.Meteorological Soc. | 8 | 1 | 0 | 50 | 23.25 | ... |
| D St. Andrews (Waterworks) | W. Watson, Esq. | 5 | 1 | 0 | 217 A | 25.33 | 177 |
| D „ „ (South Street) | Miss Macadam | 5 | 1 | 0 | 55 B | 26.50 | 225 |
| Kilmany (Mountquhanie House) | Mr. David Dinwoodie... | 3 | 1 | 0 | 350 B | 26.32 | ... |
| D Tayport (Lighthouse)..... | J. Thompson, Jr. Esq. CE | 5 | 1 | 0 | 27 | 23.91 | 173 |
| PERTH. | | | | | | | |
| Aberfoyle (The Inn) | J.R.Sutherland, Esq. CE | 8 | 0 | 6 | 60 | 57.15 | ... |
| Ochertyre [Stirling]..... | Capt.C.M. Dundas, R.N. | 5 | 1 | 0 | 18 | 34.68 | ... |
| §Dunblane (Kippenross)..... | Scot.Meteorological Soc. | 3 | 1 | 3 | 240 | 38.75 | ... |
| D Doune (Gartincaber)..... | G. Burn Murdoch, Esq. | 5 | 1 | 0 | 200 T | 38.65 | 205 |
| D „ „ | Rev. G. S. Mackay..... | 5 | 1 | 0 | 125 A | 36.98 | 200 |
| §Dunblane (Kippendavie Lodge).. | Scot.Meteorological Soc. | 8 | 2 | 9 | 300 | 36.45 | ... |
| D Glendevon (Tormaukin) | Mr. W. Phillips | 5 | 0 | 10 | 770 T | 54.80 | 184 |
| „ „ (Glensherup) | A. W. Bell, Esq., C.E. | 12 | 0 | 4 | 745 T | 51.71 | ... |
| Loch Dhu | J.R.Sutherland, Esq. CE | 8 | 0 | 6 | 325 | 83.00 | ... |
| Ledard | „ „ „ | ... | ... | ... | 1500 | 65.15 | ... |
| Loch Drunkie..... | „ „ „ | 8 | 0 | 6 | 420 | 64.20 | ... |
| Loch Vennachar..... | „ „ „ | 8 | 0 | 6 | 275 | 54.90 | ... |
| Bridge of Turk | „ „ „ | 8 | 0 | 6 | 275 | 64.40 | ... |

DIVISION XVI.—EAST MIDLAND COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with '01 or more recorded. |
|------------------------------------|---------------------------|-------------|----------------------|------------------------|------------------------|---------------------------------|
| | | Diameter | Height Above Ground. | Height Above Sea Level | | |
| | | in. | ft. in. | feet. | inches. | |
| PERTH—(con.) | | | | | | |
| § Doune (High Braes) | Scot. Meteorological Soc. | ... | ... | ... | 49·41 | ... |
| „ (Cauldham) | the late J. Forbes, Esq. | 5 | 1 0 | 830 | 50·01 | 175 |
| Loch Katrine (Tunnel Hill Top) | J.R. Sutherland, Esq. CE | 8 | 0 6 | 830 | 68·10 | ... |
| Between Glen Finlas & Ben Ledi. | J. H. Buchanan, Esq. | 8 | 0 6 | 1800 | 51·85? | ... |
| Callander (Leny House) | J. H. Buchanan, Esq. | 5 | 0 4 | 340 T | 61·00 | ... |
| Braco (Nether Cambushinnie) ... | J. W. Stirling, Esq. | 5 | 0 10 | 380 T | 46·82 | ... |
| § Abernethy (Ayton House) | Scot. Meteorological Soc. | 5 | 0 11 | 120 | 29·65 | ... |
| Bridge of Earn (Ballendrick) ... | R. Richardson, Esq. | 3 | 1 0 | 50 | 28·54 | ... |
| § Balquhider (Blairereach) | J. Carnegie, Esq. | 5 | 1 0 | 460 | 95·11 | ... |
| „ (Stronvar) | „ | 5 | 1 0 | 422 T | 73·33 | 216 |
| Locheearnhead (Ardvorlich) | Col. J. Stewart, C.I.E. | 5 | 1 0 | 325 T | 58·45 | 218 |
| § Comrie (Clathick) | Scot. Meteorological Soc. | 5 | 1 0 | 300 | 40·45 | ... |
| § Crieff (Strathearn Hydro.) | Dr. T. H. Meikle | 5 | 1 0 | 436 T | 40·38 | 208 |
| Perth (Craigie Road) | Sydney Wilson, Esq. | 5 | 1 0 | 56 T | 28·14 | 178 |
| Killin (Auchmore House) | Mr. W. Clark | 5 | 1 0 | 400 T | 51·36 | ... |
| § Dunsinnan | Scot. Meteorological Soc. | ... | ... | 400 ? | 29·09 | ... |
| „ Coupar Angus | Mr. J. Robertson | 5 | 1 3 | 183 T | 27·68 | 205 |
| § Glenlyon (Meggernie Castle) ... | Scot. Meteorological Soc. | ... | ... | 700 ? | 56·06 | ... |
| § Blairgowrie (Rattray) | Mr. A. Wallace | 5 | 0 10 | 194 | 33·14 | ... |
| „ Aberfeldy (Dall Avon) | Dr. N. W. Mackay | 5 | 7 0 | 300 | 26·64 | 192 |
| „ (Dunros) | H. W. Johnston, Esq. | 5 | 1 0 | 400 | 31·33 | 209 |
| „ Blairgowrie (Ballintuim House). | Miss M. A. McDonald. | 5 | 1 4 | 600 | 37·89 | 230 |
| § Rannoch Station | Scot. Meteorological Soc. | 5 | 1 0 | 950 ? | 51·65 | ... |
| „ Blair Atholl | Mr. A. Cameron | 5 | 1 0 | 420 | 31·35 | 201 |
| FORFAR. | | | | | | |
| „ Buddonness (Low Light) | J. H. Thompson, Esq., CE | 5 | 1 0 | 17 | 21·58 | 170 |
| „ Dundee (Harbour) | „ | 5 | 0 10 | 14 | 19·27 | 172 |
| „ Broughty Ferry (Tayside Cottage) | Mr. A. Robb | 5 | 5 6 | 25 | 23·45 | 165 |
| „ Dundee (Eastern Necropolis) ... | Mr. J. Carnochan | 3 | 1 0 | 199 T | 24·85 | ... |
| „ („ „) | „ | 5 | 1 0 | 199 T | 25·39 | 200 |
| „ (Dens Works) ... roof g. | Messrs. Baxter Bros. | 5 | 1 5 | 119 T | 27·24 | 211 |
| „ (Camperdown Works) ... | Messrs. Cox Bros. | 5 | 3 8 | 290 | 23·72 | 169 |
| „ (Balruddery) | J. Martin White, Esq. | 5 | 1 0 | 266 T | 28·45 | 201 |
| „ Craigton | G. Baxter, Esq., C.E. | 8 | 1 0 | 484 | 29·50 | 161 |
| „ („ „) | „ | 11 | 3 0 | 484 | 29·22 | ... |
| „ (Hillhead) | „ | 11 | 3 0 | 570 | 31·50 | ... |
| „ Crombie Reservoir | „ | 11 | 3 0 | 522 T | 33·69 | ... |
| „ Arbroath (Waterworks) | P. C. Smith, Esq., C.E. | 5 | 1 0 | 58 T | 20·07 | 147 |
| „ („ „) | „ | 5 | 1 0 | 58 T | 19·59 | ... |
| „ (Dishland Hill) | Mr. J. Campbell | 5 | 1 0 | 69 T | 21·61 | 195 |
| „ (Muirheads Reservoir) | P. C. Smith, Esq., C.E. | 5 | 1 0 | 251 T | 25·54 | ... |
| „ Glamis Castle | Mr. T. Wilson | 5 | 1 6 | 250 | 27·06 | 141 |
| „ Forfar (Lilyfield) | D. M. Mackie, Esq. | 5 | 0 5 | 225 T | 28·91 | 189 |
| „ (Little Causeway) | J. Watson Craik, Esq. | 8 | 4 6 | 218 T | 28·09 | 183 |
| „ Kirriemuir (Eskhill) | Admiral E. Drummond | 5 | 0 9 | 320 | 31·34 | 197 |
| „ (Lintrathen) | G. Baxter, Esq., C.E. | 8 | 1 0 | 700 | 34·13 | 223 |

DIVISION XVI.—EAST MIDLAND COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | | Depth of Rain. | Days with no or more recorded. |
|----------------------------------|--------------------------|-------------|----------------------|-----|------------------------|----------------|--------------------------------|
| | | Diameter | Height Above Ground. | | Height Above Sea Level | 1908 | |
| | | in. | ft. | in. | feet. | inches. | |
| FORFAR—(con.) | | | | | | | |
| Kirriemuir (Lintrathen) | G. Baxter, Esq., C.E... | 8 | 1 | 0 | 700 | 32·40 | ... |
| „ { „, Balnakeilly)M | „ „ „ ... | 8 | 1 | 0 | 700 | 30·20 | ... |
| „ { „, Creich Hill)M | „ „ „ ... | 8 | 1 | 0 | 1500 | 27·50 | ... |
| Forfar W.W. (Den of Ogil)..... | J. Watson Craik, Esq. | 12 | 2 | 6 | 633 $\frac{1}{2}$ | 31·71 | ... |
| d § Glen Prosen (Pearsie) | E.M. Wedderburn, Esq. | 5 | 1 | 0 | 600 $\frac{1}{2}$ | 36·73 | 192 |
| § „ „ (Lednathie) | Mr. W. G. Lindsay ... | 5 | 1 | 0 | 720 | 40·60 | ... |
| Montroseness | Bd. of Northern Lights | 3 | 1 | 0 | 124 | 20·34 | ... |
| Montrose (Melville Gardens) ... | S. L. Christie, Esq. ... | 5 | 9 | 0 | 23 $\frac{1}{2}$ | 21·77 | ... |
| § „ (Sunnyside Asylum)... | Dr. J. G. Havelock ... | 5 | 0 | 10 | 200 | 27·04 | ... |
| d „ (Kinnaber W.W.)..... | S. L. Christie, Esq. ... | 5 | 1 | 0 | 38 $\frac{1}{2}$ | 25·05 | 173 |
| Brechin (Stracathro Gardens) ... | Mr. A. Dunlop | 5 | 1 | 0 | 200 $\frac{1}{2}$ | 26·17 | ... |

DIVISION XVII.—NORTH EASTERN COUNTIES.

KINCARDINE.

| | | | | | | | |
|-----------------------------------|---------------------------|----|---|----|-------|-------|-----|
| D Fettercairn (The Burn) | Col. C. McInroy, C.B.... | 5 | 0 | 11 | 250 | 32·43 | 206 |
| „ Manse..... | Rev. W. Anderson | 5 | 0 | 2 | 230 † | 33·55 | ... |
| „ (Fasque Gardens) ... | Sir J.R. Gladstone, Bart. | 5 | 1 | 0 | 320 † | 36·05 | 148 |
| Strachan (Bridge of Dye)..... | „ „ „ „ | 5 | 0 | 6 | 540 † | 41·84 | ... |
| D Stonehaven (Mains of Cowie) ... | John Hart, Esq..... | 5 | 1 | 0 | 80 | 24·44 | 187 |
| Crathes (Cross Roads, Durris)... | A. Macdonald, Esq. ... | 5 | 1 | 0 | 420 † | 27·93 | 194 |
| Durris House [Drumoak]..... (R) | Mr. A. Reid | 5 | 3 | 6 | 200 ? | 26·88 | ... |
| D†Banchory (Invercannie) | W. Dyack, Esq., C.E.. | 12 | 0 | 10 | 205 † | 28·82 | 165 |
| §Crathes (Pinewood) | J. Smith, Esq. | 5 | 1 | 0 | 145 † | 26·51 | 177 |
| D „ (Woodbank Cottage).... | Mr. D. Murchison | 5 | 0 | 6 | 165 † | 25·96 | 174 |
| Banchory (Hirn) | Mr. W. Caird..... | 5 | 1 | 0 | 287 † | 29·45 | ... |
| Girdleness | Bd. of Northern Lights | 7 | 4 | 0 | 185 | 22·69 | ... |

ABERDEEN.

| | | | | | | | |
|--------------------------------------|---------------------------|---|---|----|--------|-------|-----|
| d† Braemar (Geldie Cottage)...No.2 | W. Dyack, Esq., C.E... | 5 | 1 | 0 | 1425 | 36.25 | 189 |
| † „ (Canmore) | A. M. Shirran, Esq. ... | 8 | 0 | 9 | 1114 † | 31.72 | ... |
| d† „ (Derry Lodge)... No. 6 | W. Dyack, Esq., C.E... | 5 | 1 | 0 | 1400 | 40.42 | 217 |
| d† Balmoral Castle Gardens | Mr. J. M. Troup..... | 8 | 0 | 10 | 927 † | 26.16 | 166 |
| d† GlenGairn (Gairn Shiel Lo.) No14 | W. Dyack, Esq., C.E.. | 5 | 1 | 0 | 1100 | 32.47 | 210 |
| „ „ (LittleCullardoch)No11 | „ „ „ | 5 | 1 | 0 | 2000 | 39.90 | ... |
| † „ „ (CorndavonLodge)No13 | „ „ „ | 5 | 1 | 0 | 1500 | 37.66 | ... |
| d† Cromar (Logie Coldstone School).. | J. B. Anderson, Esq.... | 5 | 1 | 0 | 608 † | 28.44 | 204 |
| d† „ („ „ Loanhead) | Mr. A. Farquharson ... | 5 | 1 | 0 | 743 † | 30.52 | 211 |
| § „ (Tillypronie) | R. Littlejohn, Esq. ... | 5 | 1 | 0 | 1120 † | 32.72 | 223 |
| Upper Don (Delnadamph) No. 15 | W. Dyack, Esq., C.E... | 5 | 1 | 0 | 1850 | 37.30 | ... |
| d† Aberdeen (Cranford House) | D. McHardy, Esq. ... | 5 | 1 | 0 | 120 † | 30.56 | 194 |
| † „ (Duthie Park) | Scot. Meteorological Soc. | 5 | 1 | 0 | 44 | 27.45 | ... |
| § „ (King's College) | Meteorological Office... | 8 | 2 | 0 | 90 | 27.98 | 194 |
| Towie (Culquoich) | Col. J. Allardyce | 5 | 1 | 0 | 800 | 31.42 | ... |
| d† Strathdon Schoolhouse | J. B. Innes, Esq. | 5 | 1 | 0 | 980 † | 30.96 | 199 |
| d† „ (Estate Office) | C. Christie, Esq. | 5 | 1 | 2 | 990 † | 33.32 | 212 |

DIVISION XVII.—NORTH EASTERN COUNTIES—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with '01 or more recorded. |
|------------------------------------|--------------------------|-------------|----------------------|------------------------|------------------------|---------------------------------|
| | | Diameter | Height Above Ground. | Height Above Sea Level | | |
| | | in. | ft. in. | feet. | inches. | |
| ABERDEEN—(con.) | | | | | | |
| D Alford (Lynturk Manse) | Rev. J. B. Duncan..... | 5 | 1 0 | 600 T | 28·80 | 198 |
| Monymusk (The Manse) | Rev. Dr. Macpherson... | 5 | 1 0 | 280 T | 28·22 | ... |
| Dyce (Parkhill House) | Dr. J. E. Crombie | 5 | 0 11 | 200 T | 29·56 | 188 |
| § Ellon | T. F. Jamieson, Esq.... | 5 | 1 0 | 50 | 27·71 | ... |
| D § Fyvie Castle | Col. C. R. Burn | 5 | 0 6 | 200 ? | 30·47 | 160 |
| D Huntley | Alex. Smith, Esq. | 5 | 1 0 | 450 T | 32·86 | 154 |
| D „ (Cruchie) | John Joss, Esq. | 5 | 4 0 | 400 T | 29·11 | 189 |
| D New Deer Schoolhouse | H. Cowie, Esq. | 5 | 1 0 | 397 T | 27·03 | 171 |
| BANFF. | | | | | | |
| D Dufftown (Victoria Terrace) ... | Miss Walker | 5 | 2 0 | 579 T | 35·60 | 222 |
| „ (Dullan Brae) | Mr. R. Gibb | 9 | 1 0 | 400 | 28·71 | 171 |
| Aberlour | J. F. McGowan, Esq.... | 5 | 0 10 | 300 T | 26·76 | ... |
| D Craigellachie (Cragganspey)..... | J. Shearer, Esq. | 3 | 0 1 | 339 T | 30·11 | 161 |
| D Keith Station | Mr. John Lyon | 5 | 1 0 | 364 T | 34·64 | 195 |
| D Banff (Earl Hill) | late A. Ramsay, Esq.... | 5 | 1 0 | 115 T | 24·94 | 204 |
| Cullen House | Mr. A. Morton | 5 | 1 0 | 100 T | 25·25 | ... |
| ELGIN OR MORAY. | | | | | | |
| Grantown-on-Spey | Mr. W. Duncan..... | 5 | 1 1 | 712 T | 34·10 | 164 |
| Archiestown (Benview)..... | Mr. J. Milne | 5 | 1 0 | 750 T | 29·46 | 170 |
| Kinloss | J. Mackessack, Esq. ... | 5 | 1 3 | 23 T | 20·94 | ... |
| D § Gordon Castle..... | Mr. C. Webster..... | 8 | 1 0 | 107 T | 25·38 | 190 |
| Elgin (The Manse)..... | Rev. Dr. R. Macpherson | 6 | 1 3 | 38 T | 21·85 | ... |
| D Duffus House | Sir A. Dunbar, Bart.... | 5 | 1 0 | 55 T | 21·40 | 180 |
| NAIRN. | | | | | | |
| D Ardelach (Glenferness)..... | Mr. A. Mackenzie | 8 | 1 6 | 750 T | 33·62 | 163 |
| D Cawdor | J. Birnie, Esq. | 5 | 1 0 | 250 T | 23·54 | 136 |
| D „ Castle..... (R) | The Earl Cawdor | 8 | 4 3 | 225 | 24·66 | 157 |
| D Nairn (Achareidh)..... | H. A. Clarke, Esq..... | 8 | 1 0 | 59 T | 21·53 | 183 |
| § „ (Delnies) | Meteorological Office... | 8 | 1 9 | 84 | 22·98 | 224 |
| „ (Balnaferry) | Press-cutting | ... | ... | ... | 19·95? | ... |

DIVISION XVIII.—NORTH WESTERN COUNTIES.

WEST INVERNESS.

| | | | | | | |
|-------------------------------------|-----------------------------|-----|-----|--------|--------|-----|
| D North Ballachulish (Alltshellach) | B. Chinnery-Haldane Esq | 5 | 2 1 | 80 | 75·94 | 243 |
| Glenleven (Chiaron) | No. 3 Loch Leven Power Co.. | ... | ... | 1200 ? | 77·55 | ... |
| „ (Cam Bridge) | No. 5 „ „ „ | ... | ... | 1260 ? | 60·36 | ... |
| D Moidart (Kinlochmoidart)..... | J. C. Stewart, Esq..... | 5 | 1 3 | 13 | 74·59 | 231 |
| D § Fort William (Atholl Bank)..... | W. T. Kilgour, Esq.... | 5 | 1 0 | 171 T | 76·32 | 247 |
| D Loch Shiel (Glenfinnan) | Col. J. A. Macdonald... | 5 | 0 8 | 50 ? | 121·21 | 245 |
| D Eigg (Kildonan)..... | Mrs. Glendinning | 5 | 1 0 | 35 | 57·35 | 193 |

DIVISION XVIII.—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 | 1908 | |
| | | in. | ft. in. | feet. | inches. | |
| WEST INVERNESS—(con.) | | | | | | |
| Barra (Barrahead)..... | Bd. of Northern Lights | 7 | 3 0 | 683 | 31·27? | 167 |
| \$ „ (Castle Bay) | Meteorological Office... | ... | ... | 38 | 41·61 | 256 |
| Hyskier | Bd. of Northern Lights | 5 | 0 2 | 20 | 33·83 | 213 |
| Spean Bridge (Spean Lodge) .. | Miss W. Davy | ... | 1 0 | 204 | 58·49 | 245 |
| d Arisaig House | Mr. W. Grant | 5 | 1 0 | 30? | 63·93 | 236 |
| Loch Morar (Meoble Lodge)..... | E. M. Crosfield, Esq.... | 8 | 1 3 | 104 T | 95·31 | ... |
| Loch Lochy (Invergloy) | Major G. J. Bailey..... | 5 | 1 0 | 200 | 58·99 | 241 |
| \$ Loch Arkaig (Achnacarry) | Charles Mackenzie, Esq. | 5 | 1 0 | 110 | 76·31 | 243 |
| d\$ „ „ (Glen Dessary) | „ „ „ „ | 5 | 1 0 | 300 | 97·19 | 216 |
| d Loch Nevis (Inverie) | Mr. J. Huggins | 5 | 0 6 | 10 | 88·77 | 255 |
| d Glenelg Manse | Rev. A. Mactaggart ... | 5 | 1 0 | 85 T | 61·02 | 264 |
| Skye (Kyleakin) | Bd. of Northern Lights | 5 | 4 6 | 53 | 47·06 | 210 |
| d „ (Scalpay Island) | Mr. D. Gunn | 5 | 1 0 | 4 | 91·29 | 258 |
| \$ „ (Glendrynoch, L. Harport). | Rev. H. Harbord | 5 | 1 0 | 40 | 72·89 | ... |
| \$ „ (Lynedale) | Scot. Meteorological Soc. | ... | ... | 100 ? | 62·63 | ... |
| N. Uist (Monach) | Bd. of Northern Lights | 8 | 5 6 | 150 | 45·38 | 229 |
| d „ (Lochmaddy) | W.S. Hetherington, Esq. | 5 | 0 9 | 20 | 47·04 | 226 |
| Harris (Island Glass)..... | Bd. of Northern Lights | 7 | 4 2 | 130 | 45·73 | 189 |
| d „ (West Tarbert) | J. Fraser, Esq. | 5 | 1 6 | 33 L | 84·68 | 225 |
| EAST INVERNESS. | | | | | | |
| d Glenquoich | Mr. D. Grant | 8 | 1 2 | 569 T | 107·40 | 262 |
| Invergarry | Mrs. Ellice | 5 | 1 0 | 130 ? | 66·57 | ... |
| \$ Kingussie | Scot. Meteorological Soc. | 5 | 1 0 | 828 | 28·65 | ... |
| d\$ Fort Augustus (St. Benedict's)... | Rev. C. von Dieckhoff.. | 5 | 1 6 | 68 T | 43·93 | 201 |
| d Alvey Manse | Rev. J. Anderson | 5 | 1 0 | 760 | 28·84 | 190 |
| Loch Ness (Killin, Whitebridge). | British Aluminium Co. | 5 | 1 0 | 1200 | 38·84 | ... |
| d „ „ (Garthbeg)..... | „ „ „ | 5 | 1 0 | 645 T | 39·45 | 187 |
| „ „ (Foyers)..... | „ „ „ | 8 | 1 6 | 52 | 41·99 | ... |
| „ „ (Aberchalder) | „ „ „ | 5 | 1 0 | 700 T | 38·68 | ... |
| d „ „ (Drumnadrochit) | Mr. Angus Grant | 5 | 1 0 | 138 T | 36·68 | 226 |
| d\$ Inverness (High School) | W.G. MacConnachie Esq | 5 | 1 0 | 98 T | 25·24 | 164 |
| WEST ROSS & CROMARTY. | | | | | | |
| Applecross Gardens | Mr. D. McCowan | 5 | 1 0 | 70 T | 65·30 | ... |
| d\$ Glencarron | Mr. D. D. Munro | 5 | 1 0 | 504 T | 80·02 | 263 |
| d Loch Torridon (Bendamph) | The Earl of Lovelace... | 5 | 0 5 | 20 T | 93·35 | 251 |
| d\$ Kinlochewe..... | Mr. A. MacLennan ... | ... | ... | ... | 71·63 | 218 |
| Gairloch (The Manse) | Rev. D. Maclean | 5 | 1 0 | 40 B | 59·58 | ... |
| Loch Vraon..... | Lady Fowler | 8 | 0 7 | 750 | 69·20 | ... |
| Loch Drome | „ „ | 8 | 0 7 | 850 T | 73·87 | ... |
| Braemore House..... | „ „ | 8 | 0 7 | 750 | 60·24 | ... |
| d Poolewe (Inverewe Gardens) ... | Mr. R. B. Campbell ... | 5 | 0 6 | 20 | 60·38 | 238 |
| d Ullapool (Drumruinie) | G. Wotherspoon, Esq... | 5 | 2 6 | 400 | 67·29 | 219 |
| d „ (Inverpollly Lodge)..... | „ „ „ | 5 | 4 0 | 29 | 49·46 | 202 |

DIVISION XVIII.—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 | | 1908 |
| | | in. | ft. | in. | feet. | inches. | |
| W. ROSS & CROMARTY—(con.) | | | | | | | |
| §Stornoway | Meteorological Office ... | 8 | 1 | 0 | 52 | 52·60 | 285 |
| „ (Tiumpanhead) | Bd. of Northern Lights | ... | ... | ... | 170 | 59·63 | 158 |
| EAST ROSS & CROMARTY. | | | | | | | |
| Glenshiel (Cluanie Forest) | A. Cross, Esq..... | 5 | 0 | 9 | 800 † | 87·32 | ... |
| Achnashellach (Glenuaig) | W. M. Christy, Esq. ... | 5 | 1 | 0 | 1150 † | 123·70 | ... |
| Strathconan (Dalbreac)... .. | Mr. D. MacIver | 5 | 1 | 0 | 450 | 36·01 | ... |
| §Strathpeffer | Meteorological Office | ... | ... | ... | 210 | 27·50 | 223 |
| §Evanton (Novar Gardens)..... | Mr. A. Edmondstone ... | 5 | 0 | 6 | ... | 39·65 | 234 |
| Cromarty | Bd. of Northern Lights | 3 | 1 | 0 | 28 | 22·47 | 147 |
| Alness (Ardross Castle)..... | Mr. W. L. Minty | 5 | 1 | 0 | 450 † | 39·47 | 227 |
| Fearn (Lower Pitkerrie) | R. Gordon, Esq., C.E.. | 5 | 1 | 0 | 95 | 20·48 | ... |
| Tarbatness | Bd. of Northern Lights | 8 | 4 | 0 | 175 | 19·57 | 160 |

DIVISION XIX.—NORTHERN COUNTIES.

SUTHERLAND.

| | | | | | | | |
|-----------------------------------|-----------------------------|-----|-----|-----|-------|-------|-----|
| Altnaharra | Rev. G. Mackay | 5 | 1 | 0 | 300 † | 42·75 | 216 |
| Strath More (Altnacaillich) | Mr. Duncan Fraser ... | 5 | 1 | 0 | 60 † | 63·31 | 238 |
| Bettyhill | Mr. Evander Mackay ... | 5 | 1 | 0 | 100 | 31·89 | 201 |
| Melvich | Mr. A. MacIntosh | 5 | 1 | 0 | ... | 31·44 | 170 |
| Cape Wrath | Bd. of Northern Lights | 7 | 4 | 8 | 400 | 37·75 | 188 |
| CAITHNESS. | | | | | | | |
| §Berriedale (Langwell) | Mr. W. Macpherson ... | 6 | 1 | 0 | 150 † | 35·19 | ... |
| §Wick | Meteorological Office ... | 8 | 1 | 9 | 77 | 32·01 | 239 |
| „ (Nosshead) | Bd. of Northern Lights | ... | ... | ... | 175 | 25·49 | ... |
| Watten Station | Mr. J. Phimister | 5 | 2 | 6 | 75 † | 25·75 | 199 |
| Thurso (Buckies) | J. H. M. Davidson, Esq. ... | 5 | 0 | 11 | 240 ? | 31·66 | 221 |
| §Reay (Sandside) | Rev. D. Macaulay | 8 | 1 | 0 | 56 † | 32·23 | ... |
| Castletown (The Clett) | Capt. J. Calder | 5 | 1 | 0 | 73 † | 34·61 | 249 |
| Thurso (Holburn Head) | Bd. of Northern Lights | 3 | 0 | 8 | 75 ? | 32·25 | 236 |
| Dunnet Head | „ „ „ | 3 | 1 | 0 | 246 | 26·61 | ... |
| Stroma | „ „ „ | ... | ... | ... | 104 | 29·16 | ... |
| Pentland Skerries | „ „ „ | 7 | 3 | 9 | 170 | 20·36 | 154 |

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 | 1908 | |
| | | | ft. | in. | feet. | inches. | |
| ORKNEY. | | | | | | | |
| Hoy (Cantickhead) | Bd. of Northern Lights | 3 | 1 | 0 | 115 | 34·67 | 197 |
| „ { Graemsay Sound, East=High | „ „ „ | 5 | 0 | 4 | 115 | 39·02 | 213 |
| „ { „ „ West=Low | „ „ „ | 8 | 4 | 3 | 55 | 32·84 | 198 |
| § Pomona (Deerness) | Magnus Spence, Esq.... | 5 | 1 | 0 | 161 | 37·76 | 203 |
| § „ (Kirkwall) | Scot. Meteorological Soc. | 3 | 0 | 9 | 20 | 40·02 | ... |
| Hellyar Holm..... | Bd. of Northern Lights | 3 | 1 | 0 | 60 | 31·20 | 169 |
| Shapinsay (Balfour Castle) | Mr. W. Liddell | 5 | 0 | 6 | 50 | 28·34 | ... |
| Auskerry | Bd. of Northern Lights | 3 | 2 | 6 | 10 | 25·24 | ... |
| Sanday (Start Point)..... | „ „ „ | 3 | 1 | 0 | 80 | 29·76 | ... |
| Westray (Noup Head) | „ „ „ | 3 | 1 | 0 | 260 | 26·88 | ... |
| North Ronaldshay | „ „ „ | 3 | 0 | 4 | 140 | 31·50 | 182 |
| SHETLAND. | | | | | | | |
| Fair Isle, South | Bd. of Northern Lights | ... | ... | ... | 104 | 20·52 | ... |
| „ „ North | „ „ „ | ... | ... | ... | 262 | 26·12 | ... |
| § Sumburgh Head (Dunrossness).. | Meteorological Office... | 8 | 1 | 0 | 126 | 31·34 | 261 |
| Bressay | Bd. of Northern Lights | 3 | 1 | 0 | 105 | 28·45 | ... |
| § Lerwick | Capt. G. Alison | 5 | 1 | 0 | 30 | 30·68 | 212 |
| Sule Skerry | Bd. of Northern Lights | 3 | 0 | 6 | 113 | 30·38 | 212 |
| § Northmavine (Lochend) | Scot. Meteorological Soc. | 5 | 1 | 10 | 10 | 41·26 | ... |
| § Fetlar (The Manse) | Rev. J. A. Campbell ... | 5 | 1 | 0 | 30 1 | 34·45 | 272 |
| § Unst (Balta Sound, Halligarth).. | Dr. T. Edmondstone Saxby.. | 5 | 1 | 0 | 31 7 | 36·15 | 279 |

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IRELAND.

DIVISION XX.—MUNSTER.

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain. | Days with '01 or more recorded. |
|----------------------------------|------------------------------|-------------|----------------------|------------------------|----------------|---------------------------------|
| | | Diameter | Height above Ground. | Height above Sea Level | 1908 | |
| | | in. | ft. in. | feet. | inches. | |
| CORK. | | | | | | |
| Castletownshend (Glen Barrabane) | Sir E. B. Coghill, Bart. | 5 | 3 0 | 25 L | 43·79 | 179 |
| Skibbereen Rectory | Rev Canon H W Townsend | 5 | 1 6 | 35 A | 45·52 | 231 |
| Ballineen (Kilmeen Rectory) | Rev. W. A. Lamb | 5 | 1 6 | 370 T | 51·52 | 191 |
| Dunmanway (The Rectory) | Rev. A. Wilson | 5 | 4 6 | 205 T | 58·00 | 232 |
| Bandon (Ardnacarrig) | G. A. Armstrong, Esq. | 5 | 1 0 | 126 T | 39·62 | 196 |
| § Roches Point | Meteorological Office | 8 | 1 9 | 32 | 34·56 | 252 |
| Monkstown (Gordon Villas) | R. C. Sikes, Esq. | 5 | 1 0 | 50 A | 34·44 | 198 8 |
| § Middleton (Ballynacurra) | J. H. Bennett, Esq. | 8 | 1 0 | 24 L | 33·20 | 212 |
| Cork (University College) | Prof. Alexander | 8 | 1 0 | 65 A | 31·54 | 207 |
| „ (The Palace) | Rt. Rev. Bishop of Cork | 5 | 1 0 | 40 L | 31·91 | 191 |
| „ (Fernhurst Avenue) | W. Miller, Esq. | 5 | 1 0 | 50 B | 32·64 | 196 |
| Glanmire (Lota Lodge) | A. F. Sharman Crawford, Esq. | 5 | 3 0 | 200 | 36·48? | 214 |
| Mallow (Summer Hill) | J. F. Williamson, Esq. | 5 | 1 10 | 261 T | 33·72 | 203 |
| „ (Longueville) | R. E. Longfield, Esq. | 5 | 1 1 | 310 T | 35·20 | 223 |
| Mitchelstown Castle | W. D. Webber, Esq. | 8 | 3 0 | 340 A | 38·15 | 229 |
| KERRY. | | | | | | |
| † Darrynane Abbey | D. O'Connell, Esq. | 5 | 1 1 | 13 A | 49·11 | 258 |
| † Waterville (Iveragh Lodge) | R. J. Hughes, Esq. | 5 | 1 0 | 86 A | 32·88 | 240 |
| Kenmare (Derreen) | Mr. W. Holbrow | 5 | 1 0 | 74 L | 70·91 | 220 |
| „ (Dunkerron) | Miss Palmer | 5 | 1 6 | 70 | 63·58 | 233 |
| § Valencia (Glanleam) | Meteorological Office | 8 | 1 0 | 12 | 52·29 | 236 |
| † Cahirciveen | „ „ | 8 | 2 0 | 32 | 50·44 | 259 |
| † Lough Caragh (Lickeen) | „ „ | 5 | 1 0 | 60 | 73·34 | 245 |
| † Gap of Dunloe (Garrymeen) | Ven. Archdeacon Wynne | 8 | 3 0 | 75 | 86·50 | ... |
| † Killarney (District Asylum) | E. W. Griffin, Esq., M.D. | 5 | 0 10 | 178 T | 46·65 | 259 |

DIVISION XX.—MUNSTER—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain. | Days with .01 or more recorded. |
|--------------------------------------|-------------------------------|-------------|---------------------|-----|------------------------|---------------------------------|
| | | Diameter | Height Above Ground | | Height Above Sea Level |  | 1908 |
| | | in. | ft. | in. | feet. | inches. |
| WATERFORD. | | | | | | |
| d Knockaderry No. 1 | M.J.Fleming, Esq., C.E. | 5 | 7 | 7 | 247 T | 40·49 185 |
| d " No. 2 | " " " | 5 | 7 | 7 | 247 T | 40·88 185 |
| d Waterford (Whitfield Court) ... | Major H. Chavasse..... | 5 | 0 | 7 | 67 T | 41·01 199 |
| d " (Brook Lodge)..... | C. P. Bolton, Esq., C.E. | 5 | 1 | 0 | 104 T | 40·20 204 |
| d " (St. Andrew's Terrace) | E. A. White, Esq..... | 5 | 1 | 0 | 18 | 39·84 164 |
| § " Meteorological Office ... | " " " " " " " " | ... | ... | ... | 20 ? | 36·24 196 |
| d " (Tycor Waterworks). | M.J.Fleming, Esq. C.E. | 5 | 0 | 7 | 171 T | 38·21 163 |
| d Portlaw (Mayfield)..... | J. Anderson, Esq. | 5 | 4 | 0 | 70 | 42·51 219 |
| d " (The Gardens, Curraghmore) | Mr. D. Crombie | 5 | 1 | 0 | 95 | 47·93 174 |
| d Glenam [Clonmel] | Miss Grubb..... | 8 | 1 | 4 | 80 T | 38·30 223 |
| d Sheskin [Carrick-on-Suir] | J. Ernest Grubb, Esq... | 8 | 1 | 4 | 542 T | 42·12 210 |
| TIPPERARY. | | | | | | |
| d Clonmel (Bruce Villa) | J. H. Grubb, Esq..... | 5 | 1 | 3 | 110 T | 32·77 200 |
| d § Cahir (Bengurragh) | R. W. Smith, Esq., Jr. | 5 | 1 | 0 | 199 T | 38·56 270 |
| " " Abbey | Mrs. W. Rochfort | 5 | 0 | 6 | ... | 40·14 200 |
| d Ballina [Killaloe] | F. Dudley Fletcher, Esq. C.E. | 5 | 2 | 0 | ... | 44·99 207 |
| d Nenagh (Traverston) | Miss Norris..... | 5 | 1 | 0 | ... | 42·87 257 |
| " " (Kilboy) | The Lady Dunalley ... | 8 | 1 | 0 | 326 | 45·60 223 |
| d " (Castle Lough) | S.G.J. Parker-Hutchinson Esq | 5 | 1 | 3 | 120 T | 36·96 211 |
| d " (Highlands) | John Mounsey, Esq. ... | 5 | 1 | 2 | 470 T | 31·14 210 |
| d Roscrea (Timoney Park) | S.G.J. Parker-Hutchinson Esq | 5 | 1 | 0 | 475 T | 37·14 227 |
| d Ballingarry (Gurteen) | P. Bicknell, Esq. | 5 | 1 | 0 | 243 T | 35·58 239 |
| LIMERICK. | | | | | | |
| § Foynes | Meteorological Office... | 5 | 1 | 0 | 104 | 40·07 285 |
| Limerick (Roxborough)..... | Sir A. W. Shaw..... | 8 | 1 | 6 | 108 T | 34·50 205 |
| " (Derravoher) | " " " " " " " " | 5 | 1 | 0 | 40 T | 32·97 221 |
| " (George Street) | J. Horan, Esq. | 5 | 1 | 0 | 52 T | 34·58 222 |
| " (St. Michael's School).. | Ven Archdeacon Wynne | 8 | 2 | 0 | 100 ? | 34·70 ... |
| CLARE. | | | | | | |
| d Carrigaholt Castle..... | W. C. V. Burton, Esq. | 5 | 1 | 0 | 16 | 39·95 242 |
| d Killadysert (Paradise Hill) | F. B. Henn, Esq. | 5 | 0 | 11 | 125 T | 42·35 243 |
| d § Newmarket-on-Fergus (Carrigoran) | W. W. A. Fitzgerald Esq | 5 | 1 | 0 | 86 T | 41·40 226 |
| d " " (Fenloe).. | Maj. S. C. Hickman ... | 5 | 1 | 2 | 100 | 40·79 255 |
| d Broadford (Hurdlestown)..... | Colonel W. C. Bentley. | 5 | 1 | 0 | 167 T | 41·74 247 |
| d Miltown Malbay | M. Molohan, Esq. | 5 | 1 | 0 | 400 T | 44·78 259 |
| d Lahinch (Moy House) | Miss Bowes..... | 5 | 1 | 0 | 53 | 40·21 231 |
| d Ennistymon House | H. V. Macnamara, Esq. | 5 | 1 | 0 | 37 T | 49·58 239 |
| d " Rectory | Rev. C. W. McDowell.. | 5 | 1 | 0 | 132 | 48·99 231 |
| d Scarriff (Woodpark) | R. F. Hibbert, Esq. ... | 5 | 1 | 0 | 170 T | 40·84 245 |

2

DIVISION XXI.—LEINSTER.

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | | Depth of Rain. | Days with 0.1 or more recorded. |
|--------------------------------------|---------------------------|-------------|---------------------|-----|------------------------|----------------|---------------------------------|
| | | Diameter | Height Above Ground | | Height Above Sea Level | 1908 | |
| | | in. | ft. | in. | feet. | inches. | |
| WEXFORD. | | | | | | | |
| Foulks Mill (Longraigue)..... | W. J. Deane, Esq..... | 5 | 1 | 0 | 210 T | 35.97 | 224 |
| Wexford (Reclaimed Lands) ... | Mr. W. Thomas..... | 8 | 1 | 3 | —3 T | 31.31 | ... |
| D „ (Bann-aboo) | Col. J. R. Magrath ... | 8 | 4 | 0 | 9 | 37.91 | 179 |
| D Templeudigan (Ballindoney) ... | Janssen Budgen, Esq... | 5 | 1 | 0 | 434 B | 45.13 | 196 |
| D Enniscorthy (Ballyhyland) | Mrs. Moffat..... | 5 | 1 | 0 | 365 T | 43.74 | 243 |
| D „ (Monksgrange)..... | G. H. Orpen, Esq..... | 5 | 1 | 0 | 565 B | 54.12 | 218 |
| D „ (Summerville) | W. Waring, Esq. | 5 | 6 | 10 | 106 T | 36.82 | 191 |
| D Oulart (Wells) | C. M. Doyne, Esq..... | 5 | 1 | 0 | 207 T | 40.15 | 197 |
| D Enniscorthy (Woodbrook) | Rev. Canon Blacker ... | 5 | 1 | 0 | 400 T | 51.65 | 192 |
| D Gorey (Courtown House) | The Earl of Courtown.. | 5 | 3 | 0 | 80 T | 34.17 | 189 |
| KILKENNY. | | | | | | | |
| D Rockenham [Waterford] | A. E. Graves, Esq..... | 5 | 1 | 0 | 140 T | 36.56 | 189 |
| Inistioge (Woodstock) | E. K. B. Tighe, Esq.... | 6 | 1 | 0 | 400 T | 34.40 | 203 |
| „ „ „ „ „ M | „ „ „ „ „ | 8 | 0 | 8 | 919 T | 34.76 | ... |
| § Kilkenny Castle | Meteorological Office... | 8 | 1 | 0 | 208 | 33.52 | 217 |
| „ (Lavistown House) ... | Miss Butler..... | 5 | 2 | 5 | 170 | 32.39 | 183 |
| D Goresbridge (Barraghcore House) | H. de M. Fleming, Esq.. | 5 | 1 | 0 | 130 T | 33.81 | 225 |
| WICKLOW. | | | | | | | |
| D Shillelagh (Coollattin Gardens)... | Duncan Brough, Esq... | 5 | 0 | 7 | 400 | 43.75 | 192 |
| D Rathdrum (Avondale) | A. C. Forbes, Esq..... | 5 | 0 | 3 | 420 T | 40.74 | 182 |
| D Rathnew (Clonmannon) | Rev. W. H. A. Truell.. | 5 | 1 | 0 | 27 | 32.82 | 195 |
| D† Laragh (Glendalough) | Wyndham H Wynne Esq | 5 | 2 | 9 | 460 T | 59.28 | 226 |
| Roundwood (Vartry Lodge) | Spencer Harty, Esq., CE | 5 | 1 | 0 | 720 | 40.20 | ... |
| „ „ „ „ „ | „ „ „ „ „ | 5 | 1 | 6 | 800 T | 39.96 | ... |
| „ (Knockatemple)..... | „ „ „ „ „ | 5 | 1 | 6 | 760 T | 36.95 | ... |
| Newcastle (Killadreenan) | Dr. Launcelot T. Burra | 8 | 1 | 2 | 270 | 32.74 | ... |
| D Newton Mt. Kennedy (Seizenpark) | late Rev. Canon Drought | 5 | 1 | 0 | 350 T | 33.78 | 184 |
| Tithewere | Spencer Harty, Esq., CE | 5 | 1 | 6 | 1000 T | 35.28 | ... |
| Annacarter | „ „ „ „ „ | 5 | 1 | 6 | 750 T | 37.64 | ... |
| Greystones (Knockdolian)..... | RCathcart Dobbs Esq CE | 5 | 1 | 2 | 68 T | 28.66 | 158 |
| D „ (Clonsilla) | Dr. A. G. Price | 5 | 0 | 8 | 50 T | 31.30 | 183 |
| D† Bray (Fassaroe) | R. M. Barrington, Esq. 10 | 5 | 0 | 0 | 250 | 36.93 | 193 |
| „ (Pembroke Lodge) | Mrs. Scott | 5 | 2 | 0 | 155 T | 29.29 | 167 |
| CARLOW. | | | | | | | |
| D Bagnalstown (Fenagh House) ... | D. R. P. Beresford, Esq | 5 | 1 | 0 | 340 | 32.65 | 204 |
| „ „ „ „ „ M | „ „ „ „ „ | 5 | 1 | 0 | 340 | 31.19 | ... |
| D Tullow (Hardymount) | Capt. C. L. Connellan... | 5 | 1 | 3 | 300 T | 29.46 | 186 |
| Carlow (Browne's Hill)..... | Major Browne Clayton. | 5 | 1 | 0 | 291 T | 32.08 | ... |
| QUEEN'S COUNTY. | | | | | | | |
| Sunnyside [Carlow] | E. Shackleton, Esq. ... | 5 | 1 | 0 | 183 | 27.65 | 156 |
| D Abbey Leix (Blandsfort) | Mrs. J. L. Bland | 5 | 2 | 6 | 532 T | 36.51 | 229 |
| D Mountrath (Castletown) | Col. W. Dunne, C.B.... | 5 | 3 | 0 | 452 T | 37.10 | 224 |
| D „ (Ballyfin)..... | Mr. J. B. McLaren ... | 8 | 1 | 0 | 600 T | 45.15 | 221 |

DIVISION XXI.—LEINSTER—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain.
1908 | Days with .01 or more recorded. |
|-------------------------------------|----------------------------|-------------|---------------------|------------------------|------------------------|---------------------------------|
| | | Diameter | Height Above Ground | Height Above Sea Level | | |
| | | in. | ft. in. | feet. | inches. | |
| KING'S COUNTY. | | | | | | |
| 25 D Birr Castle No. 1 | Dr. O. Boeddicker | 8 | 1 0 | 183 | 33·28 | 232 |
| D Victoria Lock [Meelick] | F. Dudley Fletcher Esq. CE | 5 | 2 0 | 119 | 29·66 | 213 |
| Tullamore (St. Catherine's) | Rev. R. S. Craig | 5 | 1 0 | 201 T | 32·53 | ... |
| D Edenderry | Lewis H. Williams, Esq. | 5 | 5 6 | 200 | 34·05 | 229 |
| KILDARE. | | | | | | |
| D Castledermot | Very Rev. M. Walsh... | 5 | 2 8 | ... | 30·72 | 199 |
| D Monasterevan (Moore Abbey) ... | Mr. C. Pilgrim | 5 | 1 0 | 236 T | 32·54 | 216 |
| D Straffan House | Mr. F. Bedford | 5 | 2 0 | 240 T | 27·80 | 213 |
| D Clongowes Wood College | Rev. W. P. Hackett, S.J. | 8 | 1 0 | 238 T | 28·50 | 216 |
| Kilcock (Knockanally) | W. C. Coates, Esq. | 5 | 1 0 | 290 T | 32·44 | ... |
| DUBLIN. | | | | | | |
| D Glen-na-Smoel (Rathmines W.W.) | F. P. Dixon, Esq., C.E. | 5 | 1 0 | 514 T | 54·08 | 227 |
| Carrickmines (Claremont) | John Read, Esq. | 5 | 0 11 | 350 | 27·54 | ... |
| D Ballybrack (Streamville) | F. B. Falkiner, Esq. | 5 | 1 5 | 30 B | 26·91 | 199 |
| Killiney (Clonevin) | R. O'B. Furlong, Esq. CB | 5 | 1 0 | 250 T | 25·66 | 196 |
| D Foxrock (Hillside) | G. M. W. Hill, Esq. ... | 5 | 1 0 | 245 T | 29·52 | 210 |
| † Blackrock (Charleville) | Miss C. Pim | 5 | 1 0 | 260 ? | 25·54 | ... |
| D Dundrum (Manor Mill Lodge) ... | G. B. Edmondson, Esq. | 5 | 1 3 | 192 | 27·14 | 188 |
| „ (Lynton) | Dr. A. S. Goff | 5 | 1 0 | 200 ? | 28·85 | 215 |
| D Kingstown (Harbour Yard) | R. D. Gray, Esq., C.E. | 8 | 1 0 | 52 T | 24·02 | 157 |
| Rathmines (Terenure) | F. P. Dixon, Esq., C.E. | 5 | 0 6 | 125 T | 22·26 | 180 |
| 25 D „ (Leinster Road) | E. H. Cannon, Esq. ... | 5 | 0 11 | 110 | 24·00 | 198 |
| 24 D „ (Ormond Road) | W. R. Stephens, Esq. ... | 5 | 1 0 | 99 T | 24·40 | 198 |
| Donnybrook (Belmont Avenue) .. | Douglas Waring, Esq. ... | 5 | 0 9 | 100 ? | 24·10 | 171 |
| 24 D Dublin (Leeson Park) | Sir J. W. Moore, M.D. | 5 | 1 0 | 75 ? | 24·40 | 199 |
| D „ (Fitz William Square) ... | „ „ „ „ | 8 | 1 6 | 54 T | 23·75 | 197 |
| D „ (Trinity College) | Prof. W. E. Thrift „ | 8 | 1 0 | 13 T | 21·93 | 161 |
| D „ (Phoenix Park) | Ordnance Survey Office | 8 | 1 0 | 155 T | 24·40 | 221 |
| D Glasnevin (Roy. Botanic Gardens) | F. W. Moore, Esq. ... | 8 | 1 0 | 55 | 24·76 | 207 |
| D Howth (Balkill Reservoir) | D. E. Burtchaell, Esq., CE | 8 | 1 0 | 305 T | 27·98 | 194 |
| D Malahide (Seamount) | J. G. Jameson, Esq. ... | 5 | 1 0 | 150 T | 25·50 | 193 |
| „ (The Green) | T. Bateman, Esq. | 5 | 1 0 | 25 T | 24·57 | 189 |
| D Lambay Island | Hon. Cecil Baring | 5 | 1 6 | 20 | 21·15 | 161 |
| D Skerries (Milverton Hall) | E. H. Woods, Esq. | 5 | 1 0 | 190 T | 27·44 | 192 |
| D Balbriggan (Ardgillan) ... No. 1 | Capt. E. R. Taylor | 5 | 1 0 | 211 T | 28·43 | 201 |
| † „ („) ... No. 3 | „ „ „ „ | 5 | 1 0 | 211 T | 28·47 | ... |
| MEATH. | | | | | | |
| D Dunboyne (Stirling, Clonee) | Mr. J. Pilkington | 8 | 1 0 | 231 T | 26·16 | 189 |
| D Summerhill House | Lord Langford | 5 | 1 0 | 372 T | 34·42 | 222 |
| Athboy | C. P. Coghill, Esq. | 8 | 1 3 | 227 | 33·50 | 191 |
| D Navan (Durhamstown) | Miss M. Roberts | 5 | 0 8 | ... | 31·42 | 205 |

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 | 1908 | |
| | | | ft. | in. | feet | inches. | |
| MEATH—(con.) | | | | | | | |
| D Drogheda (Mullacroghan)..... | W. B. Hill, Esq. | 5 | 1 | 6 | 300 | 27·04 | 166 |
| D Kells (Headfort)..... | The Marquis of Headfort | 10 | 5 | 0 | 227 | 29·38 | 201 |
| D Moynalty (Westland) | W. A. Barnes, Esq. ... | 5 | 1 | 2 | 260 † | 35·82 | 217 |
| D Drumconrath (Aclare House) (R) | Admiral Singleton, C.B. | 10 | 2 | 6 | 170 † | 37·34 | 227 |
| WESTMEATH. | | | | | | | |
| D Athlone | F Dudley Fletcher Esq CE | 5 | 2 | 0 | 128 † | 30·22 | 192 |
| D „ (Twyford) | J. P. Hodson, Esq..... | 5 | 5 | 0 | 188 † | 31·05 | 229 |
| D Moate (Coolatore) | H. A. S. Upton, Esq... | 5 | 1 | 10 | 300 | 33·27 | 222 |
| D Mullingar (Belvedere) | Mr. J. Bayliss | 5 | 1 | 0 | 367 † | 32·44 | 184 |
| Rathowen (Cromlyn) | (R) Miss C. M. Battersby... | 8 | 1 | 6 | 250 | 32·56 | 219 |
| D Coole (Mayne Rectory) | Rev. R. Butler | 5 | 1 | 0 | 300 | 32·10 | 213 |
| LOUTH. | | | | | | | |
| D Ardee (Lissrenny) | T. F. Filgate, Esq..... | 8 | 0 | 10 | 75 † | 31·37 | 214 |
| D Dundalk (Farndreg) | Mrs. Barton | 5 | 1 | 6 | 90 † | 30·80 | ... |
| D „ (Mount Pleasant) | Telford Macneill, Esq CE | 5 | 1 | 0 | 60 † | 36·03 | 236 |
| D Greenore | T. Chambers, Esq., C.E. | 5 | 1 | 0 | 4 † | 32·95 | 204 |
| LONGFORD. | | | | | | | |
| D Ballymahon (New Castle)..... | Col. W. H. King-Harman | 4 | 2 | 5 | 250 † | 31·86 | 210 |
| D Cloondrah | F Dudley Fletcher Esq CE | 5 | 2 | 0 | 130 | 30·34 | 261 |
| Edgeworthstown (Currygrane Ho.) | J. M. Wilson, Esq. ... | 5 | 1 | 0 | 275 † | 41·41 | 193 |

DIVISION XXII.—CONNAUGHT.

| | | | | | | | |
|-----------------------------------|--------------------------|----|---|---|-------|--------|-----|
| GALWAY. | | | | | | | |
| D Galway (University College) ... | W. Hare, Esq. | 16 | 9 | 0 | 30 | 27·43? | 211 |
| D Ballinasloe | W. H. Kempster, Esq. | 5 | 2 | 6 | 160 † | 34·90 | 253 |
| D Woodlawn | Mr. J. Laurie | 5 | 3 | 6 | 300 † | 42·07 | 201 |
| Ahascragh (Clonbrock) | Lord Clonbrock, K.P... | 10 | 5 | 6 | 200 † | 36·84 | ... |
| Tuam (Castle Hacket) | P. B. Bernard, Esq. ... | 5 | 1 | 6 | ... | 36·52? | ... |
| „ (Gardenfield) | M H. Kirwan, Esq. | 5 | 1 | 0 | 155 † | 44·42 | ... |
| „ { „ } | „ „ „ | 5 | 6 | 0 | 160 † | 44·45 | 250 |
| „ { „ } | „ „ „ | 5 | 1 | 0 | 155 † | 44·45 | ... |
| „ („) | weekly g. „ „ „ | 5 | 1 | 0 | 155 † | 44·45 | ... |
| ROSCOMMON. | | | | | | | |
| D Strokestown (Castlenode) | W. J. Walpole, Esq.... | 5 | 2 | 0 | 150 † | 35·58 | 187 |
| D Albert Lock [Jamestown] | F Dudley Fletcher Esq CE | 5 | 2 | 0 | 146 † | 33·41 | 208 |

DIVISION XXII.—CONNAUGHT—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | | Depth of Rain. | Days with '01 or more recorded. |
|-------------------------------------|--------------------------|-------------|----------------------|-----|------------------------|----------------|---------------------------------|
| | | Diameter | Height Above Ground. | | Height Above Sea Level | 1908 | |
| | | in. | ft. | in. | feet. | inches. | |
| MAYO. | | | | | | | |
| d Cong (The Glebe) | Rev. Canon R. Y. Lynn | 5 | 1 | 11 | 112 ∇ | 52.42 | 260 |
| Ballinrobe (Cranmore) | Miss Knox | 5 | 0 | 9 | 99 | 50.65 | ... |
| d Westport (St. Helen's) | Miss Kelly | 6 | 0 | 11 | 35 ∇ | 49.64 | 260 |
| § " (Mallaranny) | Meteorological Office... | 5 | 1 | 0 | 120 | 57.00 | 167 |
| d Newport (Burrishoole House) ... | H.M. Anketell Jones Esq | 5 | 3 | 0 | 30 | 51.55 | 236 |
| d Dugort (Slievemore Hotel) | Mrs. J. R. Sheridan ... | 5 | 1 | 0 | 50 ? | 74.18 | 262 |
| Doo Castle [Tobercurry] | Mr. D. O'Dowd | 5 | 4 | 0 | ... | 42.71 | 224 |
| § Blacksod Point | Meteorological Office... | 8 | 0 | 10 | 37 | 57.28 | 265 |
| d Crossmolina (Enniscoe)..... | J. Pratt, Esq..... | 5 | 0 | 11 | 74 ∇ | 54.08 | 246 |
| SLIGO. | | | | | | | |
| Ballymote (New Park) | R. A. Duke, Esq. | 5 | 1 | 6 | 228 ∇ | 42.40 | ... |
| d § Collooney (Markree Observatory) | J. R. Armstrong, Esq.. | 5 | 1 | 0 | 127 ∇ | 47.26 | 243 |
| § " (" " ") | " " " | 5 | 16 | 6 | 143 ∇ | 39.18 | 236 |
| LEITRIM. | | | | | | | |
| d Ruskey | F Dudley Fletcher Esq CE | 5 | 2 | 0 | 139 ∇ | 31.96 | 242 |
| d Mohill (Drumkilla) | Rev. H. Justice | 5 | 1 | 0 | 300 ∇ | 38.94 | 229 |
| § Carrigallen | Meteorological Office... | ... | ... | ... | 350 ? | 44.30 | ... |
| Drumshanbo (Lough Allen Sluices) | F Dudley Fletcher Esq CE | 5 | 2 | 0 | 169 ∇ | 40.18 | ... |

DIVISION XXIII.—ULSTER.

| CAVAN. | | | | | | | | |
|------------|----------------------------------|--------------------------|---|---|---|-------|--------|-----|
| | Stradone House | Mr. J. Hart | 5 | 1 | 0 | 280 T | 34.73 | ... |
| D | Killeshandra (Castle Hamilton).. | Major W. J. Hamilton. | 5 | 1 | 0 | 251 T | 28.58? | 181 |
| D | „ (Drom Mullac) ... | Miss Prudence M. Lough | 5 | 2 | 0 | 280 T | 39.35 | 247 |
| D | Belturbet (Cloverhill) | Mrs. Sanderson | 5 | 1 | 0 | 202 T | 34.98 | 221 |
| D | Ballyconnell House | Surg.-Gen. S. B. Roe, CB | 8 | 1 | 2 | 196 T | 42.82 | 225 |
| FERMANAGH. | | | | | | | | |
| D | Newtownbutler (Crom Castle) ... | Mr. A. Reid | 5 | 0 | 9 | 174 T | 40.60 | 199 |
| | Enniskillen (Portora) | W. N. Tetley, Esq. ... | 5 | 1 | 0 | 251 T | 37.09 | ... |
| | Belleek | J. Beacom, Esq. | 5 | 1 | 5 | 150 B | 42.06 | 237 |
| MONAGHAN. | | | | | | | | |
| D | Dartrey [Cootehill] | The Earl of Dartrey ... | 5 | 2 | 6 | 265 | 34.87 | 197 |
| D | Monaghan (Rowantree House)... | Dr. J. Campbell Hall... | 5 | 5 | 6 | 240 | 26.29 | 182 |

DIVISION XXIII.—ULSTER—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | | Depth of Rain. | Days with '01 or more recorded. |
|-------------------------------------|-----------------------------|-------------|----------------------|-----|------------------------|----------------|---------------------------------|
| | | Diameter | Height Above Ground. | | Height Above Sea Level | 1908 | |
| | | in. | ft. | in. | feet. | inches. | |
| ARMAGH. | | | | | | | |
| ▮ Bridge Street [Newry] | J. L. D. Meares, Esq. C. E. | 5 | 0 | 9 | 22 ⅞ | 41·49 | 202 |
| ▮ Tanderagee..... | Dr. J. Taylor | 5 | 1 | 6 | 198 ⅞ | 38·72 | 216 |
| ".....(R) " " " | " " " | 5 | 1 | 6 | 198 ⅞ | 38·69 | ... |
| ▮ Armagh Observatory..... | Dr. J. L. E. Dreyer ... | 8 | 1 | 0 | 210 ⅞ | 33·04 | 217 |
| ▮ Loughgall (Manor House) | Mrs. Cope | 5 | 1 | 0 | 210 ⅞ | 30·61 | 193 |
| ▮ Lurgan (Belle Vue) | S. A. Bell, Esq..... | 5 | 0 | 5 | 200 ⅞ | 29·22 | 199 |
| DOWN. | | | | | | | |
| ▮ Warrenpoint (The Manor House) | Lt.-Col. A. W. Mansergh | 8 | 1 | 4 | 40 ⅞ | 38·92 | 206 |
| ▮ Mourne Mountains (Fofanny Res.) | J. H. H. Swiney, Esq. C. E. | 5 | 1 | 0 | 938 | 74·52 | 237 |
| ▮ Newcastle (Tullymore Park) ... | Col. Hon. R. J. Jocelyn | 5 | 1 | 0 | 276 ⅞ | 58·38 | 203 |
| ▮ Rathfryland (Ballynagappoge)... | J. Smyth, Esq., C. E.... | 5 | 1 | 0 | 300 | 31·35 | 183 |
| ▮ Castlewellan (Lough Island Res.) | " " " | 5 | 1 | 0 | 440 ⅞ | 46·14 | 219 |
| Banbridge (Katesbridge) | A. A. Mulligan, Esq... .. | 5 | 1 | 0 | 230 ⅞ | 29·89 | 180 |
| ▮ Seaforde | Major W. G. Forde ... | 8 | 0 | 5 | 180 ⅞ | 44·20 | 213 |
| ▮ Banbridge (Corbet Reservoir) ... | J. Smyth, Esq., C. E.... | 5 | 1 | 0 | 234 | 29·38 | 173 |
| ▮ " (Milltown) | " " " " " | 8 | 0 | 8 | 200 ⅞ | 30·58 | 218 |
| ▮ Moyallon House [Portadown] ... | Miss M. K. Richardson. | 5 | 0 | 5 | 130 ⅞ | 34·89 | 208 |
| § Donaghadee | Meteorological Office... | 8 | 1 | 6 | 40 | 32·07 | 217 |
| ANTRIM. | | | | | | | |
| Stonyford (Belfast W. W.) | FW McCullough Esq. CE | 5 | 1 | 6 | 437 ⅞ | 36·14 | 221 |
| ▮† Belfast (Queen's University) ... | Mr. G. Robinson | 5 | 1 | 0 | 62 ⅞ | 38·75 | 234 |
| ▮† " (Springfield) | T. G. Firth, Esq. | 5 | 1 | 0 | 150 ⅞ | 43·61 | 237 |
| " (Oldpark Filters)..... | F. W. McCullough Esq. CE | 5 | 3 | 6 | 203 ⅞ | 38·57 | 218 |
| Carrickfergus (Dorisland)..... | " " " | 5 | 1 | 0 | 250 ⅞ | 37·31 | 216 |
| " (South Woodburn) | " " " | 5 | 1 | 0 | 640 ⅞ | 45·05 | 250 |
| " (North ") | " " " | 5 | 1 | 0 | 735 ⅞ | 45·15 | 253 |
| " (Copeland) | " " " | 5 | 1 | 0 | 424 ⅞ | 40·77 | 250 |
| " (Lough Mourne)... | " " " | 5 | 1 | 0 | 596 ⅞ | 40·41 | 248 |
| ▮ Ballymena (Harryville) | J. R. Williams, Esq.... | 5 | 1 | 5 | 150 ⅞ | 43·51 | 252 |
| ▮ Broughshane (Quolie) | H. O'Hara, Esq., C. E.. | 5 | 1 | 4 | 893 | 44·80 | 252 |
| § Glenarm Castle | Meteorological Office... | 8 | 0 | 9 | 45 | 44·81 | 204 |
| Ballymoney (Balnamore) | George Smyth, Esq. ... | 5 | 1 | 5 | 50 ⅞ | 32·84 | 240 |
| Stranocum (Gardenvale) | A. McNeill, Esq. | 5 | 1 | 0 | 160 | 38·39 | 244 |
| ▮ Bushmills (Dundarave)..... | Sir F. E. Macnaghten, Bt | 5 | 1 | 0 | 162 ⅞ | 37·10 | 210 |
| LONDONDERRY. | | | | | | | |
| ▮ Garvagh (Moneydig)..... | H. R. Morrison, Esq... .. | 5 | 1 | 0 | 121 ⅞ | 37·08 | 216 |
| ▮ Londonderry (Creggan Res.)..... | Mr. J. Hutchison | 8 | 1 | 0 | 320 ⅞ | 44·21 | 268 |
| " (Dunruadh) | J. H. Welch, Esq..... | 5 | 0 | 6 | 130 ⅞ | 42·86 | 234 |
| Limavady (Drenagh) | M. M. McCausland, Esq. | 5 | 1 | 6 | 80 ⅞ | 36·10 | 241 |
| ▮ " (Culmore House)..... | J. B. Martin, Esq..... | 8 | 4 | 9 | 15 ⅞ | 31·32 | 228 |
| ▮ Bellarena..... | Dowager Lady Heygate | 5 | 1 | 3 | 7 | 38·00 | 229 |

DIVISION XXIII.—ULSTER—(continued).

| STATIONS. | AUTHORITIES. | Rain Gauge. | | | Depth of Rain. | Days with -01 or more recorded. |
|-----------------------------------|--------------------------|-------------|----------------------|-----------------------|----------------|---------------------------------|
| | | Diameter | Height Above Ground. | Height Above SeaLevel | 1908 | |
| | | in. | ft. in. | feet. | inches. | |
| TYRONE. | | | | | | |
| D Cookstown (Lissan) | J. H. Staples, Esq..... | 5 | 0 10 | 300 | 41·43 | 237 |
| D Newtown Stewart (Barons Court) | R. Bell, Esq. | 5 | 1 0 | 250 † | 46·20 | 258 |
| Sion Mills (Sion House) | Miss G. I. Herdman ... | 5 | 1 6 | 100 † | 39·69 | ... |
| DONEGAL. | | | | | | |
| D Killybegs (White House) | A. Brooke, Esq..... | 5 | 1 5 | 30 | 65·17 | 245 |
| § „ (Faiafannan) | J. C. Ward, Esq. | 5 | 1 6 | 221 † | 77·01 | 230 |
| D Convoy | Rev. Preb. Thompson.. | 5 | 0 9 | 150 † | 49·51 | 241 |
| D Letterkenny (District Asylum).. | E. E. Moore, Esq., M.D. | 5 | 1 0 | 183 † | 47·10 | 249 |
| D Gweedore Hotel | A. Robertson, Esq..... | 5 | 0 9 | 250 | 59·41 | 232 |
| D Mulroy Gardens | Mr. Jas. Smith | 5 | 0 8 | ... | 49·30 | 193 |
| D Buncrana (Rockfort)..... | T. Colquhoun, Esq. ... | 5 | 1 0 | 55 † | 41·40 | 233 |
| Ardnadrean Rectory..... | Rev. W. S. Griffith ... | 5 | 1 1 | 24 † | 50·32 | ... |
| D Dunfanaghy (St. Helen's)..... | J. J. MacGrath, Esq.... | 8 | 1 0 | 55 † | 46·32 | 250 |
| D Fanad (Tamney Rectory) | Rev. A.C. Digby French | 5 | 4 0 | 115 † | 46·75 | 246 |
| D Dunfanaghy (Horn Head) | C. F. Stewart. Esq. ... | 5 | 1 0 | 163 | 46·20 | 257 |
| D Lough Swilly (Carrablagh) | Rev. A.C. Digby French | 5 | 1 0 | 130 | 53·41 | 268 |
| § Malin Head | Meteorological Office... | 8 | 1 0 | 220 | 33·90 | 251 |

62, CAMDEN SQUARE,
LONDON, N.W.

H. R. M.

MAP SHOWING THE DIVISIONS USED IN THE FOREGOING TABLE.



For explanation see p. [194].

SOME IMPORTANT RULES

From "The British Rainfall Organization. Rules for Rainfall Observers," which may be obtained gratis and post free on application to Dr. H. R. Mill, 62, Camden Square, London, N.W.

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 the 15th is the amount measured at 9 on the morning of the 16th.

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.

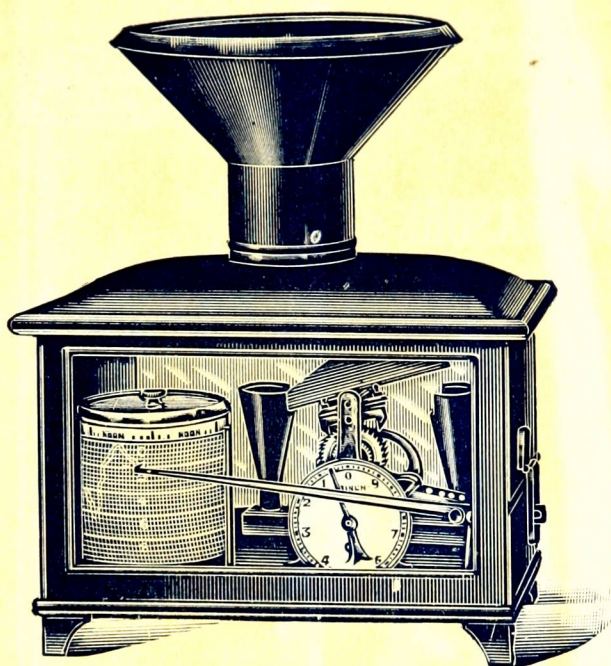
12. Mode of Entry.—The result is always to be entered in hundredths of an inch, remembering that a tenth of an inch equals 10 hundredths and an inch 100 hundredths. The word "hundredths" is not to be written, but a decimal point is to be put before the last figure but one, thus, $\cdot 10$, $1\cdot 00$. If there is only one figure a cypher must be placed before it, thus 2 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. Whenever a considerable fall of snow occurs an attempt should 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 though useful is a rough one at best.

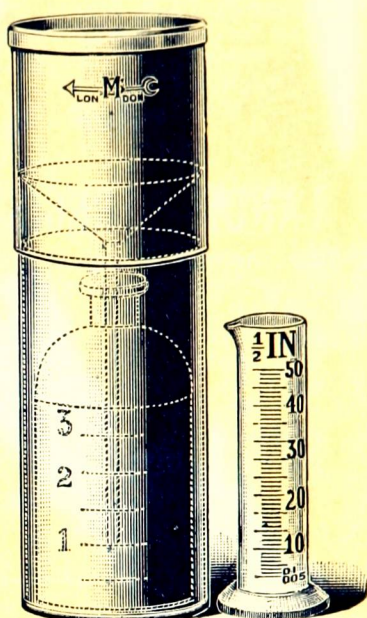
TRADE



MARK.



RECORDING RAIN GAUGE.

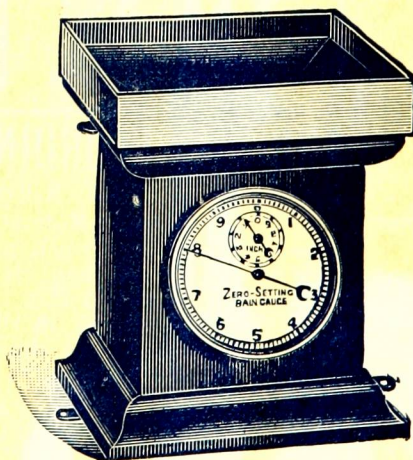


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