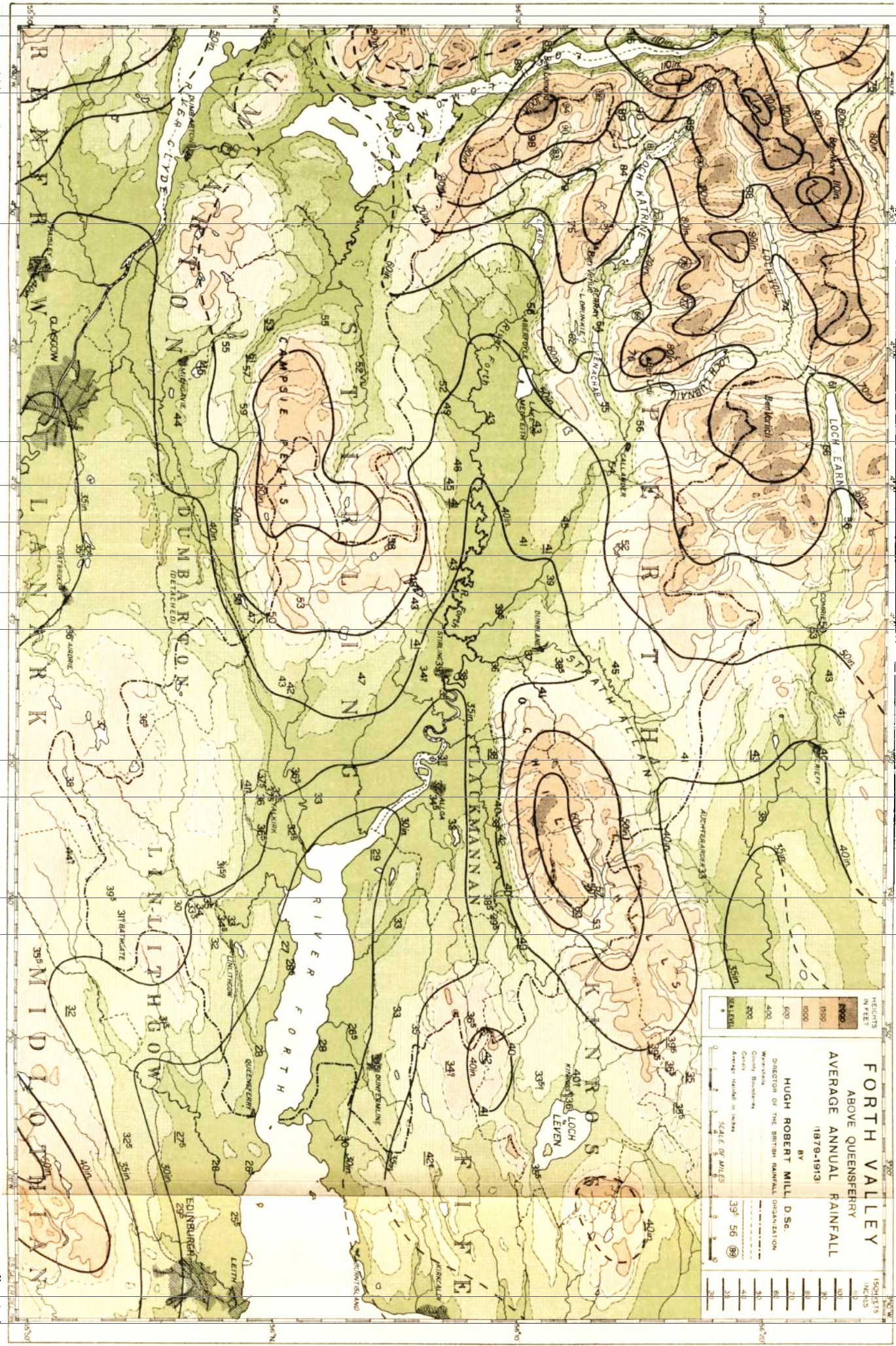


BRITISH RAINFALL,
1915.



MAP OF AVERAGE RAINFALL OF FORTH VALLEY.



BRITISH RAINFALL, 1915.

ON THE DISTRIBUTION OF RAIN

IN SPACE AND TIME OVER

THE BRITISH ISLES

DURING THE YEAR

1915

AS RECORDED BY ABOUT 5,500 OBSERVERS

IN GREAT BRITAIN AND IRELAND

AND DISCUSSED

WITH ARTICLES UPON VARIOUS BRANCHES OF RAINFALL WORK

BY

HUGH ROBERT MILL

DIRECTOR

AND

CARLE SALTER

ASSISTANT DIRECTOR

OF THE BRITISH RAINFALL ORGANIZATION

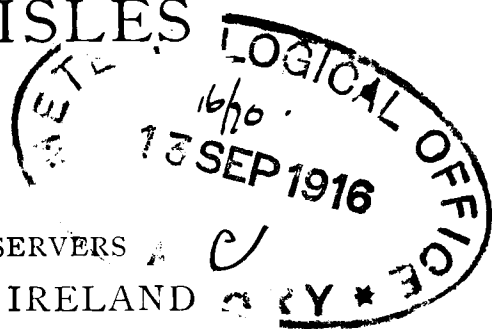
THE FIFTY-FIFTH ANNUAL VOLUME

WITH MAPS AND ILLUSTRATIONS

LONDON

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

1916.



ERRATUM IN BRITISH RAINFALL, 1880.

p. [174], Cumberland, line 11, Taylor's Gill *for* 134·40 *read* 144·40.

ERRATUM IN BRITISH RAINFALL, 1896.

p. [191], line 12 of tables, Seathwaite *for* 123·72 *read* 123·13.

ERRATA IN BRITISH RAINFALL, 1908-1914.

Derbyshire, 6. Bamford, No. 60, *and* Bamford (Engineer's Office) No. 36, *transpose* the names.

ERRATA IN BRITISH RAINFALL, 1911.

- p. 44, line 12 from bottom. Perth, 3, *for* 276 *read* 221.
p. 45. „ 9 „ top. Perth, 12, *for* 186 *read* 241.
p. 55, „ 7 „ bottom. Perth, 3, *for* 276 *read* 221.
p. 57, „ 3 „ top. Perth, 12, *for* 186 *read* 241.

ERRATA IN BRITISH RAINFALL, 1914.

- p. 63, Percolation and Calculated Evaporation at Timsbury. *Delete* records for November, December and total for year.
p. [9], June, line 1, *for* 4 to 10.20 p.m. *read* 4.10-4.20 p.m.
p. [98], line 2 of table. *Delete* entry for Halifax, Dean Clough Mills.
p. [221], last line of Middlesex, 1, *for* „ „ (Mount Grace) *read* Potter's Bar (Mount Grace).
p. [248], Cornwall, 2, line 4, *for* 46·88 *read* 46·67.
p. [290], Yorks., N.R., 2, line 6 from end, *for* Harsley *read* Harlsey.
p. [296], Cumberland, 2, line 19, *for* „ (Derwent Island), *read* Keswick (Derwent Island).
p. [331], * Perth 3, FORTH—Teith, area, *for* 276 sq. mi. *read* 221 sq. mi.
p. [332], * Perth, 12, TAY—Loch Tay, area, *for* 186 sq. mi., *read* 241 sq. mi.
p. [335], Aberdeen, 3, Haddo House, *for* 27·64 *read* 27·44.
p. [355], Down, 7, line 2, Rathfryland (Ballynagappoge) *for* 32·86 *read* 31·86.

*These corrections should be made in each volume back to 1911 inclusive.

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PREFACE.

THE stress of the second year of the War has made itself felt in all stages of the production of this volume, in the observations, the checking and discussion of the data, the drawing of maps, the reproduction of drawings, the printing, the supply of paper and in the binding of the volume, and most of all in increased expense and diminished income. Much of the work has been done in every department by less skilful substitutes for the old workers who have gone to the front ; but although the keen-eyed critic cannot fail to detect defects in this issue, I trust that these are neither numerous nor serious, and it is a satisfaction that the volume has been compiled and completed as early as in many years of peace.

My responsibility for this volume extends only to the letterpress. For the whole of the statistical matter in Parts I. and II. and for Part III. in its entirety the credit rests with Mr. Carle Salter, the Assistant Director, whose unflagging energy has surmounted all difficulties.

Mr. H. E. Carter, the Chief Computer, now a corporal in the Royal Engineers, has been absent on military duty during the whole period of the compilation of this volume, and Mr. D. S. Salter, the Cartographer, now also in the Royal Engineers, had only time to complete the frontispiece and the plotting of the maps of monthly rainfall before he left to begin his military training. The remaining maps are the work of the Assistant Draftsman.

I owe very hearty thanks to Mr. R. C. Mossman for invaluable assistance in the computations, and for help in reading the proofs of the volume with Mr. Carle Salter.

The necessary reduction of the bulk of the volume has been effected without sacrificing any of the data or restricting the discussion of the rainfall of the year in all its aspects.

A full account of the work of the Organization will be found in the Director's Report to the Trustees on pp. 9-16. Attention is directed to the article and map on the Rainfall of the Forth Valley in Part I. which describes the method of preparing maps of average annual rainfall.

H.R.M.

62, CAMDEN SQUARE,
LONDON, N.W.
14th August, 1916.

Nothing that is can pause or stay ;
The moon will wax, the moon will wane,
The mist and cloud will turn to rain,
The rain to mist and cloud again,
To-morrow be to-day.

H. W. Longfellow.

SIXTH ANNUAL REPORT OF THE DIRECTOR TO THE TRUSTEES OF THE BRITISH RAINFALL ORGANIZATION.

Adopted at the Meeting of Trustees held at 62, Camden Square, London,
on August 10th, 1916.

The Late Mr. R. M. Barrington.—I have to record, with much regret, the death of Mr. R. M. Barrington, one of the Trustees, which occurred very suddenly on September 15th, 1915. Mr. Barrington was a distinguished naturalist and an enthusiastic promoter of the study of the natural conditions of Ireland, especially its fauna and flora. At his beautiful estate of Fassaroe, near Bray, Co. Wicklow, he kept up the old rainfall record established by his father in 1850, and, for nearly forty years, he was a constant supporter of the British Rainfall Organization. Although prevented by distance from taking a personal part in the meetings of Trustees, he was always ready with helpful advice, and assisted actively in improving the distribution of rain gauges in Ireland. A detailed account of his work was given in *Symons's Meteorological Magazine* for December, 1915, (vol. 50, pp. 169—170).

The introduction of "Summer Time."—The sudden decision of Parliament to advance the clock by one hour from May 21st for all purposes except those of astronomy, navigation, and meteorology, left no time to advise Observers as to how they should act. The preparation of a circular and addressing and posting it to the 5,000 Observers would have absorbed a full week's time of the whole staff, and involved an expense of about £20, and it seemed to me that I was not justified in causing this delay in the publication of the annual volume, or incurring the unforeseen expense. I, therefore, endeavoured to reach as large a number of Observers as possible by letters to the daily press which were largely copied in provincial papers, and, of course, all enquiries on the subject were promptly answered. The exemption of meteorology from the Act did not in any way affect the case of the voluntary rainfall Observer, whose

day is necessarily regulated by the official time of the country. How far the advice to observe the rain gauge consistently at 9 a.m. Greenwich or Dublin time (*i.e.*, 10 a.m. Summer Time), has been followed we shall probably never know. Serious error is only possible on the days when the clock is changed, but uncertainty as to which time was followed by the Observers will we fear, affect a very large number of the returns which we shall have to deal with next year.

The War and the Routine Work.—The effect of the war on the work of the Observers is remarkably slight. Some records have, of course, come to an end, and more have been interrupted, but, in the great majority of the cases in which an Observer has gone to the front, he has been able to arrange for a substitute to carry on the observations. The effect on the funds is, on the whole, more serious, but this has to a great extent been counteracted by reducing expenses and by the generosity of an old Observer, who desires to remain anonymous. Serious difficulties have been produced by the depletion of the staff. As stated in my last report Mr. H. E. Carter, the Chief Computer, joined the Army in July, 1915. He served in the trenches during the winter months, but was transferred to the Royal Engineers, received the rank of corporal, and is now employed in the Meteorological Section at General Headquarters in France. In March, 1916, Mr. D. S. Salter, the Cartographer, joined the Royal Engineers, and has been sent to the Ordnance Survey Office. The two junior assistants who were taking the places of Messrs. Carter and Salter, attested under the Derby Scheme. Of these, J. Glasspoole, assistant computer, was granted exemption until October, to enable him to take his examination in the London University for the degree of B.Sc. As it is impossible to carry on the work of the Organization properly without a trained map-draftsman, and as at least a year's training is necessary to familiarize a new assistant with the position of the stations and the methods of plotting, I appealed for the exemption of L. G. McCutcheon, on the ground that his work is of greater utility to the country in his present situation than it would be in the Army. This claim was rejected, the Chairman of the County of London Appeal Tribunal saying that he accepted full responsibility for the decision. The youth being medically unfit for general service has only been passed for sedentary home service. The Army pay of the assistants who have enlisted has been supplemented to the amount of

their former salaries. It has been necessary to rearrange the duties of all members of the staff, and an immense amount of extra work has been thrown upon Mr. Carle Salter, the Assistant-Director, who has succeeded in spite of all difficulties in keeping the routine work of the office from falling into arrears.

F. Wuyts, a young Belgian, who has had the advantage of a year at Mill Hill School, was engaged as a junior clerk in January, 1916. We have been fortunate in securing the temporary help of Mr. R. C. Mossman, who has taken a considerable share in the compilation of the annual volume and the Magazine.

In the circumstances I have not felt justified in introducing any changes except by way of retrenchment.

Special thanks are due to Mr. L. J. Nicholson who generously undertook a considerable amount of the heavy and uninteresting work of checking the daily returns of rainfall received in the early part of the year.

Observers and Special Services.—I have to record, with much regret, the death of Colonel Michael Foster Ward, one of the very small group of original Observers, whose records appeared in the first volume of *British Rainfall*, and an enthusiastic pioneer in the early days before the standard pattern of rain gauge had been evolved. The list of original Observers now includes six names :—

R. BURRELL, Esq.

W. S. CLARK, Esq.

DR. W. C. LAKE.

REV. C. B. MOUNT.

LORD PECKOVER OF WISBECH.

J. G. WOOD, Esq.

We have not heard recently from the Rev. C. B. Mount, and should welcome information regarding him.

Much help was received in the collection or supervision of rainfall observations in special areas from a number of friends, the details of whose services I must reluctantly omit because of the imperative necessity of saving space, so that the reduction of the number of pages made necessary in this volume should not involve the suppression of any of the data we have received. It is a great satisfaction to be able to say that none of the public institutions, local societies, county councils, corporations, or water authorities in the habit of sending groups of observations has failed to do so this year.

Inspection of Rain Gauges.—Few opportunities have presented

themselves during the year for continuing the systematic inspection of observing stations, but, whenever it was possible to find time for this work it was done. I have myself been able to visit 30 rain gauges, 5 in Devon, 1 in Monmouth, 15 in Brecon, 2 in Yorkshire, 1 in Northumberland, 1 in Morayshire and 5 in Inverness-shire. Mr. Carle Salter has inspected 23 stations, 5 in Sussex, 2 in Middlesex, 13 in Dorset, and 3 in Yorkshire. Mr. D. S. Salter inspected 15 rain gauges, 1 in Gloucestershire, 5 in Shropshire, 5 in Worcestershire, 3 in Warwickshire, and 1 in Hertfordshire. The whole number inspected during the year was thus 68. Inspection is one of the duties which must of necessity be subordinated to others of a more pressing nature in a time of special strain and reduced resources like the present.

The Publications.—The increased cost of printing and the reduced supply and enhanced price of paper have made it necessary to reduce the size of the publications. With regard to *British Rainfall* it is impossible to curtail those sections which deal with all the data of the kind available, such as the General Table of Annual Rainfall, the records of duration of rainfall and the like. A good many pages were saved in the General Table, despite the fact that there is no appreciable reduction in the number of records, by the expedient of omitting the maps showing the river-divisions. The letterpress in all the articles has been kept as short as is compatible with clear statement, but very few pages could be saved in this way. In order to reduce Part II. it was found necessary to sacrifice the Remarks of Observers on the Weather of the Days and of the Year. For several years the preparation of these remarks for the press was the special duty of Mr. H. E. Carter, and in his absence it would in any case have been difficult to deal with them in the usual way without causing great delay in the general work of the office. I am well aware that to some readers these remarks were the most interesting part of the annual volume; but in a crisis like the present, where sacrifice is necessary, it seemed best to lose what was of present interest rather than anything of greater scientific value; and so an economy of about 50 pages was effected. Part I. has been kept down in every possible way, the section on Losses and Gains being reduced to a mere skeleton of essential figures, and the Obituary notices brought down to a minimum. A slight rearrangement has also been made by transferring the section on Evaporation and Percolation from Part I. to Part II., to which it belongs more naturally. A further change has been

made in the treatment of heavy rains on rainfall days, carrying out the gradual development of the study of wet days, which has been going on for several years, and preparing the way for a still fuller and more effective discussion of this most interesting subject when space, assistance, and funds are once more available in adequate measure.

Symons's Meteorological Magazine has been kept down to its earlier size of 16 pages per month. The stoppage of international balloon observations by the war has brought to an end the useful summaries of upper air investigation communicated for several years by Mr. W. H. Dines. On the other hand the war has caused the Jesuit missionaries in China to forward their observations at Lu-kia-pang and Notre Dame des Pins for publication in the Magazine instead of sending them to the *Meteorologische Zeitschrift* as before.

Annual Maps.—The great work of plotting all the annual totals of rainfall on maps for each of the 50 years, 1865-1914, and the drawing and revision of the isohyetal lines on all the maps has now been completed. This marks the close of the first stage of the comprehensive utilization of the records. The second and more laborious stage consists in combining all the maps so as to yield a 50 years' average map with which the individual maps may be compared. The method adopted for this purpose was to rule up the maps in small squares, numbered in rows and columns, and to mark in pencil on each intersection of the ruled lines the value of the rainfall at that point. This has been done on all fifty maps for Scotland, Ireland, and part of the north of England. These values have next to be tabulated on sheets, each column of which gives the values for one point in each of the 50 years with the total and average in the last line. This has been completed for Scotland. The next stage consists in plotting the 50 years' averages on a fresh map, and this has been done for the greater part of Scotland and the isohyetal lines drawn provisionally by Mr. Carle Salter. Mr. R. C. Mossman has done the greater part of the computations and the very laborious checking of the calculations. The scale of these maps is about 19 miles to 1 inch, and while they will be of the utmost value in comparing the departure from the average rainfall in any year of large areas of the country, they cannot compete for detailed accuracy with the maps of the average rainfall of small areas worked out on maps of the 1 mile or 2

miles to the inch scale, such as that of the Forth Valley, a reduction of which forms the frontispiece of the present volume.

Scientific Work and Advice.—The published and unpublished records of the Organization have been placed at the disposal of scientific workers and the public generally, and utilized for scientific discussions by the members of the staff as fully as time and opportunity permitted. A large part of this work consisted of answering questions of the usual type as to the rainfall and climate of particular districts, the extreme rainfall likely to occur in a given time, the best form of rain gauge, the validity of popular rainfall superstitions and prognostics and the like. A considerable amount of time was given to supplying copies of their early records to Observers who had lost them, calculating approximate monthly averages for Observers at new stations and assuring newspaper reporters that each heavy shower about which they enquired was not an unprecedented phenomenon. As in former years I contributed a general summary of the annual rainfall of 1915 to *The Times* early in January, and I also sent letters to that journal on each occasion when the Camden Square observations showed an unprecedented or very exceptional state of things in regard to rainfall or temperature.

Amongst the services to the public we were able to render may be mentioned gratuitous reports and advice to Government Departments in addition to the regular supply of a monthly rainfall map to the Meteorological Office, for which a small payment is made. These included a report to the Board of Agriculture and Fisheries on the daily rainfall of the Conway Valley for various periods in connection with the Board's researches on the effects of pollution on shell fish; statements to the Military Authorities as to the rainfall of certain camp sites, and replies to enquiries from the Office of Public Works in Dublin. Other public bodies to whom services were rendered during the year include the London County Council, the Corporation of the City of London, the Port of London Authority, the Royal College of Science, Dublin, and the University College of South Wales. We were able to be of some service to the Royal Meteorological Society in preparing rainfall maps, to Captain C. J. P. Cave in his investigation of winter thunderstorms, to Professor H. H. Turner, F.R.S., by supplying data for his investigation of discontinuous periods in annual and monthly rainfall, to Mr. J. Fairgrieve in continuing his study of the rain-fields in thunderstorms. At the request of Mr. J. E. Clark we prepared a series of

maps of the rainfall of the Croydon area on the scale of 1 mile to 1 inch for use in the regional survey undertaken by the Croydon Natural History Society, and I have had much correspondence as to similar surveys in other parts of the country. We have also assisted several writers and publishers of educational works by supplying information or maps. Mr. Salter has served on the Council of the Royal Meteorological Society, and he and I have frequently taken part in the discussions of that Society, and on some papers of the Royal Geographical Society. Rainfall data were supplied to several local authorities and civil engineers and paid for by them.

Professional Work by the Director.—Under Clause 25 of the Trust Deed I have continued to act as Rainfall Expert to the Metropolitan Water Board and as Referee under the Abertillery and District Joint Water Board Act, 1910, and I have prepared tables of the rainfall of the Thames Valley for the Thames Conservancy and reports on the gathering grounds of the Birmingham and the Birkenhead Waterworks in Wales. With the assistance of Mr. Salter I have prepared reports on various schemes for waterworks in the north of England, and I gave evidence before a Parliamentary Committee on the Yeadon Water Bill of 1916. Mr. Salter gave evidence at the Leeds Assizes, based on a report in which he and I co-operated, in an action for damage by flooding, due to a thunderstorm rain, against the Halifax Corporation.

The General Fund.—While holding myself personally responsible for the financial aspect of the British Rainfall Organization as regards the General Fund, I consider it right to submit a statement of the accounts for the year 1915, and will have pleasure in showing the full details both of income and expenditure to any subscriber to the funds who cares to inspect the books at 62, Camden Square.

The reduction of income in 1916 would have been serious but for the generosity of an Observer, who wishes to remain anonymous, and who, by a special donation of £50, made good the falling off in the regular subscriptions for the first quarter of the year. The falling off in the subscriptions is due to the fact that the great majority of rainfall Observers belong to the classes whose incomes have been most seriously diminished as a result of the war, and it is a matter of surprise and gratification that so many old friends

have been able to continue to support the Organization. Strenuous efforts have been made to keep the expenses down, and all the members of the staff have done their best to prevent waste. As no essential part of the work of the Organization has been interfered with, although our former efforts towards expansion are checked, the subscribers may, at least, enjoy the satisfaction of feeling that no scientific work of equal magnitude has ever been carried on at less expense.

Receipts on Account of British Rainfall Organization, 1915.

	£	s.	d.
Subscriptions... ..	1134	0	5
Sales to Public	57	6	9
Advertisements	53	9	7
Certificates	11	12	9
Supplying Rainfall Data	6	3	6
Maps and Literary Work	29	19	0
Interest on Endowment Fund and Bank Account	63	18	6
Meteorological Office, towards expenses of Metric Conversion	30	0	0
TOTAL	£1386	10	6

Expenditure on Account of British Rainfall Organization, 1915.

	£	s.	d.
<i>British Rainfall and Meteorological Magazine</i> (including Postage)	475	1	3
Observers and Instruments	29	14	11
Salaries and Assistance	704	13	10
Printing, Stationery and Establishment Expenses	171	9	6
Extra Postage, Telephone, Petty Cash and Miscellaneous Expenses	68	12	0
TOTAL	£1449	11	6
DEFICIT, met by Director	£63	1	0

HUGH ROBERT MILL.

62 CAMDEN SQUARE,
LONDON, N.W.

TREASURER'S REPORT ON ENDOWMENT FUND.

STATEMENT FOR THE YEAR 1915.

The following sums have been received :—

	£	s.	d.
Balance from 1914	14	2	11
R. Cooke, Esq. (6th Don.)	4	5	0
Miss F. Rouse Boughton (2nd Don.)	10	0	0
A. F. Sharman-Crawford, Esq. (5th Don.)	10	0	0
Miss Agnes Fry	2	2	0
Under £2	1	0	0
	<u>£41</u>	<u>9</u>	<u>11</u>

No expenditure has been made during the year.

On August 10th, 1916, the Trustees held as the Endowment Fund, £2,151 11s. 3d. North British Railway 3% Debenture Stock, £123 5s. 0d. New South Wales 3% Inscribed Stock, and £47 14s. 11d. cash.

Between the end of 1915 and August 10th, 1916, the following further sums have been received :—

	£	s.	d.
R. Cooke, Esq. (7th Don.)	4	5	0
Under £2	2	0	0
	<u>£6</u>	<u>5</u>	<u>0</u>

THE PRINCIPAL DONATIONS TO THE ENDOWMENT FUND

RECEIVED UP TO AUGUST 10TH, 1916, WERE AS FOLLOWS :—

Boughton, Miss F. H. Rouse	£110
Brook, Charles L., Esq.	£500
Druce, Francis, Esq.	£200
Freshfield, D. W., Esq.	£200
Mellish, Lt.-Col. H.	£200
Morrison, W., Esq.	£215
Murray, the late Sir John, K.C.B., F.R.S.	£100

F. DRUCE,

Treasurer, Endowment Fund.

THE BRITISH RAINFALL ORGANIZATION.

Trustees.

HUGH ROBERT MILL, D.Sc., LL.D., Past President of the Royal Meteorological Society, *Chairman*.

SIR ALEXANDER R. BINNIE, Past President of the Institution of Civil Engineers.

CHARLES L. BROOK, B.A., Meltham, Yorkshire.

CAPT. CHARLES J. P. CAVE, M.A., Past President of the Royal Meteorological Society.

FRANCIS DRUCE, M.A., London, *Treasurer*.

DOUGLAS W. FRESHFIELD, M.A., D.C.L., President of the Royal Geographical Society.

LT.-COL. HENRY MELLISH, Past President of the Royal Meteorological Society.

JAMES G. WOOD, M.A., LL.B., London.

Staff.

HUGH ROBERT MILL,
Director.

CARLE SALTER,
Assistant Director.

RICHARD LAMPORT, *Assistant in charge of Monthly Records*.

[HARRY E. CARTER, F.R.Met.Soc., *Chief Computer*.] (On Active
[DONALD S. SALTER, F.R.MET.Soc., *Cartographer*.] } Service.)

JOHN GLASSPOOLE, *Assistant Computer*.

L. G. MCCUTCHEON, *Assistant Draftsman*.

F. WUYTS, *Temporary Clerk*.

MRS. BYFORD, *Housekeeper*.

Bankers :—NATIONAL BANK LIMITED, Camden Town Branch.

Office :—62, CAMDEN SQUARE, LONDON, N.W.
Telephone, 142 North.

SUBSCRIPTIONS AND PAYMENTS OF £1 OR MORE FOR PUBLICATIONS
AND CONTRIBUTIONS TO THE GENERAL EXPENSES OF RAIN-
FALL INVESTIGATIONS FROM JANUARY 1ST TO AUGUST 11TH, 1916.

HIS MAJESTY THE KING.....£2 2s.

CORPORATIONS AND WATER COMPANIES.

	£	s.	d.
Aire and Calder Navigation Co.....	1	6	0
Ashton-under-Lyne Corporation	1	1	0
Birmingham Corporation	2	12	0
Bradford „	1	0	0
Brighton „	1	10	0
Bristol Waterworks Co.	1	1	0
Bolton Corporation	2	11	0
Bury and District Joint Water Board	1	0	0
Cambridge Water Works Co.....	1	1	0
Cardiff Corporation	1	1	0
Chatham Waterworks Co.	1	1	0
Clevedon „ Co.	1	1	0
Doncaster Corporation	1	1	0
Folkestone Water Works Co.....	1	6	0
Gosport Water Works Co.	1	3	6
Hastings Corporation	1	1	0
Hornsey „	1	0	0
Hull „	1	1	0
Leeds and Liverpool Canal Co.....	1	1	0
Leeds Corporation	1	1	0
Leicester Corporation	1	17	0
Lowestoft Gas and Water Company	1	1	0
Metropolitan Water Board.....	7	7	0
Middlesbrough Corporation	1	1	0
Nottingham „	1	1	0
Oldham „	1	7	0
Ramsgate „	1	10	0
Sheffield „	1	1	0
Southport „	1	1	0
Southend Waterworks Co.	1	16	0
South Staffs. Waterworks Co.	1	0	0
Staffordshire Potteries Waterworks Co.....	1	1	0
Sunderland and S. Shields Water Co.	1	1	0
Weaver Navigation Trust	5	5	0

	£	s.	d.		£	s.	d.
Anonymous	50	0	0	Argles, Major T. A.	1	0	2
Adair, Sir R. Shafto, Bart.	1	1	0	Assheton, R. C., Esq.	1	0	0
Aldenharn, Lord.....	2	17	0	Ashley, Miss C. C.	1	0	0
Allan, Captain Claud A.	1	10	0	Aston, Miss E. A.	1	1	4
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Tritton, J. H., Esq.	2	2	0	Yool, Mrs. H.	1	7	0

Cheques should be crossed "National Bank, a/c British Rainfall Organization, General Fund," and sent to DR. H. R. MILL, 62, Camden Square, London, N.W.

THE RAINFALL OF THE FORTH VALLEY AND THE CONSTRUCTION OF A RAINFALL MAP.

THE Valley of the Forth above Queensferry has an area of about 981 square miles. The river flows from west to east over an extremely flat plain, upon which its meandering course—the celebrated Links of Forth—presents a remarkable appearance. The river becomes tidal at Craigforth Mill, two miles above Stirling and 25 miles west of Queensferry. It emerges from Loch Ard, 18 miles in a straight line, west of Craigforth Mill, at an elevation of 105 feet above sea level, so that if it flowed in a straight canal between these points the fall of the surface would only be 4 feet in a mile. Estimating roughly from a small scale map we find the distance from the exit of Loch Ard to Craigforth is at least 37 miles, so that the real gradient of this portion of the river cannot exceed 2 feet per mile.

This flat course is surrounded in the west by the mountain amphitheatre which runs from Ben Lomond to Ben Venue, the steep outer slopes of which front Loch Lomond to the west and Loch Katrine to the north. The main tributary of the Forth is the Teith, which drains in two converging streams the lakes of the Trossachs (including Loch Katrine, Loch Achray, and Loch Venachar), and the lakes of Balquhiddy and Strathgryre (Loch Doine, Loch Voil and Loch Lubnaig). They carry off the rainfall of the first great buttresses of the Highlands which rise above the lowland plain of central Scotland.

Parallel to the edge of this great escarpment two lines of lower hills rise abruptly from the Lowland Plain. The first of these consists of the Campsie Fells to the south-west and the Ochil Hills north-east of the middle Forth, and the second line farther to the east consists of the Pentland Hills and their outliers on the south-east and the isolated heights of Fife parallel to the Ochils in the north-east. Each of the valleys formed by the slopes of these hills sends a tributary to the Forth, the largest being the Allan, between the south-eastern edge of the Highland north-western edge of the Ochils on the north side. On the

the Carron and Avon are tributaries draining the valleys between the eastern slope of the Campsie Fells and the foot-hills of the Pentlands.

The map, prepared by Mr. D. S. Salter, by generalization and reduction from the Ordnance Survey sheets, shows the configuration of the valley by means of contour lines drawn at levels of 200, 400, 600, 1,000, 1,500 and 2,000 feet above the sea. The whole area below 600 feet is tinted green, the deeper shades indicating the areas below 400 and 200 feet respectively. The area above 600 feet is tinted brown, the darker shades indicating the land above 1,000, 1,500 and 2,000 feet respectively. Thus the map presents the essential contrast between the dark green low plain, the light brown hills, and the deep brown mountains, cut up into blocks by the light brown or green valleys. The watershed of the Forth, *i.e.*, the line bounding the area which drains to the river is, shown by a heavy broken line which runs in the west and north along the mountain ridges and in the south and east across the highest part of the plains and the summits of the hills.

Upon this map the average rainfall is shown in figures for every place where a rain gauge has been in use for a period long enough to allow an average to be calculated. These figures give the average annual rainfall for the 35 years, 1878-1912, to the nearest half inch when the rainfall was less than 40 inches, and to the nearest inch when it was greater than 40 inches : 109 stations are represented within the watershed of the Forth, and 62 on the bordering country to the edge of the map. They are set out in full in the accompanying table, which gives the name of the station, the height above sea-level, the number of years record available, the arithmetical mean rainfall recorded for these years, the ratio which the rainfall of a period shorter than 35 years bore to the average for that period at adjacent stations where full records are available, and finally, the average rainfall computed in the case of short records by applying the ratio to the mean for the years observed. The method of making the various computations is described in my memoirs on the rainfall of various countries in England,* published by the Geological Survey, and space does not allow us to repeat it here. It is obvious that the most satisfactory figures to deal with are those for which observations for the whole 35 years are available ; but, failing these, the longer

* Geological Survey of England and Wales. Water Supply Memoirs for Bedfordshire, Essex, Hampshire, Kent, Lincolnshire, Northamptonshire, Nottinghamshire, Oxfordshire, Suffolk, Surrey, Sussex, Yorkshire (East Riding). Published under the Authority of the Board of Education.

records reduced to the average are practically equally trustworthy, and even very short records often give remarkably good results. An interesting test of this was made after compiling the map, when 12 short records in the neighbourhood of Loch Katrine became available. The observations in these cases only extended over 17 months, and the figures are distinguished on the map by a circle drawn round them. The map was originally drawn on the scale of half an inch to a mile, and when these new figures were inserted it was not found necessary to alter any of the rainfall lines based on the earlier figures by an appreciable amount. The full significance of this fact will appear later.

In a few cases it was found that long records from very high stations exposed to the full fury of the winter storms gave figures so small in comparison with those for neighbouring but more sheltered localities that they were obviously erroneous, or, at least, not representative of the district.

The risk of error arising from over-exposure is necessarily greater in winter than in summer on account of the greater frequency of gales, and of the prevalence of snow in the former season, and this enables us to apply a test which either proves the readings to be reasonably accurate, or supplies a method of approximate correction. Experience shows that on a long average the seasonal distribution of rainfall varies with the geographical position and that all neighbouring stations show appreciably the same monthly percentage of the annual amount (*see British Rainfall 1914*, pp. 25-44). We have shown, for instance, that at the contiguous stations of Fort William and Ben Nevis, at both of which daily observations were made for many years, the proportion of the summer to the winter half-year's rainfall was practically identical at the two stations, although the difference of altitude between the two points of observation was over 4,300 feet, and the total rainfall at the higher station was more than twice as great as that at the lower. The test, as applied to a number of the exposed stations, consisted in selecting from representative daily, or, in a few cases, weekly, records, and taking out the average rainfall for the summer six months, April to September, and for the winter six months, October to March, separately, and expressing them as percentages of the average annual fall, this being done independently for the period of each of the records to be tested. If the ratio at the station being tested agreed substantially with that at the standard stations, the computed average was held to be confirmed; but if the ratios did not agree a new average was calculated from the summer half-year alone by applying the ratio of the standard stations.

The following short table shows the cases where this correction for loss of snow and rain in winter was made :—

Station.	No. of years.	Annual Mean. in.	Percentage of Rain in Winter half-year.		Corrected Values	
			Actual.	Standard.	Mean.	Average 35 years.
Ben Lomond	35	88·26	54	59	98·20	98·2
Ledard	35	59·55	48	59	74·80	74·8
Ben Ledi.....	6	70·14	55	60	79·47	75·9

Before leaving the question of the correction of observations I wish to make it clear that it is impossible for a rain gauge to be constructed which shall in all cases catch all the rain that falls. I do not question the accuracy of the Observers, for in the cases dealt with they were careful and experienced men in the employment of the Glasgow Corporation Waterworks.

To deal statistically or cartographically with the observed figures from mountain rain gauges without discussion and adjustment would result in sheer confusion and waste of time and effort. The figures must be trusted only when they are consistent with each other and with the known distribution of rain in relation to configuration and prevailing wind. As the possibility of applying corrections is recognized the maps are improved in simplicity and reasonableness, and successive approximations towards final accuracy are, I believe, being made.

The principle of representing the distribution of rainfall on a map by means of isohyetal lines is exactly the same as that of representing vertical relief by means of contour lines. Where the observed figures are numerous it is very easy to draw a line which leaves all values below a certain figure on one side and all values above that figure on the other. In instances where observations are few it is impossible to obtain equal support for all parts of the line ; and in drawing a rainfall map it often happens that the isohyetal line of say 50 inches can be traced with confidence across two or three separate areas divided by gaps upon which there is no figure to show how the line should go. As it is certain that if observations existed the line could be drawn in these places, any sort of line across the vacant district could be nearer to the truth than no line at all, and a natural solution would be to rule a straight line joining the ends of the isohyetal on each side of the gap. If the district were a dead flat plain this would probably be very near the truth, but in a district of varied configuration all experience shows that the distribution of rainfall bears a close relation-

ship to the height and form of the land and to the prevailing direction of the wind. Generally speaking the highest land has the largest rainfall, so if a block of mountainous country intervenes between two portions of the isohyetal of 50 inches and there is no indication as to the rainfall on that area, it would be more reasonable to draw the connecting isohyetal in a curve generally parallel to the contour lines of elevation than to draw it straight across high and low land alike. Again, when an isohyetal line can be drawn on sufficient data round a mountain mass as it emerges from the plain and a few figures only are available on the higher slopes, it is reasonable to draw the higher isohyets as curves parallel to the curve that has been well fixed, except in so far as the outline of the contour lines suggests minor indentation. The number and spacing of the inner curves is suggested by the observed figures at higher elevations. Experience shows that in some parts of the country the isohyets on a particular type of land surface can be drawn from a sufficiency of data, and if a similar land feature occurs in another part of the country with a similar prevailing wind, the lines may be sketched in hypothetically from data that would in other circumstances prove inadequate, by taking advantage of the similarity of the two regions and drawing the lines by analogy. Experience is the only guide as to how far such methods may be trusted, and the result of much work of the kind has suggested the following general principles :—

(i.) That there are no abrupt transitions in nature ; in other words, if the rainfall at one point is 70 inches, and at another point a few miles away 50 inches, for the same period, there must be a rainfall of 60 inches at some point intermediate between the two ; (ii.) the rainfall on the windward slope of a hill increases from the lower to the higher levels, although not necessarily at a uniform rate ; (iii.) the rainfall on the leeward slope of a hill is frequently greater at some point on the slope than at the summit ; (iv.) when two portions of land of similar configuration have the same exposure to the prevailing wind the distribution of rainfall upon them is similar. In dealing with a map of average rainfall the words “ windward ” and “ leeward ” must be interpreted with reference to the *prevailing* direction of the wind. In individual years when the direction of the prevailing wind is unusual the distribution of rainfall will be found to show corresponding differences, and taking shorter periods, the monthly rainfall maps which have been published in *British Rainfall* during the last eight years afford instances of almost complete inversion of the normal distribution of rainfall in months when easterly instead of westerly winds prevailed

for the country as a whole. The first principle is a self-evident truth ; the other three are generalizations from experience, and the statement of them may be modified by more detailed discussion of existing facts, or by the acquisition of new data. In the present state of our knowledge they afford us serviceable guidance in drawing the isohyets across spaces on the map where there are no observed data to support the lines.

The isohyetal lines on the accompanying map have been drawn in accordance with the principles stated in all cases of doubt, but on the portions of the map outside the Forth watershed, where the actual observations happen to be deficient, as in the district south and east of Loch Lomond, the lines are shown dotted. When the lines were first drawn for the region round Loch Katrine the data enclosed in circles on the map did not exist, and the form of the isohyets, the distance up the hill-slopes at which each ran, and the place where they crossed the valley were determined by applying the four principles with but few figures to help us. The fact that the ringed figures drop into their places without requiring any marked change of the lines is a strong confirmation of the truth of the principles on which detailed rainfall mapping in our present state of knowledge depends.

Having said so much on the subject of constructing the map it remains to describe the distribution of rainfall over the Forth Valley as set out on it.

The lowest isohyetal which appears is that of 30 inches. This runs along the south coast of the Firth of Forth from Edinburgh, and shows that a strip of that shore, and the lower part of the Almond valley which enters the firth just below Queensferry, has a rainfall less than 30 inches in the year. This isohyetal crosses the river about two miles below Alloa and returns parallel to the northern shore. It rarely runs over land higher than 200 feet above sea-level.

The isohyetal line of 35 inches runs fairly parallel to that of 30 inches, and crosses the river at Stirling, the strip of country with between 30 and 35 inches being, on the average, about three miles wide. In the west this strip is less than 200 feet above sea-level, but in the east it lies on the hill slopes for the most part between 200 and 400 feet and in a few places probably just touching 600 feet.

The isohyetal of 40 inches just appears on the Pentland Hills south of Edinburgh and on the Cleish Hills north of Dunfermline. The main run of the line is round the south, the east, and the north-east of the

Campsie Fells, keeping at a level of about 200 feet, but crossing the Forth near Kippen at an altitude of only about 40 feet. Thence it runs north-eastward across the flat valley of the Forth and up the valley of the Allan at a considerably higher altitude, and finally sweeps round the west and south of the Ochils at a height averaging about 500 feet.

The 50 inch isohyetal is the last which figures on what may be termed the Lowland part of the Forth Valley. It sweeps round the south, east and north of the Campsie Fells, at heights of between 500 and 1,000 feet, crosses the Forth two miles below Aberfoyle at about 45 feet, crosses the Lake of Menteith, the Teith Valley two miles below Callander, and up the west side of Strathallan along the most easterly spur of the Highlands at heights between 600 and 1,200 feet. An isolated area with more than 50 inches of rain lies on the Ochils, the isohyetal of 50 inches running round the hill mass at a height averaging little below 1,500 feet.

The isohyetal of 60 inches is the last to appear on the Lowland hills, surrounding the highest parts of the Campsie Fells and the Ochils. The main isohyetal of 60 inches crosses the lower end of Loch Lomond, runs round the base of the spur, which stretches south-eastward from Ben Lomond at about 500 feet, crosses Loch Ard at its lower end, 105 feet, crosses Loch Venachar and runs up Strathyre to Loch Lubnaig, thence continuing easterly and northerly at altitudes of about 800 to 1,500 feet.

The isohyets of 70, 80 and 90 inches run roughly parallel to that of 60 inches, approaching each other on the steep hillsides and spreading apart in the flat-floored valleys which divide the mountain masses. The isohyetal of 100 inches, appears only about the highest ground in the extreme north-west, and within it two small patches are shown where the rainfall almost certainly exceeds 110 inches.

If rainfall were determined only by the altitude of the land the isohyets would of course be parallel to the contour lines and could be drawn with great precision ; but the figures show that the same rainfall which is found at lower altitudes in the west occurs only at higher altitudes in the east farther from the direct influence of the prevailing rain-bringing winds, and also that the narrow valleys, especially those running at right angles to the prevailing wind, share the high rainfall of the mountain slopes which surround them.

The following table shows the area of land between the various isohyetal lines, the general rainfall of each zone, and the volume of water which this represents. The last line gives the total area and the total volume

of water deposited in a year on the whole Forth Valley above Queensferry. Dividing the total volume by the total area we get the general rainfall of the valley, $50\frac{1}{2}$ inches.

Drainage Area of River Forth above Queensferry.

Zone.	Area, sq. miles.	General Rainfall, inches.	Volume of Rain, sq. miles x inches.
Less than 30 inches	68.2	28.7	1,957
30—35 inches	107.5	32.6	3,505
35—40 " 	201.7	37.9	7,644
40—50 " 	172.1	45.2	7,779
50—60 " 	153.4	54.8	8,406
60—70 " 	73.7	64.7	4,768
70—80 " 	60.0	74.8	4,486
80—90 " 	52.9	84.5	4,469
90—100 " 	30.2	94.0	2,840
100—110 " 	10.8	102.6	1,108
More than 110 inches	0.3	112.0	34
Total	930.8		46,996

The value of one inch of rain over the 931 square miles dealt with is 13,477 million gallons, or 60,166,912 tons, and the total volume of water deposited in an average year (50.5 in.) is thus 680,472 million gallons, or 3,037,821,440 tons.

From the rainfall point of view the Forth is a typical east coast river, its head waters rising in the western mountains, where over 110 inches of rain falls annually, while it enters the arm of the sea at Queensferry, at a point where the rainfall is only one quarter of that amount.

Rainfall over the Valley of the Forth above Queensferry.

NAME OF STATION.	Height above Sea Level. ft.	No. of Years.	Arith- metical Mean. in.	Ratio.	Computed Average 1878-1912. in.
Airdrie, Airdrie Street	402	9	36·24	100·3	36·1
Coatbridge, Lockwood	290	4	34·09	104·3	32·7
" " <i>Snowdon</i>	290	3	34·43	96·7	35·6
Airdrie, Hillend Reservoir	620	35	37·23	100·0	37·2
" Forrestrburn Reservoir	720	8	38·16	100·0	38·2
Whitburn, Polkemmet	600	24	43·16	98·6	43·8
West Calder, Addiewell	600	35	35·66	100·0	35·7
Mid Calder, New Park .....	..	4	34·96	109·0	32·1
Dalmahoy	358	15	31·49	96·7	32·6
Bathgate, Boghead House	500	13	39·69	100·5	39·5
" .....	..	9	32·21	104·4	30·9?
Roughrigg Reservoir No. 1	661	29	36·24	100·0	36·2
" " No. 2	661	7	38·00	102·9	36·9
Uphall	380	27	30·91	97·6	31·7
Torphichen Lochcote	550	2	30·12	101·0	29·8

Rainfall over the Valley of the Forth above Queensferry—(continued).

NAME OF STATION.	Height above sea Level ft.	No. of Years.	Arith- metical Mean. in.	Ratio.	Computed Average 1878-1912. in.
Ratho, Ingliston	117	3	33.00	120.0	27.5
Corstorphine House	165	10	29.75	100.9	29.5
Craigie Hall .....	..	6	29.08	104.2	27.9
Davidsons Mains, Broomfield	42	19	25.80	101.8	25.3
Dalmeny House.....	55	6	27.28	102.7	26.6
Carrier Reservoir	425	6	34.34	102.7	33.4
„ „	330	9	33.97	99.8	34.0
Muiravonside House	175	13	35.20	100.5	35.0
Linlithgow, Preston House	380	7	33.31	104.4	31.9
„ „ Nether Parkley	290	14	34.68	100.0	34.7
„ „ Academy	170	8	34.07	102.1	33.4
„ „ Rockville	260	32	32.81	100.5	32.6
Torrance, Glenorchard	200	6	47.45	107.7	44.1
Mugdock Reservoir	320	35	46.17	100.0	46.2
Strathblane, Craigend Castle	543	24	55.09	99.3	55.5
„ „ Craigbarnet	300	10	57.77	98.0	58.9
„ „ The Manse	235	7	59.75	104.7	57.1
„ „ Blane field	175	3	54.12	88.3	61.3
„ „ Duntreath	204	2	48.76	93.0	52.5
Kilsyth, Currymire	200	12	49.71	98.9	50.3
„ „ Banton Brickworks	270	1	51.07	109.2	46.8
Falkirk, Inglewood, Laurieston	133	17	37.18	101.5	36.6
„ „ Arnott Hill	135	7	37.11	103.6	35.8
„ „ Ardenlea	105	7	39.25	104.4	37.6
„ „ Westhank	75	20	37.94	100.8	37.6
„ „ Burgh Buildings	107	9	34.89	104.2	33.5
Abercorn.....	130	8	31.29	112.4	27.8
Bo'ness, Neidpath Cottage	220	12	27.18	100.9	26.9
„ „ Grange.....	14	30	29.36	103.3	28.4
Falkirk, Kerse No. 1	18	35	31.59	100.0	31.6
„ „ „ No. 2	18	16	33.79	101.8	33.2
„ „ Cauldhame	73	10	36.58	100.9	36.3
Banton-by-Bonnybridge, Craigdouffie ..	715	5	52.07	104.4	49.9
Little Denny Reservoir	325	20	43.55	100.8	43.2
„ „ Filters	268	16	43.09	101.8	42.3
Kilsyth Hills, Faughlin	713	19	53.72	100.8	53.3
Killearn, Achnagowen	332	7	53.49	97.1	55.1
„ „ Old Ballikrain	265	21	52.65	101.8	51.7
Larbert, Carron Park	80	7	33.45	101.3	33.0
Bannockburn, Auchenbowie	280	5	48.19	102.0	47.2
Dunfermline, Broomhall Gardens	15	5	27.54	99.2	27.8
„ „ Fordell House	230	9	30.61	101.3	30.2
„ „ Keavil	150	32	26.84	100.6	26.7
„ „ Victoria Place	365	11	32.75	100.5	32.6
Culross, Tulliallan Manse	60	4	26.80	91.8	29.2
„ „ Westgrange	116	35	32.81	100.0	32.8
Carnock, Luscar House	430	22	33.12	100.4	33.0
„ „ Craigluscar.....	460	14	36.91	107.4	34.4
„ „ „	280	18	36.11	101.6	35.5
Cowdenbeath, North Bank	473	1	44.02	105.8	41.6 ?
Cleish Hills, Dean Head	725	1	36.20	105.8	34.2 ?
Earlsburn Reservoir	1205	20	58.09	101.0	57.5

Rainfall over the Valley of the Forth above Queensferry—(continued).

NAME OF STATION.	Height above sea Level. ft.	No. of Years.	Arith- metical Mean. in.	Ratio.	Computed Average 1878-1912. in.
Stirling W. W., Touch Reservoir No. 3..	759	22	44.23	103.6	42.7
„ „ „ No. 2..	707	9	49.11	101.7	48.3
„ „ „ No. 1..	455	9	48.10	101.7	47.3
„ Polmaise Castle	200	1	48.43	118.2	41.0
Buchlyvie Manse	118	24	51.73	99.5	52.0
Kippen, Garden House .....	..	13	48.72	98.5	49.5
„	255	4	42.93	95.0	45.2
„ Arngomery	150	16	49.30	103.6	47.6
„ Boquhan .....	..	1	49.74	122.2	40.7
Gargunnock House	85	20	43.34	100.7	43.0
Stirling, St. Ninians	100	1	25.10	74.0	33.9
„ Victoria Place	100	21	39.42	100.7	39.1
„ Polmaise Gardens	12	39	35.82	102.1	35.1
„ Causewayhead Road	14	3	37.09	97.7	38.0
Alloa House Gardens	40	5	34.13	99.2	34.4
„ Mar Street	70	23	32.29	100.7	32.1
Tullibody House	20	1	25.80	82.7	31.2 ?
Alloa W.W., Gartmorn Reservoir	172	6	32.88	102.7	32.0
Cleish Hills, Outh	890	34	37.99	104.0	36.5
Kelty, Blairadam Wood	761	2	41.74	101.0	41.3
Cleish Hills, Loch Glow Reservoir	897	2	42.25	101.0	41.8
„ Castle	450	14	40.51	101.8	39.8
Menstrie, The Myretown	120	1	30.49	80.2	38.0
Dollar, Dollarbeg	265	14	39.05	101.1	38.6
Blairingone Manse	300	24	39.55	99.7	39.7
Dollar Academy	178	35	40.16	100.0	40.2
„ Blairhill .....	..	3	37.57	93.7	40.1
Alva House	180	20	39.74	99.9	39.8
Tillicoultry	65	6	37.39	97.2	38.5
„ House No. 1	200	6	40.69	96.3	42.3
„ „ No. 2	200	6	37.42	90.0	41.6
Bridge-of-Allan .....	..	5	41.86	116.2	36.0
„ „ The Lea	110	13	36.26	101.7	35.7
„ „ Ochertyre	18	19	40.31	102.1	39.5
Menteith, Cardross	120	16	45.08	106.0	42.5
Dunblane, Kippenross	240	35	37.22	100.0	37.2
Aberfoyle, The Inn	60	35	56.16	100.0	56.2
Loch Lomond, Firkin	100	14	97.71	109.3	89.4
Stuckgown	110	4	90.66	101.3	89.5
Blairhoyle .....	..	4	45.99	105.8	43.5
Doune, Gartincaber	200	20	41.45	99.9	41.5
Dunblane, Lynns Farm	680	18	40.86	99.8	40.9
Doune, U.F. Manse	125	9	39.60	101.7	38.9
„ Deanston House	130	4	43.40	105.5	41.1
Callander, Lanrick Castle	190	36	45.68	102.2	44.7
Dunblane, Kippendavie	362	34	39.62	103.1	38.4
Duchray Valley, Glen Dhu	500	1½	76.00	91.8	82.9
„ „ Comer	600	1½	83.80	91.8	91.3
„ „ Achaidh Burn	1200	1½	86.20	91.8	94.0
Loch Dhu	325	35	78.69	100.0	78.7
Loch Drunkie	420	35	62.12	100.0	62.1
Duchray Valley, Head of Main Stream..	950	1½	82.70	91.8	90.1

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Rainfall over the Valley of the Forth above Queensferry—(continued).

NAME OF STATION.	Height above Sea Level. ft.	No. of Years.	Arith- metical Mean. in.	Ratio.	Computed Average. 1878-1912. in.
Loch Leven Sluice	360	35	35.65	100.0	35.6
Kinross, Gelly Bank	440	14	33.47	100.0	33.5 ?
" House	377	4	39.20	108.3	36.2
" Turfhill	400	16	40.49	101.6	39.8 ?
Glendevon, Glenquey Reservoir	945	3	59.10	98.0	60.3
" Tormaukin	770	10	54.64	102.9	53.1
" Glensherup	745	16	57.96	102.2	56.7
" "	900	8	59.94	120.7	49.7 ?
Bridge of Turk	270	35	63.54	100.0	63.5
Loch Venachar	275	35	54.89	100.0	54.9
Callander, The Gart	242	38	54.58	102.0	53.5
" Leny	335	35	56.36	100.0	56.4
Ben Venue, Glasahole	1150	1½	74.40	91.8	81.1
Loch Katrine, Tunnel Hill Top	830	6	84.10	100.7	83.5
Loch Arklet, Corriehichon	870	8	90.90	101.8	89.3
" " Corriearklet	950	8	91.81	101.8	90.2
Arrochar, Upper Inveruglas	100	1	117.30	101.8	115.2
Stronachlachar, Invergyle	376	1½	74.10	91.8	80.8
Loch Katrine, Strone Bridge	380	1½	65.90	91.8	71.8
Doune, Cauldhame	830	9	52.45	101.7	51.6
Braco, Nether Cambushinnie	380	17	45.63	101.5	45.0
Turk Valley, Achnahard	500	1½	63.20	91.8	69.0
" " Glen Meann	800	1½	70.30	91.8	76.7
" " Glen Finglas	1200	1½	69.30	91.8	75.6
Glengyle	380	35	88.94	100.0	89.0
" Upper	750	1½	87.40	91.8	95.4
Allt à Choine	1250	1½	82.70	91.8	90.1
Loch Lomond, Ardlui	50	6	115.46	103.0	112.1
Slateford Burn, Shire End	930	3	39.05	98.5	39.7
" " Whitehill	810	3	38.72	98.5	39.3
Upper Farg, Plains	900	3	36.16	98.5	36.7
" " Heatherieleys	790	3	36.14	98.5	36.7
" " " Quarry	715	3	35.69	98.5	36.2
" " Deuglie	710	3	34.57	98.5	35.1
Glenfarg, U.F. Manse	480	4	40.54	113.8	35.6
Muthill, Orchill	315	10	47.19	115.2	41.0
Auchterarder .....	..	3	32.90	98.0	33.6
" House	172	10	36.12	111.0	32.5
" Colquhalzie	150	18	38.53	106.6	36.1
Muthill	247	5	44.39	104.4	42.5
Balquhidder, Blaircreach	460	11	90.14	102.0	88.4
Stronvar	420	35	73.70	100.0	73.7
Balquhidder, Edenchip	542	16	73.56	104.3	70.5
Lochearnhead, Ardvorlich	321	25	66.02	100.4	65.8
"	460	18	67.73	110.4	61.4
Comrie, Dalginross	200	6	55.63	105.8	52.6
"	200	6	56.70	113.0	50.2
" Clathick	300	10	45.13	104.3	43.3
Grieff, The Hydropathic	436	5	41.24	103.6	39.8
" Ochertyre	325	31	41.45	102.1	40.6
St. Fillans, Portmore	333	10	57.41	102.8	55.8
Tyndrum, Ewick	572	2	92.76	123.5	75.1

ONE HUNDRED YEARS' GREENWICH RAINFALL, 1815—1914.

By W. C. NASH.

THE record of rainfall at the Royal Observatory began in a very modest and unpretending way. In the days of Maskelyne and Pond, at the beginning of the nineteenth century, the Observatory was strictly maintained upon a purely astronomical basis, and meteorological work formed no part of the official duties of the limited staff. In the year 1811, it occurred to Mr. John Henry Belville (a junior member of the staff, officially known and recorded in the Observatory books as Mr. John Henry) to begin keeping a weather journal on a small scale, in humble imitation of the elaborate journal of the famous meteorologist, Luke Howard, then being published in the columns of the weekly press. At the outset the rainfall was not gauged by Mr. Belville, and it was not until the end of the year 1814 that a six-inch gauge was obtained from Troughton for the Observatory service. The gauge was mounted at first upon a small plot of grass in the forecourt of the Observatory, near the north-east dome ("the Shuckburgh Equatorial") and was regularly observed daily by Mr. Belville until 1822, as he was then in residence at the Observatory. In that year, having changed his residence to the town of Greenwich, the observations began to be made less regularly, and the gauge was observed by one or other of the assistants on the staff at intervals of two or more days, as was found convenient. The journal was carried on till the end of the year 1840 (the rain gauge having, in the meantime, been shifted to the centre of the flat roof of the Library at the height of 22 feet above the ground, in or about 1832-33); it was then superseded by the regular series of observations commencing in 1841, made by the staff of the newly-constituted Magnetical and Meteorological Department under the direction of Mr. James Glaisher. The establishment of gauges then consisted of an eight-inch gauge for monthly measurement embedded in the ground to the depth of 6 or 7 inches to ensure stability, a Crosley

TABLE I.—*Monthly Rainfall on the Ground at the Royal Observatory, Greenwich, from 1815 to 1914.*

YEARS.	Jan. in.	Feb. in.	Mar. in.	April. in.	May. in.	June. in.	July. in.	Aug. in.	Sept. in.	Oct. in.	Nov. in.	Dec. in.	Year. in.
1815..	.78	1.20	2.00	2.47	2.14	1.65	1.57	1.83	1.07	2.39	1.37	2.05	20.52
1816..	1.90	1.47	1.71	1.94	1.95	2.19	3.91	2.30	1.86	2.61	2.74	2.82	27.40
1817..	2.85	1.19	1.90	.06	4.12	1.54	3.86	2.53	.81	2.39	1.80	3.53	26.58
1818..	1.73	1.89	3.45	2.99	2.53	.60	.69	.07	3.78	1.89	2.49	1.34	23.45
1819..	2.12	2.67	1.58	2.82	2.98	2.28	2.00	.36	3.13	2.13	2.69	3.48	28.24
1820..	1.73	.60	(1.50)	1.48	3.57	2.11	4.38	1.70	2.23	2.64	1.76	1.57	25.27
1821..	2.18	.04	3.45	1.82	2.22	2.21	2.82	1.92	3.40	2.42	4.33	4.72	31.53
1822..	.55	.98	1.39	2.56	1.90	.80	4.07	1.81	1.37	3.60	3.66	2.26	24.95
1823..	1.36	3.17	1.36	1.75	.74	1.14	3.30	2.68	.89	3.96	1.55	2.48	24.38
1824..	.94	2.34	1.69	1.89	3.77	3.51	1.81	3.95	3.21	2.44	3.88	3.55	32.98
1825..	1.03	.86	1.30	1.75	2.97	.74	.10	2.48	2.56	2.69	2.85	2.92	22.25
1826..	.30	1.66	1.66	.97	2.47	.97	2.44	1.69	3.07	1.74	2.46	1.28	20.71
1827..	1.06	.60	2.40	1.16	2.39	.59	1.25	1.05	3.51	3.87	1.17	3.33	22.38
1828..	3.87	1.04	.86	2.17	1.47	1.85	6.43	3.75	2.41	1.41	.85	2.33	28.44
1829..	.36	1.17	.60	4.35	.45	1.46	3.78	4.13	3.27	1.67	1.32	.48	23.04
1830..	1.05	2.28	.28	2.84	1.96	2.38	1.69	3.55	3.24	.66	3.09	1.20	24.22
1831..	1.00	2.84	2.03	1.55	1.52	1.91	3.09	1.77	1.97	4.97	1.45	2.31	26.41
1832..	1.28	.37	1.22	.40	1.55	3.30	.70	3.44	.46	2.48	1.87	1.19	18.26
1833..	1.24	4.00	1.03	1.31	.25	2.03	1.65	1.71	1.88	1.29	2.60	4.85	23.84
1834..	3.33	.44	.69	.50	.97	1.50	5.32	3.27	.87	.47	1.50	1.22	20.08
1835..	.63	2.88	2.80	1.04	3.00	2.45	.28	1.10	4.15	4.20	2.37	.50	25.45
1836..	2.02	2.00	2.37	2.71	1.32	1.12	1.70	2.63	3.13	4.17	2.67	2.00	27.84
1837..	2.95	1.83	.55	1.21	.98	1.10	1.56	4.52	1.25	2.46	1.88	1.43	21.72
1838..	.91	2.18	1.09	.58	1.50	5.07	1.98	1.02	2.88	1.98	3.50	1.90	24.59
1839..	1.49	1.70	1.94	1.44	1.66	1.87	3.72	2.71	4.85	1.90	4.84	2.66	30.78
1840..	2.60	1.31	.30	.10	2.03	1.50	1.63	1.08	2.84	1.62	3.16	.50	18.67
1841..	2.11	1.32	1.35	1.92	2.06	2.70	3.60	2.20	3.95	5.95	3.70	2.40	33.26
1842..	1.02	1.05	1.90	.43	2.09	.95	2.96	1.78	3.99	1.41	4.25	.74	22.57
1843..	1.35	2.39	.51	1.72	3.75	1.30	2.42	3.62	.46	4.25	2.30	.40	24.47
1844..	2.42	2.32	2.30	.35	.30	1.56	2.18	1.71	1.19	4.01	4.50	.36	23.20
1845..	2.40	.93	1.51	.55	2.21	1.89	1.85	3.10	2.12	1.38	2.40	2.00	22.34
1846..	2.82	1.47	.88	3.05	1.50	.50	1.50	4.00	1.79	5.13	1.52	1.13	25.29
1847..	1.38	1.39	.77	.99	1.40	1.50	.67	1.95	1.56	2.00	2.00	2.00	17.61
1848..	1.20	2.60	3.10	3.44	.40	3.50	1.98	4.25	2.38	3.50	1.20	2.55	30.10
1849..	1.50	2.30	.60	1.93	3.70	.30	2.90	.45	3.25	2.70	1.50	2.40	23.58
1850..	1.20	1.40	.40	2.25	2.30	1.00	2.82	1.70	1.35	1.58	2.18	1.35	19.53
1851..	2.70	1.25	4.05	2.30	.90	1.75	4.20	2.60	.50	2.18	.65	.55	23.53
1852..	3.60	.90	.17	.49	1.90	4.60	2.25	4.35	3.80	3.75	6.09	2.20	34.01
1853..	2.11	1.48	1.50	3.21	1.50	2.75	5.48	2.75	2.23	4.23	1.95	.80	29.99
1854..	1.40	1.21	.32	.59	3.51	.91	1.75	2.61	.98	2.42	1.90	1.41	19.01
1855..	1.47	1.00	1.98	.09	1.80	.85	5.25	1.40	1.95	5.20	1.50	1.10	23.59
1856..	2.63	1.10	1.10	2.28	3.45	1.60	.90	2.42	2.80	1.91	1.25	1.83	23.27
1857..	2.60	.20	.83	1.40	.33	2.70	1.10	2.50	3.40	4.20	1.35	.55	21.16
1858..	.75	1.70	.80	2.25	2.00	1.20	3.00	1.50	.86	1.44	.50	1.70	17.70
1859..	.80	.86	1.35	2.17	2.35	1.40	3.30	1.13	3.80	3.60	2.90	2.17	25.83
1860..	1.81	1.10	1.86	1.00	3.90	5.80	2.80	3.68	3.10	1.60	2.50	2.75	31.90
1861..	.55	1.80	2.15	.83	1.79	1.90	2.20	.57	1.46	.88	5.07	1.25	20.45
1862..	1.79	.46	3.54	2.82	2.84	1.93	1.66	3.01	1.61	4.07	1.00	1.59	26.32
1863..	2.71	.50	.70	.45	1.25	3.91	.88	1.82	2.95	1.82	1.59	1.08	19.66
1864..	.88	.76	2.53	.82	2.00	.92	.27	1.31	2.76	1.06	2.57	.50	16.38

N.B.—Italic figures imply that the rainfall values for the ground inserted here have been inferred from the observations made at the height of 22 feet above the ground.

YEARS.	Jan. in.	Feb. in.	Mar. in.	April. in.	May. in.	June. in.	July. in.	Aug. in.	Sept. in.	Oct. in.	Nov. in.	Dec. in.	Year in.
1865..	3.32	1.75	.85	.40	4.37	2.45	2.27	3.97	.16	5.90	2.39	.87	28.70
1866..	3.68	4.03	1.63	2.44	1.94	3.64	1.62	2.42	3.90	2.09	1.48	1.85	30.72
1867..	2.80	1.21	2.30	2.10	2.20	1.51	5.30	2.50	2.61	1.93	.42	1.70	26.58
1868..	3.69	1.20	1.00	1.76	1.34	.30	.71	2.31	1.37	2.35	1.05	4.70	21.78
1869..	2.92	2.34	1.41	1.01	3.43	1.15	.55	1.21	3.08	1.77	2.38	2.77	24.02
1870..	1.49	.54	2.05	.28	.47	.39	2.01	2.02	1.63	3.34	1.20	3.13	18.55
1871..	2.05	1.09	1.10	3.03	.68	2.95	3.25	.86	4.12	1.37	.57	1.23	22.30
1872..	3.63	.77	2.13	.98	3.09	1.64	2.36	2.70	1.39	4.34	2.92	4.07	30.02
1873..	2.45	1.93	1.33	.61	1.49	2.56	1.85	3.18	2.52	2.55	2.58	.31	23.36
1874..	1.00	.94	.45	1.35	.42	2.42	2.59	1.44	2.22	3.58	1.85	1.69	19.95
1875..	2.99	.82	.56	1.55	1.46	2.28	5.28	2.28	2.66	4.13	2.90	1.06	27.97
1876..	1.11	1.50	2.32	1.27	1.13	1.08	.67	2.01	2.58	1.61	3.06	5.76	24.10
1877..	4.35	1.71	2.23	3.35	1.38	.68	2.46	2.90	1.15	1.78	3.53	1.76	27.28
1878..	.87	1.10	1.06	4.31	4.29	4.57	.31	5.38	.82	1.66	3.45	1.16	28.98
1879..	2.59	3.82	.60	2.60	3.36	4.29	3.72	5.19	2.87	.76	.91	.65	31.36
1880..	.26	2.36	.60	2.20	.50	2.26	3.81	.98	4.00	7.65	2.06	3.00	29.68
1881..	1.66	2.45	1.83	.62	1.61	1.86	2.14	3.89	2.19	2.71	2.27	2.49	25.72
1882..	1.35	1.15	1.14	2.40	1.37	2.36	2.45	1.16	2.41	5.42	2.20	1.77	25.18
1883..	1.69	2.89	.78	1.70	1.71	1.34	2.00	.71	3.82	1.59	2.85	.83	21.91
1884..	1.77	1.50	1.37	1.11	.96	2.24	1.77	.67	2.09	1.04	.99	2.54	18.05
1885..	1.42	2.33	1.50	2.05	2.11	1.67	.50	1.32	3.73	3.41	2.83	1.13	24.00
1886..	3.68	.56	1.14	1.26	4.23	.44	2.51	1.12	1.24	1.41	3.02	3.60	24.21
1887..	1.15	.53	1.35	1.75	1.73	1.23	1.29	2.35	2.21	1.03	3.77	1.47	19.86
1888..	.89	.89	2.78	1.51	.65	3.36	6.75	3.73	.73	1.30	4.00	.92	27.51
1889..	.84	2.19	1.32	1.85	3.30	2.07	2.06	1.81	1.69	3.93	.78	1.44	23.28
1890..	2.08	1.04	1.96	1.77	1.34	2.54	4.50	2.54	.65	1.19	1.48	.77	21.86
1891..	1.56	.05	2.14	.72	2.69	.96	3.39	3.72	.82	4.32	2.00	2.67	25.04
1892..	.38	1.69	1.09	1.42	1.66	2.27	1.53	3.03	2.01	3.88	2.21	1.14	22.31
1893..	1.45	2.72	.43	.12	.53	.82	3.33	1.25	1.29	4.16	1.83	2.19	20.12
1894..	3.09	1.59	.73	1.44	1.52	2.04	3.26	3.03	1.25	3.99	3.00	1.95	26.89
1895..	1.62	.22	1.43	1.25	.45	.21	3.39	2.14	.93	2.69	2.89	2.51	19.73
1896..	.64	.36	3.00	.56	.27	1.94	1.06	2.06	5.54	2.80	1.19	3.00	22.42
1897..	1.62	2.38	3.35	1.62	1.25	1.93	.73	2.86	2.70	.48	1.07	2.14	22.13
1898..	.65	1.19	1.40	.93	2.64	1.75	1.34	.86	.30	3.15	2.41	2.23	18.85
1899..	2.53	1.93	.61	3.00	1.65	.76	1.74	.35	2.23	2.34	3.73	1.46	22.33
1900..	2.28	3.58	.92	.92	1.37	2.81	1.41	2.03	1.14	1.55	2.02	2.28	22.31
1901..	.76	.87	2.17	1.81	1.79	1.49	1.72	2.03	1.35	2.60	.67	3.03	20.29
1902..	.64	.79	1.36	.42	3.33	3.10	1.09	2.93	1.65	1.24	1.29	1.50	19.34
1903..	2.13	1.37	2.20	1.85	1.95	6.07	5.27	4.82	2.24	4.44	1.93	1.27	35.54
1904..	2.51	2.55	1.36	1.01	1.92	.87	2.23	1.23	1.34	1.74	1.65	2.25	20.66
1905..	1.00	.72	3.56	1.70	1.32	4.32	.92	2.54	2.31	.91	3.12	.60	23.02
1906..	3.71	1.80	1.09	.67	1.57	2.80	.42	1.39	1.97	3.04	4.12	2.16	24.74
1907..	1.09	1.27	.91	3.14	1.47	2.65	.97	1.92	.62	3.25	2.23	2.73	22.25
1908..	1.51	1.46	2.22	2.10	1.53	2.07	3.66	3.28	1.22	1.97	.76	2.00	23.78
1909..	.76	.63	3.08	1.64	1.24	3.67	3.16	1.30	2.48	4.06	.79	2.40	25.71
1910..	1.72	2.69	1.10	2.62	2.24	2.08	3.52	2.43	.74	1.81	3.57	3.54	28.06
1911..	1.23	1.38	1.65	1.73	1.88	2.10	.27	1.34	1.34	3.30	3.42	4.02	23.66
1912..	3.02	1.72	2.56	.07	1.29	2.35	1.24	4.14	1.99	2.13	1.55	2.80	24.86
1913..	2.66	.81	2.42	2.23	1.16	.73	2.12	1.67	1.65	3.42	2.69	.88	22.44
1914..	.50	2.44	3.93	1.11	1.63	1.34	1.41	1.17	.73	.96	2.62	6.02	23.86

Average
1815 to 1914 1.79 1.53 1.59 1.61 1.90 2.00 2.38 2.30 2.16 2.68 2.30 2.02 24.26

TABLE II.—*Mean Monthly Rainfalls at Greenwich in successive decades (computed from Table I.) for the Years 1815 to 1914.*

Decades.	MEAN MONTHLY RAINFALL IN EACH DECADE.												Year. in.
	Jan. in.	Feb. in.	March. in.	April. in.	May. in.	June. in.	July. in.	Aug. in.	Sept. in.	Oct. in.	Nov. in.	Dec. in.	
1815-1824	1·614	1·555	2·003	1·978	2·592	1·803	2·841	1·915	2·175	2·647	2·627	2·780	26·530
1825-1834	1·452	1·526	1·207	1·700	1·600	1·673	2·645	2·684	2·324	2·125	1·916	2·111	22·963
1835-1844	1·755	1·898	1·511	1·150	1·869	1·962	2·203	2·237	2·869	3·195	3·317	1·289	25·255
1845-1854	2·031	1·493	1·330	1·885	1·922	1·870	2·540	2·776	1·996	2·887	2·130	1·639	24·499
1855-1864	1·599	·948	1·684	1·411	2·171	2·221	2·136	1·934	2·469	2·578	2·023	1·452	22·626
1865-1874	2·703	1·580	1·425	1·396	1·943	1·901	2·251	2·261	2·300	2·922	1·684	2·232	24·598
1875-1884	1·864	1·930	1·249	2·111	1·777	2·296	2·461	2·517	2·459	2·835	2·422	2·102	26·023
1885-1894	1·654	1·359	1·444	1·389	1·976	1·740	2·912	2·390	1·562	2·862	2·492	1·728	23·508
1895-1904	1·538	1·524	1·780	1·337	1·662	2·093	1·998	2·131	1·942	2·303	1·885	2·167	22·360
1905-1914	1·720	1·492	2·252	1·701	1·533	2·411	1·769	2·168	1·505	2·485	2·487	2·715	24·238
Means ..	1·793	1·531	1·588	1·606	1·904	1·997	2·376	2·301	2·160	2·684	2·298	2·022	24·260

Monthly means in each fifty-year period:—

													Year. in.
	Jan. in.	Feb. in.	March. in.	April. in.	May. in.	June. in.	July. in.	Aug. in.	Sept. in.	Oct. in.	Nov. in.	Dec. in.	
First period, 1815-1864	1·690	1·484	1·547	1·625	2·031	1·906	2·473	2·309	2·367	2·686	2·403	1·854	24·375
Second period, 1865-1914	1·896	1·577	1·630	1·587	1·778	2·088	2·278	2·293	1·954	2·681	2·194	2·189	24·145

gauge planted on the ground, the original Troughton gauge at 22 feet above the ground, and a large gauge exposing a surface of 200 square inches at the height of 50 feet for the pluviometric record on the Osler's self-recording sheet. In March, 1861, other elevation gauges were added to the equipment, and another eight-inch gauge was planted by the side of the monthly gauge for daily observation, afterwards being adopted as the standard for reference. Then for a number of years there is very little to remark, as the well-trained departmental staff carried on the observations with unfailing regularity. But at the beginning of the year 1899 it became necessary to remove the standard gauge to a new site, 400 yards east of its former position, on account of the erection of a lofty block of buildings at the southern end of the meteorological enclosure for the reception of the massive instruments then being introduced by Sir William Christie. To maintain the connection with the former position a number of check gauges were retained in the Observatory grounds.

With reference to the table the following additional remarks appear to be necessary :—

1820, February marked "*uncertain*" in Journal; 1820, March, "*no record*"; 1.50 in. adopted by Mr. Glaisher by reference to the Royal Society's record at Somerset House.

1832 to 1840. All records considered to have been made at the height of 22 feet above the ground. They have been reduced to corresponding ground values by means of the ratios between the gauges established by comparative observations in the years 1841-1850, it being assumed that the conditions then governing the gauges were the same as in the preceding decade.

1867 and 1868. The values for these years are those recorded by the monthly gauge in preference to those recorded by the daily gauge which appeared to be erroneous.

THE STAFF OF OBSERVERS.

THE total number of records appearing in the General Tables for 1915 is 5,412, or 41 fewer than in 1914, this being the only occasion since the year of the death of Mr. G. J. Symons in which a volume of *British Rainfall* has failed to contain a larger number of records than its predecessor. In the stress through which the country is passing at the present time, and with so large a proportion of the manhood of the nation called away from their homes, the falling off in the number of records received is far smaller than might reasonably have been anticipated, and the continued co-operation of so large a body of voluntary Observers during the progress of the greatest war the world has seen bears witness with remarkable force to the national stability of character.

We have not this year been able to devote the usual proportion of our space to commenting on the changes in the Observing Staff of the Organization. Many of the records which have failed to reach us this year are no doubt interrupted only for a time, and in some cases probably are being carried on by temporary Observers whose names we have not learned and to whom we therefore cannot apply. So far as it is possible on this occasion, we have distinguished the losses which we know to be temporary from the permanent losses and these are tabulated in the following summary, which also separates entirely new records from those which are returning after temporary absence from the tables. It will be seen that the number of gains is normal and that, even though the total real loss is considerably larger than usual, there is on the whole a real net gain of 53 records during the year. The most satisfactory feature of the

Year.	Total Gain.	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
1909.....	426	89	337	290	87	203	134
1910.....	490	81	409	292	73	219	190
1911.....	502	99	403	304	94	210	193
1912.....	498	81	417	300	120	180	237
1913.....	456	58	348	308	140	168	180
1914.....	432	77	355	349	157	191	164
1915.....	433	89	344	474	183	291	53

changes lies in the fact that, although losses occurred they affected chiefly the parts of the country best able to bear them. In Wales and Ireland there was no diminution in numbers, and a real net gain of 10 and 8 stations respectively; whilst Scotland made excellent progress, having a gross gain of 40 stations, and a real net gain of 39.

1915.	Total Gain.	Returned.	Real Gain.	Total Loss.	Temporary.	Real Loss.	Net Real Gain or Loss.
England	298	62	236	377	137	240	—4
Wales, &c. ..	30	6	24	32	18	14	10
Scotland	82	17	65	42	16	26	39
Ireland	23	4	19	23	12	11	8
British Isles...	433	89	344	474	183	291	53

The number of losses in **England** is somewhat aggravated by the fact that this year 34 stations in the Upper Derwent Valley, part of the very complete installation established a few years ago by the Derwent Valley Water Board, have been discontinued. Of these 10 have been removed to new and presumably better sites. We are glad to be able to record a continued and very welcome improvement in the North Riding of Yorkshire, much of which is due to the indefatigable energy of Mr. A. J. Walker, of Thirsk. There are also interesting new records in Shropshire and on the borders of the Lake District.

In **Wales** the loss of one or two of the Snowdon records is merely temporary. There is a new station of unusual interest at Penmachno, about five miles south of Bettws-y-Coed.

In **Scotland** improvement is general, and is perhaps most marked in the Midlands. The Glasgow Corporation have established twelve admirable new stations in the Katrine and Duchray Valleys, and we also add an interesting group of six records at various altitudes in Glenfinlas on the west side of Loch Lomond, and several excellent new stations in Perthshire. A loss of some importance is that of three old records near Braemore but the north-west of Scotland is improved by new stations at Inverailort, Lochcarron and Achnasheen; and the north-east by those at Alvie, Banff, Knockando and Brueklay Castle. In Sutherlandshire the invaluable station at Altnaharra has been revived.

In **Ireland** the changes are, as usual, few, but are on the whole in the direction of improvement, several of the gains being in the poorly represented districts of the west. These include Ower House, near Headfort, and Delphi Lodge, the latter in the rainiest part of Connemara, both of which promise extremely valuable results. Three important records

near Banbridge have not been received, though we believe they have not been discontinued, and we have not been able to obtain any information as to the old record at Dundarave which we fear has come to an end.

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

Years.	England.	Wales.	Scotland.	Ireland.	British Isles.	Increase over previous years.	No. of Stations per 100 sq. mi.
1861 ...	333 ...	9 ...	109 ...	20 ...	471 ...	47 ...	0·4
1871 ...	1038 ...	88 ...	311 ...	67 ...	1504 ...	5 ...	1·2
1881 ...	1548 ...	131 ...	313 ...	153 ...	2145 ...	41 ...	1·8
1891 ...	2091 ...	168 ...	359 ...	181 ...	2799 ...	23 ...	2·3
1901 ...	2616 ...	253 ...	442 ...	195 ...	3506 ...	13 ...	2·9
1911 ...	3705 ...	397 ...	701 ...	271 ...	5074 ...	198 ...	4·2
1912 ...	3834 ...	429 ...	732 ...	277 ...	5272 ...	198 ...	4·4
1913 ...	3902 ...	440 ...	749 ...	279 ...	5370 ...	98 ...	4·4
1914 ...	3962 ...	450 ...	753 ...	288 ...	5453 ...	83 ...	4·5
1915 ...	3882 ...	448 ...	794 ...	288 ...	5412 ...	-41 ...	4·5
Difference from 1914—							
Increase ...	...	...	41 ...	0 ...	...	...	0
Decrease 80 ...	...	2 ...	...	0 ...	41 ...	...	0

In the lists the figures following the name of each county indicate the numbers of records lost and gained, the total number appearing in *British Rainfall, 1915*, and in heavy type the number of records per 100 square miles of area. The letter *a* stands for the number printed in 1914. In the County of London for example *a*—10+3=79...67 means that 10 of the records printed in 1914 are not available in 1915, whilst 3 new records appear, making the total number 79, or 67 per 100 square miles of area within the county.

ENGLAND.

London <i>a</i> —10+ 3 = 79 67	Hertfordshire <i>a</i> — 7+ 5 = 84 13
Surrey <i>a</i> —30+24 = 230 32	Buckingham ... <i>a</i> — 6+ 2 = 43 6
Kent <i>a</i> —15+16 = 177 11·5	Oxfordshire ... <i>a</i> — 8+16 = 77 11
Sussex <i>a</i> —11+14 = 175 12	Northampton <i>a</i> — 6+ 8 = 74 7
Hampshire <i>a</i> —25+13 = 158 10	Huntingdon ... <i>a</i> — 0+ 2 = 11 3
Berkshire <i>a</i> — 6+ 1 = 65 9	Bedfordshire ... <i>a</i> — 2+ 0 = 28 6
Middlesex <i>a</i> — 5+ 5 = 63 27	Cambridge <i>a</i> — 5+ 2 = 58 7

ENGLAND—(*continued*).

Essex $a-11+12 = 117$ 8	Rutland $a-1+0 = 7$ 5
Suffolk $a-8+2 = 64$ 4·5	Lincolnshire ... $a-4+3 = 86$ 3
Norfolk $a-8+11 = 89$ 4	Nottingham ... $a-2+5 = 64$ 8
Wiltshire $a-7+3 = 62$ 4·5	Derbyshire $a-35+12 = 93$ 9
Dorset $a-16+7 = 77$ 8	Cheshire $a-3+4 = 81$ 8
South Devon ... $a-19+15 = 154$ 9	South Lancs ... $a-3+6 = 112$ 16
North Devon ... $a-9+1 = 47$ 5	Central Lancs $a-2+2 = 82$ 15
Cornwall $a-13+5 = 67$ 5	North Lancs ... $a-2+5 = 68$ 11
Somerset $a-14+8 = 152$ 9	Yorkshire, W. R. $a-29+23 = 342$ 12
Gloucestershire $a-8+7 = 109$ 9	Yorkshire, E. R. $a-1+1 = 28$ 2
Herefordshire $a-5+2 = 52$ 6	Yorkshire, N. R. $a-9+19 = 112$ 5
Shropshire $a-2+5 = 48$ 3·5	Durham $a-3+2 = 47$ 5
Staffordshire ... $a-2+3 = 53$ 4·5	Northumberl'd $a-7+3 = 55$ 3
Worcestershire $a-5+3 = 56$ 8	Cumberland .. $a-7+4 = 73$ 5
Warwickshire $a-2+5 = 60$ 6	Westmorland $a-1+6 = 60$ 8
Leicestershire $a-3+3 = 43$ 5	

MONMOUTH AND WALES, &c.

Monmouth $a-4+3 = 42$ 8	Flint $a-1+1 = 15$ 6
Glamorgan $a-5+5 = 62$ 8	Denbigh $a-4+1 = 34$ 5
Carmarthen ... $a-2+3 = 11$ 1·2	Merioneth $a-0+2 = 16$ 2
Pembroke $a-3+1 = 17$ 3	Carnarvon $a-5+2 = 46$ 8
Cardigan $a-1+0 = 14$ 2	Anglesey $a-0+0 = 11$ 4
Brecon $a-3+7 = 103$ 14	Isle of Man .. $a-1+2 = 9$ 4
Radnor $a-1+0 = 25$ 5	Channel Isles $a-2+2 = 18$ 2
Montgomery ... $a-0+1 = 25$ 3	

SCOTLAND.

Wigtown $a-1+0 = 9$ 2	Selkirk $a-0+0 = 8$ 3
Kirkcudbright $a-2+1 = 17$ 2	Peebles $a-0+1 = 20$ 6
Dumfries $a-1+4 = 28$ 3	Berwick $a-0+0 = 11$ 2
Roxburgh $a-2+2 = 14$ 2	Haddington ... $a-1+1 = 9$ 3

SCOTLAND—(continued).

Midlothian.....	$a-4+4=$	49	13	Forfar	$a-0+2=$	41	5
Linlithgow.....	$a-0+2=$	21	17	Kincardine	$a-0+0=$	15	4
Lanark.....	$a-1+2=$	46	5	Aberdeen.....	$a-3+2=$	31	1·6
Ayr	$a-1+4=$	36	3	Banff.....	$a-1+3=$	10	1·6
Renfrew	$a-0+3=$	39	16	Moray ..	$a-0+2=$	11	2
Dumbarton ...	$a-2+7=$	24	9	Nairn	$a-0+0=$	4	2·5
Stirling	$a-1+7=$	38	8	Inverness	$a-2+4=$	66	1·6
Bute	$a-0+1=$	6	3	Ross	$a-3+5=$	26	0·8
Argyll	$a-1+4=$	72	2	Sutherland	$a-1+1=$	12	0·6
Clackmannan	$a-0+1=$	5	9	Caithness	$a-2+0=$	10	1·4
Kinross.....	$a-0+0=$	4	5	Orkney.....	$a-1+0=$	11	3
Fife	$a-6+5=$	35	7	Shetland ..	$a-1+0=$	4	0·7
Perth	$a-5+14=$	62	2·5				

IRELAND.

Cork	$a-2+2=$	24	0·8	Louth ..	$a-0+1=$	6	1·9
Kerry	$a-1+0=$	9	0·5	Longford.....	$a-0+0=$	3	0·7
Waterford	$a-1+1=$	13	1·8	Galway.....	$a-0+1=$	8	0·3
Tipperary	$a-0+1=$	14	0·8	Roscommon ...	$a-0+0=$	2	0·2
Limerick.....	$a-0+1=$	8	0·8	Mayo.....	$a-1+2=$	9	0·4
Clare	$a-1+1=$	12	0·9	Sligo	$a-0+0=$	3	0·4
Wexford	$a-1+0=$	10	1·1	Leitrim.....	$a-0+0=$	4	0·7
Kilkenny	$a-1+1=$	9	1·1	Cavan	$a-1+0=$	4	0·5
Wicklow	$a-1+2=$	19	2	Fermanagh ..	$a-0+1=$	4	0·6
Carlow	$a-0+0=$	4	1·2	Monaghan	$a-0+0=$	2	0·4
Queen's County	$a-2+0=$	6	0·9	Armagh	$a-1+1=$	7	1·4
King's County	$a-1+1=$	7	0·9	Down	$a-4+1=$	9	0·9
Kildare.....	$a-1+0=$	6	0·9	Antrim.....	$a-1+1=$	17	1·4
Dublin	$a-3+5=$	34	10	Londonderry...	$a-0+0=$	5	0·6
Meath	$a-0+0=$	9	1·0	Tyrone	$a-0+0=$	5	0·4
Westmeath ...	$a-0+0=$	9	1·3	Donegal	$a-0+0=$	7	0·4

OBITUARY.

At first sight an Obituary list of no more than the average length may be a surprise to our readers this year. But the fact is that the great majority of Observers are beyond military age; had it been otherwise the dislocation of the system of observations could not have been so trivial as it is. Of the 92 Observers in the following list who died in the year ending June 30th, 1916, we have been able to find the age of 67, and the average age of these is 72, only 3 being less than 40 years of age. Nineteen whose names are given below were 80 years of age or over, and four of these (including two brothers) were 90 years old or more.

Observers deceased in 1915-1916 of 80 years of age or more.

Mr. John T. Southall	...	94 years	Sir A. Noble, Bt. K.C.B.	...	84 years
Mr. Henry Southall	...	90 "	Mr. Thomas Garnett	...	83 "
Mr. Thomas Wainwright	...	90 "	Rev. G. A. Robins	...	83 "
Col. M. F. Ward	...	90 "	Rt. Hon. Sir H. E. Roscoe,		
Mr. Henry Padwick, J.P.	...	87 "	F.R.S.	...	83 "
Mrs. Susanna Wilson	...	87 "	Dr. R. H. Scott, F.R.S.	...	83 "
Mr. S. Robinson, J.P., D.L.	...	86 "	Mr. W. H. Wheeler	...	83 "
Col. S. Malthus, C.B.	...	85 "	Capt. W. Enderby, J.P.	...	82 "
Mrs. F. A. Scott	...	85 "	Mr. Henry Haes	...	82 "
Rev. Canon J. H. Carr	...	84 "	Rev. Canon A. Atkinson	...	81 "

The number of long records is worthy of notice, and the names of the late Observers who left a personal record of 30 years or more is as follows :—

Records of Thirty years and upwards.

Mr. Henry Southall	...	58 years	Mr. T. Edwards	...	39 years
Mr. Stephen Robinson	...	50 "	Mr. R. M. Barrington	...	38 "
Col. J. A. Macdonald	...	46 "	Rev. H. M. Langdale	...	35 "
Mr. W. C. Punnett	...	45 "	Mr. J. Metson	...	35 "
Miss H. E. G. Wingfield	...	45 "	Mr. Henry Padwick	...	35 "
Mr. R. Lewis Lloyd	...	44 "	Rev. C. T. Salusbury	...	35 "
Mr. E. E. Glyde	...	*43 "	Mr. W. W. Kettlewell	...	34 "
Mr. Wm. P. Anson	...	43 "	Mr. T. P. Newman	...	34 "
Mr. G. G. Phillips	...	43 "	Mr. R. J. W. Purdy	...	32 "
Mr. W. H. Wheeler	...	42 "	Mr. J. C. Gill	...	31 "
Mr. G. S. Wilson	...	42 "	Rev. W. F. Rose	...	31 "
Mr. Henry Horncastle	...	40 "			

* Mr. E. E. Glyde observed for 5 more years in Canada

It is with real regret that we are obliged from considerations of space and economy to depart from the custom of giving a few words of personal tribute to the memory of those of our old fellow-workers regarding whom we have some biographical information; but we must acknowledge the very exceptional services of seven amongst them.

MR. RICHARD MANLIFFE BARRINGTON, of Fassaroe, Co. Wicklow, was one of the trustees of the British Rainfall Organization and had kept up for thirty-eight years one of the oldest rainfall records in Ireland. He was a man of wide interests and a fine enthusiast in the study of the natural history and botany of Ireland. He was the author of many papers on the subjects of his study. Of these, we need only mention here his admirable discussion entitled, "On the Drought of 1887, and some of its Effects on Irish Agriculture." This was a long and thorough study of the rainfall of an unprecedentedly dry summer and autumn on the harvests of each of the leading products, and is illustrated by two maps showing the proportional dearth of rainfall in different parts of the country.

In a letter, written in the summer of 1914, Mr. Barrington said :—

"My father and myself have been very successful farmers. He began general weather descriptions (not rainfall) in 1811—and rainfall in the forties. The earlier years, 1840—1850, have been lost. We have found these records very useful.

"The texture of every soil differs, and the degree of wetness and dryness—when sowing is of vital importance—so much so that before starting the men to work in the morning at certain seasons we always *look at the rain gauge first*. Then at haymaking and harvest to know the quantity of rain which has fallen in the night, often alters the entire working programme for the day. How any intelligent Observer can doubt the value of a rain gauge to a farmer is beyond my comprehension."

MR. FREDERICK GASTER, for many years in the Meteorological Office, was an early friend of Mr. G. J. Symons, and contributed several important papers to the early volumes of *British Rainfall*. In his later years, after retiring, he settled at Whitstable, and, as an Observer, resumed relations with the Rainfall Organization. For a fuller notice see *Symons's Meteorological Magazine* for January, 1916.

MR. JAMES BROWN JORDAN, whose name is best known in connection with his photographic sunshine recorder, and whose most important work was the modelling of relief maps, in which he was very highly skilled, was

always an enthusiastic meteorological Observer. He was an occasional contributor to *Symons's Meteorological Magazine*, and his records have appeared in these pages for 23 years.

DR. ROBERT HENRY SCOTT, F.R.S., the head of the Meteorological Office from 1867 to 1900, was an organizer of much experience and a successful weather forecaster. His keen and almost life-long interest in the affairs of the Royal Meteorological Society made him a familiar figure to all the Fellows, and the successive directors of the British Rainfall Organization received through him the assistance which the Meteorological Office has always rendered. A full biographical notice, with a characteristic portrait, appears in *Symons's Meteorological Magazine* for July, 1916.

MR. HENRY SOUTHALL, of The Graig, Ross, Herefordshire, was one of a remarkably long-lived family of West-of-England Quakers whose wide interests embraced rainfall observing. He died at the age of 90, and our Obituary list this year also contains the name of his elder brother, who was 94, while his sisters, the Misses Southall, who kept a long record of rainfall at Leominster, died only a few years ago at the ages of 88 and 84. Mr. Henry Southall not only kept a meteorological record for 58 years, but his singularly retentive memory enabled him to record the conditions of every year and almost every month since it began. He had the custom of paying an annual visit to Camden Square, and this he kept up almost to the last. I remember well on one occasion when he was referring to the weather conditions of past years and I expressed surprise at his powers of memory, that he asked me to take down any volume of *British Rainfall* at random and check his recollection of the Ross rainfall for the year. I did this in half a dozen cases and he was right each time to the last decimal.

MR. THOMAS WAINWRIGHT, of Barnstaple was for many years the Secretary of the North Devon Athenæum and the centre of the scientific and antiquarian activities of that important institution. He undertook the supervision of the rainfall observations in North Devon, and his kindly enthusiasm greatly extended the numbers of Observers in that district, and kept up the standard of the records. For the last ten years he was much concerned to find a successor to continue the work when the time came for him to cease his active part in it; but year by year he wrote

announcing one more year of personal activity. In one of his last letters written only two months before his death he said :—

“I have myself taken the observations daily, except on a very few occasions when my efficient deputy has done it for me. I am very wishful to be all right and able to take them on April 7th, as if I am then living I shall have completed ninety years of the consumption of the fruits of the Earth, and other enormities, a feat which few of your Observers are permitted to perform.”

We believe that this wish was gratified.

COLONEL MICHAEL FOSTER WARD was one of the few whose interest in the study of rainfall went back to the days before Mr. Symons commenced the publication of *British Rainfall*. Colonel Ward, then resident at Calne, undertook, in 1863, a series of very elaborate comparisons of rain gauges of diameters varying from one inch to two feet, and at elevations above the ground varying from nothing to 20 feet. These experiments were made in conjunction with Mr. Symons, who discussed the results in successive volumes of *British Rainfall*, and was largely guided by them in introducing the rules as to diameter and elevation which have done so much to bring uniformity into a study which at first threatened to be too uncontrolled even to become scientific. Colonel Ward said that Mr. Symons first saw the pattern of rain gauge now known as the Snowdon in his garden at Calne. It had been devised by a local chemist named Rowden who had assisted Colonel Ward in making the experimental instruments, and it was adopted for the series of observations on the slopes of Snowdon, from which the pattern received its distinctive name.

From these early days onward, Colonel Ward never ceased to show a warm interest in the work of the Rainfall Organization, the last kindly messages coming after his release from Germany, where he had been staying at the outbreak of the war, and whence he returned only a few months before his death.

Observers Deceased to June 30th, 1916.

Small Capitals designate Observers with 30 years records.

Anstruther-Ritchie, Mrs. Jane	...	Hope Lodge, Moffat.
Arkell, W., Cobbett ...	...	The Close, Fairford.
Atkinson, Rev. Canon Arthur	...	Northop, Flints.
Bache, Rev. Kentish ...	...	Walford Vicarage, Herefordshire.

Observers Deceased to June 30th, 1916—(continued).

*BARRINGTON, RICHARD MANLIFFE	Fassaroe, Bray.
Bartley, Capt. Stanhope Cole	Shovelstrode, Sussex.
Benzie, Simpson	Cowes, I. of Wight.
Bower, Thomas, C.E.	West Hartlepool.
Bowstead, Charles James	Hyde Grange, Chalford.
Calvert, Frank	Ashton Park, Preston.
Carr, Rev. Canon James Haslewood	Canterbury.
Casella, Charles Frederick	London.
Chambers, G. F.	Lethen Grange, Sydenham.
Ching, Capt. Lawrence, R.N.	Launceston.
Clive, General Edward Henry	Perrystone Court.
Croft, Capt. Sir Herbert Archer, Bt.	Lugwardine Court.
Duncan, J. W.	Hendon.
Dyack, William, C.E.	Aberdeen.
EDWARDS, T.	Royal Gardens, Windsor.
Enderby, Capt. William, D.L., J.P.	Munderfield Harold.
Esdaile, Rev. William	Burley, Ringwood.
Farmiloe, Edgar	Arkwright Road, Hampstead.
Fletcher, Ralph, J.P.	Crow Howe, Ambleside.
Gale, Thomas	Teddington.
Garnett, Thomas	Oakwood, Bingley.
Garnons-Williams, Lt.-Col. Richard D.	Waunderwen, Hay.
*Gaster, Frederick	Whitstable.
GILL, JOHN CHARLES, C.E.	Peterborough.
Gillett, Rev. Hugh Hodgson...	Thornbury House, Glos.
GLYDE, EDWIN EDSALL	Tavistock.
Hadow, Rev. George Randolph	Wylze Rectory, Wilts.
Haes, Henry	Caterham Valley.
Harper, Peter	Duthie Park, Aberdeen.
Henn, Francis Blackburne	Paradise, Co. Clare.
Hickman, Major Stopford Cosby	Fenloe, Newmarket-on-Fergus.
Hill, Rev. Thomas Prince	Abinger Rectory, Dorking.
HORNCastle, HENRY	Horsell, Woking.
I'ANSON, WILLIAM, C.E.	Saltburn by-the-Sea.
*Jordan, James Brown...	Hayfield, Hythe.
Ker, Ronald Scott	Glenreasdell Mains, Argyll.
KETTLEWELL, WILLIAM WILDMAN	Harptree Court, Somerset.
LANGDALE, REV. H. MARMADUKE...	Compton House, Petersfield.
LLOYD, ROBERT LEWIS, J.P., D.L.	Somerset Place, Bath.
MACDONALD, COL. J. ANDREW, C.B.	Betley Hall, Crewe.
McHardy, David, J.P.	Cranford House, Aberdeen.
Malthus, Col. Sydenham, C.B.	Dalton Hill, Albury.
Meade, Thomas de Courcy, C.E.	City Surveyor, Manchester.
METSON, J.	Anchor Brewery, Mile End.
Miller, Thomas Horrocks	Singleton Park, Lancs.

* See Biographical Note *ante*.

Observers Deceased to June 30th, 1916--(continued).

Mitchell, George	...	...	East Grinstead.
Mitchell-Dawson, Alexander	...	...	Shu-le-crow House, Keswick.
NEWMAN, THOMAS PRICHARD	...	...	Haslemere.
Noble, Sir Andrew, Bt., K.C.B., F.R.S.	...	...	Ardkinglas, Argyll.
Oliver, George, M.D.	...	...	Riversleigh, Farnham.
PADWICK, HENRY, J.P.	...	...	Manor House, Horsham,
Patterson, T. M.	...	...	Littlebourne House, Dover.
PHILLIPS, GEORGE GRIFFITH	...	...	Tickhill, Yorkshire.
Pritchard, J. B.	...	...	Galltfaenan, Trefnant.
PUNNETT, WILLIAM CORNWALL	...	...	Beech Hurst, Tonbridge.
PURDY, ROBERT JOHN WOODS	...	...	Aylsham, Norfolk.
Rice, Lieut. Gerald Spring	...	...	Mell Fell House, Cumberland.
Robins, Rev. George Augustus	...	...	Southborough, Kent.
ROBINSON, STEPHEN, J.P., D.L.	...	...	Lynhales, Kington.
Roden, Right Hon. Earl of	...	...	Tullymore Park, County Down.
Roscoe, Rt. Hon. Sir Henry E., F.R.S.	...	...	West Horsley, Leatherhead.
ROSE, REV. WILLIAM FRANCIS, M.A.	...	...	Hutton, Weston-Super-Mare.
SALUSBURY, REV. CHAS. THELWAL...	...	...	Tredunnoc, Mon.
Sandwich, The Earl of	...	...	Hinchbrooke, Hunts.
Saville, Robert William Smith, C.E.	...	...	Darwen, Lanes.
Scott, Col. Charles E. Southouse	...	...	Draycott House, Worcester.
Scott, Mrs. Frances Augusta	...	...	Pembroke Lodge, Bray.
Scott, Mason T.	...	...	Brunstock, Carlisle.
*SCOTT, ROBERT HENRY, D.SC., F.R.S.	...	...	London.
Sedgwick, Roger B.	...	...	Froyle, Hants.
Severne, Mrs. Florence	...	...	Wallop, Shrewsbury.
Shepherd-Cross, Major Herbert	...	...	Hamels Park, Buntingford.
Simeon, Sir Edmund Charles, Bt.	...	...	Swainston, Isle of Wight.
Simpson, Mrs. Florence Thomasina	...	...	Harrogate.
*SOUTHALL, HENRY	...	...	The Graig, Ross-on-Wye.
Southall, John Tertius	...	...	Parkfields, Ross-on-Wye.
Stanton, Miss Emily R.	...	...	Upfield, Stroud.
Thomas, Robert Edmund Skyring	...	...	Wormington Grange, Glos.
*Wainwright, Thomas	...	...	Barnstaple.
Walker, W. A.	...	...	Higham, Kent.
*Ward, Col. Michael Foster	...	...	Upton Park, Slough.
WHEELER, WILLIAM HENRY, C.E.	...	...	Boston, Lincs.
Wilson, Countenay Freeman	...	...	Bitterne, Hants.
Wilson, Mrs. Susanna	...	...	Calder Mount, Garstang.
WILSON, G. S.	...	...	Broughton Grange, Cockermouth.
WINGFIELD, MISS H. E. GRACE	...	...	Market Overton.
Woodhouse, Rev. Thomas Edward	...	...	Whitwell, Oakham.
Woodrow, John	...	...	Coats Observatory, Paisley.

BRITISH RAINFALL 1915.

PART II.

RAINFALL AND METEOROLOGY

OF

1915.

INTRODUCTION TO PART II.

Two reasons have led us to alter the scope of Part II. Of these the first is the imperative necessity of reducing the size of the annual volume this year, which could only be done by leaving something out. The second was that, on the whole, least damage to the permanent value of the volume would be done by omitting the Observers' Remarks on the Weather. Of course these will be greatly missed by many readers ; if it were not so we should be much disappointed, for we have from the beginning held them as of two-fold importance. They were important for their intrinsic interest as a record of weather by keen Observers, and they were of importance also in giving a sense of joint authorship to the Observers, who thereby were led to take a more personal interest in the work. We have endeavoured to mitigate the loss under the first head by employing the notes which have been sent by Observers in the various discussions which follow, and one of the sections—that on Heavy Rains in Short Periods—is almost entirely drawn from them. It must be remembered also that the view of the weather of the year as set out in the Remarks was unsystematic and irregular, and even when the Remarks were of high value and expressed in a form admitting of ready comparisons, they, to a large extent, overlapped the fuller and more exact publications of the Meteorological Office. By ceasing to publish these Remarks we accentuate the unique character of *British Rainfall* as a compendium of a single branch of knowledge, at once meteorological and geographical in substance and national in scope. We trust that no one will be led by the change to ignore the fundamental fact that the value of our work depends on the purely voluntary co-operation of thousands of independent Observers whose names are given in Part III.

The section on Evaporation and Percolation formerly given in Part I. has been removed this year to its more natural position at the beginning of Part II.

EVAPORATION AND PERCOLATION IN 1915.

ONE new record of evaporation is added this year from a standard tank established at Lower Laithe Reservoir, near Haworth, by the Keighley Corporation. We have, however, failed to receive the record from Edinburgh, and also lose that at Billingshurst, and the temporary record from a standard tank at Southport. Of the percolation records we are obliged to omit that taken at Timsbury, where the gauge was found to have been out of order since November, 1914, so that the records during November and December, 1914, to which special attention was drawn in *British Rainfall, 1914*, were inaccurate.

Evaporation at Camden Square, 1885-1915.

	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
1908.	·05	·27	·56	1·32	2·23	3·77	2·75	2·47	1·25	·48	·29	·14	15·58
1909.	·14	·30	·30	1·85	2·93	1·70	2·60	2·23	·84	·76	·17	·16	13·98
1910.	·22	·17	·80	1·43	2·52	2·57	2·00	2·12	1·42	·76	·19	·10	14·30
1911.	·15	·32	·59	1·77	2·58	3·34	4·60	3·19	1·96	·64	·37	·02	19·53
1912.	·24	·16	·79	2·34	2·44	2·49	2·55	1·69	1·41	·39	·33	·12	14·95
1913.	·10	·32	·77	1·25	2·49	3·13	2·15	2·09	1·07	·61	·36	·32	14·66
1914.	·09	·24	·52	1·84	2·56	2·93	2·72	1·99	1·68	·70	·28	·05	15·60
Average	·11	·26	·67	1·55	2·38	2·90	3·07	2·35	1·37	·62	·24	·10	15·62
1915.	·11	·13	·66	1·65	2·90	3·15	2·50	1·76	1·61	·56	·25	c·03	15·25
Diff.	·00	—·13	—·01	+·10	+·52	+·25	—·57	—·59	+·24	—·06	+·01	—·13	—·37

NOTE.—c indicates condensation.

*Table of Rainfall, Percolation and Calculated Evaporation at Park Hill House,
Stanhope Road, Croydon. Mr. Baldwin Latham, M.Inst.C.E.*

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

1915	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.	
		Percolation.	Calculated Evaporation.	Percolation.	Calculated Evaporation.
	in.	in.	in.	in.	in.
January	4·16	4·02	·14	4·00	·16
February	5·02	4·31	·71	4·30	·72
March	·67	·57	·10	·36	·31
April	1·59	·33	1·26	·17	1·42
May	3·11	·91	2·20	·21	2·90
June	·57	·00	·57	·03	·54
July	3·73	·00	3·73	·02	3·71
August	2·62	·00	2·62	·00	2·62
September	2·23	·00	2·23	·26	1·97
October	2·54	·24	2·30	·16	2·38
November	2·45	2·24	·21	2·09	·36
December	5·76	5·66	·10	5·32	·44
Total	34·45	18·28	16·17	16·92	17·53

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

1915	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.	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.	°	°
January	·36	·05	35·8	·80	36·7	35·5
February	·36	·06	37·3	1·18	38·5	36·6
March	·88	·01	39·6	1·62	40·4	36·9
April	1·78	·00	47·5	3·77	52·3	40·1
May	3·38	·00	59·1	6·28	64·4	46·8
June	3·86	·00	64·3	7·02	68·8	51·9
July	3·59	·00	65·3	6·31	71·2	55·1
August	2·47	·00	64·9	4·48	68·8	56·4
September	2·24	·00	60·5	4·62	64·8	52·1
October	·90	·09	50·3	1·66	50·5	46·8
November	·47	·04	38·2	·87	36·9	34·7
December	·27	·38	40·8	1·15	41·4	41·0
Totals	20·56	·63	...	39·76	...	...
Means .....	...	...	50·3	...	52·9	44·5

Table of Rainfall and Percolation at the South Hants Water Company's Pumping Station, at Twyford, Hants. Mr. D. Kitchingman, M.Inst.C.E.

NOTE.—The percolation gauge is covered with a natural growth of grass.
Size of percolation gauge 3 ft. square and 3 ft. deep.

1915.	TWYFORD.		
	Rainfall. Level of Gauge 138·72 ft. above O.D.	Percolation Gauge. <i>Chalk.</i> Level of Gauge 137·49 ft. above O.D.	
		Percolation.	Calculated Evaporation.
	in.	in.	in.
January	4·42	4·45	C ·03
February	6·03	5·06	·97
March.....	1·13	·89	·24
April	1·12	·53	·59
May.....	3·47	1·36	2·11
June	·91	·00	·91
July.....	5·81	·26	5·55
August	1·71	·17	1·54
September	2·58	·00	2·58
October	3·79	2·42	1·37
November	2·79	2·28	·51
December	8·13	8·39	C ·26
Total	41·89	25·81	16·08

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

660 feet above Sea Level. Gauge 3 ft. × 3 ft. × 3 ft.

1915	Rainfall.	Percolation.	Calculated Evaporation.
	in.	in.	in.
January	5·26	5·13	·13
February	6·57	7·49	C ·92
March.....	·76	·94	C ·18
April	1·42	·57	·85
May	4·00	1·87	2·13
June	1·49	·00	1·49
July	4·88	·00	4·88
August	3·13	1·08	2·05
September.....	2·17	·06	2·11
October	4·56	1·79	2·77
November	3·40	3·35	·05
December	8·39	9·05	C ·66
Total	46·03	31·33	14·70

NOTE.—C indicates condensation

*Table of Rainfall, Percolation and Calculated Evaporation at Rothamsted Experimental Station, Harpenden.
Mr. E. J. Russell, D.Sc.*

Altitude 420 feet.

1915.	Rainfall.	PERCOLATION AND CALCULATED EVAPORATION THROUGH SOIL.					
		20 in. deep.		40 in. deep.		60 in. deep.	
		Percolation.	Calculated Evaporation.	Percolation.	Calculated Evaporation.	Percolation.	Calculated Evaporation.
		in.	in.	in.	in.	in.	in.
January	3.78	3.93	C .15	3.94	C .16	3.92	C .14
February	4.20	3.94	.26	3.84	.36	3.83	.37
March	1.19	.62	.57	.79	.40	.79	.40
April	1.09	.13	.96	.20	.89	.19	.90
May	2.34	1.22	1.12	1.28	1.06	1.28	1.06
June	1.73	.36	1.37	.36	1.37	.34	1.39
July	4.39	1.84	2.55	2.01	2.38	1.83	2.56
August	2.39	1.17	1.22	1.24	1.15	1.15	1.24
September	2.30	.83	1.47	.78	1.52	.74	1.56
October	2.37	1.45	.92	1.30	1.07	1.20	1.17
November	2.16	1.93	.23	2.11	.05	1.92	.24
December	5.15	5.32	C .17	5.38	C .23	5.23	C .08
Total	33.09	22.74	10.35	23.23	9.86	22.42	10.67

NOTE.—C indicates condensation.

*Table of Rainfall, Percolation and Calculated Evaporation at Rosebank,
Berkhamsted, Herts. Mr. E. Mawley, F.R.Met.Soc.*

401 feet above Sea Level.

Gauge 3 ft. × 3 ft. × 2 ft. 6 in. deep.

1915.	Rainfall.	Percolation and Evaporation. (Soil—disintegrated clay and flints.)			
		Sub-soil Gauge. (Covered with short grass).		Surface-soil Gauge. (Without vegetation).	
		Percolation.	Calculated Evaporation.	Percolation.	Calculated Evaporation.
	in.	in.	in.	in.	in.
January	3·89	3·08	·81	4·39	C ·50
February	4·77	3·27	1·50	4·97	C ·20
March	1·35	·93	·42	1·17	·18
April	1·10	·33	·77	·36	·74
May	2·37	·15	2·22	1·01	1·36
June	·46	·00	·46	·00	·46
July	4·20	·00	4·20	1·78	2·42
August	2·28	·03	2·25	1·15	1·13
September	2·39	·26	2·13	1·11	1·28
October	2·41	·93	1·48	1·37	1·04
November	2·20	2·30	C ·10	2·23	C ·03
December	5·65	5·43	·22	6·19	C ·54
Total	33·07	16·71	16·36	25·73	7·34

NOTE.—c indicates condensation.

*Table of Rainfall, Percolation and Calculated Evaporation compared
with Evaporation from a Free Water Surface at Harlow Hill,
Harrogate. Harrogate Corporation.*

Rain gauge and percolation gauge 589 feet above O.D. Gauge 3 ft. × 3 ft. × 3 ft.

1915.	Rainfall.	Percolation.	Calculated Evaporation.	Evaporation from Free Water Surface.
	in.	in.	in.	in.
January	3·99	2·76	1·23	·58
February	3·35	2·69	·66	1·06
March	·73	·62	·11	·97
April	1·29	·14	1·15	2·08
May	1·55	·05	1·50	2·86
June	·75	·05	·70	3·26
July	3·78	·08	3·70	3·12
August	2·26	·00	2·26	2·64
September	·77	·00	·77	2·13
October	1·22	·00	1·22	·75
November	1·52	·18	1·34	·58
December	6·49	3·45	3·04	·14
Total	27·70	10·02	17·68	20·17

EVAPORATION IN 1915.

County Station	London, Camden Square.	Surrey, Croydon, Park Hill Ho. 51° 22' 12" N. 0 5 32 W. 264 ft. Baldwin Latham, C.E.	Surrey, New Malden. 51° 24' N. 0 16 W. 40 ft. W. J. Carter.	Sussex, Isfield Place 50° 56' 50" N. 0 3 40 E. 41 ft. Major H. King.	Hampshire, Otterbourne 51° 0' 28" N. 1 19 55 W. 112 ft. E. C. Rodda, C.E.
Latitude	51° 32' 20" N.	51° 22' 12" N.	51° 24' N.	50° 56' 50" N.	51° 0' 28" N.
Longitude	0 8 10 W.	0 5 32 W.	0 16 W.	0 3 40 E.	1 19 55 W.
Altitude	111 ft.	264 ft.	40 ft.	41 ft.	112 ft.
Observer	H. R. Mill, D.Sc.	Baldwin Latham, C.E.	W. J. Carter.	Major H. King.	E. C. Rodda, C.E.
Size of tank	6 ft. x 6 ft.	1 ft. diameter	8 in. diameter	4 ft. x 4 ft.	6 ft. x 6 ft.
Capacity (galls.)	450	5	...	250	450
Height of lip above ground }	3 inches	4 in. above water	3 in. above water	3 inches	3 inches
January	in. .11	in. .31	in. .02	in. .11	in. .36
February .....	.13	.30	.12	.46	.33
March .....	.66	.87	.35	.85	1.10
April	1.65	1.78	1.10	1.65	2.06
May	2.90	3.38	3.00	2.91	3.31
June	3.15	3.86	2.69	3.22	3.56
July	2.50	3.59	2.48	3.24	3.61
August	1.76	2.47	2.00	2.59	2.76
September	1.61	2.24	1.37	2.11	2.18
October .....	.56	.81	.76	1.20	.85
November .....	.25	.43	.29	.53	.36
December	C .03	C .11	.09	.50	.16
Year, 1915	15.25	19.93	14.27	19.37	20.64
Average, 1908-1915 }	15.48	19.89	...	19.47	19.20
Difference	— .23	+ .04	...	— .10	+ 1.44
Year, 1915	32.18	34.45	30.88	38.97	41.46
Average, 1908-1915 }	26.10	29.75	26.54	32.40	31.97
Difference	+ 6.08	+ 4.70	+ 4.34	+ 6.57	+ 9.49

NOTE.—C indicates condensation.

EVAPORATION IN 1915—(continued).

County Station	Norfolk, Worstead	Devon, Torquay W.W., Kennick	Lincoln, Revesby Water Works	Lancashire, Southport, Hesketh Park	Yorkshire, Ardsley Reservoir No. 1,
Latitude.....	52° 47' 10" N.	50° 38' 30" N.	53° 9' N.	53° 39' 24" N.	53° 43' 10" N.
Longitude.....	1 25 30 E.	3 41 20 W.	0 3 W.	2 59 3 W.	1 33 20 W.
Altitude.....	55	835 ft.	130 ft.	37 ft.	395 ft.
Observer.....	R. J. Cross.	S. C. Chapman, C.E.	J. Shaw.	J. Baxendell.	C. C. Smith, C.E.
Size of Tank.....	2 ft. 6 in. × 2 ft. 6 in.	6 ft. × 6 ft.	6 ft. × 6 ft.	3 ft. × 3 ft.	6 ft. × 6 ft.
Capacity (galls.).....	...	450	450	112	450
Height of lip above ground }.....	4 inches	3 inches	2 inches	3 inches	3 inches
January.....	in. ·30	in. ·06	in. ·07	in. ·10	in. ·17
February.....	·25	·24	·24	·04	·23
March.....	·84	1·25	·43	·66	·91
April.....	1·60	2·02	1·42	1·54	2·02
May.....	2·91	3·32	2·52	2·99	2·75
June.....	3·67	3·06	2·88	3·17	3·25
July.....	3·20	3·03	2·36	2·99	2·87
August.....	2·34	2·62	1·95	2·28	2·28
September.....	1·88	1·69	1·79	1·61	1·80
October.....	·71	·77	·78	·51	·57
November.....	·55	·41	·17	·21	·30
December.....	·28	C ·10	·05	C ·13	C ·03
Year, 1915.....	18·53	18·37	14·66	15·77	17·12
Average, 1908-1915 }.....	...	18·79	14·97	...	...
Difference.....	...	-- ·42	-- ·31	...	...
Year, 1915.....	30·98	45·22	27·56	32·05	27·44
Average, 1908-1915 }.....	28·29	44·60	25·59	32·98	25·50
Difference.....	+2·69	+ ·62	+1·97	-- ·93	+1·94

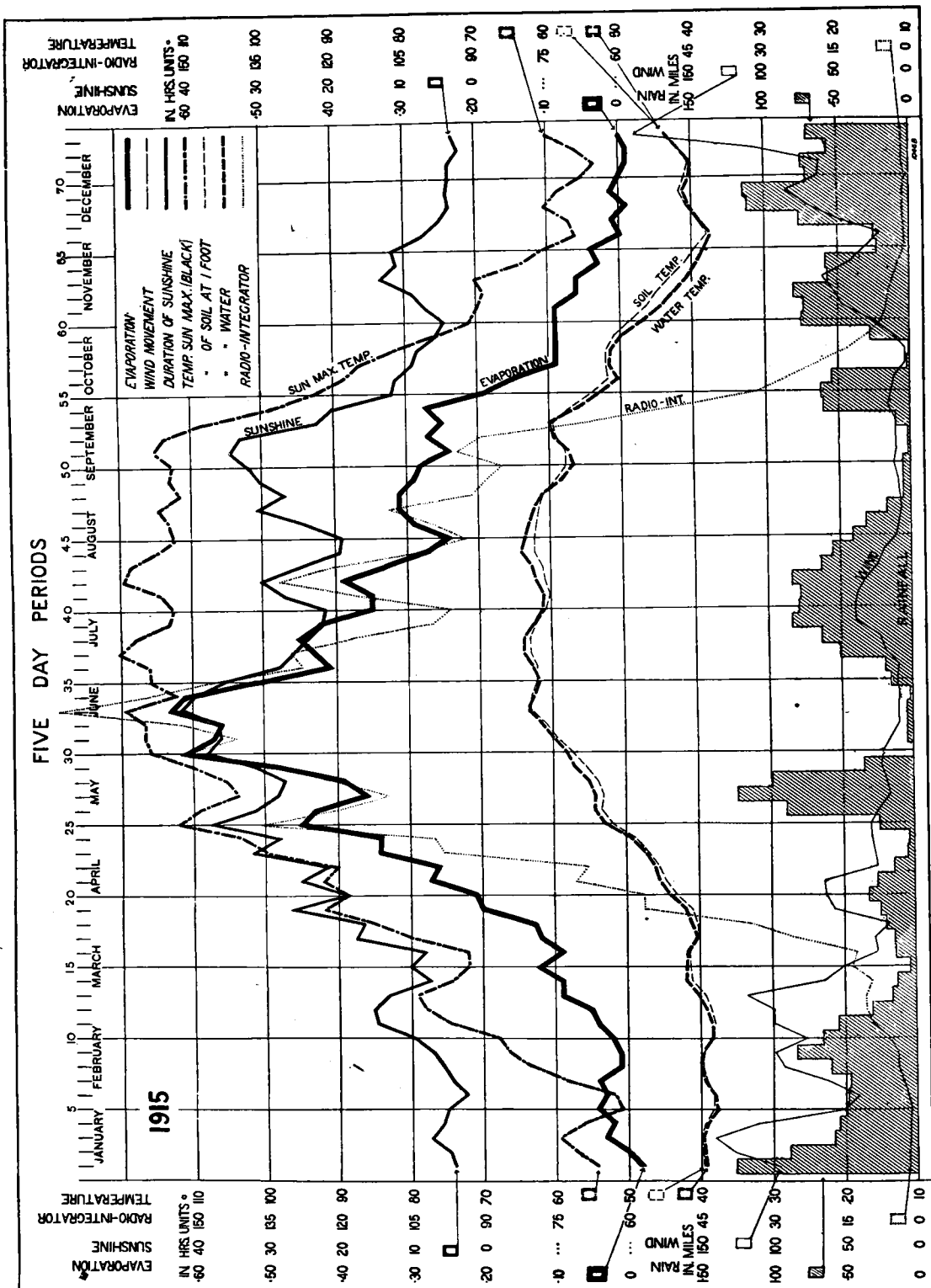
NOTE. —C indicates condensation.

EVAPORATION IN 1915—(continued).

County Station	Yorkshire, Ardsley, Reservoir No. 2, 53° 43' 0" N. 1 33 30 W. 326 ft. C. C. Smith, C.E. 6 ft. × 6 ft. 450 3 inches	Yorkshire, Haworth, Lower Laithe Res. 53° 49' 39" N. 1 58 35 W. 772 ft. M. R. Barnett, C.E. 6 ft. × 6 ft. 450 2½ in. to 9 in.	Yorkshire, Harrogate, Harlow Hill Res. 53° 58' 30" N. 1 33 30 W. 589 ft. A. S. West, C.E. 6 ft. × 6 ft. 450 flush	Peebles, Talla Water, Victoria Lodge 55° 29' 41" N. 3 25 2 W. 904 ft. Leslie & Reid, C.E. 6 ft. × 6 ft. 450 3 inches	Mean of Fourteen Records.
Latitude	in. .05	in. .20	in. .58	in. .36	in. .19
Longitude .....	.12	.17	1.06	.73	.32
Altitude .....	.74	.59	.97	.71	.78
Observer	1.80	1.67	2.08	1.67	1.72
Size of tank	2.75	2.38	2.86	3.26	2.95
Capacity (galls.)	3.02	2.91	3.26	3.80	3.25
Height of lip } above ground }	2.71	2.52	3.12	2.30	2.89
January	2.24	1.97	2.64	2.03	2.28
February	1.78	1.67	2.13	1.79	1.83
March .....	.53	.39	.75	.81	.71
April .....	.33	.17	.58	.40	.35
May	C .03	C .27	.14	.33	.06
June					
July					
August					
September					
October					
November					
December					
Year, 1915...	16.04	14.37	20.17	18.19	17.33
Average, } 1908-1915 }	...	..	18.88	17.70	...
Difference ...	...	...	+1.29	+ .49	...
Year, 1915...	28.15	45.09	27.70	41.34	34.53
Average, } 1908-1915 }	...	...	28.96	47.16	...
Difference ...	...	...	-1.26	-5.82	...

NOTE.—C indicates condensation.

EVAPORATION FROM A WATER SURFACE AND OTHER METEOROLOGICAL PHENOMENA.



METEOROLOGICAL OBSERVATIONS AT CAMDEN SQUARE, LONDON, IN 1915.

SHADE TEMPERATURE.

1915.	MEAN DAILY.				MAXIMUM DAILY.				MINIMUM DAILY.					
	1915.	Diff. from Average.	Mean.	Diff. from Average.	Highest Reading.	Date.	Lowest Reading.	Date.	Diff. from Average.	Mean.	Highest Reading.	Date.	Lowest Reading.	Date.
January	39.7	+1.2	44.1	+0.8	53.3	13	36.5	22	+1.8	35.6	46.0	15	26.7	23
February	40.4	+0.7	46.7	+1.2	51.9	4	39.9	24	0.0	34.7	45.1	4	24.7	25
March	42.0	-0.1	49.0	-1.0	58.5	14	40.0	18	+0.6	36.0	47.0	5	26.1	29
April	48.1	0.0	57.6	-0.3	72.8	30	47.4	13	-0.6	39.1	48.2	20	31.2	1
May	55.6	+1.6	67.4	+2.8	82.0	26	47.9	13	+0.9	45.5	54.0	22	36.3	15
June	61.1	+1.0	72.9	+2.1	88.9	8	61.4	23	+0.3	51.0	61.1	9	41.8	1
July	62.0	-1.5	71.3	-3.0	86.2	4	62.6	22	-0.8	53.4	62.0	4	48.0	13 & 18
August	62.5	+0.2	72.2	-0.5	78.3	1	63.4	29	+1.2	54.6	62.2	8	43.8	30
September	58.3	+0.6	69.2	+1.8	80.0	16	54.7	30	+1.2	49.9	63.3	16	35.6	30
October	49.8	-0.3	57.4	-0.3	68.0	12	48.4	27	+0.3	44.0	54.7	13	34.8	1
November	39.2	-4.3	45.3	-3.8	56.6	12	37.0	28	-4.5	33.7	46.0	1	25.6	27
December	43.9	+4.2	48.7	+4.4	56.8	10	36.3	12	+3.9	38.9	47.0	31	27.6	13
YEAR	50.2	+0.3	58.5	+0.4	88.9	June 8	36.3	Dec. 12	+0.3	43.0	63.3	Sept. 16	24.7	Feb. 25

These Tables of meteorological observations are compiled from the readings taken at 9 a.m. and 9 p.m. The average, when quoted, is in every case for the 50 years 1860-1909. The rainfall is from the 8-inch rain gauge of the Meteorological Office pattern; the radiation temperature from a black-bulb maximum thermometer *in vacuo* at a height of 4 feet above the ground, and from a link-bulb minimum thermometer laid on short

METEOROLOGICAL OBSERVATIONS AT CAMDEN SQUARE, LONDON, IN 1915.

1915.	RAINFALL.						Evapor- ation.	RADIATION TEMPERATURE.		Radio- Integra- tor.	SUNSHINE.		EARTH TEMPERATURE.		
	Total duration. hrs.	Max. dura- tion in oneday.	Total amount. in.	Diff. from Average.	Max. amount in one day.	No. of Rain Days.		Mean max. in Sun. Black bulb.	Mean min. on Grass.		Total. duration.	Max. in one day.	Mean at 1 foot.	Mean at 4 feet.	Mean at 10 feet.
January.....	86.5	10.2	4.12	+2.12	.93	19	in.	54.1	31.6	Units.	hrs.	29.9	39.1	43.8	49.7
February.....	67.2	10.2	3.42	+1.82	.45	18	.13	68.9	30.3	35.0	54.5	6.1	39.0	42.5	48.0
March.....	34.8	9.2	.86	—	.25	12	.66	77.2	31.4	106.6	80.0	8.2	40.5	42.6	46.9
April.....	31.8	8.6	1.13	—	.49	9	1.65	94.1	34.2	462.9	151.2	11.7	44.9	44.0	46.2
May.....	52.7	19.3	3.72	+1.87	1.37	8	2.90	109.9	42.3	796.2	201.0	12.7	54.5	49.2	46.6
June.....	8.8	3.3	.69	—1.63	.17	8	3.15	116.2	48.2	871.3	206.2	11.9	61.8	55.0	48.5
July.....	44.7	9.9	4.10	+1.74	.79	15	2.50	116.3	51.0	750.1	162.7	9.9	61.5	57.6	50.8
August.....	22.3	6.4	2.27	— .08	.54	15	1.76	113.2	52.4	595.3	148.4	10.3	61.8	58.1	52.3
September..	20.0	15.2	1.86	— .33	1.51	5	1.61	109.2	46.7	442.8	161.4	9.6	57.9	57.4	53.2
October.....	54.5	15.4	2.06	— .57	.99	12	.56	79.7	40.3	89.7	48.5	7.5	50.4	54.0	53.2
November...	47.4	13.7	2.31	— .03	.69	9	.25	63.2	31.1	13.0	59.9	5.5	40.8	48.3	52.3
December...	98.2	16.5	5.64	+3.51	.72	22	C .03	57.1	35.1	8.2	18.9	3.8	41.6	44.4	50.3
YEAR.....	568.9	19.3	32.18	+7.04	1.51	152	15.25	88.3	39.6	4181.6	1322.6	12.7	49.5	49.7	49.8

grass and freely exposed to the sky. The radio-integrator was described in *British Rainfall, 1907*, p. 44. Earth temperature is taken by spirit thermometers suspended in iron tubes of 1 inch internal diameter driven into the soil. They are read once daily at 9 a.m. The shade temperature is from thermometers on a Glaisher stand, the mean daily temperature being the mean of the maximum, minimum, 9 a.m., and 9 p.m. readings.

NOTE.—C indicates condensation.

THE DISTRIBUTION OF RAINFALL IN TIME.

It is not possible, nor, if it were possible, would it be desirable, to draw a hard and fast distinction between the study of the Distribution of Rainfall in Time and the Distribution of Rainfall in Space. The two aspects overlap at many points so that to some extent time and space relationships must be considered together; but for the purpose of an elementary grouping of the facts relating to the rainfall of each year, which the records sent to us enable us to discuss, it is convenient to classify under the heading at the beginning of this section the data in which the time element predominates. These include the Frequency of Rainfall, shown by the number of Rain Days, the occurrence of dry and wet spells and their duration and intensity, the Duration of Rainfall in hours, and lastly the records of Heavy Rainfalls in Short Periods of Time. Under the heading of the Distribution of Rainfall in Space are included the sections dealing with the distribution of rainfall over the land during prescribed periods of time, such as the rainfall day, the calendar month, certain groups of months, and the whole year.

For the purpose of giving an account of the distribution of rainfall in time it is impossible for obvious reasons to analyze the whole of the five thousand or more records which are available for the purpose. We therefore select one hundred records for special consideration, care being taken to choose those of the highest degree of accuracy.

The records used are from places distributed as equally as possible over the country, the distance between adjacent stations being, on the average, about fifty miles. This ensures the equal representation of all parts of the country, and hence in the event of any change being made in the list of selected stations from year to year, the comparability of the general results is not impaired. The results given in the tables of rain days, droughts and rain spells, and the general values quoted, are based entirely on the records from these 100 stations, but the information in the text, and in some cases that in the maps, is amplified by reference to other records where greater detail is desirable. Thus the map showing the distribution of rain days in 1915 is drawn from the records at about

1000 stations, so that the lines of equal frequency can be drawn with a much greater degree of detail than could be obtained from 100 records. At the same time it is hardly possible to delineate the areas affected by droughts and rain spells with a high degree of minuteness, and the small sketch maps given must be regarded rather as in the nature of diagrams.

It should be borne in mind that in dealing with droughts and rain spells we are not able to take account of any smaller division of time than the rainfall day, that is the period of twenty-four hours beginning and ending at 9 a.m. The only records which deal with any fraction of this period are those of the duration of rainfall which can be measured accurately only by the use of self-recording rain gauges, and of heavy falls of rain in short periods, which may be observed either by means of self-recording gauges, or by special additional readings of the ordinary rain gauge at other hours than 9 a.m.

RAIN DAYS IN 1915.

THE definition of a "Rain Day" as a day upon which .01 inch or more of precipitation is entered in the rainfall register appears at first sight an extremely simple one, and it was probably on account of this apparent simplicity that Mr. Symons was led to adopt it. In actual practice, however, the determination of the number of such days at different stations on a perfectly uniform plan is found to be a matter of considerable difficulty. The quantity of water which represents the minimum required to constitute a rain day is, in the standard rain gauge, so small that the so-called "personal error" is relatively large, and a slight displacement of the lowest graduation mark of the measuring glass which would be of no real importance at any other point makes an appreciable difference in the number of days included. Only recently a case has been brought to our notice in which an Observer who had frequently been puzzled by the large number of rain days recorded at his station in comparison with others, was compelled by an accident to obtain a new measuring glass. On testing the remaining fragment of the old glass by means of the new one it was found that the .01 inch graduation measured exactly .005 inch, thus accounting completely for the discrepancy.

TABLE I.—*Number of Rain Days in 1915.*

STATION	COUNTY.	Jan.	Feb.	Mar.	Apr.	May.	June	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Total.	Total Rain-fall.	Amount per Rain Day
ENGLAND & WALES.																
St. Pancras, Camden Square ...	London	19	18	12	9	8	8	15	15	5	12	9	22	152	32.18	in. .21
Tenterden, View Tower	Kent	21	19	12	12	9	6	16	12	9	17	14	23	170	34.58	in. .20
Brighton, Ditchling Road	Sussex	21	21	10	12	10	9	12	13	12	12	11	26	169	42.91	in. .25
Sandown, Free Library	Hampshire	19	20	9	13	10	7	13	14	10	16	13	24	168	42.02	in. .25
Petersfield, Ditcham Park	"	20	20	9	10	14	9	16	16	11	13	10	25	173	48.65	in. .28
Upton.....	Berkshire	20	19	9	10	10	7	15	16	9	9	9	26	159	33.26	in. .21
Newport Pagnell, The Croft ..	Buckinghamshire	21	17	14	8	9	7	18	15	9	10	9	25	162	27.80	in. .17
Cambridge, Botanic Gardens ...	Cambridgeshire	19	18	13	6	8	9	18	13	6	8	12	21	151	24.00	in. .16
Southend, Water Works	Essex	22	22	13	13	7	9	13	14	6	13	12	24	168	25.64	in. .15
Colchester, Hill House, Lexden	"	19	22	15	10	7	5	16	15	5	14	10	21	159	26.24	in. .16
Beccles, Sotterley Hall.....	Suffolk	26	20	14	10	10	7	18	17	9	14	14	22	181	32.39	in. .18
Swaffham, The Paddocks	Norfolk	22	19	17	8	11	8	17	16	11	7	19	23	178	27.72	in. .16
Salisbury Plain, Shrewton	Wiltshire	22	21	10	15	11	7	18	16	10	14	10	26	180	40.25	in. .22
Dorchester, Wollaston House...	Dorsetshire	19	20	6	15	9	11	16	15	13	16	12	27	179	46.24	in. .26
Ashburton, Druid House.....	South Devon	27	24	8	11	11	12	16	13	15	19	13	28	194	60.45	in. .31
Bude, The School House.....	Cornwall	26	26	9	17	12	9	21	13	12	13	13	26	206	35.74	in. .17
St. Austell, Trevarna	"	27	24	9	13	13	14	18	13	14	18	13	28	208	54.87	in. .26
Angersleigh, Leigh Court	Somerset	23	22	6	13	10	11	18	13	11	17	11	25	180	38.90	in. .22
Simonsbath.....	"	24	26	14	13	10	13	27	17	15	20	16	28	223	70.25	in. .31
Mickleton, Bank House	Gloucestershire	15	20	12	12	11	8	21	17	4	12	9	26	167	25.84	in. .15
Clifton, Pembroke Road	"	21	24	13	12	12	7	21	20	12	17	10	27	196	38.97	in. .20
Hereford, Holmer Hall	Herefordshire	19	23	10	14	11	7	14	15	9	20	12	25	179	30.38	in. .17
Shifnal, National School	Shropshire	20	18	13	16	10	6	23	17	6	13	10	28	180	31.18	in. .17
Blaby, Whetstone Road	Leicestershire	22	18	12	10	10	6	20	18	9	12	12	25	174	31.17	in. .18
Market Deeping, Wiltshorpe ...	Lincolnshire	19	18	14	7	7	8	18	10	6	9	12	24	152	23.83	in. .16
Spilsby, Ashby Road	"	22	19	13	5	8	4	20	17	6	12	17	23	166	29.09	in. .18
Worksop, Hotsock Priory	Nottinghamshire	20	17	12	11	9	6	16	18	4	14	15	24	166	25.74	in. .16
Ashbourne, Water Works	Derbyshire	19	17	13	15	9	6	19	20	6	12	12	26	174	35.29	in. .20
Northwich, Winnington	Cheshire	20	21	14	13	12	8	18	17	6	10	11	23	173	29.73	in. .17
St. Michael's-on-Wyre, Vicarage	North Lancashire	17	21	15	16	11	10	15	19	5	11	9	24	173	35.06	in. .20
Settle, Gas Works	Yorkshire, W.R.	19	21	17	18	10	8	23	19	7	10	8	24	184	41.77	in. .23
Meltham, Harewood Lodge	"	22	18	15	15	8	7	21	19	7	12	13	26	183	45.78	in. .25
Hull, Pearson Park	"	29	20	15	8	9	4	17	18	9	14	21	27	191	27.87	in. .15
Thirsk, Mount St. John	"	23	21	17	10	8	5	22	18	8	17	16	26	191	27.25	in. .14

RAIN DAYS.

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TABLE I.—*Number of Rain Days in 1915—(continued).*

STATION.	COUNTY.	Jan.	Feb.	Mar.	Apr.	May.	June	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Total.	Total Rain-fall.	Amount per Rain Day
ENGLAND & WALES—(con.)															in.	in.
Sleights, Brook Park.....	Yorkshire, N.R. ...	5	21	18	12	10	4	20	20	12	14	19	26	197	32.79	.17
Sunderland, West Hendon House	Durham.....	5	22	19	10	13	6	20	16	11	16	15	27	198	26.08	.13
Rothbury, Cragside	Northumberland ...	2	20	21	14	7	5	21	16	10	14	13	24	182	32.20	.18
Bewcastle Rectory	Cumberland	1	18	25	15	8	10	24	20	11	11	11	23	195	35.99	.18
Kirkby Stephen, Redman House	Westmorland	1	15	17	15	10	6	24	20	9	6	5	21	164	36.48	.22
Dungeon Ghyll	"	2	20	26	20	9	11	23	18	11	10	11	26	200	95.10	.48
Treherbert, Tyn-y-waun	Glamorgan	6	23	25	17	13	11	21	20	15	18	12	28	216	91.08	.42
Carmarthen, The Friary	Carmarthen	2	22	26	20	12	13	19	18	15	22	13	29	223	46.61	.21
Fishguard, Goodwick Station...	Pembroke	2	19	24	7	9	11	15	15	13	16	12	26	181	41.36	.23
Aberystwyth, Gogerddan	Cardigan	2	21	24	16	14	9	19	16	16	17	13	29	204	45.27	.22
Birmingham W.W., Tyrynnydd	Radnor	1	24	25	16	19	8	22	22	15	16	13	29	225	65.31	.29
Lake Vyrnwy, Bank Cynon Isaf	Montgomery.....	5	20	20	14	8	8	21	17	12	13	11	28	186	54.10	.29
Denbigh, Garn	Denbigh	2	21	22	13	12	5	20	16	12	16	15	28	198	33.06	.17
Abersoch.....	Carnarvon.....	4	18	20	11	11	9	16	12	15	16	13	27	187	43.85	.23
Lligwy	Anglesey	18	17	14	17	10	10	15	10	11	18	11	24	175	33.63	.19
England & Wales	(Mean of 49 stations)...	21	21	13	13	10	8	19	16	10	14	12	25	182	39.50	.22
ISLE OF MAN.																
Douglas, Clyppe Res., Onchan...	Isle of Man	21	21	15	20	10	8	19	15	15	18	15	25	202	46.00	.23
SCOTLAND.																
Whithorn, Cutroach	Wigtown	4	20	12	16	9	8	18	14	8	14	10	24	176	36.48	.21
Jardington [Dumfries]	Kirkcudbright	5	18	19	10	8	9	22	16	6	13	7	25	172	36.69	.21
Marchmont House	Berwick	4	17	21	9	8	8	20	17	12	14	17	24	181	33.57	.19
Balerno, Cockburn Hill	Midlothian	5	15	16	13	6	8	21	17	9	11	10	24	167	34.56	.21
Girvan, Pinnore.....	Ayr	8	21	22	16	7	5	18	17	12	17	12	25	193	44.12	.23
New Cumnock, Ayr Sanatorium	"	13	19	25	15	8	8	23	19	8	12	9	27	195	51.14	.26
Buchlyvie, The Manse	Stirling	1	20	25	23	13	13	25	21	17	19	10	23	231	39.40	.17
Rothsay, Crichton Road	Bute	1	22	23	17	8	11	22	21	15	19	13	27	220	48.64	.22
Loch Awe, Ford	Argyll	6	24	22	20	7	11	24	22	12	14	14	23	217	61.14	.28
Campbeltown, Witchburn	"	10	23	24	13	5	7	18	17	11	19	12	23	190	40.68	.21
Islay, Eallabus	"	14	22	21	18	7	7	15	16	16	16	15	24	199	40.66	.20
Mull, Ulva.....	"	14	20	24	22	8	10	22	20	16	15	18	23	222	54.84	.25
St. Andrews, Water Works ..	Fife	3	16	22	12	13	6	20	18	12	15	10	19	175	32.68	.19
Aberfeldy, Dall Avon	Perth	11	17	22	12	15	6	17	19	9	18	9	22	186	42.63	.23

Fettercairn, The Burn	1	22	21	15	14	11	5	23	17	13	16	11	24	192	40.78	21
Logie Coldstone, Loanhead ..	1	22	22	20	19	13	7	23	20	14	26	17	28	231	42.68	18
New Deer Schoolhouse	4	21	19	22	18	12	8	19	20	11	19	21	28	218	37.24	17
Gordon Castle	2	19	20	23	19	14	8	25	21	16	19	20	28	232	37.40	16
Grantown-on-Spey	3	20	17	21	20	14	8	28	26	15	17	19	27	232	35.17	15
Drumnadrochit	9	17	21	17	19	12	5	21	22	16	13	18	25	206	34.84	17
Loch Nevis, Inverie	12	23	21	22	22	6	8	22	20	10	10	18	21	203	69.60	34
Glenleven, Kinlochmore	17	19	24	18	23	9	11	26	22	15	13	14	23	217	79.57	37
Skye, Portree	18	24	23	20	25	7	7	26	19	22	10	19	23	225	51.16	23
Glencarron Lodge	9	25	24	24	24	13	12	27	24	20	10	21	23	247	68.36	28
Dunrobin Castle	2	11	15	17	18	9	8	17	13	11	10	17	18	164	32.82	20
Loch More, Achfary	5	22	22	25	24	13	9	25	20	11	11	23	28	244	67.63	28
Thurso, Buckies	3	20	22	22	22	11	8	25	17	17	17	26	29	236	41.95	18
Scotland	20	22	22	18	20	10	8	22	19	13	15	15	24	206	45.79	22
IRELAND.																
Castletownshend, Seafeld	6	25	25	8	17	16	16	20	14	17	18	11	27	214	49.89	23
Mallow, Longueville	9	24	26	8	14	13	12	18	19	8	16	14	25	197	40.54	21
Darrynane Abbey	4	27	28	11	21	18	13	28	17	23	24	11	27	248	63.25	26
Waterford, Brook Lodge	3	21	18	9	12	10	12	19	13	11	16	9	22	172	41.42	24
Cahir, Bengurragh	3	26	26	13	18	13	15	27	18	19	20	15	25	235	40.83	17
Carrigaholt	3	26	25	12	21	10	12	29	17	19	19	15	26	231	44.83	19
Broadford, Hurdlestown	3	26	25	9	20	8	13	27	16	22	20	17	28	231	41.66	18
Gorey, Courtown House	4	13	18	7	11	9	11	22	17	10	18	8	24	168	40.57	24
Abbey Leix, Blandsfort	2	20	21	10	19	8	15	25	19	14	17	13	24	205	35.46	17
Straffan House	2	17	21	10	17	11	11	23	14	13	17	9	25	188	31.87	17
Kells, Headfort	4	19	21	11	17	6	14	25	18	12	15	10	25	193	37.34	19
Moate, Coolatore	1	24	20	14	20	7	17	25	18	17	13	15	26	216	39.01	18
Ballynalinch Castle	3	26	20	12	22	9	11	27	17	20	23	17	28	232	63.50	27
Woodlawn	4	27	23	13	18	7	11	26	17	18	25	12	27	214	42.54	20
Crossmolina, Enniscoe	2	26	26	20	20	13	10	29	20	19	20	21	30	254	54.83	22
Collooney, Markree Observatory ..	2	26	25	16	20	9	14	28	22	18	17	17	30	242	46.50	19
Mohill Rectory	5	23	21	13	19	8	14	27	18	15	16	14	25	213	39.68	19
Seaforde	2	19	18	14	17	10	6	22	18	13	16	11	28	192	40.26	21
Ballymena, Harryville	5	23	21	22	20	6	9	23	20	15	18	20	26	223	39.90	18
Myroe, Culmore House	5	24	23	20	21	6	10	24	20	13	18	15	28	222	29.27	13
Omagh, Edenfel	3	26	24	15	20	9	11	28	19	12	18	16	27	225	39.03	17
Dunfanaghy, Horn Head	3	27	25	22	20	11	10	25	24	17	19	19	28	247	41.61	17
Killybegs, Rockmount	5	27	23	18	21	10	14	25	20	17	15	17	26	233	56.50	24
Ireland	24	23	23	13	18	10	12	25	18	16	18	14	26	217	43.49	20
(Mean of 23 stations) ..	100	21	22	15	16	10	9	21	17	12	15	14	25	197	42.18	21
BRITISH ISLES																

C

In order to standardize practice as far as possible the rule for the measurement of small quantities of rain was some years ago modified so as to read :—

“ 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. . . . All water found in the rain gauge is to be treated as rain, even though it comes from melted snow, hoar frost, dew or mist.”

The large disparities between the numbers of days with rain observed even at neighbouring stations show clearly that many of the rain gauges in use are not capable of being read with sufficient nicety for the number of days with $\cdot 01$ inch or more to be truly comparable. It is possible to draw maps of the number of rain days in a year with a reasonable degree of accuracy, but this can only be done by plotting a very large number of data and drawing lines so as to take account of the general distribution. This makes it necessary to ignore a considerable number of figures which are either too high or too low when judged by the majority of those surrounding them. We have long felt that the problem of the distribution of rain frequency might be more advantageously studied if the minimum amount included were raised to a higher value. If the experiment now being made by the Meteorological Office to introduce metric units for rainfall measurement succeeds it will before long become necessary to introduce a new definition since the nearest graduation to $\cdot 01$ inch on the millimetre scale is $0\cdot 2$ millimetre, or about $\cdot 008$ inch, and the difference, though slight, is sufficient to affect the number of days included quite appreciably. The close coincidence of the two scales at 1 millimetre, or $\cdot 04$ inch, makes this obviously the most convenient limiting value during a period whilst both units are in use, and we are interested to observe that the number of days upon which $\cdot 04$ in. or more of rain has fallen now finds a place in the publications of the Meteorological Office. The existing definition of a “ rain day ” has, however, been in use for so long that we do not feel justified in abandoning it until it becomes quite clear that the larger limit is likely to prove more useful. In order to study this it would be necessary to analyse the number of days with $\cdot 04$ in. or more at a number of representative stations, but the depletion of our staff makes it impossible to undertake this in time for the result to appear in the present volume, and for the time being the old definition is retained.

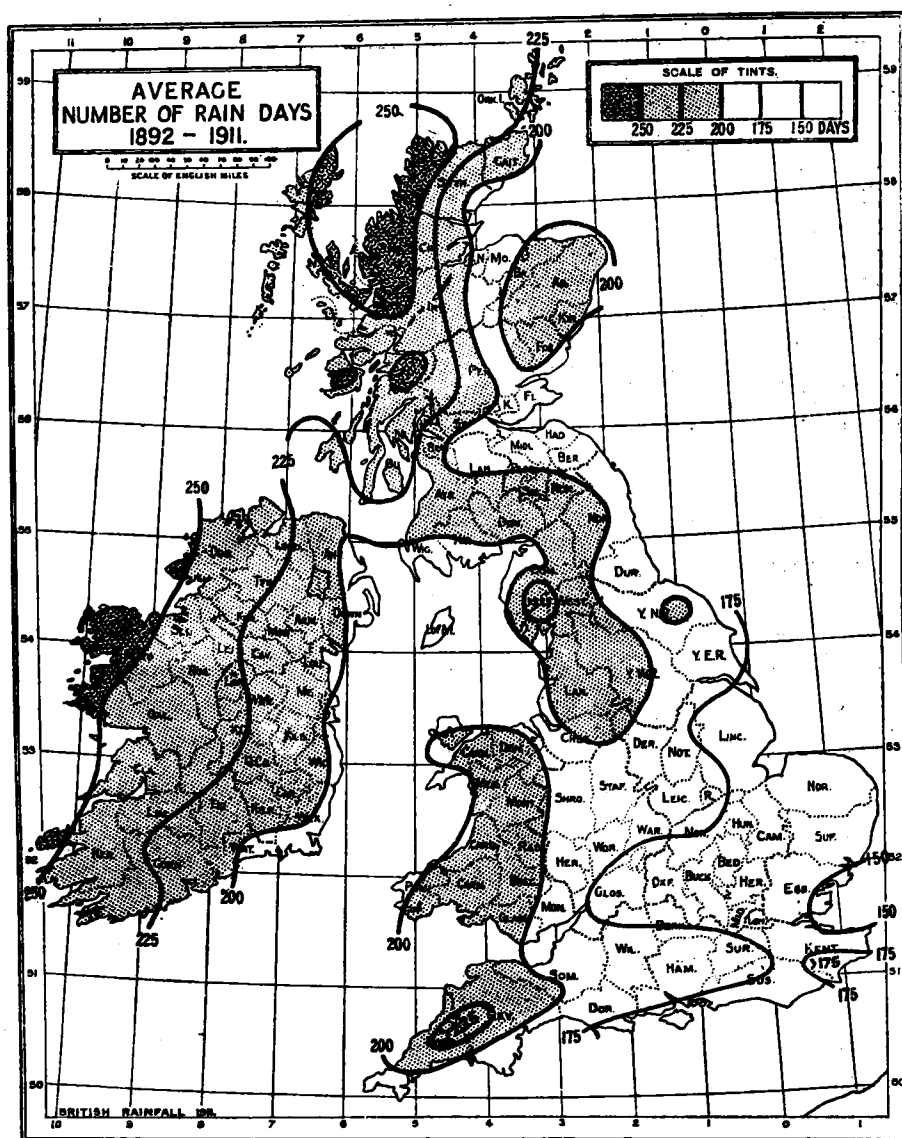
TABLE II.—*Rain Days, 1903-1915, compared with Average, 1892-1911.*

Year.	ENGLAND & WALES. Average 187.			SCOTLAND. Average 216.			IRELAND. Average 223.			BRITISH ISLES. Average 204.		
	Rain Days.	Diff. from Aver.	Per cent. of Aver.	Rain Days.	Diff. from Aver.	Per cent. of Aver.	Rain Days.	Diff. from Aver.	Per cent. of Aver.	Rain Days.	Diff. from Aver.	Per cent. of Aver.
1903	211	+24	113	244	+28	113	252	+29	113	229	+25	112
1904	188	+ 1	101	219	+ 3	101	231	+ 8	104	206	+ 2	101
1905	186	— 1	99	222	+ 6	103	221	— 2	99	203	— 1	100
1906	192	+ 5	103	226	+10	105	231	+ 8	104	210	+ 6	103
1907	203	+16	109	232	+16	107	240	+17	108	218	+14	107
1908	189	+ 2	101	221	+ 5	102	228	+ 5	102	206	+ 2	101
1909	195	+ 8	104	216	0	100	209	—14	94	204	0	100
1910	209	+22	112	221	+ 5	102	233	+10	104	218	+14	107
1911	175	—12	94	209	— 7	97	202	—21	91	191	—13	94
1912	212	+25	113	228	+12	106	235	+12	105	222	+18	109
1913	190	+ 3	102	212	— 4	98	220	— 3	99	203	— 1	100
1914	192	+ 5	103	214	— 2	99	222	— 1	100	205	+ 1	100
1915	182	— 5	97	206	—10	95	217	— 6	97	197	— 7	97

The number of rain days in each month of 1915 at 100 selected stations is given in Table I on pages [15] to [17], and is also represented in the map on page [21]. This map enables the distribution of rain frequency during the year to be compared with the approximate average distribution shown in the map on page [20]. In both maps the areas with less than 200 rain days are left white, those with from 200 to 250 are shown with a light stipple and those with more than 250 with a darker shade.

It will be seen at a glance that over the country generally the number of rain days in 1915 was distinctly below the average. In the Pennine area and the southern uplands of Scotland it appears that so many as 200 rain days occurred only in small isolated patches, but considerable areas with more than 200 days lay at intervals along the east coast of Great Britain. The interior of Wales and of the Devon-Cornwall peninsula also had more than 200 days, but over most of England south-east of an irregular line running roughly from Torquay to Hull as well as on the shores of the Irish Sea, less than 175 rain days occurred. There does not seem to have been any area of appreciable size in England with less than 150 days, nor any at all in which the number was so large as 250. In Scotland rain fell on more than 200 days in the north except on a narrow strip round the Moray Firth. There were probably rather more than the average number of rain days in the lower Spey Valley where rain was exceptionally frequent in the late summer, but the north-west of Scotland

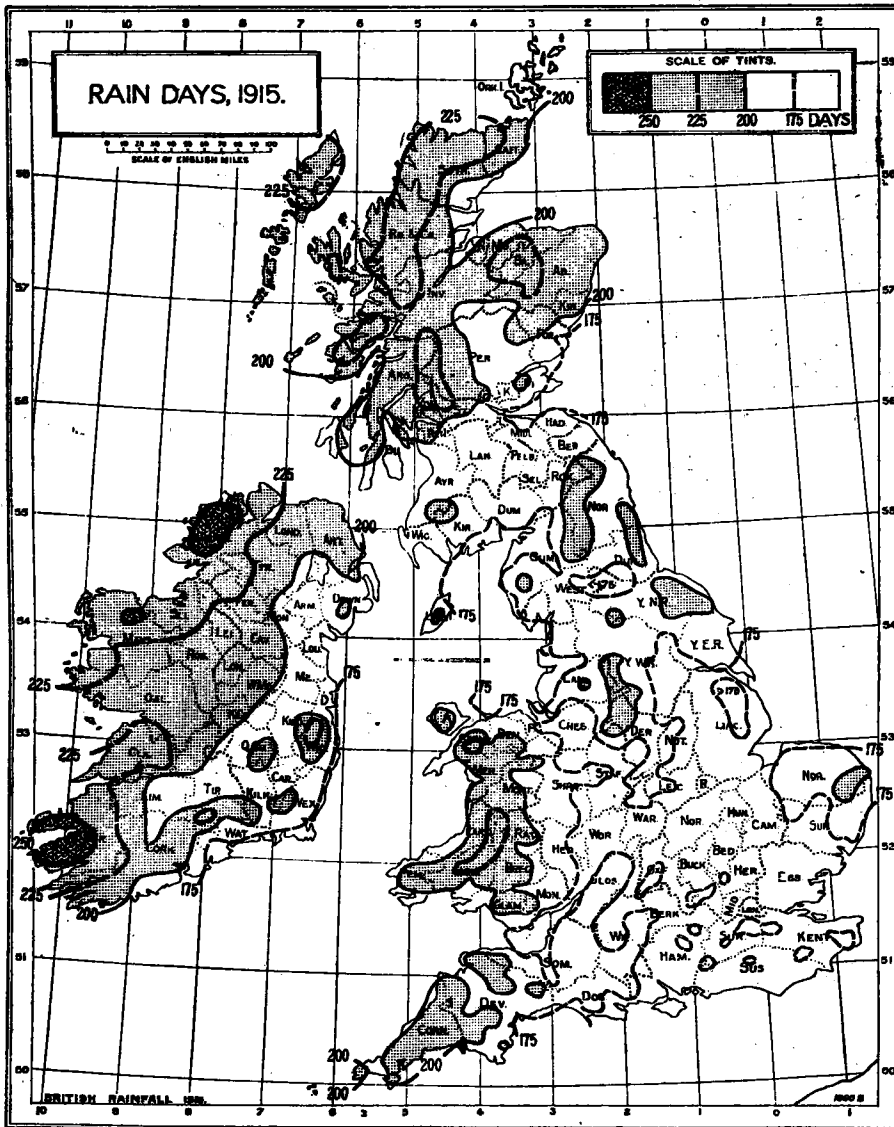
had a notable deficiency and it is doubtful whether so many as 250 rain days occurred in any part. In Ireland the lines of 175 and 200 days lay not far east of the normal positions of the 200 and 225 day lines respectively, but more than 200 days occurred at a number of inland stations in the



south-east. Rain fell on more than 225 days over the west coast regions generally, and there were patches with more than 250 days in Donegal, Mayo, and Kerry, where the frequency of rain during the year was little if any, below the average.

From the 100 stations given in Table I. the general values for the countries given in Table II. are calculated. Comparable statistics now exist for

13 years and these may be compared with the average values for the 20 years 1892-1911. It will be seen that the general number of rain days in 1915 was below the average in each of the great divisions, least so in England, where the deficiency was five days, or 3 per cent., and most in



Scotland where it was ten days, or 5 per cent. In Ireland the deficiency was 6, or 3 per cent., and for the British Isles as a whole, 7, or 3 per cent.

The most notable feature of the year in regard to rain frequency was the large number of rain days observed in all parts of the country in the three winter months, January, February, and December, during which over the country as a whole, rain fell on 68 out of a possible 90 days, or

almost exactly three days out of four. Rain was everywhere most frequent in December, the general value for Ireland being as high as 26 days. At one or two stations in the counties of Mayo and Sligo rain fell on 30 days in this month. In some districts the large number of rain days in July was even more remarkable, taking into account the much lower average frequency in the summer. In that month rain fell on more than 25 days over large areas in the west and north of Scotland and of Ireland, and on as many as 29 at some stations in the west of Ireland. August also had considerably more than the average number of rain days over the country generally. The months of least rain frequency were May, June, and September; June being the most free from rain in Great Britain and May in Ireland. None of these months was, however, remarkably deficient, and the shortage of rain days during the year as a whole, resulted rather from a continued general deficiency during the spring and autumn months, and from the unusually late date at which anything like persistently rainy conditions commenced in the autumn.

DROUGHTS IN 1915.

THE definitions of the two classes of droughts systematically put on record from year to year are as follows :—

THE ABSOLUTE DROUGHT is a period of *more than* 14 consecutive days no one of which is a rain day.

THE PARTIAL DROUGHT is a period of *more than* 28 consecutive days the mean rainfall of which does not exceed .01 in. per day.

It will be observed that these definitions make no attempt to differentiate between districts which have a normally large rainfall and those which have a normally small fall, but are applied indiscriminately to the whole country. The rainy districts of the west seldom experience a dry spell so pronounced as to constitute an absolute or partial drought, whilst the least rainy parts of the country seldom fail to experience one or two such periods in the course of a year, but the definition is so adjusted that the occurrence, or the non-occurrence of either form of drought during any year is quite possible anywhere in the British Isles.

Statistics of droughts are available for a period of 29 years, and the following summary enables the records of each year to be roughly compared.

The number of records annually examined up to 1902 was only 50 and from that year till 1909 it was 73. The values between 1887 and 1909 have accordingly been increased proportionately in order to make them comparable with those from the 100 records now utilized.

Comparative Summary of Droughts, 1887—1915.

	ABSOLUTE DROUGHTS.				PARTIAL DROUGHTS.			
	No. of Droughts at 100 Stations	Duration.		Stations without one.	No. of Droughts at 100 Stations	Duration.		Stations without one.
		Mean.	Greatest.			Mean.	Greatest.	
		days.	days.			days.	days.	
1887	160	21	34	4	116	40	74	18
1888	34	17	20	70	8	42	50	92
1889	84	21	30	26	76	34	45	30
1890	26	18	20	78	6	30	31	94
1891	52	18	34	56	76	36	49	28
1892	72	16	20	50	34	35	64	66
1893	78	20	44	46	106	51	114	20
1894	104	18	31	20	88	37	62	26
1895	104	19	29	32	94	39	64	38
1896	54	18	26	50	98	40	75	32
1897	40	18	20	62	14	40	61	88
1898	62	17	28	54	62	38	77	52
1899	120	21	31	20	82	35	48	40
1900	28	17	21	76	18	32	35	82
1901	112	17	20	20	18	37	56	84
1902	10	17	18	90	4	37	41	96
1903	22	19	25	79	33	34	41	71
1904	12	16	18	88	18	34	41	82
1905	26	17	20	74	59	36	48	60
1906	73	17	25	47	40	36	55	62
1907	56	19	25	51	30	32	41	71
1908	74	18	32	48	52	35	54	68
1909	47	17	23	66	18	37	51	84
1910	32	16	24	70	23	33	42	78
1911	137	19	32	20	137	36	75	19
1912	105	19	32	26	68	37	69	42
1913	67	17	26	33	52	37	62	54
1914	49	20	25	65	54	33	50	57
Average	66	18	26	51	53	37	56	58
1915	68	18	33	38	56	36	50	57
Diff.	+2	0	+7	-13	+3	-1	-6	-1

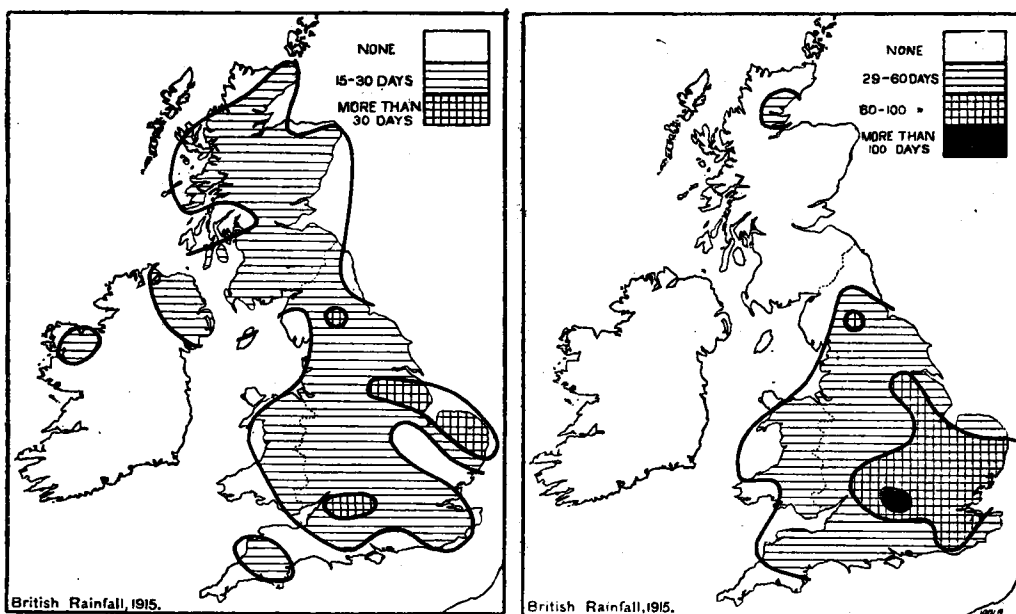
NOTE.—The values previous to 1910 have been increased to the equivalent of 100 stations for ready comparison.

The number of absolute droughts observed at the 100 stations in 1915 was 68, or very close to the average, and their mean duration was eighteen days, or exactly the average. The area over which no absolute drought occurred, as shown by the number of stations without one, was, however,

considerably less than usual. The longest absolute drought in the list for 1915, that of 33 days, from May 20th to June 21st, inclusive, at Clifton, was the longest yet observed with three exceptions, two of which however, exceeded it by one day only. The number of partial droughts observed, and their mean duration, were also close to the average. The longest, that of 50 days from May 14th to July 2nd, inclusive, at Spilsby, was shorter than the average longest by 6 days. The area without partial droughts was normal.

The distribution of absolute and partial droughts during the year, as indicated by the number of days forming parts of such periods, can be seen in the accompanying sketch maps. The most unusual feature was the

ABSOLUTE DROUGHTS IN 1915. PARTIAL DROUGHTS IN 1915.

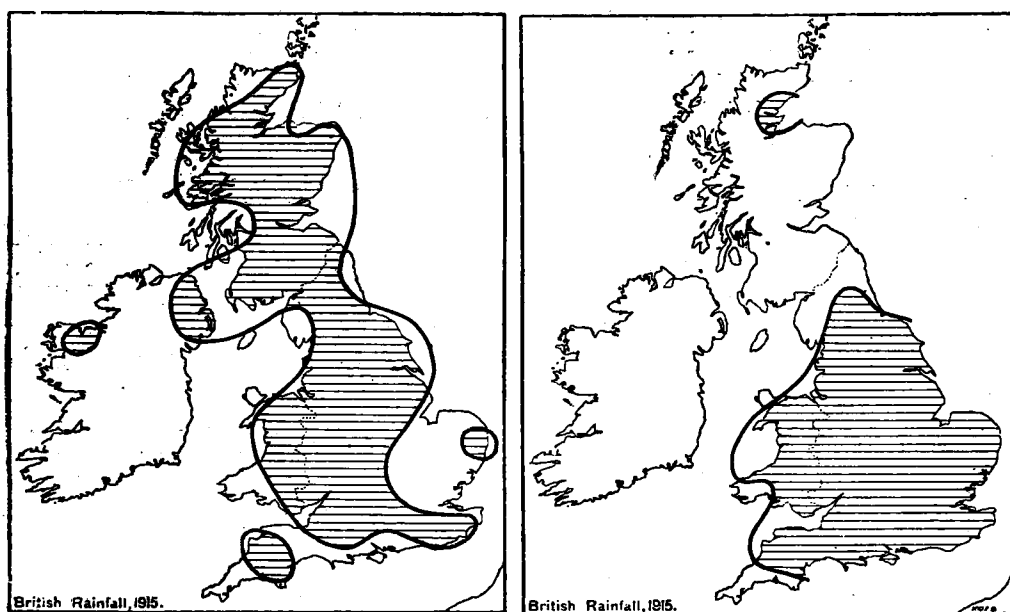


occurrence of an absolute drought (that of June) over nearly the whole of Scotland. In Ireland absolute drought occurred only over a small area in the north. Comparatively few stations in England, and none elsewhere, experienced more than 30 days of absolute drought. With the exception of one small area in the north-east of Scotland partial droughts during 1915 were confined to England and Wales, as far as the selected stations show. In the south-east of England more than 60 days of partial drought occurred and as many 100 days over part of the Thames valley.

The principal droughty periods during 1915 were in the early summer and in the autumn. Of these the former was by far the more widespread.

Absolute drought commenced about May 20th in the Thames valley, but only became general in the first week in June, from which time practically the whole of Great Britain experienced absolute drought for nearly 20 days. In the south-east of England a partial drought extended

THE DROUGHT OF MAY-JUNE, 1915.



The area affected by Absolute Drought is shaded in the left-hand map, and that affected by Partial Drought in the right-hand map.

from about April 13th to May 11th, and after a short and wet interval was resumed about May 20th, from which date a partial drought of from 30 to 50 days' duration occurred over practically the whole of England and Wales. In Scotland only the district round the Moray Firth was affected. The general lack of rain during the late spring and early summer was severely felt by vegetation generally in many parts of the country, though in some instances the heavy rains of mid-May saved the hay crops.

The dry spells of the autumn did not, except for short periods and over small areas, fall technically under the definitions of either absolute or partial droughts. Over a wide area, more particularly the north-west of England and the west of Scotland, the rainfall was extremely deficient from the late summer until November. In the Pennines, and even the Lake District and the mountains of North Wales, great scarcity of water was experienced, and serious fears were entertained as to the sufficiency of the water supplies of some of the great centres of population in the

north of England. The absence of any indication of this remarkable dry period in the north in the list of droughts, save in the single instance of an absolute drought of 15 days', and a partial drought of 31 days', duration at Kirkby Stephen, is a strong argument for the revival of the almost obsolete definition of an "Engineer's Drought." This, as suggested by Mr. Symons in *British Rainfall, 1887*, is a period of three or more consecutive months the aggregate rainfall of which is less than half the average. In discussing dry spells of this kind we are strictly limited by the nature of our data, since at only a comparatively small number of stations have observations been kept up for a sufficiently long period to yield satisfactory average values, and even in the event of an average being available, it is for all practical purposes necessary to confine the discussion to complete calendar months, since it would involve an enormous amount of labour to extract averages for any odd number of days over which such dry spells might extend. The study of dry periods of this nature falls therefore more naturally under the heading of monthly and seasonal rainfall, and we shall revert to the dry weather of the autumn of 1915 in the sections dealing with those subjects.

Although, as we have pointed out, the dryness of the autumn as a whole was most pronounced in the north, certain periods of extreme dryness in the south satisfied the definitions of absolute and partial drought. A partial drought which was almost entirely confined to the Thames Valley lasted from about August 16th to about September 22nd. At two other points, Bude, in Cornwall, and Waterford, in Ireland, an absolute drought occurred in the second half of August. In the north midlands of England some places experienced partial drought from September 25th to about October 26th, and absolute drought lasted from September 4th to 22nd at Worksop, and from September 6th to 21st at Swaffham. Two stations, Swaffham and Kirkby Stephen, had absolute drought at the beginning of October and one, Gorey, in Co. Wexford, at the end of November.

In the list of droughts the names of stations at which no drought occurred have been omitted in order to save space. The complete list of stations dealt with will be found in the table of rain days on pages [15]-[17].

Droughts in 1915.

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Last- ed.	Began.	Ended.	Last- ed.	Rain.
ENGLAND & WALES							
St. Pancras (Camden Square) ..	May 19	June 8	21	May 18	June 25	39	·33
<i>London—2.</i>				Aug. 16	Sept. 23	39	·30
Tenterden (View Tower)	June 11	June 25	15	May 19	June 29	42	·34
<i>Kent—1.</i>							
Brighton (Ditchling Rd., Preston)	June 11	June 25	15	April 13	May 11	29	·28
<i>Sussex—3.</i>				May 21	June 26	37	·34
Sandown (Free Library)	None			May 20	June 27	39	·33
<i>Hampshire—1.</i>							
Petersfield (Ditcham Park)	None			May 20	June 25	37	·29
<i>Hampshire—5.</i>							
Upton	May 22	June 6	16	April 13	May 11	29	·17
<i>Berkshire—5.</i>	June 8	June 22	15	May 22	June 24	34	·08
				Aug. 16	Sept. 22	38	·33
Newport Pagnell (The Croft) ..	May 22	June 6	16	April 13	May 11	29	·29
<i>Buckinghamshire—5.</i>				May 22	June 29	39	·26
Cambridge (Botanic Gardens) ..	None			May 14	June 26	44	·44
<i>Cambridgeshire—2.</i>				Aug. 18	Sept. 22	36	·32
Southend (Water Works)	May 19	June 8	21	May 19	June 27	40	·20
<i>Essex—3.</i>				Aug. 17	Sept. 27	42	·42
Colchester (Hill House, Lexden)	None			April 12	May 11	30	·28
<i>Essex—5.</i>				May 19	June 27	40	·19
Beccles (Sotterley Hall)	May 22	June 22	32	Apr. 13	May 11	29	·22
<i>Suffolk—3.</i>				May 19	June 24	37	·18
Swaffham (The Paddocks)	Sept. 6	Sept. 21	16	May 14	June 24	42	·24
<i>Norfolk—4.</i>	Oct. 1	Oct. 18	18				
Salisbury Plain (Shrewton)	June 3	June 24	22	May 22	June 26	36	·11
<i>Wiltshire—3.</i>							
Dorchester (Wollaston House) ..	None			May 18	June 24	38	·38
<i>Dorsetshire—3.</i>							
Ashburton (Druid House)	June 3	June 19	17	May 21	June 22	33	·30
<i>South Devon—4.</i>							
Bude (The School House)	June 6	June 20	15	May 20	June 20	32	·30
<i>Cornwall—1.</i>	Aug. 16	Aug. 30	15				
Angersleigh (Leigh Court)	None			May 18	June 24	38	·26
<i>Somerset—3.</i>							
Simonsbath	None			May 20	June 24	36	·30
<i>Somerset—5.</i>							
Mickleton (Bank House)	June 8	June 23	16	May 18	June 24	38	·16
<i>Gloucestershire—4.</i>				Aug. 17	Sept. 23	38	·32
Clifton (Pembroke Road)	May 20	June 21	33	May 18	June 24	38	·14
<i>Gloucestershire—5.</i>							
Hereford (Holmer Hall)	June 3	June 22	20	May 18	June 22	36	·28
<i>Herefordshire—1.</i>							
Shifnal (National Schools)	June 3	June 22	20	May 18	June 24	38	·30
<i>Shropshire—4.</i>							
Blaby (Whetstone Road)	June 8	June 22	15	May 14	June 24	42	·40
<i>Leicestershire—4.</i>							
Market Deeping (Wilthorpe) ..	None			May 22	June 24	34	·19
<i>Lincolnshire—2.</i>				Sept. 25	Oct. 23	29	·19

Droughts in 1915—(continued).

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Last- ed.	Began.	Ended.	Last- ed.	Rain
Spilsby (Ashby Road).....	April 13	April 29	Days 17	May 14	July 2	Days 50	in. ·43
<i>Lincolnshire—4.</i>	June 3	June 24	22				
Worksop (Hodsock Priory)	June 3	June 24	22	May 13	June 24	43	·38
<i>Nottinghamshire—5.</i>	Sept 4	Sept. 22	19	Sept. 25	Oct. 26	32	·29
Ashbourne Water Works	June 3	June 22	20	May 17	June 24	39	·37
<i>Derbyshire—4.</i>							
Northwich (Winnington)	June 6	June 21	16	May 17	June 24	39	·34
<i>Cheshire—2.</i>							
St. Michael's-on-Wyre Vicarage	June 6	June 21	16	May 20	June 21	33	·31
<i>North Lancashire—5.</i>							
Settle (Gas Works)	June 6	June 22	17	May 21	June 25	36	·31
<i>Yorkshire, West Riding—2.</i>							
Meltham (Harewood Lodge)	June 3	June 24	22	May 17	June 24	39	·19
<i>Yorkshire, West Riding—8.</i>							
Hull (Pearson Park)	May 30	June 23	25	May 12	June 24	44	·41
<i>Yorkshire, East Riding—3.</i>							
Thirsk (Mount St. John)	June 3	June 24	22	May 30	June 30	32	·27
<i>Yorkshire, North Riding—2.</i>							
Sleights (Brook Park)	June 3	June 23	21	May 30	July 2	34	·31
<i>Yorkshire, North Riding—5.</i>							
Bewcastle Rectory	June 11	June 25	15	None			
<i>Cumberland—1.</i>							
Kirkby Stephen (Redman House)	June 7	June 25	19	May 30	June 30	32	·30
<i>Westmorland—1.</i>	Sept. 27	Oct. 11	15	Sept. 26	Oct. 26	31	·23
Treherbert (Tyn-y-waun)	June 6	June 22	17	May 20	June 22	34	·30
<i>Glamorgan—6.</i>							
Fishguard (Goodwick Station) ..	None			May 21	June 21	32	·27
<i>Pembroke—2.</i>							
Aberystwyth (Gogerddan)	June 6	June 21	16	May 23	June 21	30	·30
<i>Cardigan—2.</i>							
Birmingham W.W.(Tyrmynydd)	June 6	June 22	17	May 23	June 22	31	·13
<i>Radnor—1.</i>							
Lake Vyrnwy (Bank Cynon Isaf)	June 6	June 21	16	May 20	June 26	38	·35
<i>Montgomery—5.</i>							
Denbigh (Garn)	June 6	June 22	17	May 18	June 22	36	·14
<i>Denbigh—2.</i>							
Abersoch	June 6	June 21	16	May 21	June 21	32	·30
<i>Carnarvon—4.</i>							
SCOTLAND.							
Whithorn (Cutroach)	June 8	June 22	15	None			
<i>Wigtown—4.</i>							
Jardington [Dumfries]	June 7	June 25	19	None			
<i>Kircudbright—5.</i>							
Marchmont House	June 8	June 23	16	None			
<i>Berwick—4.</i>							
Balerno (Cockburn Hill)	June 5	June 23	19	None			
<i>Midlothian—5.</i>							
Girvan (Pinmore)	June 7	June 24	18	None			
<i>Ayr—8.</i>							
New Cumnock (Ayr Sanatorium)	June 7	June 23	17	None.			
<i>Ayr—13.</i>							

Droughts in 1915—(continued).

STATION & COUNTY.	ABSOLUTE DROUGHTS.			PARTIAL DROUGHTS.			
	Began.	Ended.	Last- ed.	Began.	Ended.	Last- ed.	Rain
Rothsay (Crichton Road)	April 24	May 10	Days 17	None		Days	in.
<i>Bute—1.</i>							
Campbeltown (Witchburn)	April 24	May 11	18	None			
<i>Argyll—10.</i>							
Mull (Ulva)	June 9	June 25	17	None			
<i>Argyll—14.</i>							
St. Andrew's (Water Works)	June 5	June 23	19	None			
<i>Fife—3.</i>							
Aberfeldy (Dall Avon)	June 5	June 23	19	None			
<i>Perth—11.</i>							
Fettercairn (The Burn)	June 5	June 25	21	None			
<i>Kincardine—1.</i>							
Logie Coldstone (Loanhead)	June 8	June 23	16	None			
<i>Aberdeen—1.</i>							
New Deer Schoolhouse	June 5	June 23	19	None			
<i>Aberdeen—4.</i>							
Grantown-on-Spey	June 4	June 23	20	None			
<i>Moray—3.</i>							
Drumnadrochit	June 8	June 26	19	None			
<i>Inverness—9.</i>							
Loch Nevis (Inverie)	June 9	June 25	17	None			
<i>Inverness—12.</i>							
Glenleven (Kinlochmore)	June 9	June 25	17	None			
<i>Inverness—17.</i>							
Skye, Portree	June 9	June 25	17	None			
<i>Inverness—18.</i>							
Glencarron Lodge	June 10	June 25	16	None			
<i>Ross—9.</i>							
Dunrobin Castle	June 9	June 24	16	May 15	June 25	42	·37
<i>Sutherland—2.</i>							
Thurso (Buckies)	June 12	June 26	15	None			
<i>Caithness—3.</i>							
IRELAND.							
Waterford (Brook Lodge)	Aug. 16	Aug. 31	16	None			
<i>Waterford—3.</i>							
Gorey (Courtown House)	Nov. 13	Nov. 28	16	None			
<i>Wexford—4.</i>							
Crossmolina (Enniscoe)	June 8	June 23	16	None			
<i>Mayo—2.</i>							
Seaforde	June 7	June 22	16	None			
<i>Down—2.</i>							
Ballymena (Harryville)	June 7	June 22	16	None			
<i>Antrim—5.</i>							
Myroe (Culmore House)	April 24	May 9	16	None			
<i>Londonderry—5.</i>							

RAIN SPELLS IN 1915.

THE definition of a Rain Spell introduced in 1903, to facilitate the study of long continued periods of persistent raininess, runs :—

A RAIN SPELL is a period of *more than* 14 consecutive days, every one of which is a rain day.

A rain spell is thus the opposite of an absolute drought, and, in order to complete the analogy, requires to be supplemented by a further definition of a "Partial Rain Spell." Various suggestions have from time to time been made to meet this requirement, but we are not as yet satisfied that they are the best that can be arrived at, and prefer not to adopt any of them until we have had an opportunity of testing them by applying them to a large number of rainfall records. It is impossible to make such an investigation at the present time.

The number of rain spells recorded at the 100 selected stations in 1915 was 132, or 34 below the average of 13 years. Four years in that period had fewer rain spells, the smallest number having been 110 in 1909. The mean duration in 1915 was 20 days, or 1 below the average, whilst the mean amount of rain per day in all the spells of the year was .01 in. above the

Comparative Table of Rain Spells at 100 Stations.

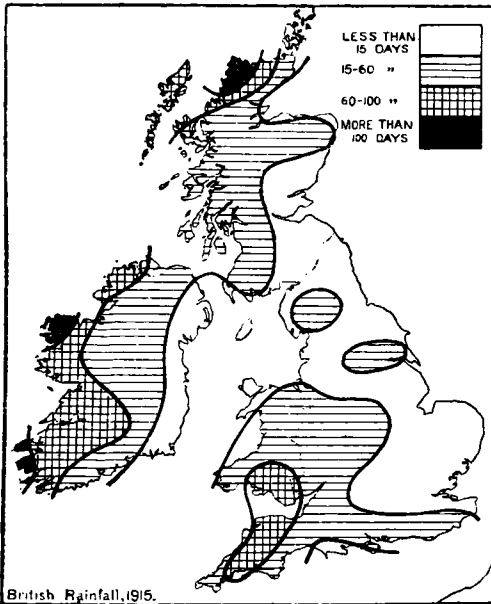
Year.	No. of Rain Spells.	DURATION OF SPELLS.				STATIONS WITH			
		Mean.		Greatest.		None.	1 or 2.	3 or 4.	5 or more.
		days.	Mean R per day. in.	days.	Mean R per day. in.				
1903...	282	22	.28	52	.51	11	41	26	22
1904...	152	19	.22	34	.27	31	51	11	7
1905...	121	19	.24	44	.38	45	39	12	4
1906...	125	21	.25	50	.40	38	47	11	4
1907...	177	21	.25	45	.17	38	30	18	14
1908...	159	19	.24	49	.43	21	59	12	8
1909...	110	19	.26	45	.12	36	52	12	0
1910...	235	21	.25	64	.30	24	34	25	17
1911...	185	22	.29	39	.15	19	50	23	8
1912...	198	22	.27	58	.19	29	32	30	9
1913...	128	21	.29	64	.19	44	34	19	3
1914...	150	22	.29	70	.28	30	44	25	1
1915...	132	20	.27	38	.25	34	47	16	3
Average	166	21	.26	50	.28	31	43	18	8

NOTE.—The values previous to 1910 have been increased to the equivalent of 100 stations for comparison.

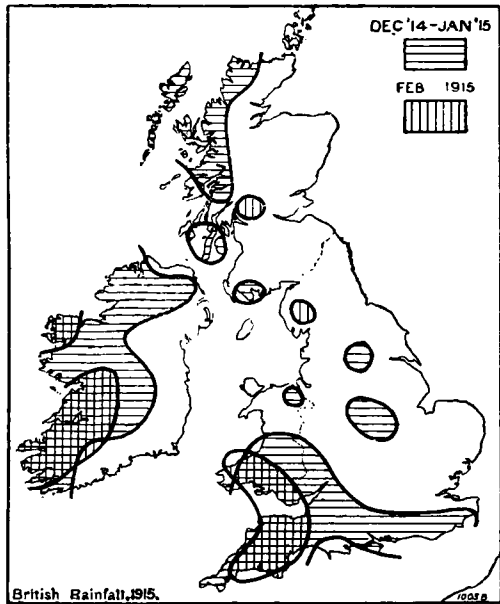
average. The longest rain spell experienced during the year had the very moderate duration of 38 days, or 12 less than the average longest. One year only since 1903 has failed to record a longer spell. The area without rain spells was rather above the average, 34 stations out of 100, or one-third of the country, having none; 47 stations, representing about one-half of the British Isles, recorded one or two spells, 16 recorded three or four, and three only had so many as five. The average number of stations recording five or more rain spells is eight.

Broadly speaking rain spells occurred during the year in the south and south-west of England and Wales, and the north and north-west of Scotland and Ireland, while the east coasts of the British Isles generally

RAIN SPELLS IN 1915.



WINTER RAIN SPELLS, 1914-15.



escaped. The most unusual feature of the year was the comparative immunity of the Pennine and Lake Districts from rain spells, only one short spell having been recorded at Dungeon Ghyll, in Westmorland, where it is a common occurrence for four or five to take place in a year. This fact adds emphasis to the long continued dearth of rainfall in the autumn. In the south of Wales and part of the Devon-Cornwall peninsula rain spells occupied more than 60 days during the year, and this was also the case throughout the west of Ireland and the extreme north-west of Scotland, whilst the aggregate duration reached or exceeded 100 days in parts of Kerry, Mayo and Sutherlandshire. In respect to the last

mentioned areas the number of rain spells in the year was nearly normal, but the number observed in the west of Scotland generally was far smaller than usual.

An outstanding feature of the rain spells of 1915 was the small area affected by each individual spell. The most widespread did not lie wholly within the year, extending from the last week of December, 1914, till about January 20th, 1915. The area affected was the south-west of England and Wales, and the west of Scotland and Ireland, being nearly identical with that over which the rain spell of November-December, 1914, occurred (see *British Rainfall, 1914*, page [75]), and at some Irish stations only a few days separated the two. In Scotland the date of commencement was later, being between January 4th and 8th. This rain spell was of about 30 days' duration at the most westerly stations in England and Ireland. The mean rainfall per day was rather high being in general about $\cdot 30$ in., but ranging from $\cdot 10$ in. at Blaby, near Leicester, to as much as $\cdot 60$ in. at Inverie, in Inverness-shire, where $10\cdot 80$ in. of rain fell in 18 days. In the south of England generally, and especially in the Thames Valley, serious floods occurred, particularly in the early part of January. An episode of unusual interest was the inundation of Salisbury Cathedral, which occurred on January 5th and 6th.*

In the extreme south-west of England and Wales, and the west of Ireland as well as at a few stations in the north, another rain spell occupied the early part of February. It was of short duration everywhere except at Darrynane in Co. Kerry, where it continued without a break from January 30th to March 6th. The mean rate of rain per day was unusually high in England and Wales where it averaged $\cdot 40$ in., reaching $\cdot 70$ in. at Dungeon Ghyll and $\cdot 68$ in. at Treherbert. In Ireland, however, the mean fall per day was only $\cdot 24$ in. Considerable floods again occurred in the Thames Valley but were less severe than those of the previous month.

The areas affected by the rain spells of December to January and of February are indicated respectively by horizontal and vertical shading on the sketch map on page [31]. It will be seen that the most south-westerly districts both in England and Ireland experienced both spells.

March was generally free from any continuous rainy weather, but at the beginning of April the west coasts of Scotland and Ireland experienced a well marked rain spell which lasted till about the 21st of that month in the north, and till about the 15th at more southerly stations. The mean

* See picture in *Symons's Met. Mag.*, Feb., 1915, p. 9.

daily rainfall was generally moderate, but reached $\cdot 41$ in. at Kinlochmore. The only summer rain spell of importance took place in the latter part of July and the first half of August. It occurred over a small area in the south-west of the English Midlands, a portion of the West Highlands and the greater part of the west and south-west of Ireland. At Simonsbath on Exmoor, rain fell daily from July 9th to August 15th, a period of 38 days, during which $9\cdot 53$ in. fell, and at Grantown-on-Spey only one rainless day occurred from July 11th to August 17th, the total fall during the whole period being $5\cdot 64$ in. This rain spell constituted, over the country as a whole, the only period of intermission from conditions of unusual dryness which characterized the beginning and end of the summer of 1915.

Except in small isolated areas in the north of Scotland which were wet in October and November no persistently rainy autumn weather was experienced till the end of November, when a rain spell set in which affected practically the whole of Wales and the Cornish peninsula, the west of Ireland and the north-east of Scotland. Its duration was not very uniform, but in England and Wales it terminated generally about December 16th and in Scotland between the 24th and 29th. In Ireland the date of commencement was two or three days earlier than elsewhere. At the stations which recorded this rain spell in England and Wales the mean rate per day was high, especially in South Wales, where it reached $\cdot 77$ in. at Treherbert. In Ireland, on the other hand, the mean fall was small, being less than $\cdot 20$ in. in the south and only $\cdot 11$ in. at Cahir. Flooding again occurred in the Thames Valley and various other parts of England and also in central Ireland. In the neighbourhood of Lincoln the amount of land under water in the latter part of December was said to have been the greatest known for at least thirty years.

Out of the 100 stations ten recorded rain spells during 1915, in which the mean daily rate of fall reached or exceeded $\cdot 40$ in., and of these, three, Ashburton, Simonsbath, and Treherbert recorded three instances each, emphasizing the fact that for sustained heavy rainfall the south-west of England and Wales suffered more severely than any other part of the British Isles. The frequency of long periods of great wetness in the west of Scotland was certainly far below the normal, and such rain spells as did occur were less rainy than usual. It will be noted that there was again no instance of a rain spell in Ireland with a mean rainfall so high as $\cdot 40$ in.

Rain Spells of a Mean Rate of .40 in. or more per day in 1915.

Div.	Station.	Began.	Ended.	Lasted.	Total Fall.	Rain per Day.		
						Max.	Min.	Mean
				days.	in.	in.	in.	in.
V.	Ashburton ....1914	Dec. 25	Jan. 8	15	8.21	1.40	.04	.55
"	"	Jan. 30	Feb. 14	16	7.65	1.48	.02	.48
"	"	Nov. 28	Dec. 16	19	9.70	2.15	.02	.51
"	Simonsbath ....1914	Dec. 25	Jan. 17	24	10.66	1.14	.02	.44
"	"	Jan. 30	Feb. 14	16	6.42	1.16	.01	.40
"	"	Nov. 28	Dec. 16	19	10.32	2.40	.01	.54
IX.	Meltham	Jan. 1	Jan. 15	15	6.92	2.11	.01	.46
X.	Dungeon Ghyll	Jan. 30	Feb. 14	16	11.15	2.10	.01	.70
XI.	Treherbert ....1914	Dec. 25	Jan. 16	23	12.65	1.36	.01	.55
"	"	Jan. 30	Feb. 19	21	14.24	3.51	.01	.68
"	"	Nov. 29	Dec. 16	18	13.80	2.55	.01	.77
"	Tyrmynydd ....1914	Dec. 25	Jan. 22	29	12.82	1.40	.01	.44
XIV.	New Cumnock	Feb. 16	Mar. 6	19	7.54	2.66	.01	.40
XVIII.	Loch Nevis (Inverie)	Jan. 5	Jan. 22	18	10.80	1.60	.03	.60
"	Kinlochmore	Mar. 31	April 20	21	8.52	1.15	.07	.41
XIX.	Loch More (Achfary)	Jan. 8	Jan. 23	16	7.99	1.22	.08	.50

Table of Rain Spells, 1915.

STATION & COUNTY.	Began.	Ended.	Last- ed.	Total Rain.	RAIN PER DAY.		
					Max.	Min.	Mean
			Days	in.	in.	in.	in.
ENGLAND AND WALES							
Tenterden (View Tower) ....1914	Dec. 26	Jan. 10	16	3.71	.65	.01	.23
<i>Kent</i> —1.							
Brighton (Ditchling Rd.) ..1914	Dec. 26	Jan. 15	21	5.44	.67	.01	.26
<i>Sussex</i> —3.							
Sandown Free Library ....1914	Dec. 25	Jan. 8	15	5.52	.84	.03	.37
<i>Hampshire</i> —1.							
Petersfield (Ditcham Park) ..1914	Dec. 25	Jan. 15	22	6.65	.85	.01	.30
<i>Hampshire</i> —5.							
Salisbury Plain (Shrewton) ..1914	Dec. 30	Jan. 16	18	5.05	1.20	.01	.28
<i>Wiltshire</i> —3.							
Ashburton (Druid House) ....1914	Dec. 25	Jan. 8	15	8.21	1.40	.04	.55
<i>South Devon</i> —4.							
	Jan. 30	Feb. 14	16	7.65	1.48	.02	.48
	Nov. 28	Dec. 16	19	9.70	2.15	.02	.51
Bude (The School House) ....1914	Dec. 25	Jan. 23	30	5.43	.76	.02	.18
<i>Cornwall</i> —1.							
	Nov. 30	Dec. 15	16	5.50	.74	.02	.34
St. Austell (Trevarna).....1914	Dec. 25	Jan. 23	30	8.93	1.08	.03	.30
<i>Cornwall</i> —2.							
	Jan. 30	Feb. 14	16	5.45	.78	.04	.34
	Nov. 28	Dec. 17	20	7.33	1.37	.01	.37
Angersleigh (Leigh Court) ....1914	Dec. 24	Jan. 16	24	6.44	1.00	.02	.27
<i>Somerset</i> —3.							
	Jan. 30	Feb. 13	15	5.17	.96	.02	.34

STATION & COUNTY.	Began.	Ended.	Last- ed.	Total Rain.	RAIN PER DAY.		
					Max.	Min.	Mean
			Days	in.	in.	in.	in.
ENGLAND AND WALES—(con.)							
Simonsbath .....1914	Dec. 25	Jan. 17	24	10·66	1·14	·02	·44
<i>Somerset—5.</i>	Jan. 30	Feb. 14	16	6·42	1·16	·01	·40
	July 9	Aug. 15	38	9·53	2·20	·01	·25
	Nov. 28	Dec. 16	19	10·32	2·40	·01	·54
Mickleton (Bank House)	July 19	Aug. 5	18	2·29	·41	·01	·13
<i>Gloucestershire—4.</i>							
Clifton (Pembroke Road) ....1914	Dec. 30	Jan. 15	17	3·85	·59	·02	·23
<i>Gloucestershire—5.</i>							
Hereford (Holmer Hall) ....1914	Dec. 25	Jan. 13	20	3·65	·58	·01	·18
<i>Herefordshire—1.</i>							
Shifnal (National Schools)	July 21	Aug. 8	19	3·37	1·34	·01	·18
<i>Shropshire—4.</i>							
Blaby (Whetstone Road) ....1914	Dec. 30	Jan. 13	15	1·43	·34	·01	·10
<i>Leicestershire—4.</i>							
Ashbourne Water Works ....1914	Dec. 25	Jan. 8	15	3·80	·70	·01	·25
<i>Derbyshire—4.</i>							
Meltham (Harewood Lodge)	Jan. 1	Jan. 15	15	6·92	2·11	·01	·46
<i>Yorkshire, West Riding—8.</i>							
Hull (Pearson Park)	Jan. 20	Feb. 3.	15	1·09	·30	·01	·07
<i>Yorkshire, East Riding—3.</i>							
Kirkby Stephen (Redman House) ..	July 29	Aug. 16	19	2·58	·75	·01	·14
<i>Westmorland—1.</i>							
Dungeon Ghyll.....	Jan. 30	Feb. 14	16	11·15	2·10	·01	·70
<i>Westmorland—2.</i>							
Treherbert (Tyn-y-waun) ....1914	Dec. 25	Jan. 16	23	12·65	1·36	·01	·55
<i>Glamorgan—6.</i>	Jan. 30	Feb. 19	21	14·24	3·51	·01	·68
	July 21	Aug. 18	29	11·07	1·03	·01	·38
	Nov. 29	Dec. 16	18	13·80	2·55	·01	·77
Carmarthen (The Friary) ....1914	Dec. 24	Jan. 18	26	8·13	1·12	·01	·31
<i>Carmarthen—2.</i>	Feb. 1	Feb. 23	23	7·47	1·83	·03	·32
	July 30	Aug. 15	17	2·17	·49	·01	·13
	Nov. 29	Dec. 17	19	7·30	1·09	·01	·38
Fishguard (Goodwick Station)	Jan. 31	Feb. 14	15	4·56	·67	·07	·30
<i>Pembroke—2.</i>							
Aberystwyth (Gogerddan)	Jan. 6	Jan. 22	17	5·27	·85	·01	·31
<i>Cardigan—2.</i>	Nov. 29	Dec. 17	19	4·17	·78	·01	·22
Tyrmynydd .....1914	Dec. 25	Jan. 22	29	12·82	1·40	·01	·44
<i>Radnor—1.</i>	Nov. 28	Dec. 17	20	7·70	1·37	·01	·38
Lake Vrynwy (Bank CynonIsaf) ..	Nov. 29	Dec. 16	18	6·47	·98	·02	·36
<i>Montgomery—5.</i>							
Denbigh (Garn) .....1914	Dec. 25	Jan. 12	19	4·47	·95	·01	·24
<i>Denbigh—2.</i>	Nov. 29	Dec. 16	18	3·48	1·03	·01	·19
SCOTLAND.							
Whithorn (Cutroach) .....1914	Dec. 29	Jan. 15	18	4·32	·94	·02	·24
<i>Wigtown—4.</i>							
Girvan (Pinmore)	Mar. 31	April 16	17	3·06	·60	·02	·18
<i>Ayr—8.</i>							
New Cumnock (Ayr Sanatorium) ..	Feb. 16	Mar. 6	19	7·54	2·66	·01	·40
<i>Ayr—13.</i>							
Buchlyvie (The Manse)	Jan. 30	Feb. 14	16	3·53	·83	·01	·22
<i>Stirling—1.</i>	Aug. 1	Aug. 16	16	3·01	·47	·01	·19

STATION & COUNTY.	Began.	Ended.	Last- ed.	Total Rain.	RAIN PER DAY.		
					Max.	Min.	Mean
					in.	in.	in.
SCOTLAND—(continued)					in.	in.	in.
Rothsay (Crichton Road)	Mar 29	April 21	24	4.44	.75	.01	.18
Bute—1.							
Loch Awe (Ford) .....1914	Jan. 4	Jan. 22	19	7.05	1.03	.01	.37
Argyll—6.	Mar.30	April 21	23	6.32	.81	.03	.27
Campbeltown (Witchburn)	Jan. 4	Jan. 22	19	3.18	.70	.01	.17
Argyll—10.							
Islay (Eallabus)	Jan. 7	Jan. 22	16	3.18	.74	.02	.20
Argyll.—14	Mar. 30	April 21	23	4.73	.45	.02	.21
Mull (Ulva)	Feb. 15	Mar. 6	20	6.44	1.59	.01	.32
Argyll—14.	Mar. 29	April 21	24	5.84	.67	.02	.24
Logie Coldstone (Loanhead)	Oct. 15	Oct. 31	17	4.28	2.04	.01	.25
Aberdeen—1.							
New Deer Schoolhouse	Dec. 5	Dec. 25	21	6.08	1.01	.01	.29
Aberdeen—4.							
Gordon Castle	Oct. 17	Oct. 31	15	1.76	.55	.03	.12
Moray—2.							
Grantown-on-Spey	July 11	July 30	20	3.50	.57	.02	.18
Moray—3.	Aug. 1	Aug. 17	17	2.14	.46	.01	.13
	Dec. 8	Dec. 24	17	3.58	.65	.03	.21
Drumnadrochit	Dec. 5	Dec. 25	21	4.93	1.20	.01	.23
Inverness—9.							
Loch Nevis (Inverie)	Jan. 5	Jan. 22	18	10.80	1.60	.03	.60
Inverness—12.							
Glenleven (Kinlochmore)	Mar. 31	April 20	21	8.52	1.15	.07	.41
Inverness—17.	July 13	July 28	16	3.83	.79	.02	.24
Skye (Portree)	Jan. 4	Jan. 22	19	6.88	.90	.05	.36
Inverness—18.	Mar. 30	April 24	26	5.04	.71	.01	.19
Glencarron Lodge	Mar. 30	April 21	23	9.04	1.85	.07	.39
Ross—9.	July 8	July 28	21	3.81	.60	.01	.18
Loch More (Achfary)	Jan. 8	Jan. 23	16	7.99	1.22	.08	.50
Sutherland—5.	Feb. 26	Mar. 21	24	7.88	1.39	.01	.33
	Mar. 26	April 21	27	9.18	1.45	.02	.34
	Nov. 1.	Nov. 16	16	4.18	.73	.04	.26
	Dec. 5	Dec. 28	24	7.80	.91	.01	.32
Thurso (Buckies)	April 7	April 21	15	1.96	.33	.01	.13
Caithness—3.	Nov. 1	Nov. 17	17	3.16	.55	.01	.19
	Dec. 14	Dec. 29	16	6.02	1.42	.03	.38
IRELAND.							
Castletownshend (Seafield) ....1914	Dec. 24	Jan. 16	24	7.13	1.07	.02	.30
Cork—6.	Nov. 27	Dec. 11	15	3.06	.52	.01	.20
Mallow (Longueville)	Jan. 30	Feb. 14	16	4.68	.68	.01	.29
Cork—9.	July 30	Aug. 17	19	2.69	.43	.01	.14
	Nov. 25	Dec. 15	21	2.63	.49	.01	.13
Darrynane Abbey	Dec. 24	Jan. 22	30	9.74	.82	.03	.32
Kerry—4.	Jan. 30	Mar. 6	36	9.74	.77	.01	.27
	July 10	July 27	18	3.06	.71	.01	.17
	July 30	Aug. 16	18	4.97	.89	.01	.28
	Nov. 28	Dec. 16	19	3.60	.69	.03	.19
Cahir (Bengurragh) 1914	Dec. 24	Jan. 15	23	5.94	.65	.01	.26
Tipperary—3.	Jan. 30	Feb. 14	16	3.70	.83	.01	.23
	July 18	Aug. 16	30	5.96	.89	.03	.20
	Nov. 25	Dec. 11	17	1.84	.65	.01	.11

STATION & COUNTY.	Began.	Ended.	Last- ed.	Total Rain.	RAIN PER DAY.		
					Max.	Min.	Mean
			Days	in.	in.	in	in.
IRELAND—(continued)							
Carrigaholt Castle 1914 Clare—3.	Dec. 24	Jan. 16	24	6.69	.60	.02	.28
	Jan. 30	Feb. 14	16	3.98	.54	.02	.25
	April 1	April 15	15	1.71	.58	.01	.11
	July 18	Aug. 15	29	4.80	.50	.01	.17
Broadford (Hurdlestown) 1914 Clare—3.	Dec. 24	Jan. 16	24	6.82	1.07	.01	.28
	Jan. 30	Feb. 14	16	3.31	.56	.01	.21
	July 18	Aug. 10	24	4.31	.61	.02	.18
	Nov. 27	Dec. 16	20	2.32	.61	.01	.12
Abbey Leix (Blandsfort) Queen's County—2.	July 18	Aug. 3	17	3.03	.49	.01	.18
Kells (Headfort) Meath—4.	June 22	July 7	16	4.10	.75	.01	.26
Moate (Coolatore) 1914 Westmeath—1.	Dec. 24	Jan. 16	24	6.28	.86	.01	.26
	April 1	April 15	15	1.51	.27	.01	.10
Ballynahinch Castle 1914 Galway—3.	Dec. 24	Jan. 22	30	9.43	.84	.05	.31
	Mar. 30	April 15	17	3.60	.61	.03	.21
	Dec. 2	Dec. 17	16	3.85	.94	.02	.24
Woodlawn 1914 Galway—4.	Dec. 25	Jan. 22	29	6.75	.60	.02	.23
	Jan. 30	Feb. 13	15	3.35	1.40	.01	.22
	July 18	Aug. 3	17	4.52	1.07	.03	.27
Crossmolina (Enniscoe) 1914 Mayo—2.	Dec. 24	Jan. 24	32	8.13	1.28	.02	.25
	Jan. 30	Feb. 13	15	3.47	.81	.03	.23
	Mar. 29	April 16	19	3.03	.42	.03	.16
	July 9	July 27	19	3.22	.93	.02	.17
	Nov. 28	Dec. 17	20	4.51	.76	.04	.23
Collooney (Markree Obsy.) .. 1914 Sligo—2.	Dec. 25	Jan. 16	23	6.16	.86	.03	.27
	April 1	April 15	15	2.75	.49	.03	.18
	Nov. 27	Dec. 17	21	3.62	.56	.01	.17
Mohill Rectory Leitrim—5.	July 18	Aug. 3	17	2.86	.65	.01	.17
Ballymena (Harryville) Antrim—5.	Jan. 4	Jan. 22	19	3.41	.73	.03	.18
Myroe (Culmore House) Londonderry—5.	Mar. 31	April 16	17	2.27	.43	.02	.13
Omagh (Edenfel) Tyrone—3.	Jan. 3	Jan. 25	23	3.98	.69	.01	.17
	Mar. 30	April 15	17	2.42	.45	.01	.14
	July 18	Aug. 3	17	3.43	1.05	.02	.20
Dunfanaghy (Horn Head) 1914 Donegal—3.	Dec. 25	Jan. 25	32	5.61	.54	.04	.18
	Feb. 16	Mar. 6	19	2.52	.42	.02	.13
	Mar. 26	April 16	22	3.43	.52	.01	.16
	Dec. 3	Dec. 17	15	4.50	1.17	.06	.30
Killybegs (Rockmount) 1914 Donegal—5.	Dec. 24	Jan. 26	34	8.48	.70	.01	.25
	Mar. 29	April 16	19	4.77	1.08	.03	.25

DURATION OF RAINFALL IN 1915.

TEN years ago in prefacing the section of *British Rainfall*, 1905, devoted to the then nearly new subject of the measured duration of rainfall, we wrote "We shall not be content until we are able to publish 20 or 30 good records of duration of rainfall from all parts of the country. At present we receive only one from Scotland and not one at all from Wales or Ireland." In the present volume we are glad to be able to print 48 such records of which four were obtained in Scotland, two in Ireland, and two in Wales, but we regret that the limit for our contentment has advanced with equal strides, and the vision of one hundred is, we dare to hope, more likely of attainment than twenty appeared to be ten years ago.

The general distribution still leaves much to be desired, and there is a certain want of homogeneity on account of the various types of self-recording rain gauge in use, which deprives the results of some of their value, but the steady increase in the amount of attention paid to the subject indicates that the importance of rainfall duration as a climatic factor is becoming more widely recognised, and augurs well for the future.

Five of the new records which we include in the tables for 1915 we owe to the courtesy of Sir Napier Shaw, Director of the Meteorological Office, who has again kindly allowed us to examine the charts from the recording gauges at the observatories maintained by the Office. By this means we have now added, besides the records from Valencia and Armagh, printed last year, those for Kew, Benson, Falmouth, Eskdalemuir and Aberdeen. Of these valuable gains Eskdalemuir is perhaps the most interesting, and more than compensates for the loss of the Tynemouth record foreshadowed last year. Other new records include Dormans Park, near East Grinstead, Copdock, near Ipswich, and Bidston Observatory, Birkenhead. We have also a complete record for the first time from Moretonhampstead, on Dartmoor, which with Falmouth and Plymouth, renders the representation of the Devon-Cornwall peninsula much more satisfactory. We regret that we have not received the record from Almely,

in Herefordshire, which has been discontinued for the present for reasons arising out of the war, nor that from University College, Cork. The gauge at Kinlochleven, the only one of its kind from which we have any data from the West Highlands of Scotland, was, unfortunately, not working very well during part of the year, and it was necessary to estimate the duration on some days in order to arrive at provisional monthly totals.

The year 1915 completes the thirty-fifth year of the record of rainfall duration at Camden Square, and as this is the only series of observations, so far as we are aware, which covers so long a period, the results are set out in a separate table. Comparing the 1915 totals with the average it will be seen that both the total rainfall and the duration were largely in excess, the former by 33 per cent., and the latter by 31 per cent. The mean rate of fall per hour thus comes out very close to the average. The table also includes the number of rain days, and it is interesting to observe that in spite of the large excess of rainfall, both from the point of view of amount and of duration, the number of days with rain fell below the average by 11 days, or 7 per cent. The mean duration per day was thus extremely high, being 3·7 hours, or about 1 hour above the average. This is the highest mean daily duration yet observed, except in 1903, when it reached 3·8 hours.

For the country as a whole the great majority of the records agree in indicating that the year was one of greater than usual rainfall duration, though the number of years over which the observations extend is insufficient to allow us to form a definite opinion on the point. So far as we are able to see there appears to be no doubt that 1903, and probably also 1912, yielded distinctly larger duration totals, but it is probable that in no other year, during the previous 12, did rain fall for so long a time over the country generally. These remarks must not be applied to Scotland or Ireland, where we have practically no information before 1913.

It is not yet possible to attempt to represent the distribution of rainfall duration by means of maps, partly on account of the very irregular distribution, and partly because we have at present little means of judging of the relative value of the results obtained from various types of rain gauge. Generally speaking the newer types, such as the Halliwell, Fernley, and Hyetograph, have more open scales and are more sensitive than the older forms, such as the Beckley and the old standard Casella. The increasing number of gauges makes it more apparent that some means must be found for standardizing records which differ in this respect. There is also room

for considerable latitude in the interpretation of records of very light rainfall even though obtained with the same type of instrument, and it is

Comparison of Amount, Duration and Intensity of Rainfall, and Number of Rain Days at Camden Square in 1915 with the Average for 34 years, 1881-1914.

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	115	486·3	113	·057	102	152	94
1882	27·14	112	480·7	112	·056	100	165	102
1883	24·40	101	393·5	92	·062	111	164	101
1884	20·35	84	336·8	78	·060	107	150	93
1885	26·64	110	470·0	109	·057	102	165	102
1886	27·01	112	427·2	99	·063	112	176	109
1887	19·21	79	300·3	70	·064	114	140	87
1888	27·74	115	435·7	101	·064	114	173	107
1889	23·85	99	428·5	100	·056	100	169	104
1890	21·23	88	409·5	95	·052	93	161	99
1891	28·15	116	490·3	114	·057	102	178	110
1892	22·61	94	372·5	87	·061	109	158	98
1893	19·80	82	388·0	90	·051	91	148	91
1894	27·94	115	477·7	111	·058	104	185	114
1895	21·47	89	380·0	88	·057	102	137	85
1896	23·52	97	404·3	94	·058	104	159	98
1897	22·86	94	371·2	86	·062	111	164	101
1898	m 17·69	73	m 298·5	69	·059	105	140	87
1899	22·54	93	337·5	79	·067	120	144	89
1900	23·28	96	366·3	85	·064	114	174	107
1901	22·17	92	310·2	72	M ·071	127	m 128	79
1902	20·84	86	352·5	82	·059	105	162	100
1903	M 38·10	157	M 688·5	160	·055	98	179	110
1904	20·65	85	491·8	114	m ·042	75	160	99
1905	22·97	95	456·4	106	·050	89	162	100
1906	24·26	100	420·4	98	·058	104	163	101
1907	23·01	95	418·8	97	·055	98	175	108
1908	23·67	98	500·7	117	·047	84	157	97
1909	26·75	110	576·5	134	·046	82	M 190	117
1910	25·36	105	491·2	114	·052	93	186	115
1911	24·79	102	473·0	110	·052	93	155	96
1912	27·88	115	516·2	120	·054	96	180	111
1913	22·41	93	453·0	105	·049	87	163	101
1914	25·72	106	513·6	119	·050	89	168	104
Average.	24·23	100	432·9	100	·056	100	163	100
1915	32·18	133	568·9	131	·057	99	152	93
Diff. from average	+ 7·95	+33	+136·0	+31	+·001	-1	-11	-

difficult to suggest any entirely satisfactory method of overcoming anomalies of this nature. In 1915 the smallest rainfall duration appears to have occurred in the east Midlands of England where less than 500 hours were generally recorded. Most of the stations south of the Thames had more than 600 hours, rising to more than 800 in the west. In the west Midlands the records are less uniform, but they agree in showing more than 600 hours, rising to more than 900 at Cirencester and Bolton. At Lower Laithe reservoir, near Haworth, the very high total of 1,118 hours was reported, but the other stations in Lancashire and Yorkshire recorded between 600 and 800 hours. The only stations in Wales, both in Breconshire, recorded over 1,000 hours. In Scotland there were 1,303 hours at Kinlochleven on the west coast, and 589 hours at Aberdeen on the east coast, while the two more inland stations at Crathes and Eskdalemuir had rather less than 800 hours. The Irish records were surprisingly moderate, 761 hours being measured at Valencia, and 530 hours at Armagh. The mean rate of rain per hour in all parts of the country showed little variation from previous years.

The large duration recorded in most places in 1915 undoubtedly arose from the fact that the bulk of the year's rain fell in the winter, when the rate of fall is always smaller than in the summer, or, in other words, a given amount of rain occupies a longer period of time. Nearly all the stations recorded over 100 hours of rain during December, most of them did so in February and many in January also. At Kinlochleven each month, from January to April, and also November and December, had more than 100 hours. Of the months of the summer half-year July had the greatest duration in the north, and May in the south, whilst June and September were generally the most deficient, though the latter gave a larger duration in the east of Scotland, where several unusually protracted cyclonic rains occurred.

In the tables the amount of rainfall given is always, if possible, taken from a gauge of the direct reading type in preference to the self-recording instrument. Where daily values have been received the letter *D* is added after the name of the station; * indicates that the charts have been measured by the British Rainfall Organization.

*Duration of Rainfall in 1915.**Shad Thames Pump. Stat., London.D*

LONDON COUNTY COUNCIL.

N. and Z's Hyetograph. 43 ft. above Sea.

1915.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	3.42	98.6	.035
Feb.	2.76	83.2	.033
March ....	.44	43.3	.010
April ....	.94	30.5	.031
May	3.12	58.0	.054
June ....	.49	11.7	.042
July	2.82	51.0	.055
Aug.	2.45	34.5	.071
Sept.	1.93	24.3	.079
Oct.	1.82	63.2	.029
Nov.	2.13	60.8	.035
Dec.	4.72	105.7	.045
Year	27.04	664.8	.041

Hampstead Observatory, London.

MR. E. L. HAWKE, F.R.Met.Soc.

N. and Z's Hyetograph. 451 ft. above Sea.

1915.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	4.25	93.4	.046
Feb.	3.47	67.0	.052
March ....	.90	37.6	.024
April	1.22	34.5	.035
May	3.71	57.3	.065
June ....	.71	9.3	.076
July	5.96	48.3	.123
August	2.89	30.3	.095
Sept.	2.15	21.4	.100
Oct.	2.26	58.3	.039
Nov.	2.38	49.0	.049
Dec.	6.00	100.1	.060
Year	35.90	606.5	.059

*Camden Square, London.D**

DR. H. R. MILL, F.R.Met.Soc.

Casella's Standard. 111 ft. above Sea

	in.	hours.	in.
Jan.	4.12	86.5	.048
Feb.	3.42	67.2	.051
March ....	.86	34.8	.025
April	1.13	31.8	.035
May	3.72	52.7	.071
June ....	.69	8.8	.078
July	4.10	44.7	.092
Aug.	2.27	22.3	.102
Sept.	1.86	20.0	.093
Oct.	2.06	54.5	.038
Nov.	2.31	47.4	.049
Dec.	5.64	98.2	.057
Year	32.18	568.9	.057

*Hill Crest, Dormans Park, Surrey.D**

MRS. H. R. MILL.

N. and Z's Hyetograph. 340 ft. above Sea.

	in.	hours.	in.
Jan.	4.12	..	..
Feb.	6.16	94.7	.065
March ....	.66	22.5	.029
April	1.65	37.3	.044
May	3.69	57.0	.065
June ....	.78	9.5	.082
July	4.66	44.9	.104
Aug.	2.24	27.3	.082
Sept.	1.63	22.4	.073
Oct.	2.75	67.6	.041
Nov.	3.46	71.4	.049
Dec.	8.19	150.4	.054
Year	39.99	..	..

Park Hill House, Croydon, Surrey.

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

265 ft. above Sea.

	in.	hours.	in.
Jan.	4.16	73.2	.057
Feb.	5.02	72.6	.069
March ....	.67	16.9	.040
April	1.59	36.9	.043
May	3.11	50.2	.062
June ....	.57	6.8	.084
July	3.73	35.7	.104
Aug.	2.62	21.2	.124
Sept.	2.23	22.6	.099
Oct.	2.54	55.2	.046
Nov.	2.45	47.9	.051
Dec.	5.76	97.1	.059
Year	34.45	536.3	.064

Edenfield, New Malden, Surrey.

MR. W. J. CARTER, F.R.Met.Soc.

Casella's Recorder. 43 ft. above Sea.

	in.	hours.	in.
Jan.	3.76	85.2	.044
Feb.	3.35	100.3	.033
March ....	.75	42.6	.018
April	1.42	51.0	.028
May	3.02	56.3	.054
June ....	.61	17.9	.034
July	3.36	58.1	.058
Aug.	2.38	33.9	.070
Sept.	2.19	24.5	.089
Oct.	2.69	68.8	.039
Nov.	2.08	66.6	.031
Dec.	5.27	138.6	.038
Year	30.88	743.8	.042

<i>New Observatory, Surrey.D*</i> METEOROLOGICAL OFFICE. Beckley Gauge. 20 ft. above Sea.				<i>The Old House, Sevenoaks, Kent.D</i> MR. W. TATTERSALL, F.R.Met.Soc. N. and Z's. Hyetograph. 510 ft. above Sea.			
1915.	Rainfall.	Duration.	Rate per hour.	1915.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.		in.	hours.	in.
Jan.	4.01	67.7	.059	Jan.	3.72	115.4	.032
Feb.	3.15	55.8	.056	Feb.	4.65	121.0	.038
March ....	.77	23.0	.033	March ....	.75	44.6	.017
April	1.20	27.1	.044	April	1.66	58.5	.028
May	3.08	44.7	.069	May	3.41	66.8	.051
June .....	.57	5.9	.097	June ....	.70	14.8	.047
July	4.07	33.9	.120	July	3.69	56.0	.066
Aug.	3.21	21.8	.147	Aug.	1.83	32.8	.056
Sept.	2.28	21.6	.106	Sept.	2.63	30.5	.086
Oct.	2.21	47.9	.046	Oct.	2.59	75.5	.034
Nov.	1.97	31.8	.062	Nov.	3.47	76.5	.045
Dec.	5.18	79.5	.065	Dec.	6.90	153.7	.045
Year	31.70	460.7	.069	Year	36.00	846.1	.043
<i>Isfield Place, Sussex.D*</i> MAJOR H. KING. N. and Z's. Hyetograph. 41 ft. above Sea.				<i>Timsbury, Hants.</i> MR. D. KITCHINGMAN, M.Inst.C.E. N. & Z. Tipping-bucket. 90 ft. above Sea.			
	in.	hours.	in.		in.	hours.	in.
Jan.	2.94	76.4	.038	Jan.	4.36	107.4	.041
Feb.	4.97	92.2	.054	Feb.	6.10	119.4	.051
March ..	.60	23.4	.026	March ....	.92	27.8	.033
April	1.53	38.0	.040	April	1.09	28.0	.039
May	3.71	56.3	.066	May	3.27	53.5	.061
June ....	.70	13.6	.051	June	1.19	15.6	.076
July	4.55	47.9	.095	July	4.40	48.2	.091
Aug.	1.86	17.5	.106	Aug.	1.42	26.9	.052
Sept.	2.91	36.1	.081	Sept.	2.81	32.3	.087
Oct.	2.88	57.3	.050	Oct.	3.68	75.6	.049
Nov.	4.10	60.0	.068	Nov.	2.63	48.7	.054
Dec.	8.22	132.5	.062	Dec.	7.35	145.1	.051
Year	38.97	651.2	.060	Year	39.22	728.5	.054
<i>Twyford, Hants.</i> MR. D. KITCHINGMAN, M.Inst.C.E. N. & Z. Tipping-bucket. 139 ft. above Sea.				<i>University College, Reading, Berks.D</i> DR. H. N. DICKSON, F.R.Met.Soc. N. and Z's. Hyetograph. 153 ft. above Sea.			
	in.	hours.	in.		in.	hours.	in.
Jan.	4.42	94.1	.047	Jan.	3.20	73.3	.044
Feb.	6.03	110.2	.055	Feb.	3.73	80.6	.046
March	1.13	20.7	.055	March ....	.86	22.3	.039
April	1.12	28.0	.040	April ....	.82	16.7	.049
May	3.47	63.6	.054	May	3.10	50.1	.062
June ....	.91	19.1	.048	June .....	.92	13.8	.067
July	5.81	50.1	.116	July	4.85	40.6	.119
Aug.	1.71	28.0	.061	August	2.83	27.8	.102
Sept.	2.58	36.0	.072	Sept.	2.86	28.7	.100
Oct.	3.79	76.5	.050	Oct.	2.91	66.5	.044
Nov.	2.79	52.8	.053	Nov.	1.91	32.8	.058
Dec.	8.13	133.6	.061	Dec.	5.40	106.5	.051
Year	41.89	712.7	.059	Year	33.39	559.7	.060

Benson Observatory, Oxfordshire.
 METEOROLOGICAL OFFICE.
 Dines Gauge. 186 ft. above Sea.

1915.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	2.63	..	..
Feb.	3.65	66.2	.055
March	1.01	23.5	.043
April ....	.77	18.0	.043
May	2.46	50.9	.048
June ....	.55	10.8	.051
July	3.21	44.4	.072
Aug.	2.94	28.9	.102
Sept.	2.96	31.9	.093
Oct.	1.90	64.4	.029
Nov.	1.78	34.5	.052
Dec.	3.92	83.7	.047
Year	27.78	..	..

*Woodford House, Cranford, Northants D**
 MR. E. N. PLEVINS, F.R. Met. Soc.
 N. and Z's. Hyetograph. 252 ft. above Sea.

1915.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	1.99	64.8	.031
Feb.	2.06	66.7	.031
March ....	.75	33.6	.022
April ....	.58	21.7	.026
May	1.95	40.1	.049
June ....	.87	9.9	.088
July	3.44	47.3	.073
Aug.	2.59	25.0	.104
Sept. ....	.97	14.4	.067
Oct.	1.07	39.9	.027
Nov.	2.05	44.3	.046
Dec.	3.93	81.0	.049
Year	22.25	488.7	.046

Rookwood, Copdock, Suffolk. D
 MR. F. L. BLAND.
 N. and Z's. Hyetograph. 164 ft. above Sea.

	in.	hours.	in.
Jan.	2.66	65.5	.041
Feb.	3.38	68.5	.049
March	1.42	30.0	.047
April	1.16	46.5	.025
May	2.24	39.5	.057
June ....	.46	10.5	.044
July	3.74	42.6	.088
Aug.	2.78	28.9	.096
Sept.	1.44	16.6	.087
Oct.	1.38	32.0	.043
Nov.	1.98	37.1	.053
Dec.	5.09	95.8	.053
Year	27.73	513.5	.054

Lyngate Cottage, Worstead, Norfolk.
 MR. ROBERT CROSS.
 N. and Z's. Hyetograph. 55 ft. above Sea.

	in.	hours.	in.
Jan.	3.46	73.9	.047
Feb.	2.53	57.8	.044
March	2.13	47.3	.045
April ....	.99	24.3	.041
May	2.08	41.1	.051
June ....	.66	7.2	.092
July	4.84	36.6	.132
Aug.	3.35	29.2	.115
Sept.	1.38	12.5	.110
Oct.	2.08	35.5	.059
Nov.	3.71	47.3	.079
Dec.	3.77	78.1	.048
Year	30.98	490.8	.063

*The Hoe, Plymouth, Devon. D**
 MR. JAMES PATON.
 Halliwell Recorder. 117 ft. above Sea.

	in.	hours.	in.
Jan.	39.1	96.0	.041
Feb.	6.89	158.2	.044
March	1.19	46.6	.026
April	1.37	48.6	.028
May	2.82	69.9	.040
June	2.16	49.4	.044
July	4.05	61.3	.066
Aug.	1.48	37.2	.040
Sept.	1.13	25.6	.044
Oct.	5.72	82.2	.070
Nov.	3.18	46.3	.069
Dec.	9.84	147.4	.067
Year	43.74	868.7	.050

*Freedom Park, Plymouth, Devon. D**
 MR. JAMES PATON.
 N. and Z's. Hyetograph. 208 ft. above Sea.

	in.	hours.	in.
Jan.	4.56	95.0	.048
Feb.	7.54	148.9	.051
March	1.26	39.7	.032
April	1.46	43.6	.033
May	3.04	65.6	.046
June	2.04	45.4	.045
July	4.32	63.5	.068
Aug.	1.65	40.5	.041
Sept.	1.19	20.4	.058
Oct.	6.05	90.1	.067
Nov.	3.53	52.0	.068
Dec.	11.14	153.1	.073
Year	47.78	857.8	.056

Moretonhampstead Rectory, Devon.
 REV. S. D. DEWEY, F.R.Met.Soc.
 N. and Z's. Hyetograph. 600 ft. above Sea.

1915.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	4.20	118.3	.036
Feb.	8.10	164.5	.049
March ....	.44	25.4	.017
April	1.05	43.2	.024
May	2.38	59.3	.040
June	1.22	23.9	.051
July	3.08	62.6	.049
Aug.	2.21	27.3	.081
Sept.	1.06	18.5	.057
Oct.	5.99	111.5	.054
Nov.	3.17	66.1	.048
Dec.	10.48	198.1	.053
Year	43.38	918.7	.047

Melbury Reservoir, Parkham, Devon.
 MR. BALDWIN LATHAM, M. Inst.C.E.
 N. & Z. Tipping-bucket. 516 ft. above Sea.

1915.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	5.22	125.3	.042
Feb.	8.51	164.5	.052
March	1.31	43.0	.030
April	2.39	64.1	.037
May	3.73	64.5	.058
June	1.66	58.3	.028
July	4.98	112.2	.044
Aug.	2.60	75.7	.034
Sept.	2.22	55.2	.040
Oct.	4.96	97.9	.051
Nov.	4.15	77.8	.053
Dec.	12.39	220.7	.056
Year	54.12	1159.2	.047

*Falmouth Observatory, Cornwall.**
 METEOROLOGICAL OFFICE.
 Beckley Guage. 169 ft. above Sea.

	in.	hours.	in.
Jan.	6.11	97.3	.063
Feb.	8.51	127.9	.067
March ....	.88	27.1	.033
April	1.79	45.3	.039
May	3.78	52.9	.072
June	3.06	58.6	.052
July	4.78	49.4	.097
Aug.	1.78	22.0	.081
Sept.	1.54	23.6	.065
Oct.	5.60	66.6	.084
Nov.	3.27	41.7	.078
Dec.	10.93	131.4	.083
Year	52.03	743.8	.070

Dollarward House, Cirencester, Glos.D
 MR. C. P. HOOKER, F.R.Met.Soc.
 N. and Z's. Hyetograph. 366 ft. above Sea.

	in.	hours.	in.
Jan.	4.81	122.1	.039
Feb.	5.00	132.8	.038
March	1.34	45.0	.030
April	1.24	62.2	.020
May	3.65	76.3	.048
June	2.11	13.0	.162
July	4.80	52.0	.092
Aug.	2.06	43.5	.047
Sept.	1.50	32.3	.046
Oct.	4.26	110.2	.039
Nov.	2.14	56.5	.038
Dec.	6.78	174.3	.039
Year	39.69	920.2	.043

West Bromwich, Staffordshire.D
 MR. A. D. GREATOREX, M.Inst.C.E.
 N. and Z's. Hyetograph. 543 ft. above Sea.

	in.	hours.	in.
Jan.	2.72	66.2	.041
Feb.	3.54	96.7	.037
March ....	.67	27.9	.024
April ....	.96	30.6	.031
May	1.78	60.8	.029
June ....	.88	12.3	.072
July	5.71	72.5	.079
Aug.	2.47	34.5	.072
Sept. ....	.33	10.2	.032
Oct.	1.75	71.4	.025
Nov.	2.21	54.1	.041
Dec.	4.64	138.9	.033
Year	27.66	676.1	.041

Sewage Works, Bilston, Staffordshire.
 MR VINCENT TURNER, A.M.Inst.C.E.
 N. and Z's. Hyetograph. 423 ft. above Sea.

	in.	hours.	in.
Jan.	2.67	63.3	.042
Feb.	3.53	82.8	.041
March ....	.62	20.4	.030
April	1.22	31.1	.039
May	2.44	55.8	.044
June ....	.98	19.9	.049
July	6.96	70.8	.098
Aug.	1.63	28.4	.057
Sept. ....	.51	14.0	.036
Oct.	1.97	62.0	.032
Nov.	2.43	50.5	.048
Dec.	5.06	123.0	.041
Year	30.02	622.0	.048

Mayfield House [Ashbourne], Staffs.
MR. GRAHAM C. LAWSON.
Casella's Recorder. 374 ft. above Sea.

1915.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	4.18	109.2	.038
Feb.	3.61	96.1	.037
March	1.23	43.6	.028
April	1.01	31.8	.032
May	1.46	59.4	.025
June	3.06	23.2	.132
July	5.56	79.2	.070
Aug.	2.73	51.9	.053
Sept. ....	.41	15.2	.027
Oct.	2.59	64.3	.040
Nov.	2.62	57.0	.046
Dec.	6.13	150.7	.040
Year	34.59	781.6	.044

Bourneville, Selly Oak, Warwickshire.D
MESSRS. CADBURY, BROS. LTD.
N. and Z's. Hyetograph. 433 ft. above Sea.

1915.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	3.60	79.7	.045
Feb.	4.75	92.7	.051
March ....	.88	29.1	.030
April	1.18	31.1	.038
May	2.29	68.4	.033
June	1.57	12.8	.123
July	7.26	70.6	.103
Aug.	1.66	22.3	.074
Sept. ....	.72	13.9	.052
Oct.	2.47	65.4	.038
Nov.	2.89	46.0	.063
Dec.	5.25	99.3	.053
Year	34.52	631.3	.055

Trent Lane, Nottingham.D
MR. A. BROWN, M.Inst.C.E., F.R.Met.Soc.
Halliwell Recorder. 85 ft. above Sea.

	in.	hours.	in.
Jan.	2.35	38.8	.061
Feb.	2.72	45.5	.060
March ....	.95	22.5	.042
April ....	.73	17.6	.041
May	1.69	41.5	.041
June ....	.92	12.3	.075
July	6.05	52.2	.116
Aug.	2.26	38.1	.059
Sept. ....	.71	8.8	.081
Oct.	1.27	29.3	.043
Nov.	2.44	44.9	.054
Dec.	4.69	90.1	.052
Year	26.78	441.6	.061

Hodsock Priory, Nottinghamshire.
LT.-COL. H. MELLISH, F.R.Met.Soc.
Halliwell Recorder. 56 ft. above Sea.

	in.	hours.	in.
Jan.	2.15	50.0	.043
Feb.	2.67	73.1	.036
March ....	.99	30.3	.033
April ....	.76	18.3	.041
May	1.39	30.1	.046
June ....	.71	9.3	.076
July	4.57	50.5	.091
Aug.	3.18	40.3	.079
Sept. ....	.70	11.1	.063
Oct.	1.08	28.0	.039
Nov.	2.23	41.8	.053
Dec.	5.31	93.5	.057
Year	25.74	476.3	.054

Bidston Observatory, Cheshire.D
MR. W. E. PLUMMER.
Osler's Guage. 256 ft. above Sea.

	in.	hours.	in.
Jan.	3.10	83.4	.037
Feb.	2.48	78.0	.032
March	1.01	42.1	.024
April	1.34	55.8	.024
May	1.31	44.1	.030
June ....	.80	26.3	.030
July	2.73	57.4	.048
Aug.	4.78	72.3	.066
Sept. ....	.44	16.3	.027
Oct.	2.25	40.9	.055
Nov.	2.10	61.7	.034
Dec.	4.49	130.3	.034
Year	26.83	708.6	.038

"Myra," Blundellsands, Lancashire.
MR. HUGH MONTGOMERY, F.R.Met.Soc.
N. and Z's. Hyetograph. 35 ft. above Sea.

	in.	hours.	in.
Jan.	3.47	67.3	.052
Feb.	2.61	49.7	.052
March	1.15	35.8	.032
April	1.60	46.7	.034
May	1.07	29.5	.036
June ....	.95	19.5	.049
July	2.91	40.0	.073
Aug.	3.75	46.0	.082
Sept. ....	.58	8.5	.068
Oct.	1.76	37.0	.048
Nov.	1.91	46.0	.042
Dec.	5.83	131.5	.044
Year	27.59	557.5	.049

Queens Park, Bolton, Lancashire.
MR. THOS. MIDGLEY, F.R.Met.Soc.
Casella's Recorder. 342 ft. above Sea.

1915.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	6.23	160.0	.039
Feb.	4.50	114.8	.039
March	2.29	62.5	.037
April	2.14	62.5	.034
May	1.89	37.0	.051
June	2.68	25.2	.106
July	4.40	85.3	.052
Aug.	5.46	81.5	.067
Sept. ....	.94	16.5	.057
Oct.	2.29	40.5	.057
Nov.	1.92	53.0	.036
Dec.	8.97	174.5	.051
Year	43.71	913.3	.048

Worden Hall, Leyland, Lancashire.
MR. H. NOWELL FFARINGTON, F.R.Met.Soc.
N. and Z's. Hyetograph. 125 ft. above Sea.

1915.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	5.08	101.2	.050
Feb.	4.08	102.3	.040
March	1.57	52.3	.030
April	2.05	56.5	.036
May	1.35	33.0	.041
June	2.51	34.0	.074
July	3.77	63.5	.059
Aug.	4.60	63.8	.072
Sept. ....	.62	14.4	.043
Oct.	1.06	28.4	.037
Nov.	2.21	35.5	.062
Dec.	5.71	146.3	.039
Year	34.61	731.2	.047

Hesketh Park, Southport, Lancashire.
MR. J. BAXENDELL, F.R.Met.Soc.
N. and Z's. Fernley gauge. 39 ft. above Sea.

	in.	hours.	in.
Jan.	3.98	82.5	.048
Feb.	3.55	84.6	.042
March	1.26	42.6	.030
April	2.28	62.7	.036
May	1.31	43.0	.031
June	1.64	31.0	.053
July	3.59	54.0	.067
Aug.	3.57	55.5	.064
Sept. ....	.96	13.2	.073
Oct.	1.33	34.6	.038
Nov.	2.14	44.3	.048
Dec.	6.44	156.6	.041
Year	32.05	704.6	.046

Huddersfield Cemetery, Yorkshire.
MR. J. FIRTH.
Halliwell Recorder. 410 ft. above Sea.

	in.	hours.	in.
Jan.	5.21	107.7	.048
Feb.	4.27	103.9	.041
March	1.10	42.3	.026
April	1.38	39.8	.035
May	1.95	43.4	.045
June ....	.97	13.0	.075
July	4.17	59.9	.070
Aug.	3.68	62.5	.059
Sept. ....	.70	15.4	.045
Oct.	1.53	39.5	.039
Nov.	2.25	54.7	.041
Dec.	7.75	161.5	.048
Year	34.96	743.6	.047

Lower Laithe Res., Haworth, Yorks.
MR. M. R. BARNETT, M.Inst.C.E.
N. and Z's. Hyetograph. 772 ft. above Sea.

	in.	hours.	in.
Jan.	7.65	159.2	.048
Feb.	7.05	140.1	.050
March	1.16	61.4	.019
April	2.20	64.0	.034
May	2.03	52.1	.039
June ....	.72	19.2	.038
July	5.01	95.0	.053
Aug.	4.91	86.8	.056
Sept. ....	.86	19.3	.045
Oct.	1.68	67.6	.025
Nov.	2.68	62.3	.043
Dec.	9.14	291.2	.031
Year	45.09	1118.2	.040

Town Hall, Skipton, Yorkshire.
MR. A. E. W. ALDRIDGE.
N. and Z's. Hyetograph. 367 ft. above Sea.

	in.	hours.	in.
Jan.	4.75	111.3	.043
Feb.	4.49	102.1	.044
March	1.28	40.0	.032
April	1.53	39.4	.039
May	1.76	26.6	.066
June	1.70	16.7	.102
July	3.82	82.0	.047
Aug.	3.59	60.5	.059
Sept. ....	.80	12.0	.067
Oct.	1.04	25.0	.042
Nov.	1.67	41.8	.040
Dec.	6.42	176.7	.036
Year	32.85	734.1	.045

*Mount St. John, Thirsk, Yorkshire.D*MR. A. J. WALKER, F.R.Met.Soc.
Halliwell Recorder. 542 ft. above Sea

1915.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	3·60	102·3	·035
Feb.	3·34	105·6	·032
March	1·36	47·6	·029
April	1·19	34·5	·034
May	1·27	34·3	·037
June	·27	8·5	·032
July	4·11	59·2	·069
Aug.	3·23	42·4	·076
Sept.	·82	25·5	·032
Oct.	1·10	32·1	·034
Nov.	2·04	52·7	·039
Dec.	4·92	133·8	·037
Year	27·25	678·5	·040

*Mount St. John, Thirsk, Yorkshire.D*MR. A. J. WALKER, F.R.Met.Soc.
Newey Recorder. 542 ft. above Sea.

1915.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	3·60	108·7	·033
Feb.	3·34	104·9	·032
March	1·36	46·9	·029
April	1·19	38·5	·031
May	1·27	34·3	·037
June	·27	7·9	·034
July	4·11	64·3	·064
Aug.	3·23	41·4	·078
Sept.	·82	24·1	·034
Oct.	1·10	32·3	·034
Nov.	2·04	58·2	·035
Dec.	4·92	130·0	·038
Year	27·25	691·5	·039

*Mount St. John, Thirsk, Yorkshire.D*MR. A. J. WALKER, F.R.Met.Soc.
Lander & Smith's Gauge. 542 ft. above Sea.

	in.	hours.	in.
Jan.	3·60	101·7	·035
Feb.	3·34	98·0	·034
March	1·36	35·1	·039
April	1·19	36·7	·032
May	1·27	32·4	·039
June	·27	8·0	·034
July	4·11	64·2	·064
Aug.	3·23	45·0	·072
Sept.	·82	24·2	·034
Oct.	1·10	33·1	·033
Nov.	2·04	54·8	·037
Dec.	4·92	107·7	·046
Year	27·25	640·9	·042

*Mount St. John, Thirsk, Yorkshire.D*MR. A. J. WALKER, F.R.Met.Soc.
N. and Z's Hyetograph. 542 ft. above Sea.

	in.	hours.	in.
Jan.	3·60	98·1	·037
Feb.	3·34	90·6	·037
March	1·36	40·3	·034
April	1·19	35·2	·034
May	1·27	32·2	·039
June	·27	8·3	·034
July	4·11	59·6	·069
Aug.	3·23	38·1	·085
Sept.	·82	18·5	·044
Oct.	1·10	28·2	·039
Nov.	2·04	49·1	·042
Dec.	4·92	119·7	·041
Year	27·25	617·9	·044

*Cray Reservoir, Breconshire.*MR. R. H. WYRILL, M.Inst.C.E.
Halliwell Recorder. 1030 ft. above Sea.

	in.	hours.	in.
Jan.	6·31	149·9	·042
Feb.	11·01	174·2	·063
March	1·87	67·8	·028
April	2·95	91·8	·032
May	3·49	90·8	·038
June	2·14	44·1	·049
July	7·50	128·3	·058
Aug.	3·22	70·0	·046
Sept.	1·06	52·2	·020
Oct.	4·67	111·3	·042
Nov.	4·73	98·5	·048
Dec.	15·04	258·9	·058
Year	63·99	1337·8	·048

*Aber Clyd, Black Mtns., Breconshire.D**THE REFEREES, ABERTILLERY W.B. ACT.
N. and Z's Hyetograph. 1880 ft. above Sea

	in.	hours.	in.
Jan.	5·19	131·1	·039
Feb.	9·12	154·6	·059
March	1·15	44·2	·026
April	1·90	56·0	·034
May	6·41	89·9	·071
June	1·81	24·6	·074
July	6·01	71·3	·084
Aug.	4·53	62·6	·072
Sept.	·92	31·8	·029
Oct.	7·56	110·8	·068
Nov.	3·94	56·3	·070
Dec.	10·85	168·1	·065
Year	59·39	1001·3	·059

*Eskdalemuir Obsy., Dumfries.D**

METEOROLOGICAL OFFICE.

Beckley Gauge. 799 ft. above Sea.

1915.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	4.24	79.2	.054
Feb.	9.71	137.7	.071
March	2.91	46.6	.062
April	3.83	66.6	.058
May	1.42	26.8	.053
June	1.66	19.0	.087
July	5.29	74.4	.071
Aug.	2.88	38.5	.075
Sept.	1.93	39.5	.049
Oct.	2.36	43.6	.054
Nov.	3.83	61.2	.063
Dec.	8.11	156.9	.052
Year	48.17	790.0	.061

*Blackwater Dam, Glenleven, Argyll.D**

THE BRITISH ALUMINIUM Co.

N. and Z's. Hyetograph. 1072 ft. above Sea

1915.	Rainfall.	Duration.	Rate per hour.
	in.	hours.	in.
Jan.	9.28	196.5	.047
Feb.	8.60	138.2	.062
March	5.38	129.7	.044
April	7.41	146.1	.051
May	1.49	40.4	.032
June	1.26	22.3	.056
July	5.28	98.1	.054
Aug.	4.06	96.1	.042
Sept.	2.35	70.8	.033
Oct.	4.08	68.5	.060
Nov.	3.67	105.9	.035
Dec.	7.87	190.7	.041
Year	60.73	1303.3	.046

Pinewood, Crathes, Kincardineshire.D

MR. JAMES SMITH.

N. and Z's. Hyetograph. 142 ft. above Sea

	in.	hours.	in.
Jan.	2.95	55.4	.053
Feb.	7.73	103.3	.075
March	1.57	55.7	.028
April ....	.68	25.4	.027
May ....	.96	31.5	.030
June ....	.95	28.4	.033
July	5.58	63.9	.087
Aug.	1.21	34.5	.035
Sept.	2.53	65.6	.039
Oct.	7.10	88.0	.081
Nov.	3.10	53.3	.058
Dec.	9.74	187.0	.052
Year	44.10	792.0	.056

*Aberdeen, King's College, Aberdeen.D**

METEOROLOGICAL OFFICE.

Beckley Gauge. 44 ft. above Sea.

	in.	hours.	in.
Jan.	3.25	64.4	.050
Feb.	3.43	62.3	.055
March	2.12	46.3	.046
April	1.12	23.3	.048
May ....	.86	21.3	.040
June	1.37	26.8	.051
July	4.25	45.8	.093
Aug.	1.53	25.6	.060
Sept.	2.73	44.9	.061
Oct.	2.54	52.2	.049
Nov.	2.67	45.0	.059
Dec.	5.83	131.5	.044
Year	31.70	589.4	.054

*Valencia Observatory, Co. Kerry.D**

METEOROLOGICAL OFFICE.

Beckley Gauge. 30 ft. above Sea.

	in.	hours.	in.
Jan.	5.83	90.8	.064
Feb.	10.13	126.8	.080
March	1.32	29.4	.045
April	1.96	32.4	.060
May	1.76	42.0	.042
June	2.74	31.7	.086
July	5.75	81.8	.070
Aug.	2.39	35.3	.063
Sept.	5.16	58.8	.088
Oct.	9.02	81.4	.111
Nov.	6.11	62.6	.098
Dec.	7.50	87.7	.086
Year	59.67	760.7	.078

*Armagh Observatory, Co. Armagh.D**

METEOROLOGICAL OFFICE.

Beckley Gauge. 210 ft. above Sea.

	in.	hours.	in.
Jan.	2.86	52.1	.057
Feb.	3.55	69.0	.051
March ....	.86	16.8	.051
April	2.13	53.1	.040
May ....	.87	23.7	.037
June	1.73	25.8	.067
July	3.74	50.9	.074
Aug.	2.83	40.4	.070
Sept.	1.47	19.8	.074
Oct.	2.26	43.6	.052
Nov.	1.72	33.1	.052
Dec.	5.17	101.6	.051
Year	29.19	529.9	.055

HEAVY RAINS IN SHORT PERIODS IN 1915.

THE number of instances of noteworthy rainfalls of short duration which have been brought to our notice this year is larger than usual. We are not in a position to say whether this may be attributed to an exceptional frequency of such phenomena or to increased vigilance on the part of Observers. We have endeavoured for many years, with only partial success, to stimulate interest in this important branch of rainfall work, especially in view of the fact that information as to the most intense rainfalls which are likely to occur in the British Isles is of great practical utility in some branches of engineering work. The data which the successive editors of *British Rainfall* have been able to bring together, and put on permanent record are admittedly scanty and imperfect, but they constitute, as far as we know, the only consistent attempt to deal with the subject, and we earnestly hope that Observers will do all they can to render them as complete as possible, by sending notes of all special measurements of heavy rainfalls, whether made with the ordinary rain gauge or taken from the charts of a self-recording instrument.

The records of past years have been carefully analyzed in order to arrive at some standard of comparison between individual falls, and in 1908 an improved diagram was constructed on the plan originally adopted by Mr. Symons, by means of which the comparative rarity of heavy rainfalls may be judged. The diagram, which is reproduced on p. [54], shows by means of curves the limits of intensity of rainfall which were found to be (i.) so common as not to be worth putting on record individually, (ii.) sufficiently noteworthy to be recorded, though not extremely intense; (iii.) rainfalls of remarkable intensity, and (iv.) rainfalls of such exceptional intensity as to merit the designation "very rare."

The curves were drawn to include periods up to two hours, although until this year only the portion up to one hour has been printed. The part of the diagram for durations between one and two hours was supported

by less numerous data than the earlier part, but experience acquired since 1908 has increased our confidence in the appropriateness of the limits assigned, and we now reproduce the whole curve.

Table I. sets out the limits represented by the curves for intervals of ten minutes.

TABLE I.—*Limits of Exceptional 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
70.....	1·07	·92	1·81	1·55	2·54	2·18
80.....	1·12	·84	1·85	1·39	2·57	1·93
90.....	1·15	·77	1·89	1·26	2·60	1·73
100.....	1·18	·71	1·92	1·15	2·62	1·57
110.....	1·21	·66	1·93	1·05	2·64	1·44
120.....	1·23	·61	1·94	·97	2·65	1·33

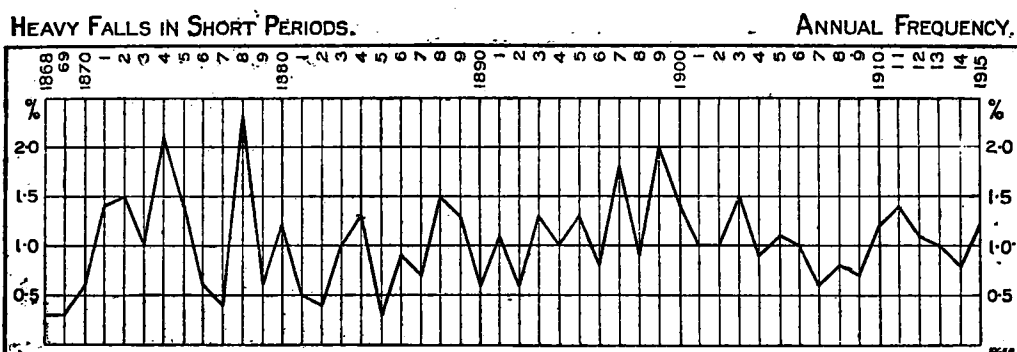
This classification takes no account of geographical distribution, but measures all intense rainfalls recorded by a uniform standard irrespective of the part of the country in which they occurred. There is no doubt, however, that considerable differences exist between the climates of different parts of the country in respect to their liability to short rainfalls of great intensity. The incompleteness of the data to which we have already referred renders it impossible to speak in any but the broadest sense, but the great infrequency of falls of "remarkable" intensity in the rainy western districts, such as the west of Scotland, is too striking to be overlooked. That this is not due to the smaller number of rainfall Observers in these districts is clear from an examination of the long series of observations of intensity kept for many years at Ben Nevis, Fort William, Glasgow, and Paisley. At none of these stations has the intensity of rainfall recorded found a place on the diagram above the lower limit of the "remarkable" falls.

A rough geographical classification of the instances recorded in the 47 years, 1868-1914, brought up to date from the discussion in *British Rainfall* 1913, pp. 46-54, gives the following average values for each of four districts in England and Wales, and for Scotland and Ireland

Number of Noteworthy Rains of two hours duration or less.

Average.	England and Wales.					Scotland.	Ireland.	Total.	Per cent. of records received.
	S.E.	S.W.	N.E.	N.W.	Total.				
{ 1868-1914. }	15.3	7.1	4.1	1.9	28.4	2.2	1.1	31.7	1.0
1915.	27	21	7	4	59	6	2	67	1.2

respectively. Similar data for 1915 are added for comparison. It must be borne in mind that the number of observing stations has increased steadily throughout the period, and is now larger than at any previous time, being not far short of double the average of the whole period. The number of records quoted for 1915 is not, therefore, directly comparable with the average, but is chiefly of interest in showing the relation between the various districts. The most notable feature in 1915 is undoubtedly the large preponderance in the south-western counties of England and Wales. In order to make allowance as far as possible for the fluctuating number of stations, the total number of noteworthy rainfalls is, in the last column of the table, expressed as a percentage of the total number of records received in the year. Such percentage values calculated for each year are, in a sense, comparable, and constitute the best available measure of the relative frequency of intense rainfalls. It will be seen by the



comparative curve that the value for 1915, though higher than the average, has frequently been surpassed.

For purposes of comparison we reprint in Table II. a list of all the "very rare" rainfalls of not more than one hour's duration which have occurred since 1868. Two fresh instances are added from the 1915 lists, these being the falls of 2.20 in. in 30 minutes at Abergavenny on July 4th and of 2.63 in. in 50 minutes at Mildenhall, Suffolk, on June 30th.

In Table III. the limits of intensities quoted in Table I. have been utilized. No fall is included which does not reach the "noteworthy"

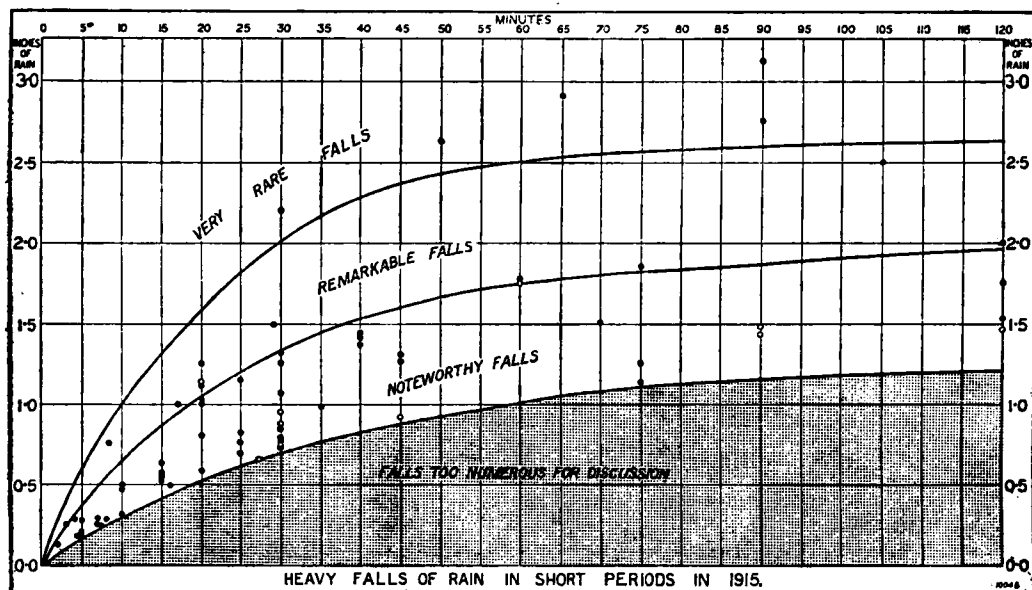
limit, whilst those which lie above the remarkable limit are distinguished by one cross, and those which exceed the "very rare" limit by two crosses.

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.
1912	May 8	XV.	Alexandria	·26	0	1½	10·40
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
1912	July 22	VII.	Wirksworth, Manor House ...	1·00	0	10	6·00
1914	Aug. 14	XI.	Guernsey, St. Martin's Road.	1·50	0	15	6·00
1906	" 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
1915	" 4	XI.	Abergavenny, The Chain	2·20	0	30	4·40
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
1909	Sep. 29	V.	Ilfracombe Reservoir.....	2·50?	0	45	3·33?
1895	June 26	"	Marlborough	2·71	0	50	3·25
1915	" 30	IV.	Mildenhall.....	2·63	0	50	3·15
1903	July 18	VI.	Betley Hall [Crewe].....	2·53	0	50	3·04
1905	" 9	III.	Enfield, Carisbrooke.....	2·44	0	50	2·93
1911	May 31	II.	Epsom, Ashley Road	2·44	0	50	2·93
1901	July 29	"	Wadhurst, Lower Cousley Wood..	3·25?	0	55	3·55?
1913	June 17	IV.	Elveden Hall	2·85	0	58	2·95
1901	July 12	II.	Maidenhead, Lowood.....	3·63	1	0?	3·63?
1903	May 30	"	Beddington Corner.....	3·50	1	0	3·50
1911	" 26	"	Fareham, The Mount	3·00	1	0	3·00
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
1909	" 1	XII.	Carsphairn, Shiel.....	2·71	1	0?	2·71?
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*.

Apart from a local and unseasonable fall of no great importance which occurred in Yorkshire on January 7th, the earliest fall of interest in 1915 which we have to record took place in London on May 6th when 3.12 in. fell between 8.30 and 10 p.m. at the New River Head, Clerkenwell.* This ranks as a "very rare" fall, and can only be compared with the fall of 3.28 in. in an hour and a half at Camden Square on June 23rd, 1878.



When an entry in Table III. is queried, the dot representing the fall is hollow.

On June 10th an isolated heavy rainfall brought 3.03 in. in 3 hours at Llanddeusant, in Carmarthenshire, but no other fall of great importance is reported as having occurred till June 30th, when thunderstorms of some violence took place in the eastern counties yielding a fall of 2.50 in. in 1 hour 45 minutes at Lincoln and of 2.63 in. in 50 minutes at Mildenhall, near Bury St. Edmunds. A local newspaper reports that "a tremendous rain-storm" occurred at East Grinstead, and that .67 in. fell in 12 minutes. Had we obtained confirmation this would of course have appeared in the list as a noteworthy fall. On the same day, during a thunderstorm, 2.10 in. of rain fell in 2 hours 15 minutes at Gatehouse, in Cumberland, an exceptionally intense fall for a district where summer thunderstorms are not common.

The most important intense rainfalls of the year were recorded during

* See *Met. Mag.*, June, 1915, p. 77.

the widespread thunderstorms of July 4th. No fewer than six of the "remarkable" entries in the table refer to this day, and two of these reach the "very rare" standard, these being the fall of 2.20 in. in 30 minutes at The Chain, Abergavenny, already referred to, and that of 2.91 in. in 1 hour 5 minutes at Hampton Poyle, near Woodstock. The chief centres of intensity appear to have been Oxfordshire, Gloucestershire, particularly round Clifton, the north of Somersetshire and the South Wales borders, but noteworthy rainfalls were recorded also as far away as Cambridgeshire and Lincolnshire. At Abergavenny, Mr. Baker Gabb writes, that the heaped up hailstones remained in places for over a week.

In the last week of July and the early days of August several notably intense rains occurred, principally in the north. On July 23rd 1.84 in. fell between 2.45 and 4 p.m. at Dorman's Museum, Middlesbrough, causing serious flooding. It is interesting to observe that all the seven instances recorded of "noteworthy" rainfalls in Scotland took place between July 26th and August 12th, the most intense falls being 1.75 in. in one hour at Biggar on August 2nd, and 1.50 in. in 29 minutes at the Trossachs Hotel on July 26th.* On August 12th 2.75 in. fell in an hour and a half at Scaleby Hall, Carlisle. This storm is said to have been even more severe to the north of Carlisle, but we have no record of its intensity there. A fall of over an inch of rain in half an hour was observed at Horncastle on the same day, but the measurements were only approximate and we do not feel justified in including the record in the list.

The only other heavy rainfall of importance recorded was that of 2.00 in. in two hours on September 24th at Totland Bay in the Isle of Wight. This fall does not appear to have taken place during a thunderstorm, but was part of a long continued and very heavy rainfall associated with the passage northward of a small and shallow cyclonic system which in its later stages, was associated with the almost unprecedented rain storms of September 25th-26th, in the neighbourhood of Inverness.

To sum up, the records of 1915 have added to the list of "very rare" falls, marked in the table for the year by a double cross, five records, of which two had durations of less than an hour, and are accordingly added to Table II., but more intense falls in the same or a shorter time have been recorded previously. Table III. also includes 14 "remarkable" falls, designated by one cross. These numbers are very similar to those reported annually for several years back.

* See *Met. Mag.*, Aug., 1915, p. 110.

TABLE III.—*Heavy Falls in Short Periods in 1915.*

Date.	Div.	Station.	Amount.	Duration.		Rate per hour.
			in.	hr.	min.	in.
Aug. 12	V.	Salisbury Plain, Shrewton .....	.13	0	2	3.90
July 26	XVI.	Trossachs Hotel .....	.25	0	3	5.00
" 29	I.	Hampstead Observatory .....	.28	0	4	4.20
" 29	V.	Salisbury Plain, Shrewton .....	.18	0	4½	2.40
Jan. 7	IX.	Haworth, Lower Laithe Reservoir ..	.28	0	5	3.36
Aug. 1	II.	Isfield Place .....	.20	0	5	2.40
July 26	VIII.	Blundellsands, Myra .....	.18	0	5	2.16
Aug. 16	V.	Salisbury Plain, Shrewton .....	.29	0	7	2.49
July 27	VIII.	Southport, Hesketh Park .....	.25	0	7	2.14
" 29	VI.	Mickleton, Bank House .....	.24	0	7½	1.92
" 23	"	Mickleton, Bank House .....	.28	0	8	2.10
" 4	III.	Boxworth .....	.76	0	8½	5.36x
Aug. 3	XII.	Jardington [Dumfries] .....	.50	0	10	3.00
Aug. 12	II.	Warlingham, Redvers Road .....	.47	0	10	2.82
July 19	XXIII.	Warrenpoint, Clonallon .....	.31	0	10	1.86
Aug. 13	VI.	Tenbury .....	.63	0	15	2.52
" 4	III.	Cranford, Woodford House .....	.57	0	15	2.28
" 4	IV.	Ipswich, Copdock .....	.54	0	15	2.16
" 10	VIII.	Rochdale, Fieldhead Yard .....	.52	0	15	2.08
" 10	II.	Weybridge, Station Road .....	.50	0	16	1.87
July 4	VI.	Clun	1.00	0	17	3.53x
Aug. 2	XI.	Briton Ferry, Cefn Court	1.25	0	20	3.75x
July 4	III.	Woodstock, Freeland House	1.14	0	20?	3.42?x
" 4	VII.	Fritham House	1.12	0	20	3.36x
Aug. 10	II.	Wimbledon, Trinity Road	1.03	0	20	3.09
" 3	II.	Dartford, West Hill House	1.00	0	20	3.00
" 10	XXI.	Ferbane, Turraun .....	.86	0	20	2.58
" 12	V.	Salisbury Plain, Shrewton .....	.80	0	20	2.40
July 4	VI.	Kentchurch Rectory .....	.80?	0	20	2.40?
" 25	XVII.	Crathes .....	.59	0	20	1.77
" 4	V.	Flax Bourton, Backwell Hill House	1.14	0	25	2.74
" 4	"	" " " " " " " "	.82	0	25	1.97
Aug. 10	III.	Royston, Earls Hill House .....	.76	0	25	1.82
July 24	IV.	Colchester, Hill House, Lexden ....	.70	0	25	1.68
Aug. 4	IV.	Ipswich, Copdock .....	.66	0	27?	1.47?
July 26	XVI.	Trossachs Hotel	1.50	0	29	3.10x
" 4	XI.	Abergavenny, The Chain	2.20	0	30	4.40xx
June 25	II.	Hurstbourne Tarrant	1.32	0	30	2.64
July 4	VII.	Hagworthingham	1.25	0	30	2.50
" 4	VI.	Clifton	1.07	0	30	2.14
June 29	IX.	Sheffield, Millhouses .....	.95	0	30?	1.90?
July 4	VI.	Stapleton, Milton Cottage .....	.88	0	30?	1.76?
" 4	"	Kentchurch Rectory .....	.85	0	30	1.70
" 24	IV.	Soley, Frankfort Manor .....	.80	0	30	1.60
" 4	V.	East Anstey, Rhyll Manor .....	.78	0	30	1.56
Aug. 17	V.	Yeovil, Gas Works .....	.75	0	30?	1.50?
May 7	V.	Gussage St. Michael Manor .....	.73	0	30	1.46
July 4	III.	Oxford, Banbury Road .....	.99	0	35	1.70
Aug. 17	II.	Warlingham, The Larches	1.44	0	40	2.16
" 17	"	Grayshott	1.40	0	40	2.10
" 12	IV.	Hawkedon Vicarage	1.37	0	40	2.06

TABLE III.—(continued).

Date.	Div.	Station.	Amount.	Duration.	Rate per hour.
			in.	hr. min.	in.
Aug. 16	IV.	Sloley, Frankfort Manor	1·30	0 45	1·73
„ 12	XVIII.	Alness, Ardross Castle	1·27	0 45	1·69
„ 12	IV.	Haverhill Vicarage	·92	0 45?	1·23?
June 30	IV.	Mildenhall	2·63	0 50	3·16xx
May 7	VI.	Leek, Hillesdon	1·78	1 0	1·78x
Aug. 2	XIV.	Biggar	1·75	1 0?	1·75?x
July 4	III.	Hampton Poyle Rectory	2·91	1 5	2·69xx
June 27	V.	Codford St. Mary, Stockton House ..	1·51	1 10	1·29
July 23	IX.	Middlesborough, Dormans Museum ..	1·84	1 15	1·47x
May 7	VI.	Stratford-on-Avon, Avonfield	1·25	1 15	1·00
Sept. 1	II.	Hailsham Vicarage	1·13	1 15	·90
May 6	I.	Finsbury, New River Head	3·12	1 30	2·08xx
Aug. 12	X.	Carlisle, Scaleby Hall	2·75	1 30	1·67xx
May 7	VI.	Solihull Cemetery	1·48	1 30?	·99?
June 30	III.	Boxworth	1·42	1 30?	·95?
„ 30	VII.	Lincoln, Skellingthorpe Hall	2·50	1 45	1·43x
Sept. 24	II.	Totland Bay, Aston House	2·00	2 0	1·00x
Aug. 13	V.	East Budleigh, Bicton Common	2·00	2 0	1·00x
June 30	VII.	Littleover, The Knoll	1·75	2 0	·88
May 6	IV.	Helmingham, Bocking Hall	1·53	2 0	·76
Aug. 3	XV.	Alexandria, The Rectory	1·46	2 0?	·73?
June 30	X.	Eskdale Green, Gatehouse	2·10	2 15	·93
Aug. 12	XIV.	Turnberry Hotel	2·30	2 30	·92x
June 10	XI.	Llanddeusant	3·03	3 0	1·01x
„ 30	III.	Boxworth	1·69	3 15?	·52?
Aug. 10	XVI.	Kenmore Manse	1·81	3 30	·52

HEAVY FALLS ON RAINFALL DAYS IN 1915.

IN the foregoing sections we have been obliged, as has been explained on p. [13], to confine discussion for the most part to a limited selection from the large number of rainfall records at our disposal, but in the study of the distribution of rainfall over the country on individual wet days we are able to make use of the whole observing strength of the Organization. In all, the daily readings for 1915 at 4551 stations have been examined, and although only a small number of these can be quoted, owing to want of space, the maps in some cases have been constructed from several thousands of separate observations, and many more maps have been drawn than we are able to reproduce.

In the Chronicle, which is prepared on the same lines as in previous years, is given a short account of the distribution of rainfall on each day which is sufficiently interesting to warrant mention, supplemented where necessary by reference to the meteorological conditions prevailing at the time, based partly on the notes of the Observers and partly on the Daily and Monthly Weather Reports of the Meteorological Office. The records quoted include every instance in which the maximum daily rainfall for the year at any station reached 2.50 in., or, alternatively, 7.5 per cent. of the year's total fall at that station. To the maps, when possible, we have added the track of the barometric depression associated with the rainfall in question. In order to provide a comparison with the data printed for 1914, we give a list of the number of instances of daily falls exceeding 2.50 in. *other than* the maximum falls for the year. Only 31 stations, or less than 1 per cent. of the total number, had more than one fall of 2.50 in., and only 4 stations, Dungeon Ghyll, Pen-y-Gwryd, Ladyfield and Foffany, had more than 2, Pen-y-Gwryd having 6. The county with the greatest number of stations with two such falls was Devonshire, whilst four in Westmorland and three in Argyll qualified. The comparative scarcity of days of high fall in the Lake District and the western Highlands was certainly a feature of the year, whilst the occurrence of two separate 2.50 in. falls in the same year at stations in Banff and Nairn must be regarded as a very unusual phenomenon.

Number of stations with two or more falls of 2·50 in. or more in 1915.

County.	Number of Stations.	Number of Falls.	Station with largest number.	
Kent	1	2	Goudhurst	2
Devon	10	20	Several	2
Cumberland	1	2	Seathwaite	2
Westmorland	4	9	Dungeon Ghyll	3
Glamorgan	2	4	.....	2
Carnarvon	1	6	Pen-y-Gwryd	6
Ayr	1	2	New Cumnock	2
Stirling	1	2	Glen Dhu	2
Argyll	3	7	Glen Aray, Ladyfield	3
Perth	1	2	Loch Dhu	2
Banff	1	2	Craigellachie	2
Nairn	1	2	Glenferness	2
Inverness	2	4	.....	2
Kerry	1	2	Dereen	2
Down	1	5	Foffany	5
Total	31	71	Pen-y-Gwryd	6

The only additions to the historical lists of heavy daily rainfalls drawn up in 1910 and kept up to date year by year since, are the following, all, it will be observed, in Scotland. The only instance of a remarkable nature

Div.	County.	Station.	Date.	Rainfall.
XV.	Stirling	<i>substitute</i> Comer	Oct. 23, 1915 ..	3·30
XVII.	Banff	<i>substitute</i> Craigellachie	Nov. 9th, 1915 ..	3·50
"	Elgin	<i>add</i> Knockando	Nov. 9th, 1915 ..	3·70
XVIII.	INVERNESS	<i>add</i> Dalcross	Sept. 25th, 1915	7·06
"	Ross & Cromarty	<i>add</i> Fortrose	Sept. 25th, 1915	4·07

is the great fall of 7·06 in. at Dalcross Castle, on September 25th, in reality a far more noteworthy record, taking into account the place at which it occurred, than the two falls of 7·74 in. and 7·29 in. at Ben Nevis Observatory which precede it in the full list for Inverness-shire.

Part I.—The Chronicle.**January 10th.**

XI. Blaenau Festiniog (Llechwedd) 2·85 in. or 2·8 per cent.

January 15th.

A winter of rainfall of no great importance in the north-west of England and Wales.

IX.	Ramsgill (Raygill House)	2·54 in. or 6·1 per cent.
"	Holmbridge (Yateholme Reservoir)	2·82 " 4·6 "
"	" (" Farm)	2·90 " 5·0 "

February 1st.

With conditions favourable for strong and steady south-west winds rain fell over the whole of the British Isles, the total reaching 2 inches in the west of Scotland and the Snowdon District. At Llyn Llydaw on this and the following day, 5·04 in. was measured.

XV.	Morvern (Kingairloch)	2·56 in. or 3·4 per cent.
„	Dunoon (Reservoir)	2·58 „ 4·0 „
„	Holy Loch (Ardnadam)	2·71 „ 4·3 „

February 6th.

A heavy local rainfall in Forfarshire.

XVI.	Glen Prosen (Balnaboth Gardens)	2·55 in. or 4·7 per cent.
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February 16th.

A large depression lying off the west coast of Ireland gradually became deeper during the day, and with relatively high pressure in Spain and the western Mediterranean squally south-westerly winds blew over England and Wales, and heavy rain fell in the south-west and west, the distribution of which was determined almost entirely by the configuration of the land. The total exceeded ·50 in. south-west of a roughly straight line from Anglesey to Dungeness and was more than 1 inch over most of the south-western half of the area cut off by that line. On the uplands of Dartmoor and of North and South Wales, large areas had more than 2 inches, and more than 3 inches fell round Princetown and in the North of Glamorganshire. In the north-west of England a separate wet area had more than 2 inches at some Lake district stations.

V.	Sheepstor Vicarage	3·27 in. or 4·5 per cent.
„	„ (Red Stone)	3·05 „ 4·3 „
„	Dartmoor (Deancombe Farm)	2·86 „ 4·4 „
„	Buckfastleigh (Harewood)	2·98 „ 4·4 „
„	Holne Vicarage	3·44 „ 4·9 „
„	Ashburton (West Street)	2·81 „ 4·9 „
„	„ (Druid House)	2·95 „ 4·9 „
„	„ (Leusdon Vicarage)	2·90 „ 4·4 „
„	Princetown (Huccaby House)	2·95 „ 4·7 „
„	St. Ives (Penwyn)	2·52 „ „ „
X.	Rydal (High Close)	2·60 „ 3·7 „
„	Ambleside (Skelwith Bridge)	2·91 „ 4·0 „
„	Grasmere (The Wray)	2·81 „ 3·6 „
„	„ (Michaels Fold)	2·87 „ 3·8 „
XI.	Porth (Cemetery Road)	2·50 „ „ „
„	Ystradyfodwg (Tyntyla Hospital)	2·85 „ 4·5 „
„	Mountain Ash (Maesydderwen)	2·55 „ 4·4 „
„	„ (Darranlas Reservoir)	2·65 „ 4·1 „
„	Treherbert (Tyn-y-waun)	3·51 „ 3·8 „
„	Cwmaman Colliery	2·62 „ 3·5 „

XI.	Rhondda (Pont Lluest Wen) No. 2	2.71 in. or 4.2 per cent.
"	" " " " No. 3	3.20 " 3.9 "
"	" " " " No. 1	3.12 " 3.6 "
"	" W. W. (Llyn Fawr Reservoir)	3.41 " 3.8 "
"	Trecastle (Blaenau-hydfer)	2.74 " 3.9 "
"	Ramsey (Town Hall)	2.66 " 5.9 "
"	" (North Promenade)	2.66 " 5.8 "

February 26th.

A day of strong westerly and south-westerly winds, with considerable rainfall, especially in the west of Great Britain.

XII.	Carsphairn (Shiel)	2.56 in. or 3.9 per cent.
"	Moniaive (Jarbruck)	2.79 " 5.0 "
XIV.	New Cumnock (Ayr Sanatorium)	2.66 " 5.2 "
"	" " (Power Station)	2.81 " 5.1 "
"	Mull (Knock)	2.85 " 4.1 "

March 4th.

Steady south-westerly winds again brought heavy falls in the West Highlands, exceeding 3 inches at a number of normally rainy stations in Argyll and western Inverness-shire, at some of which it was the wettest day of the year, although a very moderate one for the district.

XV.	Morvern (Kingairloch)	2.56 in. or 3.4 per cent.
"	Ardgour House	3.66 " 5.0 "
"	Ballachulish House	3.11 " 4.7 "
"	Loch Eil (Corran)	3.67 " 5.8 "
"	Glen Etive	2.80 " 3.6 "
"	Loch Awe (Ford)	2.72 " 4.4 "
"	" (Dalavich)	3.07 " 4.5 "
"	Dalmally (Glen Orchy Manse)	3.72 " 5.6 "
"	Loch Fyne (Brenchoillie, Furnace)	2.60 " 4.2 "
"	Glen Aray (Ladyfield)	3.20 " 4.7 "
"	Mull (Glencannel)	2.58 " 2.9 "
XVIII.	Loch Quoich (Bunchoalie)	2.55 " ..
"	Loch Nevis (Inverie Gardens)	3.21 " 4.6 "
"	Loch Arkaig (Glen Dessary)	3.45 " 3.8 "
"	North Ballachulish (Alltshellach)	2.61 " 4.5 "

April 18th.

XVIII.	Loch Quoich (Kinlochquoich)	3.35 in. or 3.6 per cent.
"	Loch Arkaig (Achnacarry)	2.50 " 3.9 "

April 19th.

The north-west of the British Isles experienced a belated rain of the winter type, and two stations in the English Lakes recorded their maximum fall for the year.

X.	Borrowdale (Seathwaite)	3.67 in. or 3.5 per cent.
"	" (Rosthwaite)	2.50 " 3.3 "
"	Dungeon Ghyll	3.05 " 3.2 "

May '6th.

On the evening of this day a thunderstorm of unusual violence occurred over the centre of London, bringing a rainfall over a small area closely approximating to that during the notable storm of June, 23rd 1878, which has hitherto stood out as unique among intense rain storms in the Metropolitan district.* As will be seen by the accompanying map the area affected was sharply defined on the south, no rain being observed south of a line drawn from Richmond, through Wandsworth and Poplar to Ilford. On the north and west the rainfall faded away gradually, less than a quarter of an inch being reported from stations north of Hornsey and Hendon. The area with more than half an inch extended roughly from Ealing to Clapton, from west to east, and from Waterloo station to Finsbury Park, from south to north. The one-inch area was probably broken into two portions, the smaller in the neighbourhood of Kew Bridge, the larger extending for about six miles from Kensington to Hackney, and for about $2\frac{1}{2}$ miles from the Thames on the south to Islington on the north. These lines are all well supported, but as the most interesting area is approached we enter the region where rain gauges become rare. The line of 1.50 in. runs, on the whole, about half a mile inside the one-inch line. Only four rainfall records have been received from the six square miles which lie within it. These are 1.70 in. at Messrs. Negretti and Zambra's premises at Holborn Viaduct; 1.76 in. at Mr. Steward's, in the Strand; 3.00 in. at the Holborn Borough Stone Yard; and 3.12 in. at New River Head, the office of the Northern District of the Metropolitan Water Board. From these figures it is not very easy to draw exact isohyets of 2 and 3 inches, but following the only guide, parallelism with the outer isohyets, we have delineated the areas shown on the map. It is probable that more than 2 inches fell within the oval bounded on the west by Piccadilly Circus, on the east by Shoreditch, on the south by the Strand, and on the north by Euston Road. More than 3 inches of rain possibly fell on an area, perhaps half a mile wide and a mile and a half long, between the City and King's Cross. We cannot say with certainty that more than 3 inches fell in every part of this area, but we are fairly satisfied that more than 3 inches did not have a wider incidence, and we are, of course, unable to say whether at some place within the 3-inch area, the rain may not have been considerably heavier than at either of the two stations quoted.

* See *British Rainfall*, 1878, p. [79].

We are fortunate in having two official records in this central area, and there can be no doubt whatever as to their accuracy.

As a matter of curiosity we have measured the areas between the various isohyetal lines within the county of London.

Rainfall of May 6th, 1915, County of London.

	Area, sq. miles.	General Rainfall, inches.	Volume of Rain, sq. miles x inches.
More than 3 inches.....	·6	3·00	1·8
2—3 inches	2·0	2·80	5·6
1—2 inches	9·6	1·45	13·9
·50—1 inch	22·7	·75	17·0
Less than ·50 inch	21·2	·18	3·9
No rain	60·9	·00	·00
	<hr/> 117·0		<hr/> 42·2

The general rainfall over the county of London was ·36 in., corresponding to a total volume of 611 million gallons of water.

On the same day a very local storm, during which 1·53 in. fell, the greater part in less than an hour, occurred at Helmingham, near Ipswich. We have no details as to the hour at which this storm took place.

I. Holborn (Stone Yard)	3·00 in. or 8·5 per cent.
„ Finsbury (New River Head)	3·12 „ 9·9 „

May 7th.

Particulars of local thunderstorms principally in the English Midlands have been sent to us, and are quoted in the section on heavy rains in short periods. Although none of these reached the limit for insertion in the Chronicle, it appears desirable to mention their occurrence in connection with the storms of the previous day.

May 11th.

XV. Mull (Bunessan)	3·05 in. or 6·9 per cent.
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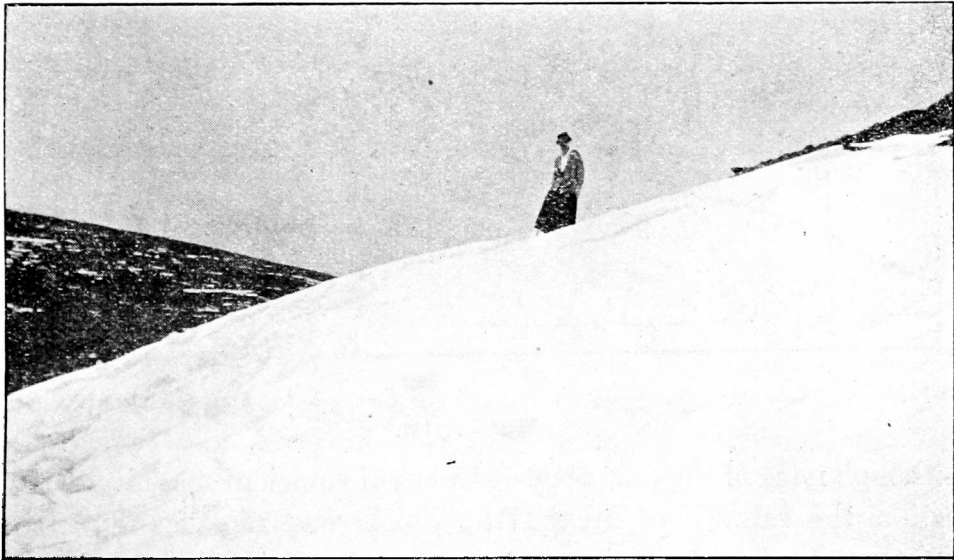
May 13th.

A low pressure system, probably consisting of a series of small depressions, passed during the day from the south of Ireland to Holland. From the unpublished pressure charts constructed by the Meteorological Office which we have been permitted to consult, we are able to fix the track of the centre with a fair degree of certainty as nearly coinciding with the south coast of England, and although we have no information as to the

rainfall over the English Channel it is interesting to find that rain fell over a belt about 200 miles wide to the left of the track, being sharply defined on the north by a line nearly parallel to it. The area with more than .50 in. was also nearly uniform in width, being about 150 miles across, but the main area with more than 1 inch lay to the east, extending from Weymouth and Bristol to the east coast. A series of small isolated 1-inch patches occurred along the northern fringe of this area. More than 2 inches fell in parts of Sussex.

An interesting feature of the weather associated with the passage of the cyclone of May 13th was the extremely abrupt change of temperature

SNOW ON BLACK MOUNTAINS, MAY 15TH, 1915

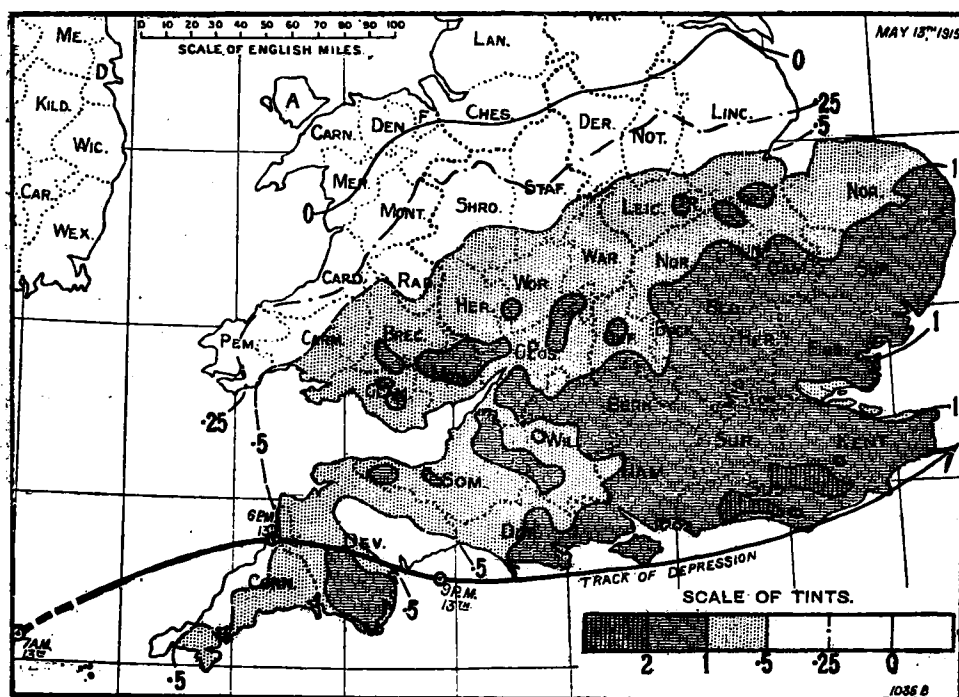


[Photograph by Rev. R. P. Dansey.]

observed. This was particularly noticeable in Herefordshire and South Wales, where several Observers call special attention to it. In the Black Mountains in Breconshire, the bulk of the precipitation took the form of snow, and heavy drifting took place, an unusual phenomenon so late in the season even at elevations of 1,000 feet. The accompanying photograph, sent to us by the Rev. R. P. Dansey, was taken on the north-east ridge above Craswall on the 15th, and gives a good idea of the appearance of the hillsides. The rain or snow in all parts of the south of England was at no time heavy, and took the form of a long steady downpour lasting generally about 24 hours. Two falls only reached the limit for quotation.

II. Balcombe (Highley Manor)	2.63 in. or 5.3 per cent.
„ Heathfield (Holban's Farm)	2.54 „ . . .

RAINFALL, MAY 13TH, 1915.

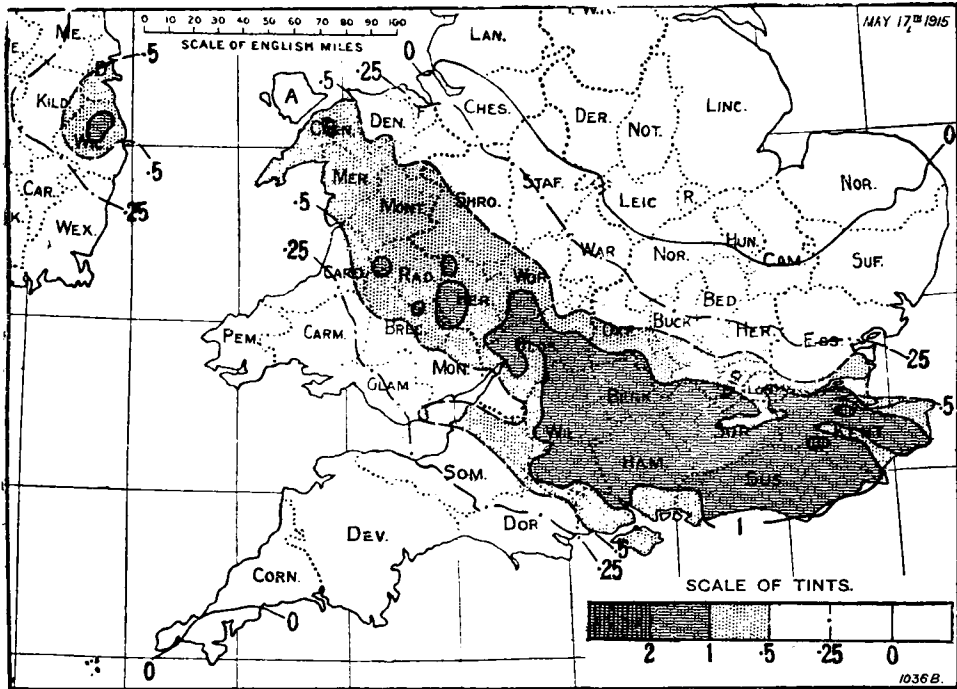


May 17th.

Although none of the falls recorded were of sufficient magnitude to claim insertion the rainfall of May 17th, which was remarkably similar in character to that of the 13th, appears to be of sufficient interest to warrant the reproduction of the accompanying map, which should be studied in comparison with that for May 13th. The track of the depression associated with the storm lies unfortunately outside the limits of the map, running from a point off the south-west of Ireland in a south-westerly direction into France, and it is interesting to observe that the main trend of the isohyets is, as was the case on May 13th, nearly parallel to it. On the north, the limit of the rain area is clearly marked, stretching from Liverpool to Norwich. About 50 miles south-west of this line the .50 in. line runs from Conway to Margate, and the 1 inch and 2 inch areas were again, as on the 13th, mainly in the east, more than 2 inches falling near Tunbridge Wells, and near Chatham, respectively. A curious feature of the distribution is that between the two centres of highest fall just mentioned,

distant from one another not more than 20 miles, a belt of relatively low rainfall was interposed. On the south-west of the main rain area the

RAINFALL, MAY 17TH, 1915.



.50 in. line again appears, running from Aberystwyth to the Isle of Wight, and in the extreme south of Cornwall, from Land's End to St. Austell, the zero line was reached. Over the whole of the south-west of Ireland the fall was comparatively trifling, and there appears, therefore, to be reason to suppose that the rain area lay wholly to the left of the track of the depression, though its distance from it, which was from 300 to 400 miles, was unusually great.

June 10th.

A heavy local thunderstorm in Carmarthenshire bringing 3.03 in. in rather less than 3 hours.

XI. Llanddeusant (School House) 3.03 in. or 5.0 per cent.

June 27th—30th.

During this period local thunderstorms, in one or two cases of considerable severity, developed in different parts of England. Those of the 30th

which were the most severe and widespread, occurred chiefly in the Midlands and north. Of the fall of 2·84 in. at Mildenhall, Suffolk, no less than 2·63 in. fell in 50 minutes, accompanied by almost continuous lightning, many trees and buildings being struck.

June 30th.

IV.	Mildenhall	2·84 in.		
VI.	Rugby (Bilton Grange)	2·04 „	or 8·1 per cent.	
VII.	Lincoln (Skellingthorpe Hall)	2·50 „	8·8 „	
„	Buxton (Devonshire Hospital)	2·80 „	5·4 „	

July 2nd.

XI.	Tan-y-bwlch (The Gardens)	2·61 in. or 3·8 per cent.		
„	Dolgelly (Hafod Fawr)	2·68 „	3·4 „	

July 4th.

A small secondary low pressure system, developing on the north of a large shallow depression lying over the Bay of Biscay, passed during the day across the south of England, from Plymouth to Ipswich, and typical summer thunderstorms occurred over a broad belt of country limited approximately by the line of the track itself on the south-east, and by a line drawn from Swansea to Middlesbrough on the north-west. Outside this belt, although slight showers occurred locally, the day was for all practical purposes rainless. Within it three parallel axes of heavy rainfall appear prominently each definitely outlined by the ·50 in. line and marked by a series of isolated one inch splashes arranged in a direction from approximately south-west to north-east. In the north-east the one-inch areas coalesced and formed one large rain splash, extending from a point near Leicester to the North Sea at Scarborough and the Wash. At one or two parts of the central axis the rainfall of the day exceeded 2 inches, and this was also the case near Woodstock, in Oxfordshire.

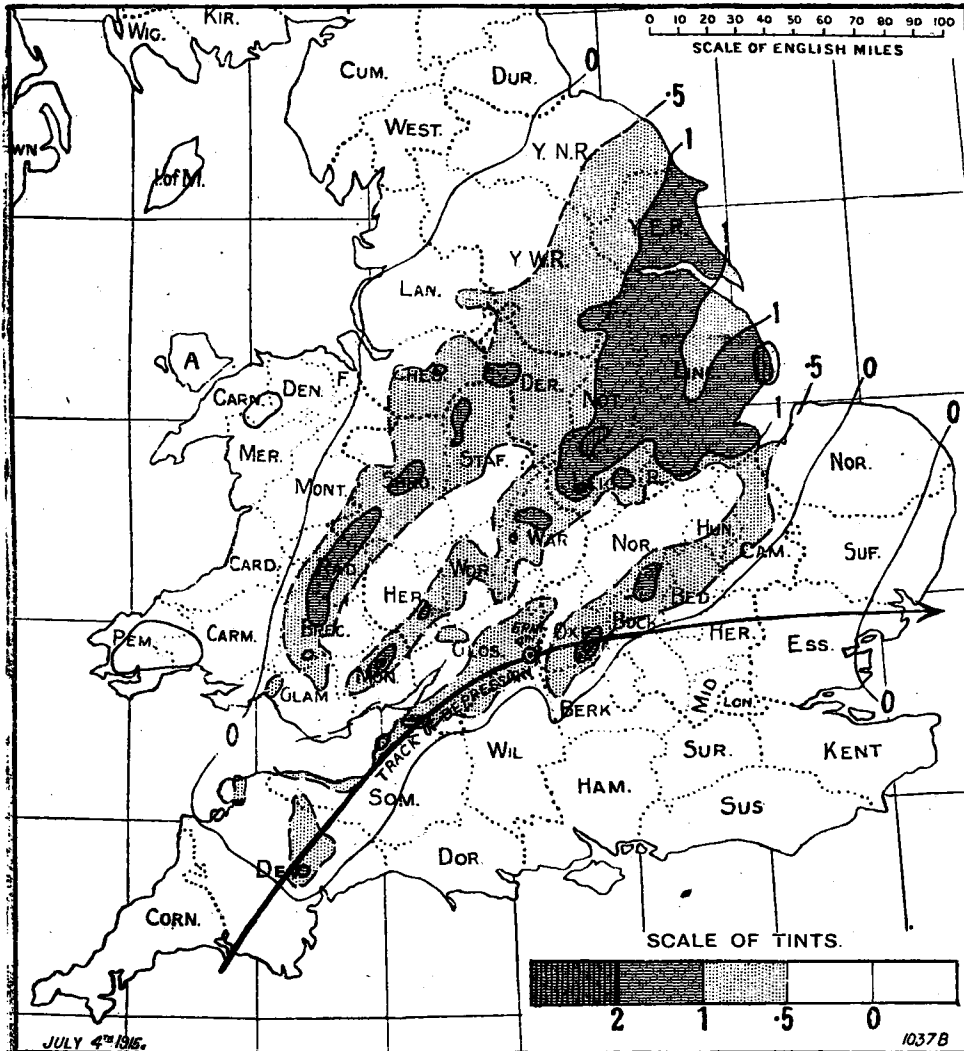
The most remarkable feature of the storms of July 4th was the large amount of hail and the very large hailstones reported from stations in the south-western half of the rain area. The districts most severely visited were in the neighbourhoods of Barnstaple, Bristol, Abergavenny, Ledbury, Malvern and Woodstock, and in all these places serious loss was caused.* At Hampton Poyle, near Woodstock, among other damage, the church

* See also *Met Mag.*, July 1915, pp. 98, 99, and Aug. 1915, p. 109.

windows were broken, and the Observer remarks that "A German bomb dropped into the village might have done less damage."

III.	Hampton Poyle Rectory	2.91 in. or 10.1 per cent.
VII.	Skegness (Estate Office)	2.55 „ 9.5 „
„	Cropwell Bishop (Cropwell Grove)	2.48 „ 9.1 „

RAINFALL, JULY 4TH, 1915.



VII.	Beeston (West End)	2.57 in.	or 8.1 per cent.
"	Nottingham (Lenton Hall)	2.27 "	7.9 "
"	" (Stoke Bardolph)	2.20 "	7.6 "
"	Bagthorpe (Isolation Hospital)	2.62 "	8.8 "
"	Lowdham (Chilwell Nurseries)	2.55 "	9.8 "
"	Bulwell (Bestwood W. W.)	2.57 "	8.8 "
"	Ollerton (Boughton W. W.)	2.20 "	7.9 "
"	Daybrook (Red Hill Reservoir)	2.48 "	8.0 "

July 14th.

Local thunder rains in East Anglia and near Peterhead.

IV. Woodbridge (Boulge Cottage)	2.78 in. or 9.3 per cent..
XVII. Peterhead (Thunderton)	2.50 „ 7.6 „

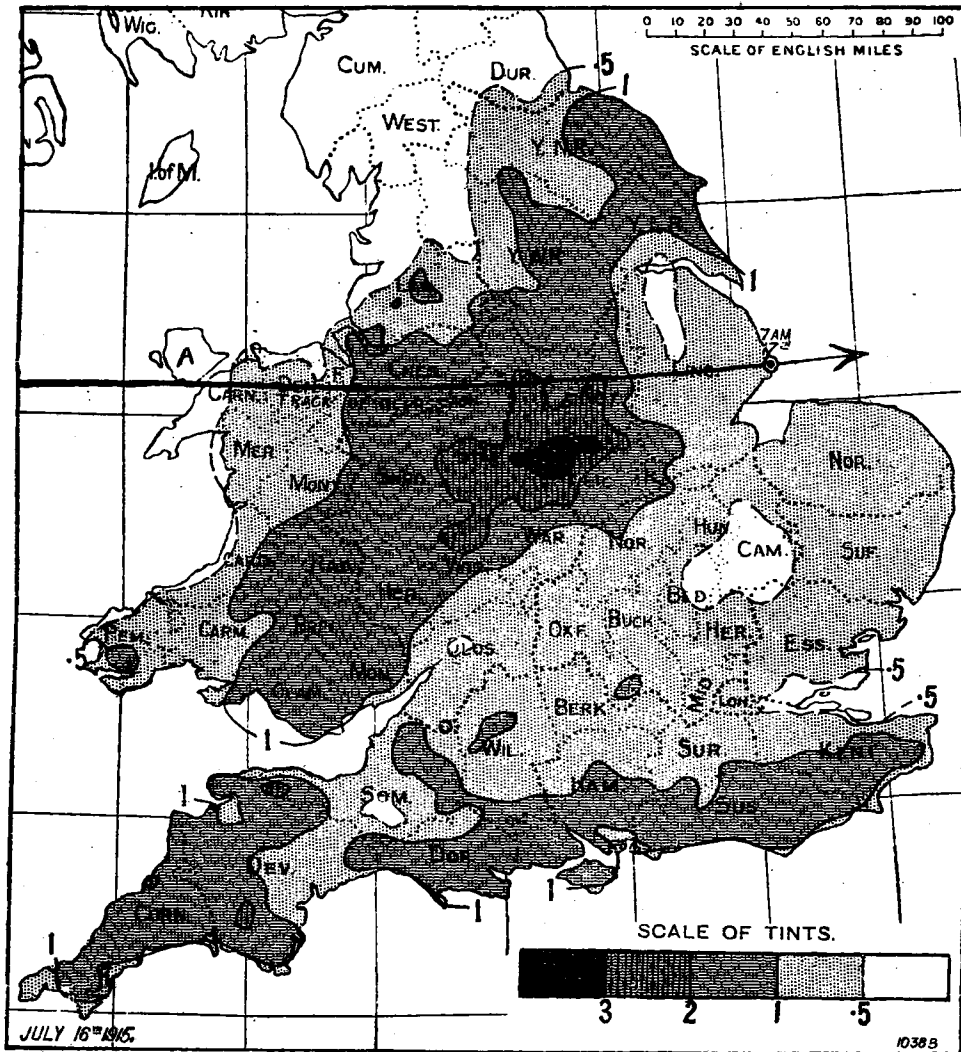
July 16th.

The rainfall of this day, which constituted one of the most widespread heavy falls of the year, was abnormal in respect of occurring principally on the right hand side of the track of the accompanying atmospheric depression. It is not, as a rule, possible to fix the track within about 20 miles with any high degree of certainty, but, in the present case, the line has been verified by reference to the unpublished charts of the Meteorological Office, and may be accepted as reasonably accurate. It passed across the Shannon estuary during the day, was situated near Birr at 6 p.m., and had passed due eastward through Chester to Skegness by the following morning. Over the greater part of Ireland little rain fell on the 16th, though about 1 inch fell locally in Dublin, but over the English Midlands steady and heavy rain commenced in the evening, that is in advance of the centre of the depression, and continued in most places about 12 hours, or rather longer. The distribution of rainfall as shown in the accompanying map makes it appear probable that there were two centres of disturbance affecting respectively the Midlands and the south coast of England, and this view is confirmed by the curves of self-recording rain gauges, which show that at Plymouth the heavy rain occurred between 11 a.m. and 7 p.m., and at Dormans Park, near East Grinstead, between 3 p.m. and 11 p.m., on the 16th, thus being considerably earlier than the fall in the north.

With trifling exceptions the whole of England and Wales south of Yorkshire had more than .50 in. From the Bristol Channel to the coast of Yorkshire a very large unbroken area had more than 1 inch, and in the centre 2057 square miles had more than 2 inches. This area is well defined on all sides, and occurring as it did in a district well supplied with rain gauges, has been outlined with considerable accuracy. The line of 3 inches, enclosing an area of 333 square miles in the centre of the 2-inch area, is also well defined on the north and east, but less so in the south, where it may be misplaced to the extent of a mile or so. No area of appreciable size appears to have received more than 4 inches of rain, but approximately this amount fell near Loughborough.

In the south of England, although as much as 2 inches fell locally in the uplands of Devon and Cornwall, the general fall was considerably smaller. More than one inch fell over a strip about 30 miles in width extending with one interruption, from the Lizard to Dover, and about

RAINFALL, JULY 16TH, 1915.



20 miles to the north there are indications of a parallel belt of one-inch splashes stretching from Barnstaple to Buckinghamshire.

Over England and Wales as a whole the rainfall of this day exceeded an inch over no less than 23,192 square miles, an extremely unusual area for a summer rain. We have measured the rainfall zones of the northern and southern rain splashes separately :—

Northern area with more than 1 inch, England and Wales.

	Area, sq. miles.	General Rainfall, inches.	Volume of Rain sq. miles x inches
More than 3 inches	333	3.30	1,099
2—3 inches	1,724	2.40	4,138
1—2 inches	12,943	1.38	17,863
Total more than 1 inch	15,000		23,100

Southern area with more than 1 inch, England and Wales.

	Area, sq. miles.	General Rainfall, inches.	Volume of Rain, sq. miles x inches.
More than 2 inches	96	2.08	200
1—2 inches	8,096	1.25	10,127
	8,192		10,327

The general rainfall of the northern area with more than 1 inch was 1.54 in., and of the southern 1.26 in., whilst the whole area with more than one inch in England and Wales had a general rainfall of 1.44 in.

In the north Midlands the rainfall of the previous fortnight had been abnormally heavy, and the storm of July 16th caused much flooding, particularly in the Soar and Trent valleys, and much loss was caused to farmers in parts of Lincolnshire, where the wheat was seriously damaged.

Lord Ernest St. Maur, writing from Burton Hall, Loughborough, calls attention to the curious coincidence that, exactly 40 years earlier, on July 17th, 1875, there was, if possible, a worse flood in that district. This was no doubt the result of the great storm of July 14th, 1875, described in *British Rainfall*, 1875, pp. 126-130.

VI. Newport (Aston Hall)	2.45 in. or 7.9 per cent.
„ „ (Agricultural College)	2.24 „ 7.8 „
„ „ (Edgmond)	2.31 „ 7.5 „
„ „ (Chetwynd Park)	2.54 „ 8.0 „
„ „ („ Gardens)	2.53 „ 8.0 „
„ Weston Park [Shifnal]	2.70 „ 9.4 „
„ Loynton Hall	2.50? „ 7.8 „
„ Wednesbury (Ocker Hill)	2.35 „ 8.0 „
„ Walsall (Brockhurst Sewage Farm)	2.59 „ 8.4 „
„ „ (Wednesbury Sewage Works)	2.70 „ 9.5 „
„ Bilston (The Lunt Outfall)	2.59 „ 8.6 „
„ Wolverhampton (Wrottesley)	2.41 „ 8.0 „
„ Bloxwich (Sneyd Reservoir)	2.72 „ 9.5 „
„ Hammerwich (Cannock Chase Reservoir) ..	2.84 „ 9.7 „
„ Brewood (Belvide Reservoir)	2.60 „ 9.3 „
„ Lichfield (St. John Street)	2.89 „ 9.7 „
„ Penkridge (Rodbaston)	2.47 „ 8.3 „

VI.	Hednesford (Scout House)	2.18 in.	or 8.3 per cent.
"	Rugeley (Beau Desert)	3.15 "	10.2 "
"	Milford Waterworks	2.10 "	7.7 "
"	Shugborough	2.25 "	7.7 "
"	Stafford (Rising Brook)	2.17 "	7.6 "
"	Burton (Rangemore)	2.26 "	8.9 "
"	" (Shobnall)	3.50 "	12.2 "
"	Utttoxeter (Greenfields)	2.58 "	8.4 "
"	Kidderminster (Brinton Park)	2.29 "	7.7 "
"	Stourbridge	2.50 "	7.7 "
"	Minworth	2.15 "	7.5 "
VII.	Market Bosworth (Osbaston Hall)	2.84 "	9.1 "
"	Thornton Reservoir	2.53 "	7.7 "
"	Cropstone (Bradgate Reservoir)	2.76 "	8.0 "
"	Swithland (The Brand)	2.40 "	7.9 "
"	Ashby-de-la-Zouch (Cole Orton Hall)	3.40 "	10.1 "
"	Barrow-upon-Soar	3.12 "	11.0 "
"	" (The Mount)	2.70 "	9.1 "
"	Charnwood Forest (Blackbrook Reservoir) ..	2.92 "	9.2 "
"	Loughborough (New Pantan Reservoir) ..	3.24 "	10.2 "
"	" (Burleigh Road)	3.98 "	12.5 "
"	" (The Widenings)	2.95 "	10.1 "
"	" (Sewage Farm)	3.87 "	12.4 "
"	Burton-on-the-Wolds (Burton Hall)	2.34 "	8.2 "
"	Prestwold Hall	3.02 "	10.4 "
"	Kingston (Midland Agricultural College)	2.84 "	11.1 "
"	" Hall	3.14 "	10.5 "
"	Plumtree (Normanton-on-Wolds)	2.43 "	8.6 "
"	Nottingham (Wilford Hill Reservoir)	2.52 "	9.6 "
"	" (Strelley)	2.31 "	7.9 "
"	" (" Hall)	2.29 "	7.9 "
"	" (Trent Lane)	2.08 "	7.8 "
"	" (The Castle)	2.58 "	9.7 "
"	" (Mapperley Hill)	2.10 "	7.7 "
"	" (Basford W. W.)	2.23 "	7.8 "
"	Bulcote (Corporation Farm)	2.22 "	7.5 "
"	Hucknall Torkard (Forge Mills)	2.14 "	7.6 "
"	Farnsfield	2.14 "	7.5 "
"	Repton (The Croft)	3.04 "	9.3 "
"	Stanton-by-Bridge	3.07 "	10.7 "
"	Willington W. W. (Milton)	3.01 "	11.4 "
"	Chellaston	2.25 "	7.8 "
"	Etwall (Blakeley Lodge)	2.20 "	7.8 "
"	" (Sewage Farm)	2.61 "	9.4 "
"	Mickleover (County Asylum)	2.29 "	8.2 "
"	" (Manor)	2.47 "	7.7 "
"	Littleover (The Knoll)	2.49 "	8.0 "
"	" (Old Hall)	2.55 "	8.3 "
"	Spondon (Derby Sewage Works)	2.30 "	8.0 "
"	Derby (Midland Railway)	2.56 "	8.6 "
"	" (Royal Infirmary)	2.30 "	8.2 "
"	" (The Arboretum)	2.31 "	7.6 "
"	Kirk Langley (Langley Hall)	2.29 "	7.5 "
"	Breadsall Lodge	2.23 "	7.8 "
"	" Priory	2.23 "	8.5 "
"	Ilkeston (Sewage Works)	2.16 "	8.2 "

July 23rd.

Thunderstorms of varying intensity occurred in several parts of England, but the only place at which the rainfall appears to have been severe was Middlesbrough, where 1·84 in. fell in 75 minutes, causing serious flooding.

IX. Middlesbrough (Albert Park) 2·08 in. or 7·8 per cent.

July 30th.

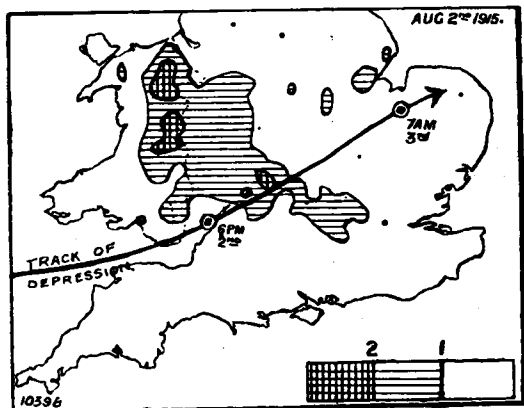
A local rain storm on the coast of Kerry.

XX. Kenmare (Derreen) 3·46 in. or 4·1 per cent.

August 2nd.

A small but deep depression travelled slowly up the Bristol Channel and on to Norfolk. The axis of the principal rain splash, indicating more than an inch of rain from Flintshire to the borders of Hampshire, presented the rather unusual feature of lying at right angles to the direction of the track. The only sign of parallelism with the track appeared in a narrow belt of relatively high rainfall extending from Leicestershire to the coast of Lincolnshire. More than ·50 in. of rain fell over the greater part of Wales and the English Midlands, and more than 2 inches over the northern Welsh border and parts of Gloucestershire.

Rainfall and Cyclone Track, Aug. 2nd, 1915.



the English Midlands, and more than 2 inches over the northern Welsh border and parts of Gloucestershire.

VI.	Dowdeswell Reservoir	2·55 in.	or 7·0 per cent.
"	Cheltenham (Thirlestane Hall)	2·71 "	8·2 "
"	" (High Street)	2·44 "	7·5 "
XI.	Welshpool (Edderton)	2·62 "	7·7 "
"	Berriew (Rhiewport Gardens)	2·63 "	6·3 "
"	Welshpool (Llwynderw)	2·68 "	7·5 "
"	Ruthin (Llanbedr Hall)	2·59 "	8·1 "
"	Llangadwaladr (Penygwely Reservoir)	2·60 "	6·5 "

August 12th.

Thunderstorms occurred in various parts of the Midlands, and were also of a particularly intense nature in the neighbourhood of Carlisle.

VIII.	Coniston (Water Park)	2.54 in. or 4.0 per cent.	
X.	Carlisle (Brunstock)	2.69 „	9.4 „
„	„ (Scaleby House)	2.86 „	8.8 „
XIV.	Turnberry (Hotel)	2.30 „	8.9 „

September 24th—26th.

The rainfalls of these three days appear to have been associated with the passage of a shallow barometric depression which approached the west coast of Ireland on the morning of the 24th, and becoming more localized during the day, moved to the south of England and afterwards in a northerly direction to a point about 50 miles east of Peterhead, where it was situated at 7 a.m. on the 26th. From this point the depression turned sharply to the east and passed away to Scandinavia.

The rainfall of the 24th, though general over the British Isles, exceeded .50 in. only over a long narrow strip nearly parallel with the track of the depression and extending from the Isle of Wight to the Grampians. Rather more than 1 inch fell at a few stations among the southern uplands of Scotland, and over a well marked belt between Leicester and the south coast, about 150 miles long and everywhere about 20 miles wide. At the southern extremity of this strip more than 2 inches fell. The whole of the records quoted for September 24th were from this area.

The second stage of the rainfall accompanying this depression, represented by the measurements for the rainfall day September 25th, took place during the period when the depression was passing slowly northward, from near Newcastle-on-Tyne on a track between 50 and 100 miles east of the east coast of Scotland. In the early hours of the 26th the track appears to have turned sharply to the east, and it is a matter of great interest to observe that the centre of most intense rainfall, round the head of the Moray Firth was not far distant from the point of deflection. We have drawn attention on previous occasions to the occurrence of remarkably heavy rainfall immediately to the left of the track of a cyclone which has abruptly changed its direction of travel, and we may refer to the maps in *British Rainfall, 1905*, p. [112], and *British Rainfall, 1912*, p. 28, showing that precisely similar conditions accompanied the unprecedented rainstorm of August 24th-25th, 1905, in Ireland and that of August 25th-26th, 1912, in East Anglia.

The rainfall of September 25th exceeded .50 in. over the northern half of Scotland, the .50 in. line being roughly semi-circular in shape and extending from near Stornoway, through Killin to Aberdeen. Within a nearly parallel line passing from the north of Skye through Fort William to near

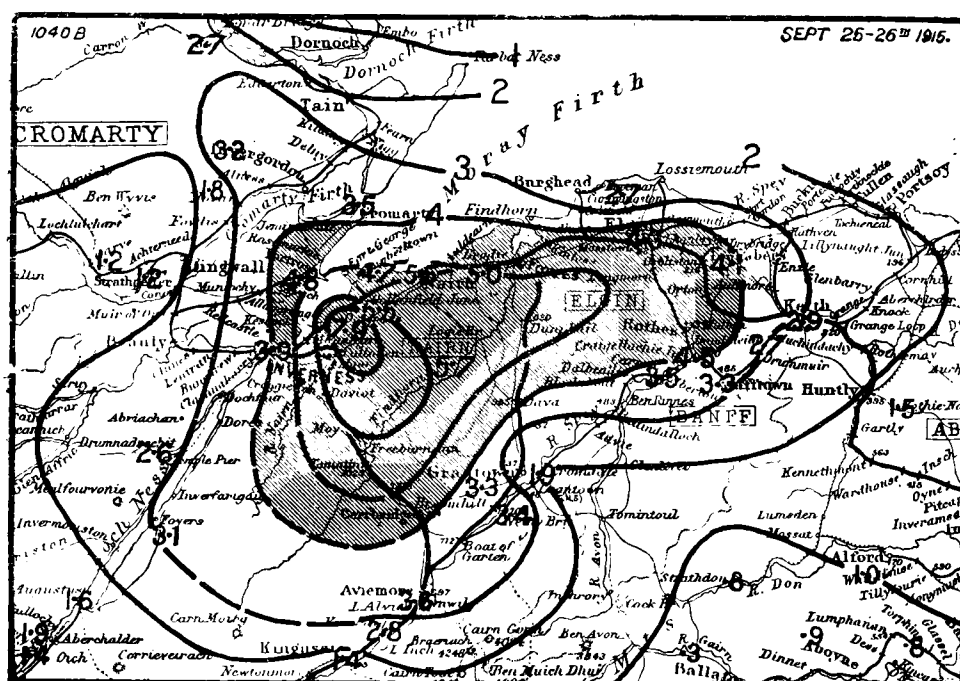
Peterhead more than 1 inch fell, with the exception of a small tongue of land round the Dornoch Firth which had slightly less. There were two large areas with more than 2 inches. The more northern, probably embracing a portion of western Ross-shire, the north and west of Sutherland, and most of Caithness, was, on account of the scarcity of data, ill-defined, but we are able to outline the southern area with considerable certainty. It included the immediate vicinity of the Moray Firth and stretched south-westward as far as the middle of Loch Ness, south-eastward beyond the Spey at Aviemore, and eastward to the borders of Banffshire. On the north it probably did not extend more than about 10 miles north of Nairn. Some 5 miles within the 2-inch line and nearly parallel to it, the line of 3 inches embraced 900 square miles, stretching from near Cromarty southward to Aviemore, and eastward to the neighbourhood of Fochabers. The largest falls were concentrated within a small area to the north-east of Inverness, and totals exceeding 3·50 in. were measured at Inverness (3·64 in.), Nairn (3·78 in.), Fortrose (4·07 in.), and Dalcross Castle (7·06 in.). The reading at Dalcross is the largest daily fall, with the exception of two at Ben Nevis Observatory, yet put on record for Scotland, and although it is 3 inches in excess of the next highest reading on the same day, that of 4·07 in., at Fortrose, we have every confidence in accepting it as completely accurate, as it was made personally by the MacKinnon of MacKinnon, an experienced Observer fully alive to the remarkable nature of the phenomenon.

Rain continued during the 26th in the same districts as on the previous day, but more than ·50 in. was confined to two patches situated respectively to the north and the south of Dornoch Firth. In the more northerly there is no evidence that so much as an inch fell anywhere, but in the southern this amount fell over an area corresponding roughly with that which received 2 inches on the 25th. More than 2 inches probably fell on the 26th over 175 square miles to the south of Nairn, the centre of heaviest fall being rather to the east of that of the previous day.

Since it is clear that the rainfalls of September 25th and 26th formed parts of a single storm we give a map showing the fall of the two days together for the whole of Scotland, and also an enlargement of the portion including the area of greatest rainfall. It will be seen that rain was general over Scotland except in the extreme south, but that the amount was less than ·50 in. south of the Forth, and also in the extreme west. More than 1 inch fell on the average about 20 miles north of the ·50 in. line

with more than 4 inches, *i.e.*, the end furthest removed from the centre of lowest barometric pressure. This brought about a great crowding of the isohyetal lines on the east of Inverness where the rainfall appears to have increased 4 inches in a distance of 5 miles or less. On the eastern side the gradient was much more gradual, a decrease of 4 inches in that direction occupying about 35 miles.

RAINFALL SEPTEMBER 25-26, 1915.



The rainfall is indicated in inches and tenths on the site of each station. The area with more than 4 inches is shaded. The railway lines between Aviemore, Keith, Forres and Inverness, must not be confused with isohyets.

Measurements have been made of the area over which rain fell on the 25th and 26th, with the following results :—

	Area, sq. miles.	General Rainfall, inches.	Volume of Rain, sq. miles x inches.
More than 7 inches	22	7.36	162
6—7 " 	70	6.53	457
5—6 " 	266	5.51	1,465
4—5 " 	463	4.44	2,058
3—4 " 	1,706	3.29	5,606
2—3 " 	3,278	2.39	7,826
1—2 " 	5,476	1.49	8,133
.50—1 " 	6,368	.73	4,643
Less than .50 in.	10,811	.23	2,445
	28,460		32,795

The general rainfall of the two days over the whole area with rain was 1·15 in.; over the 11,281 square miles with more than an inch it was 2·28 in. The volume of water precipitated over the whole area with rain was thus 474,851 million gallons, or 2,120 million tons, and of this amount no less than 268 million tons fell over the 821 square miles where more than 4 inches of rain fell. At a rough estimate the duration of the storm was about 40 hours, and in this period the amount of water which fell would, if it could all have been stored, have supplied 30 gallons per head daily to the whole population of Scotland for nearly 9 years.

It is impossible in the space at our disposal to give more than the briefest mention to the immense damage suffered in the north-east of Scotland as a result of this great rain storm which certainly surpassed any experienced in the district since the historic "Moray Floods" of 1829. A large proportion of the precipitation found its way into the Findhorn valley, and the Spey was also seriously affected, and the most extensive floods appear to have occurred in the lower reaches of these two rivers. On the Highland Railway no fewer than sixteen bridges and culverts were destroyed or seriously injured, and large portions of the permanent way were torn up and washed away. At Elgin and Forres and the intermediate districts great loss was caused by the enormous accumulations of water discharged over the lower lands, which spread out into extensive lakes and submerged large tracts of agricultural land. At Buckie Harbour, not far from the mouth of the Spey, a large portion of the recently reclaimed land was inundated and, the embankment giving way under the weight of water, was washed away by the sea. Further inland severe loss was sustained at Grantown, and in all parts of the district the damage was accentuated by the violent gales which accompanied the downpour.

September 24th.

II.	Brighstone Rectory	2·82 in. or 7·6 per cent.	
„	Totland Bay (Aston House)	2·56 „	6·9 „
„	Cowes W. W. (Broadfields)	2·59 „	6·3 „
„	„ (Upper Moor Green)	2·75 „	6·7 „
„	Bishops Waltham (Swanmore House)	2·85 „	5·5 „

September 25th.

XVII.	Gordon Castle	2·65 „	7·1 „
„	Elgin (The Manse)	2·94 „	9·8 „
„	Brodie (Earlsmill House)	3·15 „	9·9 „
„	Ardclach (Glenferness).....	3·40 „	8·7 „
„	Cawdor Castle	3·10 „	9·7 „
„	Nairn (Achareidh)	3·29 „	11·6 „

XVII.	Nairn (Delnies)	3.78 in. or 12.7 per cent.	
XVIII.	Nethy Bridge (U. F. Manse)	3.10 „	9.5 „
„	Aviemore (Rothiemurchus)	3.33 „	9.3 „
„	Muckerach Lodge [Grantown]	2.55 „	7.7 „
„	Croy (Dalcross Castle)	7.06 „	19.7 „
„	Loch Ness (Garthbeg)	2.62 „	7.8 „
„	Inverness (High School)	3.64 „	13.1 „
„	Fortrose	4.07 „	12.9 „
„	Cromarty House	2.43 „	9.1 „
„	„	2.30 „	9.1 „
„	Invergordon (The Ord)	2.84 „	10.5 „
XIX.	Tongue Manse	2.57 „	6.1 „
„	Bettyhill	2.58 „	6.7 „
„	Melvich School house	2.90 „	7.4 „
„	Reay (The Manse).....	2.76 „	7.1 „

September 28th.

A shallow depression of no great extent moved during the day along the English Channel from Land's End to the Straits of Dover, and heavy rain fell generally in the south-east of England, amounting to more than two inches in parts of Kent, Sussex and Hampshire.

II.	Birchington (Hollydene)	2.30 in. or 8.6 per cent.	
„	„ (Rose Bank)	2.30 „	8.3 „
„	„ (Fernleigh)	2.30 „	8.4 „
„	Westgate-on-Sea (Garlinge)	2.52 „	9.0 „
„	Margate (Cliftonville)	2.36 „	9.7 „
„	Whitstable (Western House)	2.16 „	7.7 „

October 7th.

Several large falls were recorded in the south and east of Ireland.

XX.	Portlaw (Curraghmore Gardens)	2.54 in. or 5.4 per cent.	
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October 23rd and 24th.

As was the case with several other depressions during October the pressure system dominating the weather of these two days appears to have followed an unusual track. Situated on the west coast of Ireland on the morning of the 23rd, it shifted north-eastward to Malin Head and subsequently south-eastward to the neighbourhood of the Channel Isles, afterwards moving irregularly over the north-west of France. More than an inch of rain fell on the 23rd over a considerable part of the south-west of Scotland, and more than 2 inches in Wigtown and Kirkcudbrightshire and parts of the Scottish midlands, and also in the Isle of Man. In the south-west of England both days were wet, the area with 2 inches on the 23rd embracing Wiltshire, Dorset and east Devonshire, whilst on the 24th a few stations in Wiltshire and Dorset had as much as 2 inches. The aggregate for the two days exceeded 3.50 in. in parts of this district, but

does not appear to have reached 4 inches anywhere. At North Cadbury the rain is described as continuous from 9 a.m. on the 23rd to midnight on the 24th, or rather later. The rate of fall was at no time great, but was highest during the afternoon of the 24th.

October 23rd.

V.	Corsham (Crossways Cottage)	2.85 in. or 7.0 per cent.	
"	Broadwindsor Vicarage	2.57 "	5.0 "
"	Sidmouth (Sidmount)	2.62 "	6.4 "
"	" (Winslade Cottage)	2.51 "	6.1 "
"	Axmouthe (Millmead)	2.75 "	6.8 "
"	Axminster	3.22 "	6.8 "
"	Kilminster (Haddon Corner)	2.73 "	6.1 "
"	Chardstock Vicarage	2.96 "	6.3 "
"	Tatworth Vicarage	2.74 "	5.8 "
"	Chard Vicarage	2.93 "	6.1 "
"	Cricket St. Thomas (Cricket House)	3.35 "	6.9 "
XII.	Creetown (Cassencary)	2.65 "	6.4 "
XV.	Duchray Valley (Comer)	3.30 "	4.4 "
"	" " (Glen Dhu)	3.05 "	4.5 "
XVI.	Loch Dhu	2.60 "	3.9 "

October 24th.

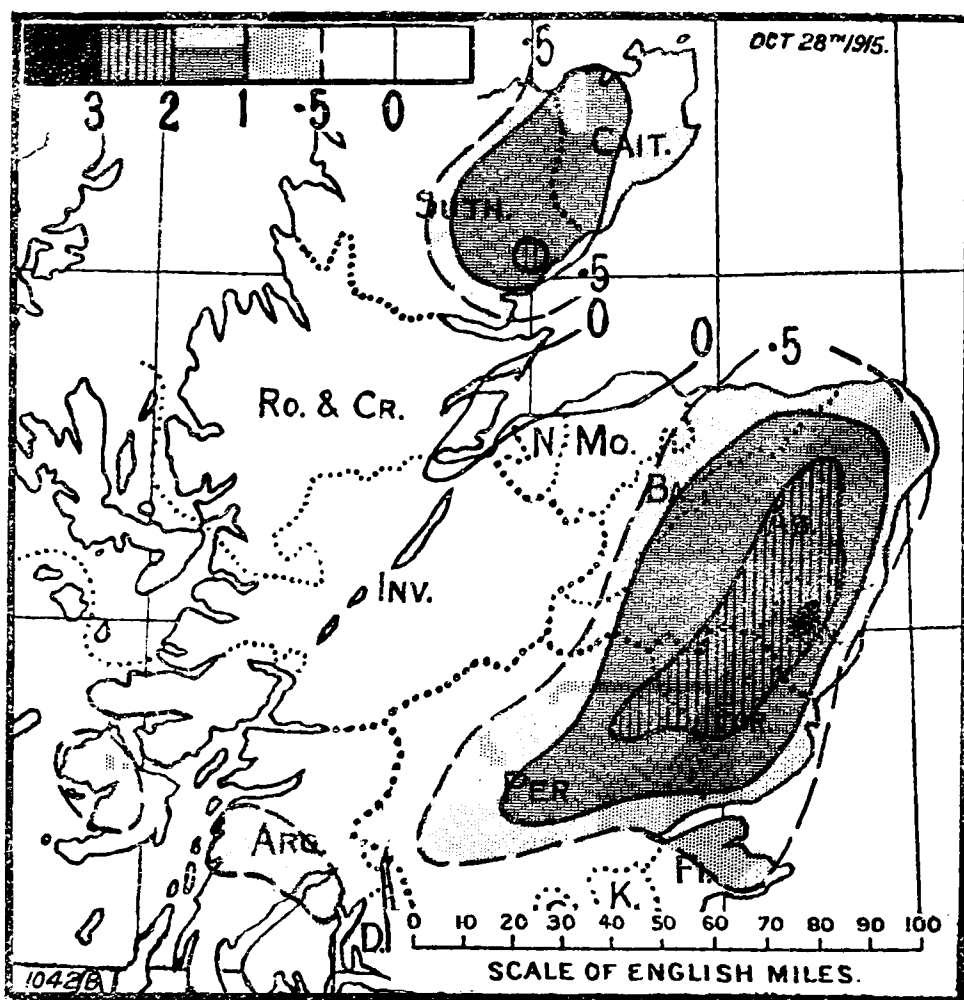
V.	West Moors (Inglewood Nursery)	2.95 in. or 6.5 per cent.
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October 27th—29th.

During these three days a low pressure system of considerable intensity was situated off the North of Ireland, and the main pressure distribution does not afford any explanation of the heavy local rains which occurred principally on the east coast of Scotland and were probably associated with the movements of small secondary systems. On the 27th falls of 2 inches were reported from some stations in central Scotland, but the only records of sufficient magnitude to quote were from Co. Down. On this day, however, heavy rain commenced in the east of Scotland and continued without intermission throughout the 28th and in places till midday on the 29th. The accompanying map of the fall on the 28th shows that there were apparently two centres of activity, the northern giving more than 1 inch over part of Sutherland and Caithness, and more than 2 inches at Dunrobin, and the southern more than 1 inch over a large area extending practically from Perth to Banff. Between the two areas no rain fell in the intermediate neighbourhood of the Moray Firth. A large district including the north-west of Forfarshire and Kincardineshire and central Aberdeenshire had more than 2 inches of rain, and two stations, Crathes and Durris, had about 3.50 in. At Crathes Mr. James

Smith measured 5·14 in. as the result of 46½ hours' rain during the 27th-29th. Rain fell steadily from 2.40 a.m. on the 27th for 24 hours at a uniform rate of ·16 in. per hour, and afterwards at a slightly less rate, and with short dry intervals till 10 p.m. on the 29th. At Durris the total for the three days' fall was 5·20 in.

RAINFALL, OCTOBER 28TH, 1915.



October 27th.

XXIII.	Newcastle (Royal Co. Down Golf Club).....	2·68 in. or 5·7 per cent.
„	Mourne Mountains (Foffany Reservoir)	3·55 „ 5·1 „

October 28th.

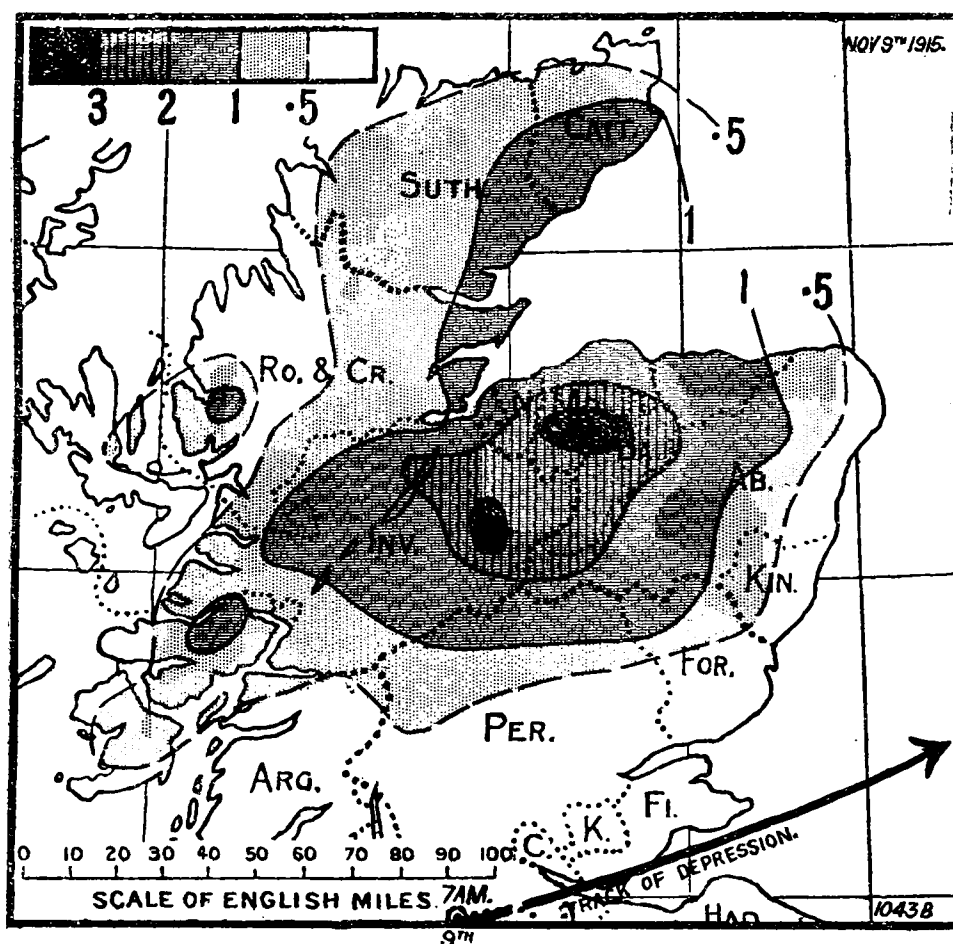
XVI.	Glen Prosen (Lednathie)	2·64 in. or 5·4 per cent.
XVII.	Strachan (Bridge of Dye)	3·60 „ 6·4 „
„	Crathes (Crossroad, Durris)	3·53 „ 7·6 „
„	„ (Pinewood)	3·44 „ 7·8 „
„	Fyvie Castle	2·55 „ 5·8 „

October 31st.

With the movement eastward along the English Channel of a very deep and well defined low pressure system heavy rain was general over the south of the British Isles, and more than 2 inches fell over a part of South Wales and in Hampshire and Berkshire.

II.	Privett (Basing Park Gardens)	3.03 in. or 6.6 per cent.
„	East Tisted (Rectory)	2.50 „ 6.7 „
XI.	Grwyne Fawr (Ffwydd Fwthog)	2.52 „ 4.9 „
„	Black Mountains (Taren-yr-Esgob)	2.65 „ 4.7 „

RAINFALL, NOVEMBER 9TH. 1915.



November 9th.

A small and well defined depression developed on the morning of the 9th over the centre of Scotland and passed eastward during the day. The

area of heavy rain was entirely confined to the north of Scotland, culminating about 100 miles to the left of the track of the depression. More than 1 inch appears to have fallen over 6,738 square miles, and the main area extended from Glenquoich northward to Wick, and eastward to Banff. A large area comprising part of the north-east of Inverness-shire, the north-west of Aberdeenshire, and the greater part of Banffshire, Elgin and Nairn, probably had more than 2 inches, whilst over 3 inches fell in two spots in the middle and lower Spey valley.

The area with more than an inch of rain was as follows :—

	Area, sq. miles.	General Rainfall, inches.	Volume of Rain, sq. miles x inches.
More than 3 inches	348	3·25	1,129
2—3 inches	1,758	2·32	4,077
1—2 „ 	4,632	1·42	6,562
	<hr/> 6,738		<hr/> 11,768

The general rainfall of the above area was 1·75 in.

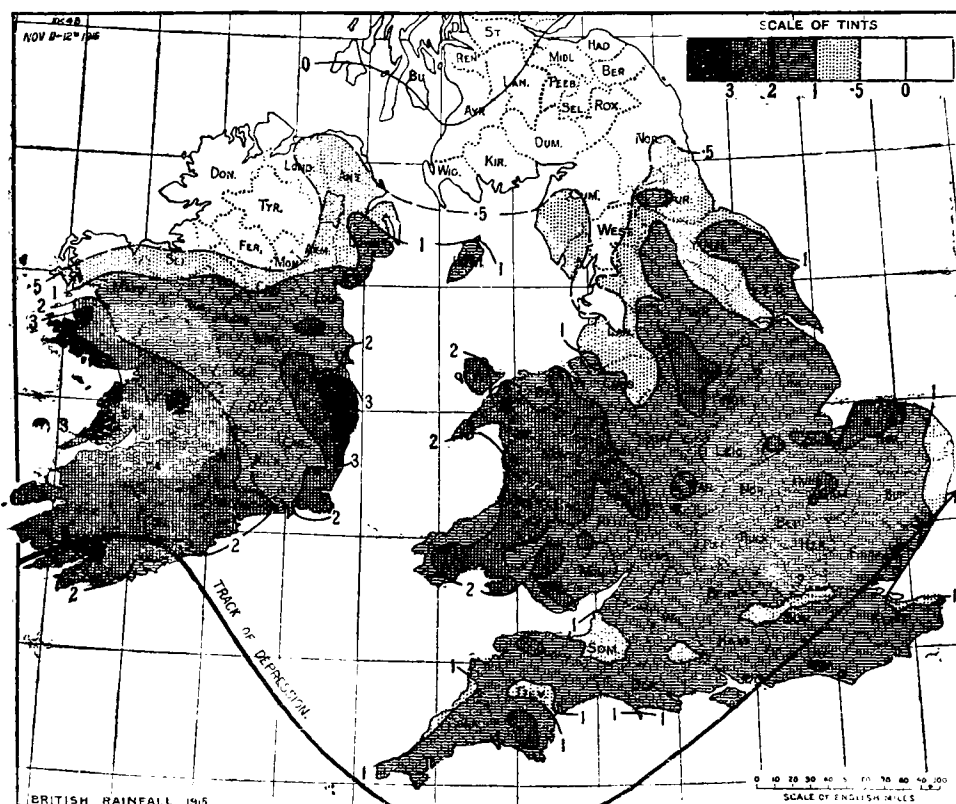
XVII.	Dufftown (Victoria Terrace)	2·98 in. or 6·3 per cent.	
„	Aberlour Orphanage	3·23 „	7·2 „
„	Craigellachie	3·50 „	8·7 „
„	Knockando	3·70 „	8·9 „
XVIII.	Alvie Gardens	3·80 „	11·2 „
„	„ Manse	3·57 „	10·7 „

November 11th—12th.

An extremely deep depression approached the west coast of Ireland during the 11th, and on that and the following day moved in a semi-circular track south-westward to the Scilly Isles and afterwards north-eastward, passing nearly over London. Strong south-westerly winds, backing later to south, brought heavy and long continued rain to all parts of Ireland, Wales and England, the axis of heaviest fall lying in a broad belt extending from Galway Bay to the Wash, and diminishing somewhat in intensity from west to east. The rain area was fairly defined on the north at about the latitude of Edinburgh, and more than ·50 in. fell during the two days everywhere south of a line running roughly east and west from Achill Island, off the coast of Mayo, to Newcastle-on-Tyne. The northern border of the 1 inch area ran closely parallel to the ·50 in. line, stretching from Clare Island, through the Isle of Man to the Yorkshire coast near Flamborough Head. There were evidences of a belt in which the rainfall was, at intervals, below 1 inch, extending from near Land's End to Yarmouth, but with this exception, the whole of the British Isles

south of the 1 inch line mentioned above had more than 1 inch during the two days. The 2 inch areas were less continuous, but unusually extensive, occupying a belt very broad in the west, where it extended from Clew Bay to Cape Clear, and dwindling to isolated patches in the east, where its farthest extension reached nearly to Cromer. The main areas occupied the whole of the south-west quadrant of Ireland, part of

RAINFALL, NOVEMBER 11TH-12TH, 1915.



the south-east of Ireland, and practically the whole of Wales. Scattered patches of no great extent in other parts of England also had more than 2 inches. In both the main 2 inch areas in Ireland, as well as in Snowdonia, there is clear evidence of a fall of more than 3 inches over considerable districts, but they lie in neighbourhoods where rain gauges are few and far between, and we do not lay great stress on their exact outline. The most extensive and best established 3 inch areas were on the north and south of Galway Bay, and over the north of the Wicklow Hills, and in parts of both these areas it is probable that more than 4 inches, and in

some cases as much as 5 inches, fell, but we do not feel justified in attempting to draw isohyets for the higher values, and have indicated the areas over which it appears probable that 3 inches fell, in solid black on the map.

Comparatively few notes have reached us giving particulars of the results of these very serious rain storms in Ireland, but it is clear that much damage was done in places. We quote in an abbreviated form an account of the storm at Wicklow sent to us by the Rev. H. Ellison.

On November 12th there was a combination of an unusually high tide, a severe north-easterly gale, and an abnormally heavy rainfall (3½ inches fell in about 32 hours). The consequence was that the sea came over the new protection wall and flooded the foreshore and the adjoining low-lying streets. The water invaded the houses, obliging the residents to take refuge in the upper stories. Children had, in many cases, to be carried to places of safety. A large part of the low wall bordering the river was washed away. A foreign steamer was driven ashore and wrecked on the coast between Wicklow and Newcastle, but the crew were fortunately all rescued. After the storm was over large quantities of coal were found strewing the shore, washed up out of the sea.

In order to put the data on record we have measured the rainfall zones on the map for the area with more than 1 inch.

	Area, sq. miles	General Rainfall, inches.	Volume of Rain, sq. miles x inches.
More than 3 inches	2,253	3·39	7,638
2—3 inches	21,183	2·39	50,546
1—2 „	51,060	1·43	72,939
	74,496		131,123

The general rainfall for the whole area with more than 1 inch was 1·76 in. For the part of Ireland with more than 1 inch the general fall was 2·15 in. The total volume of water precipitated over the areas measured was 1,898,577 million gallons.

November 11th.

XI.	Llantrisant (South Rhondda Colliery)	3·53 in. or 5·4 per cent.	
XX.	Valencia (Cahirciveen)	2·68 „	4·3 „
XXII.	Knockboy House	3·32 „	6·6 „
„	Delphi Lodge	2·96 „	3·1 „

November 12th.

III.	Etton [Market Deeping]	1·89 in. or 7·9 per cent.	
„	Wisbech (Monica Road)	2·12 „	8·1 „
„	„ (Queen's Road)	2·14 „	8·9 „
IV.	Little Massingham	3·15 „	9·9 „
„	Outwell (Welbreck Sluice)	2·04 „	8·2 „
„	Snettisham	2·11 „	7·8 „
VII.	Crowland (Bank House)	2·31 „	9·8 „

IX.	Greenfield (Yeoman Hey)	2.59 in. or 4.9 per cent.	
„	Gouthwaite (Holme House)	2.63 „ 6.5 „	
XI.	Prestatyn (Victoria Avenue)	2.40 „ 8.3 „	
„	Llanfairfechan	3.23 „ 7.3 „	
XX.	Ennistymon (Doolin)	3.08 „ 6.6 „	
XXI.	Wicklow (Leitrim Place)	2.74 „ 7.1 „	
„	„ (Wentworth House)	2.54 „ 6.6 „	
„	Roundwood	2.90 „ 5.6 „	
„	„ (Vartry Lodge)	3.03 „ 6.0 „	
„	„ (Knockatemple)	2.76 „ 5.4 „	

November 13th.

XI.	Snowdon (Cwm Dyli)	3.30 in. or 3.0 per cent.	
„	„ (Old Road)	2.68 „ 2.7 „	

December 5th.

No individual records qualified for inclusion in the Chronicle, but it should be put on record that heavy rain fell in parts of Wales and the north of England. On the moors of Westmorland and the southern uplands of Scotland there were considerable falls of snow causing loss to sheep farmers. Much flooding occurred in Yorkshire and South Wales.

December 10th.

A cyclonic winter rain in the West of Scotland.

XV.	Mull (Lochbuie Castle)	3.02 in. or 4.0 per cent.	
„	„ (Ulva)	2.92 „ 5.3 „	
XVIII.	Glenleven (Kinlochmore)	3.13 „ 3.9 „	

December 14th.

A winter rain of considerable magnitude falling with a north-west wind. The total exceeded 2 inches over parts of Glamorgan, Devon and Dorset, and was more than 3 inches on the summit of Dartmoor.

V.	Sheepstor (Burrator)	3.15 in. or 4.4 per cent.	
„	„ (Head Weir)	2.74 „ 4.3 „	
„	Dousland Reservoir	3.00 „ 4.7 „	
„	South Brent (Great Aish)	2.91 „ 3.9 „	
„	„ (Glazebrook)	2.80 „ „	
„	Princetown (H.M. Prison)	3.95 „ 4.5 „	
„	„ (Two Bridges)	2.97 „ 3.7 „	
„	Postbridge (Redgate)	2.90 „ 3.6 „	
XI.	Glyncorwg Colliery	2.50 „ 3.3 „	

December 27th.

XI.	Snowdon (Pen-y-Gwryd)	2.96 in. or 2.5 per cent.	
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December 31st.

Severe gales were experienced, especially in the west, and heavy rain fell on the north-west coasts of England and Ireland.

X.	Patterdale Hall	2.90 in. or 3.9 per cent.	
	" (Greenside Mine)	2.85 ..	4.4 ..
XI.	Lake Eiggiau (Dam Site)	3.00 ..	3.9 ..
XXII.	Aasleagh House	2.55 ..	3.0 ..

Part II.—Abstract.

The data given under this heading in *British Rainfall, 1914*, completed the fiftieth year of similarly treated records, and readers who have followed the discussion of their comparative value in recent volumes will read with no great surprise that we have decided, after careful deliberation, to discontinue the tabulation of the mean values for all stations, which we believe, for reasons already stated, to be of little real utility. The opportunity presents itself at the same time to make a clean sweep of the method of dealing only with the *maximum* daily rainfall at each station. This method, which was the only one possible when relatively few complete daily records were sent in, has become rather meaningless at the present time, when the number of daily registers received approximates to three-quarters of the total number of records. In this volume, therefore, we tabulate the number of daily readings which reach the limits of 2.00 in., 3.00 in., 4.00 in., or 7.5 per cent. of the year's total, respectively, and if several such readings occur at any station they have all been included. It will be observed that in the Chronicle, forming Part I. of this section, we still confine the records quoted to the maximum falls, but this is necessary in order to economize space. In Tables I. and II., giving the largest falls and the largest percentages observed during the year, only one record is quoted from any individual station, as otherwise the representative nature of the lists would be impaired. Table III., comparing the extreme records with those for previous years remains unaltered, save that for the years 1865 to 1869 we include only the largest and smallest of the maximum values, in order to get the table into the page.

In Table I. are given the 20 largest maximum daily rainfalls recorded during 1915. Compared with most years the records, apart from the great fall of 7.06 in., at Dalcross, are moderate in amount. It is very rare to find so few as two stations recording falls of 4 inches. A remarkable feature of the table is the fact that so few of the entries refer

to winter rainfalls in the normally rainy districts, and none to true summer thunderstorms, the majority being the result of the cyclonic storms of July 16th in England, and September 25th, October 27th to 28th, and

TABLE I.—*The Largest Maximum Falls in 1915.*

Date.	Div.	Station.	Depth.	Per Cent.	Total.
			in.		in.
Sept. 25	XVIII.	Croy, Dalcross Castle	7·06	19·7	35·92
" 25	"	Fortrose	4·07	12·9	31·58
July 16	VII.	Loughborough, Burleigh Road	3·98	12·5	31·87
Dec. 14	V.	Princetown, H.M. Prison	3·95	4·5	87·33
July 16	VII.	Loughborough, Sewage Farm	3·87	12·4	31·16
Nov. 9	XVIII.	Alvie Gardens	3·80	11·2	34·00
Sept. 25	XVII.	Nairn, Delnies	3·78	12·7	29·70
Mar. 4	XV.	Dalmally, Manse of Glenorchy.....	3·72	5·6	66·42
Nov. 9	XVII.	Knockando	3·70	8·9	41·52
Mar. 4	XV.	Loch Eil, Corran	3·67	5·8	63·08
Apr. 19	X.	Borrowdale, Seathwaite	3·67	3·5	103·50
Mar. 4	XV.	Ardgour House	3·66	5·0	72·79
Sep. 25	XVIII.	Inverness, High School	3·64	13·1	27·81
Oct. 28	XVII.	Strachan, Bridge of Dye	3·60	6·4	56·25
Nov. 9	XVIII.	Alvie Manse	3·57	10·7	33·24
Oct. 27	XXIII.	Mourne Mountains, Foffany Res. ..	3·55	5·1	69·85
" 28	XVII.	Crathes, Crossroad, Durriss.....	3·53	7·6	46·52
Nov. 11	XI.	Llantrisant, Rhondda Colliery	3·53	5·4	65·27
Feb. 16	XI.	Treherbert, Tyn-y-waun	3·51	3·8	91·08
July 16	VI.	Burton, Shobnall.....	3·50	12·2	28·66

TABLE II.—*The Largest Maximum Percentages in 1915.*

Date.	Div.	Station.	PerCent.	Depth.	Total.
				in.	in.
Sept. 25	XVIII.	Croy, Dalcross Castle	19·7	7·06	35·92
" 25	"	Inverness, High School	13·1	3·64	27·31
" 25	"	Fortrose	12·9	4·07	31·58
" 25	"	Nairn, Delnies	12·7	3·78	29·70
July 16	VII.	Loughborough, Burleigh Road	12·5	3·98	31·87
" 16	"	" Sewage Farm	12·4	3·87	31·16
" 16	VI.	Burton, Shobnall.....	12·2	3·50	28·66
Sept. 25	XVII.	Nairn, Acharcidh	11·6	3·29	28·39
July 16	VII.	Willington W.W., Milton	11·4	3·01	26·47
Nov. 9	XVIII.	Alvie Gardens	11·2	3·80	34·00
July 16	VII.	Kingston, Midland Agricultural Coll. ...	11·1	2·84	25·63
" 16	"	Barrow-on-Soar	11·0	3·12	28·42
Nov. 9	XVIII.	Alvie Manse	10·7	3·57	33·24
July 16	VII.	Stanton-by-Bridge	10·7	3·07	28·70
" 16	"	Kingston Hall	10·5	3·11	29·91
Sept. 25	XVIII.	Invergordon, The Ord	10·5	2·84	27·16
July 16	VII.	Prestwick Hall	10·4	3·02	29·02
" 16	"	Loughborough, Nan Pantan Res.	10·2	3·24	31·86
" 16	VI.	Rugeley, Beau Desert	10·2	3·15	30·78
" 16	VII.	Ashby-de-la-Zouch, Cole Orton	10·1	3·40	33·60

TABLE III.—*Comparison of Maximum Fall and Maximum Percentage with those in previous years.*

Year.	ABSOLUTE HIGHEST RAINFALL.				ABSOLUTE HIGHEST PERCENTAGE.				Year.
	Depth	Per cent.	STATION.	Div.	Per cent.	Depth	STATION.	Div.	
	in.					in.			
1865—1869.									
1869	6·70	4·5	Seathwaite	10	17·7	4·78	Hartlip	2	1867
					10·0	2·48	Burton	6	1866
1867	4·78	17·7	Hartlip	2	10·0	3·40	Tillydesk	17	1869
1870	6·00	17·1	Tongue	19	17·1	6·00	Tongue	19	1870
1871	4·24	9·6	Melbury	5	11·5	3·62	Warter	9	1871
1872	5·82	3·2	Seathwaite	10	10·0	3·70	Hillington Hall	4	1872
1873	4·20	2·9	"	"	11·8	2·77	Oscott	6	1873
1874	5·32	4·4	Bryn Gwynant	11	11·9	2·50	Welwyn	3	1874
1875	5·33	9·7	Newport W.W.	"	13·2	3·95	Letheringsett	4	1875
1876	4·50	5·5	Foffany	23	8·5	3·70	Cragside	10	1876
1877	4·98	5·3	Skye, Portree ...	18	9·3	3·09	Wellington	6	1877
1878	4·24	8·6	Springfield	11	11·8	3·90	Haverstock Hill	1	1878
1879	4·05	4·1	Little Langdale ..	10	12·3	3·80	Cambridge, Merton V. ..	3	1879
1880	4·75	3·9	Seathwaite	"	11·7	3·34	Marmont Priory Lock ..	"	1880
1881	5·42	4·7	Sligachan	18	10·6	3·20	Aboyne Castle	17	1881
1882	4·51	3·0	Seathwaite	10	9·1	2·80	Bothalhaugh	10	1882
1883	5·27	9·0	Glen-na-Smoel	21	12·3	4·31	Skegness	7	1883
1884	6·78	5·0	Seathwaite	10	13·8	2·66	Diss, Thelveton	4	1884
1885	4·62	3·2	"	"	9·6	2·62	Beccles, Ellough	"	1885
1886	4·20	9·9	Little Bredy ...	5	11·5	4·10	Leeds, Methley Park..	9	1886
1887	4·93	13·0	Galway, Q. Coll. ..	22	13·0	4·93	Galway, Queen's Coll. ..	22	1887
1888	5·20	5·4	Wythburn Vic... ..	10	11·8	3·24	Rothamstead	3	1888
1889	4·45	16·5	North Ockendon ..	4	16·5	4·45	North Ockendon	4	1889
1890	7·29	3·7	Ben Nevis Obs.	18	17·2	3·68	Slough, Langley	3	1890
1891	6·14	4·2	Seathwaite	10	14·4	4·00	Montrose, Sunnyside..	16	1891
1892	5·80	4·5	"	"	15·0	4·27	Flax Bourton	5	1892
1893	4·96	3·5	"	"	16·2	4·48	Cranmer Hall	4	1893
1894	7·74	5·1	Ben Nevis Obs.	18	11·1	3·56	Sidcup	2	1894
1895	4·83	16·1	Mellington Hall ..	11	16·1	4·83	Mellington Hall	11	1895
1896	4·59	3·7	Seathwaite	10	11·1	2·78	Barkby	7	1896
1897	8·03	5·6	"	"	14·1	2·40	Chatteris, Horseway L. ..	3	1897
1898	6·70	18·1	Angerton Hall	"	18·1	6·70	Angerton Hall	10	1898
1899	5·21	5·6	Grange	"	14·6	3·10	Wallingford	2	1899
1900	5·40	11·9	Ilkley, Cherry Bk ..	9	13·1	4·50	Gilstead Filters	9	1900
1901	5·66	5·7	Dungeon Ghyll	10	17·9	4·24	Maidenhead, The Firs ..	2	1901
1902	5·92	3·8	Ben Nevis Obs.	18	15·5	3·51	Esher Sewage Works..	"	1902
1903	4·78	2·2	"	"	12·8	4·41	Dartford, West Hill Ho. ..	"	1903
1904	5·62	6·0	Skelwith Bridge ..	10	15·8	3·48	Leamington, Binswood Av. ..	6	1904
1905	5·71	14·0	Glen-na-Smoel	21	14·9	3·98	Cofton Vicarage	5	1905
1906	6·15	4·7	Seathwaite	10	11·9	2·50	Cambridge, Herschel Ho. ..	3	1906
1907	4·86	9·4	Kingsbridge ...	5	12·5	3·40	Lincoln, St. Botolph's ..	7	1907
1908	4·80	9·9	Treharris	11	16·0	3·45	Great Glemham	6	1908
1909	6·46	5·7	Kinlochquoich	18	11·1	3·30	Tidworth Ho. [Ludgershall] ..	2	1909
1910	4·51	3·4	Seathwaite	10	13·0	3·93	Wheatley, Waterstock ..	3	1910
1911	7·00	4·7	"	"	14·2	3·25	Haxby, Moorlands ...	9	1911
1912	7·31	21·3	Brundall	4	22·2	6·67	Norwich, Carrow Ho.	4	1912
1913	6·06?	26·0?	Doncaster W.W.	9	26·0?	6·06?	Doncaster Pump'g Stn ..	9	1913
1914	6·35	4·1	Pen-y-Gwryd	11	14·8	3·35	Upminster	4	1914
1915	7·06	19·7	Dalcross	18	19·7	7·06	Dalcross ...	18	1915

NOTE.—The maximum values in each column are printed in heavy type and the minimum in italic type.

November 9th in Scotland. In Table II. are brought together the 20 largest percentages of the annual total formed by maximum daily rainfalls during the year. The Dalcross record again stands out far above any other. The whole of the records quoted refer to three days, July 16th, September 25th, and November 9th.

Table III. carries on the comparison of the greatest rainfall recorded in each year which has appeared in *British Rainfall* since 1865. The growing length of the table prevents us from including every year previous to 1870, and only the highest and lowest values for the five years, 1865-1869, are given. The Dalcross record ranks as fifth in point of magnitude, three of the greater falls previously recorded being at Ben Nevis or Seathwaite, and one being the record at Brundall, near Norwich, in the great storm of August 25th, 1912. Judged by the percentage which it bore to the annual total, the Dalcross record of 19.7 per cent. had been exceeded twice only, by the falls at Norwich on August 25th, 1912, and that at Doncaster on September 17th, 1913. Table IV. is new. In it we deal with all daily rainfalls exceeding certain limits and not with the maximum fall for the year only. The data, which are not strictly comparable with those published in previous volumes, must thus form the beginning of a new series. It will be seen that records in 1915 showed a total of 138 cases of 7.5 per cent. falls, 1,031 cases of two inch falls, 82 three inch falls, and only two four inch falls. The proportion of large daily falls to the total was, as might be expected, much larger in Scotland than in England and Wales, and this year also showed a larger proportion in Ireland than in England and Wales, though this is probably not the case normally. The table shows incidentally that in 1915 on the average of all stations, only one daily reading in 12,000 was so great as 7.5 per cent. of the year's total, one in 1,600 was as large as 2.00 in., one in 20,000 as large as 3.00 in., and only one in 800,000 as large as 4.00 in. This, of course, includes rainless days.

TABLE IV.—*Comparison of Heavy Daily Rainfalls.*

	No. of Records.	Falls of 7.5 per cent. or more.		Falls of 2.00 in. or more.		Falls of 3.00 in. or more.		Falls of 4.00 in. or more.
		No.	Per cent. of total.	No.	Per cent. of total.	No.	Per cent. of total.	No.
1915.								
ENG. & WALES—	3745	112	3.0	748	20.0	41	1.1	1
SCOTLAND—	550	26	4.7	212	38.5	33	6.0	1
IRELAND—	256	0	.0	71	27.7	8	3.1	0
BRITISH ISLES—	4551	138	3.0	1031	22.6	82	1.8	2

MONTHLY RAINFALL IN 1915.

No change has been made in presenting the monthly rainfall this year and it therefore seems unnecessary to give more than a brief epitome of the method followed, for a full description of which the reader is referred to recent volumes of *British Rainfall*.

The data are given in two forms (i.) the actual total fall in inches, and (ii.) the fall expressed as a percentage of the average fall during the 35 years, 1875-1909. The actual rainfall is printed for 300 stations, specially selected so as to give as nearly as possible an equal representation to all parts of the country, and is also shown in the maps which appear on the left-hand page of each opening from pp. [96] to [119]. In the construction of each in these maps some 2,000 records were utilized. The relation of the fall in each month to the average is given in Table I. for 107 stations also selected for equable distribution, and is shown graphically in the maps which face those of actual rainfall. The positions of the 107 stations given in Table II. are shown on the map for January as black dots, and other stations used in drawing the maps are represented as rings.

The general values for the countries and for the British Isles are arrived at by taking the average of the values at the stations quoted in the tables, and they may be accepted as close to the actual truth.

Taking the **British Isles** as a whole, the winter months, January, February and December were all wet, that is, with more than the average rainfall, February remarkably so with 185 per cent of its average fall, whilst December had 167 per cent. It should be borne in mind that over the country as a whole December is normally a much rainier month than February, and that whilst its percentage excess was 18 per cent. less, its actual rainfall was 1.59 inches greater than that of the latter month. The only other wet month in 1915 was July, when the general fall was 144 per cent. of the average. Of the remaining eight months, one, April, which was wet in Scotland, had 96 per cent. of the average for the British Isles as a whole, and was technically dry, but March, May, June, and the four months August to November inclusive, had in no case more than 80 per cent. of the average. The driest months were March, with 60 per cent., and September with 58 per cent., of the average. Whilst the wet months

of the year were outnumbered by the dry, their excess was relatively so much more pronounced that the fall for the whole year was slightly above the average.

In **England** both February and December had a little more than double the average fall, and January and July 147 and 164 per cent. respectively. May also had rather more than the average. Three months, March, June, and September had less than 60 per cent., whilst April, August, October and November had more moderate deficiencies. Owing principally to the great wetness of the winter months the total for the year exceeded the average by 9 per cent.

In **Wales** February was even wetter than in England, having 214 per cent. of the average, whilst December was rather less wet with 192 per cent. January, May and July were also wet, but not remarkably so. March and September were, in Wales, drier than any month in England, having only 41 and 38 per cent. respectively, or much less than half the average fall, and April, June, August, October and November all had a rainfall between 60 and 85 per cent. of the average.

Scotland was wet in the same months as England and Wales except that April took the place of May. The wetness of all these months, except April, was, however, less pronounced than elsewhere, February, the wettest month having 164 per cent., and January, July and December respectively 105, 117 and 129 per cent. March had 83 per cent. of its average, but May, in contrast to England, was, in Scotland, the driest month of the year, having only 45 per cent., or less than half the average. June had 55 per cent., or, in other words, May and June together had exactly half their average fall. The four months from August to November had, in each instance, between 60 and 70 per cent. of the average.

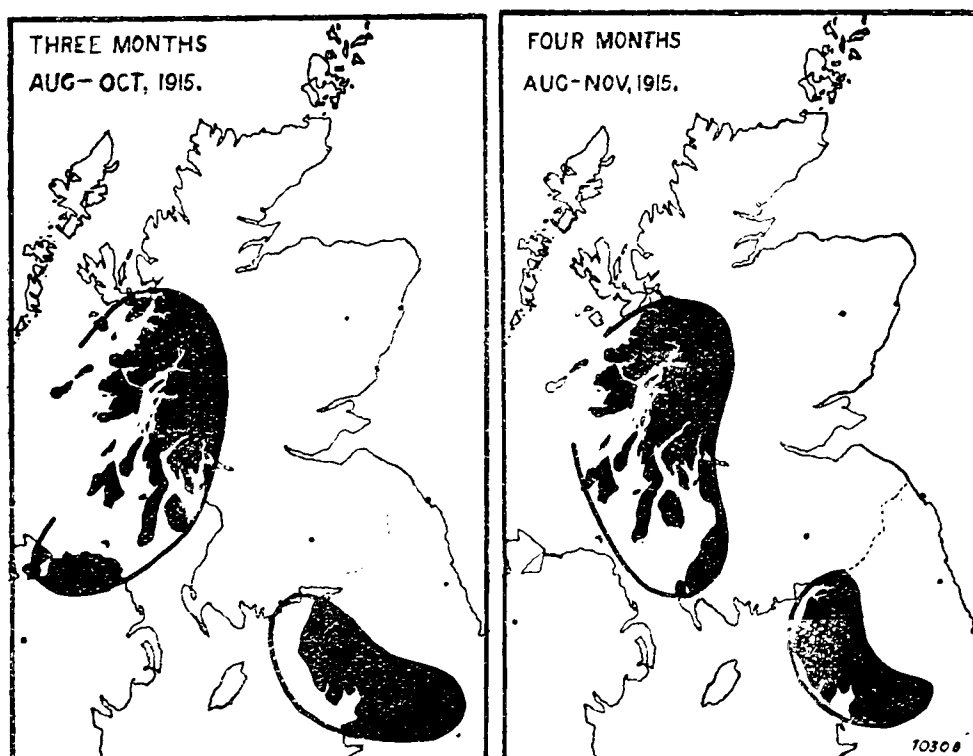
In **Ireland**, January, February, July and December were wet, though in every case less so than in England. October also had slightly more than the average, and April and November had less than 10 per cent. in defect. March was very dry, with only 39 per cent., whilst May and September had respectively 59 and 60 per cent.

The general distribution of rainfall throughout the year bore a striking resemblance to that in 1914. In both years, broadly speaking, the great bulk of the rainfall was concentrated in the winter months, whilst the spring, summer, and autumn were relatively dry except for July.

Whilst no month of 1915 stands out with great prominence for wetness or dryness the high rainfall in January and February, following as it did

on the abnormal wetness of December and moderate wetness of November, 1914, gave a character to the winter of 1914-15 which made it one of the most memorable in the history of British rainfall recording. This subject, as far as it relates to England and Wales, where the conditions were almost abnormal, was dealt with in a paper entitled "The Wettest Winter in England and Wales," read before the Royal Meteorological Society in May, 1915, by Dr. H. R. Mill and Mr. H. E. Carter, and is further referred to in the article on Seasonal Rainfall, 1914-5, in this volume.

"ENGINEERS' DROUGHT," AUTUMN, 1915.



The persistence of deficient rainfall culminating in the autumn months in some parts of the country was probably the most conspicuous feature of the year, and the localization of the driest areas in the West Highlands of Scotland and the western Pennines and Lake District, brought a threat of a water famine to neighbourhoods where such an event at such a season is regarded as the remotest contingency.

The districts most severely affected are shown in two sketch maps in which the areas tinted black are those which during the three months, August to October, and the four months, August to November, respectively,

had a total rainfall less than half the average amount, thus experiencing what Mr. Symons, in the *British Rainfall, 1887*, termed an "Engineers' Drought." Of the stations given in Table I. the following were affected.

Stations with less than half the average Rainfall in the Autumn of 1915.

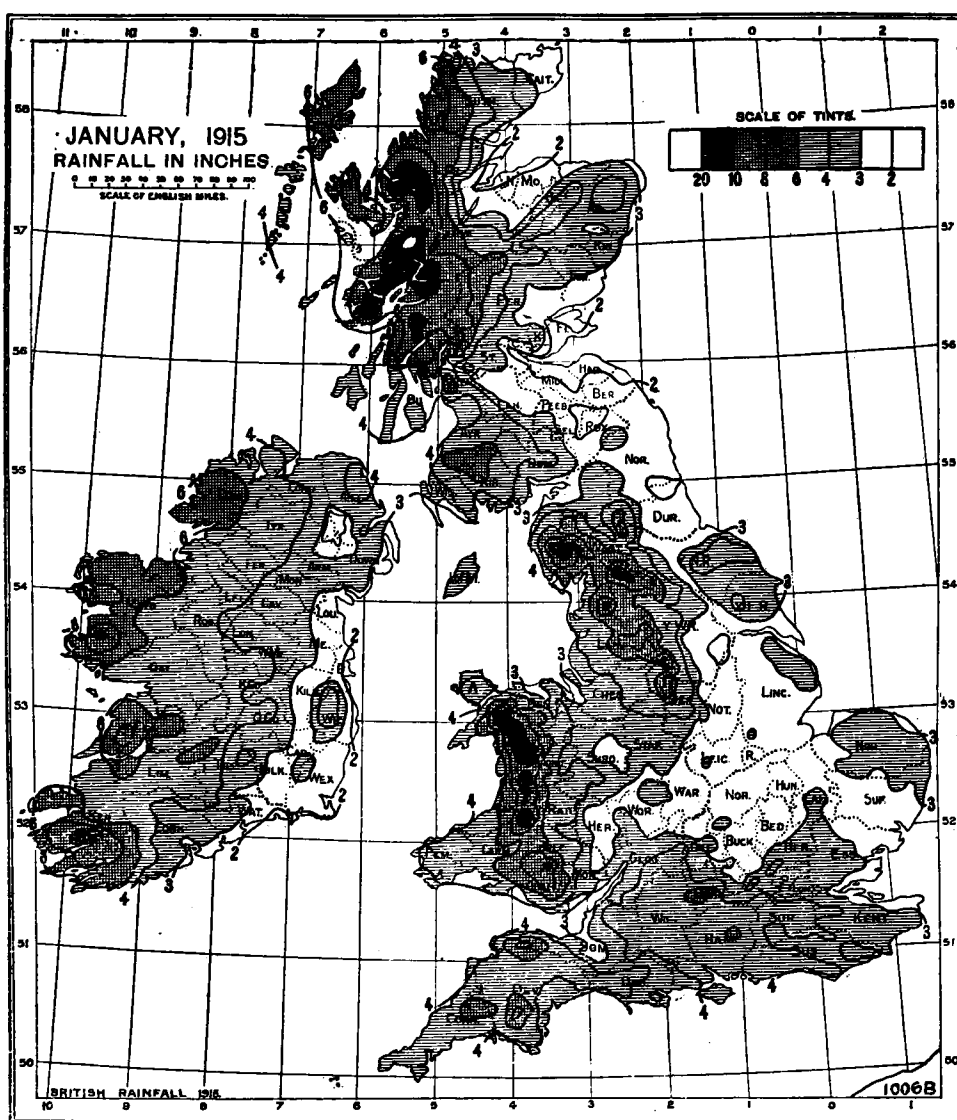
AUGUST TO OCTOBER, 1915.

Station.	County.	Average Rainfall. in.	Actual Rainfall. in.	Difference from average. in.	Per cent. of average.
Arneliffe ...	Yorks., W.R.	16·65	6·29	—10·36	38
Seathwaite ...	Cumberland	35·46	9·59	—25·87	27
Ystalyfera ...	Glamorgan	18·36	8·84	— 9·52	48
Inveraray ...	Argyll	18·67	8·22	—10·45	44
Islay, Eallabus	,,	13·93	6·45	— 7·48	46
Mull, Quinish	,,	16·07	5·73	—10·34	36
Glenquoich ...	Inverness	27·90	12·64	—15·26	45
Fort William	,,	20·13	8·88	—11·25	44
Limavady ...	Londonderry...	10·81	5·16	— 5·65	48

AUGUST TO NOVEMBER, 1915.

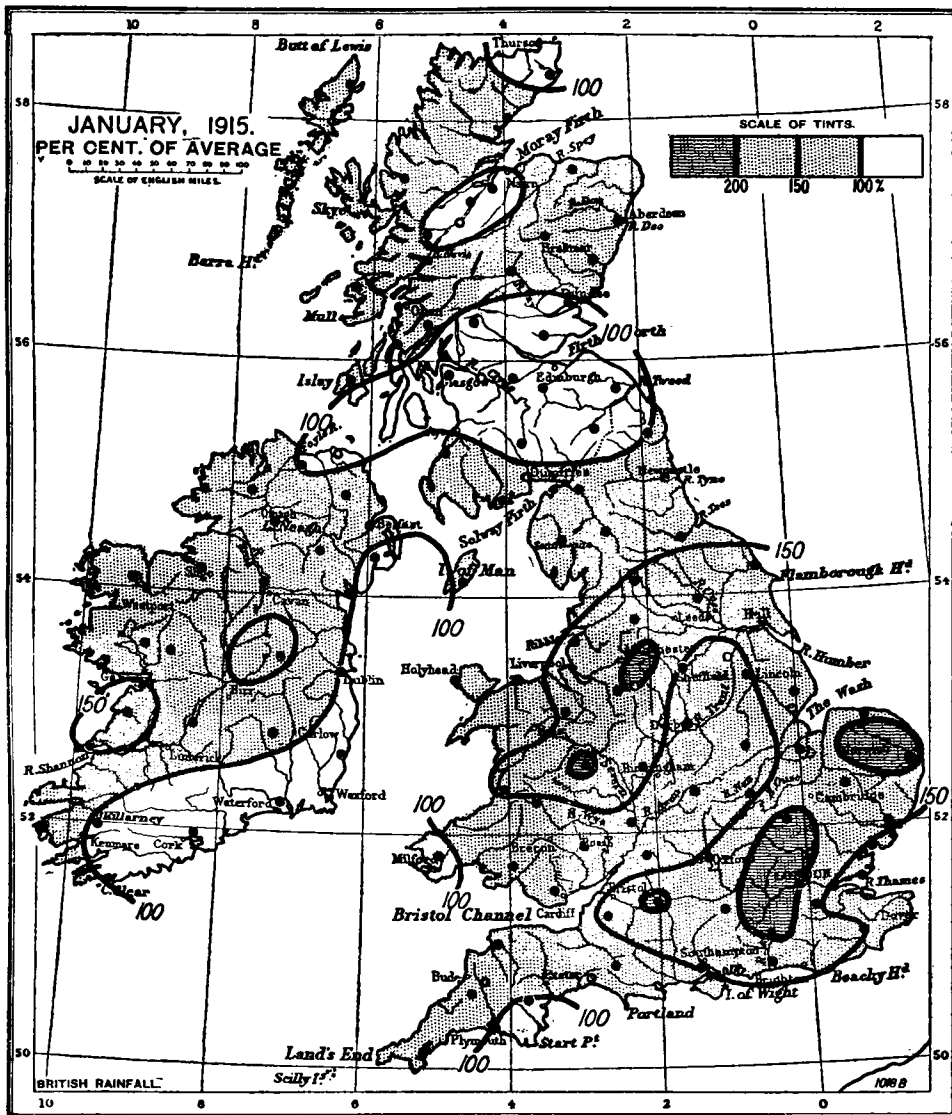
Arneliffe ...	Yorks., W.R.	22·77	10·12	—12·65	44
Carlisle ...	Cumberland	12·94	6·13	— 6·81	47
Seathwaite ...	,,	49·05	15·50	—33·55	32
Girvan ...	Ayr ...	19·46	9·32	—10·14	48
Inveraray ...	Argyll	26·06	11·40	—14·66	44
Islay, Eallabus	,,	19·26	9·53	— 9·73	49
Mull, Quinish	,,	22·31	8·73	—13·58	39
Glenquoich ...	Inverness	39·38	18·61	—20·77	47
Fort William	,,	27·68	11·39	—16·29	41

At Seathwaite no fewer than seven months of the year had each less than half their average fall, and of these, May, June, September and October, had each less than 30 per cent. The aggregate rainfall of the seven months from May to November inclusive was only 30·23 in., or 42 per cent. of the average, and 42·17 in. in defect. At Fort William the eight months, May to December, inclusive, had only 49 per cent. of the average for that period, and two other stations, Quinish and Glenquoich had less than half the average total rainfall during the period of seven months from May to November, inclusive.



January—Except during the last week a high pressure system lay over the south-west of Europe and the weather of the British Isles was dominated by a large number of Atlantic depressions following unusually diverse tracks, and frequent gales and heavy rains occurred.

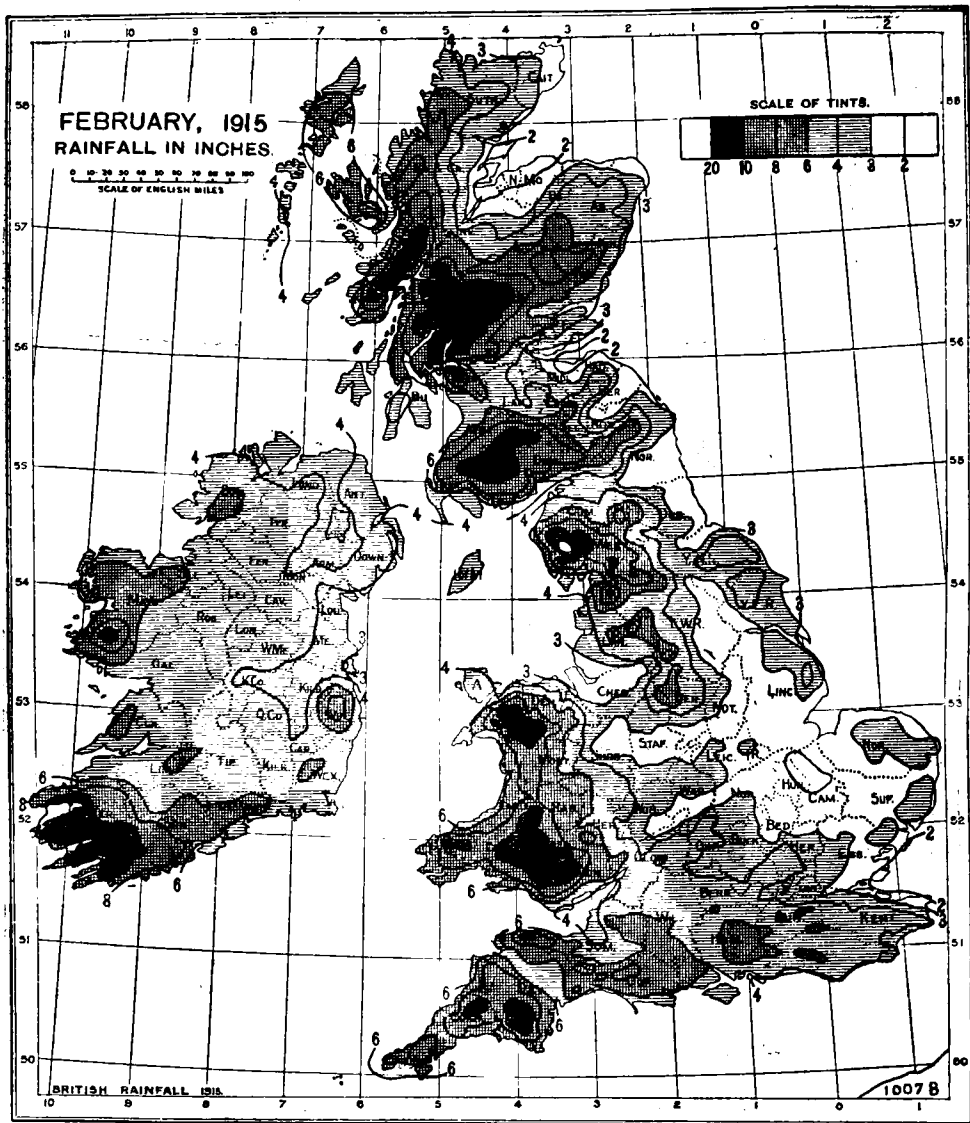
Less than 3 inches of rain fell over the greater part of the east of Great Britain and a narrower strip in the east of Ireland, but practically everywhere in the west had more than 4 inches. More than 6 inches fell in all mountainous districts in England and Wales, and in the north-west of Scotland generally, but only over a small part of the southern uplands of Scotland, and of the normally rainy areas in the west of Ireland. There were no large areas with more than 10 inches in England or Ireland, but



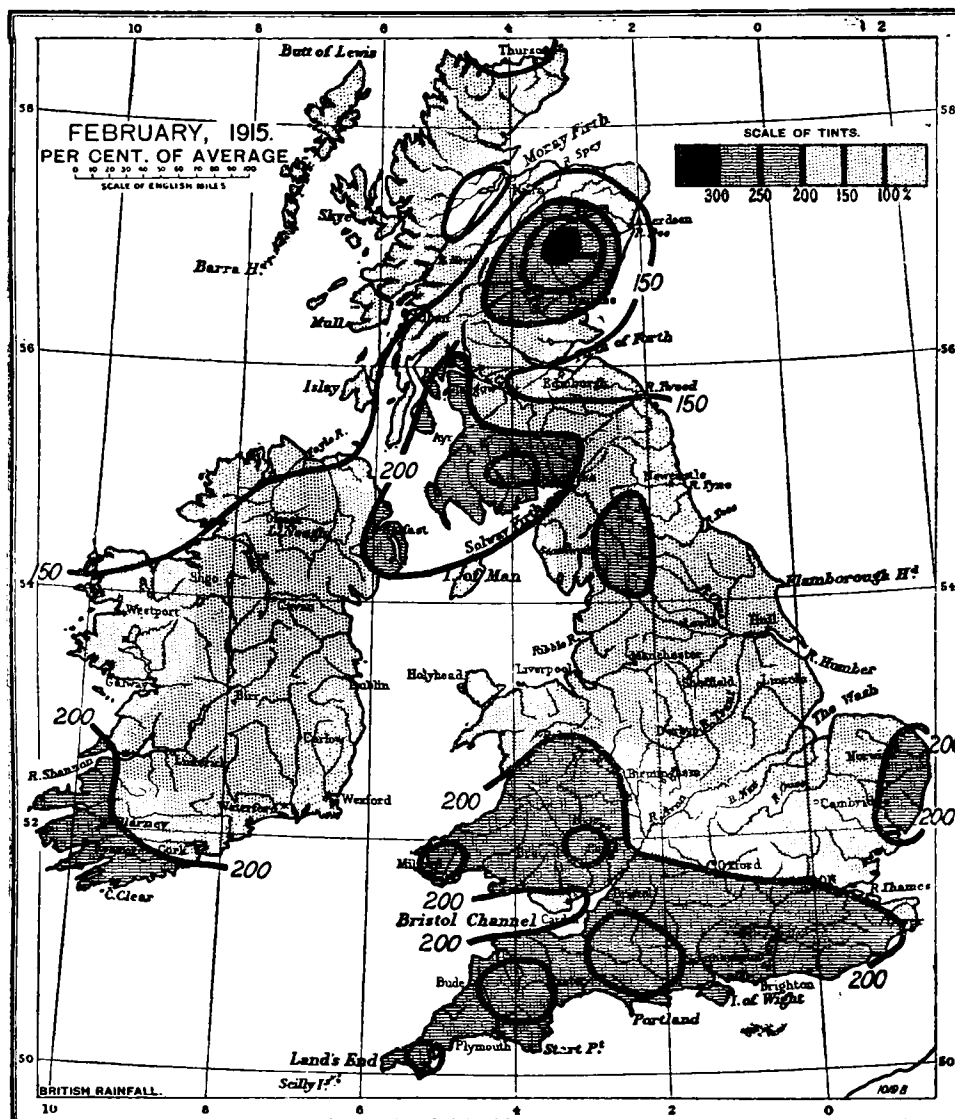
that amount fell in North Wales and parts of the West Highlands.

Small patches in England, principally in the south-eastern counties, had more than double their average rainfall, and most of the east of England had more than 50 per cent. above the average, but so large an excess as 50 per cent. was otherwise limited to parts of the centre of Ireland. Rather less than the average fell over most of the south of Scotland, and small areas in the north. The south and east coasts of Ireland and part of the south-west of England and Wales also had less than the average.

The general fall in England was 47 per cent. above the average, but in Scotland only 5 per cent. above. In Wales the excess was 28 per cent., in Ireland 17 per cent., and for the British Isles 24 per cent.



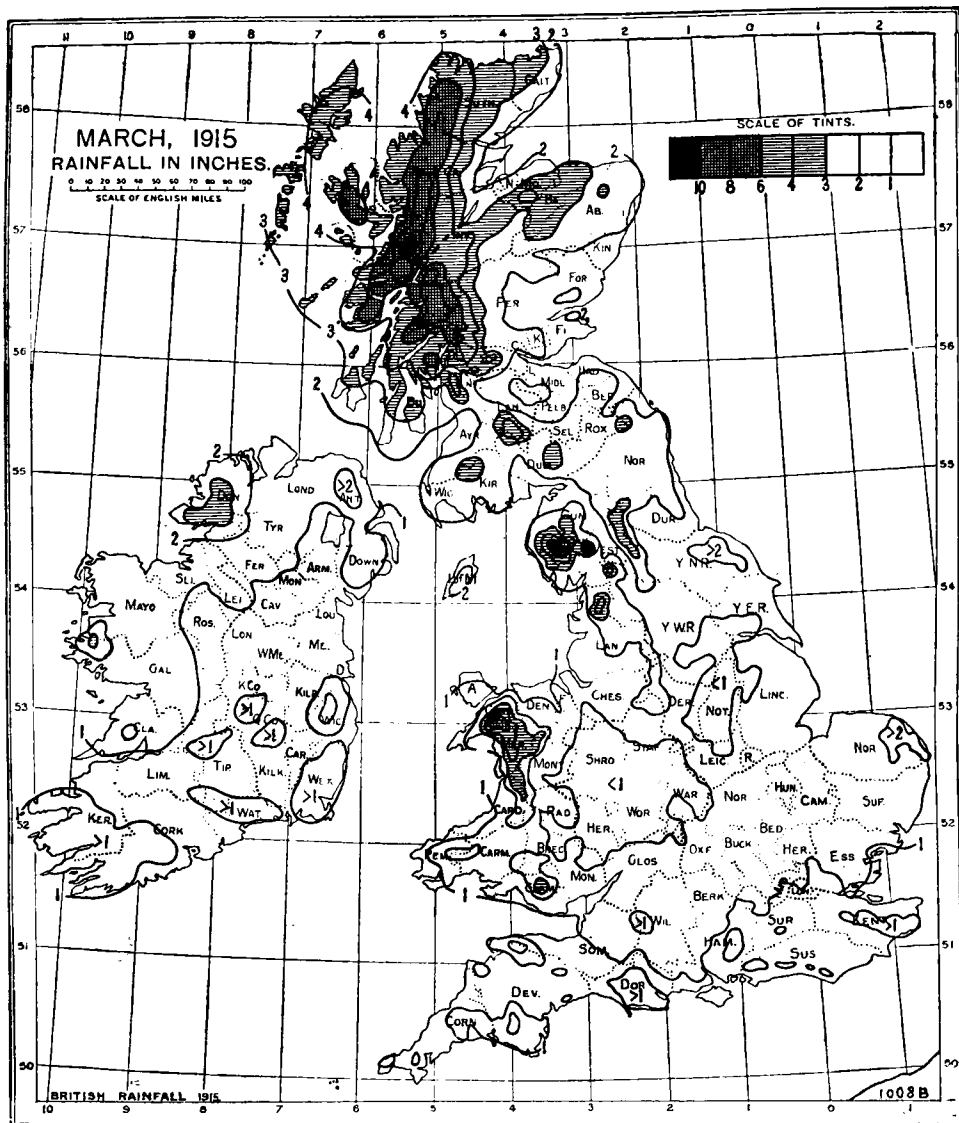
February—The conditions which characterized January continued on the whole throughout February in an intensified degree, and whilst high pressure persisted over Spain a succession of cyclonic disturbances traversed the British Isles, several following abnormal paths, and brought a continuance of stormy and wet weather over the country as a whole. The area with less than 4 inches of rain corresponded roughly with that with less than 3 inches in January, but less than 3 inches fell over most of the east midlands of England and part of the east coast of Scotland. A large part of the south of England and Ireland, and the whole of the elevated districts of Wales and Scotland, had more than 6 inches, but the areas with this amount in the Pennines and the west of Ireland were



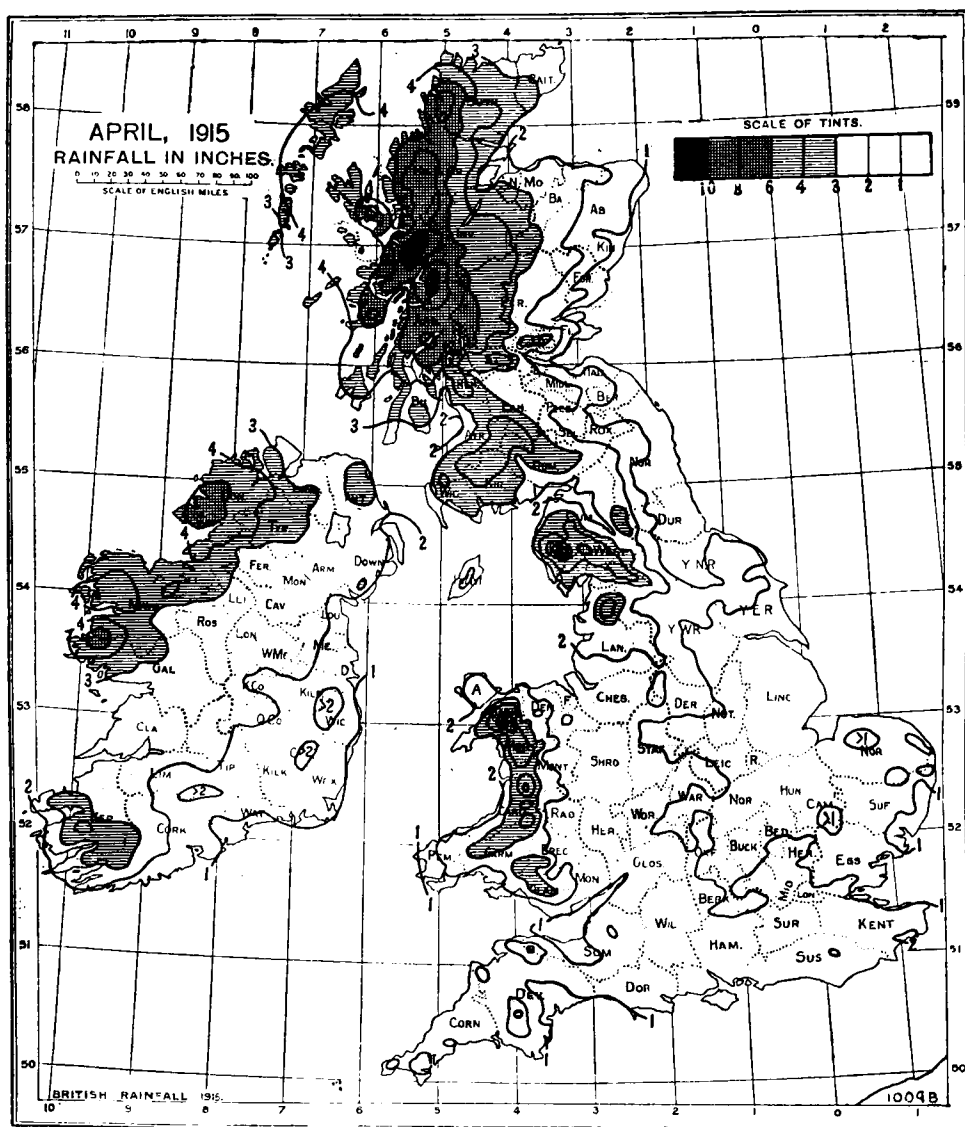
not unusually extensive. In all the normally rainy districts considerable areas had more than 10 inches.

More than twice the average fell in the south-west of Ireland, the south of England and Wales, the north-east of Ireland, the south-west of Scotland, and in the east of Scotland between the Great Glen and Firth of Tay, rising in south-west Aberdeenshire to three times the average. No part of England had less than 150 per cent. of the average but the north-west of Scotland was much less wet, parts receiving less than the average.

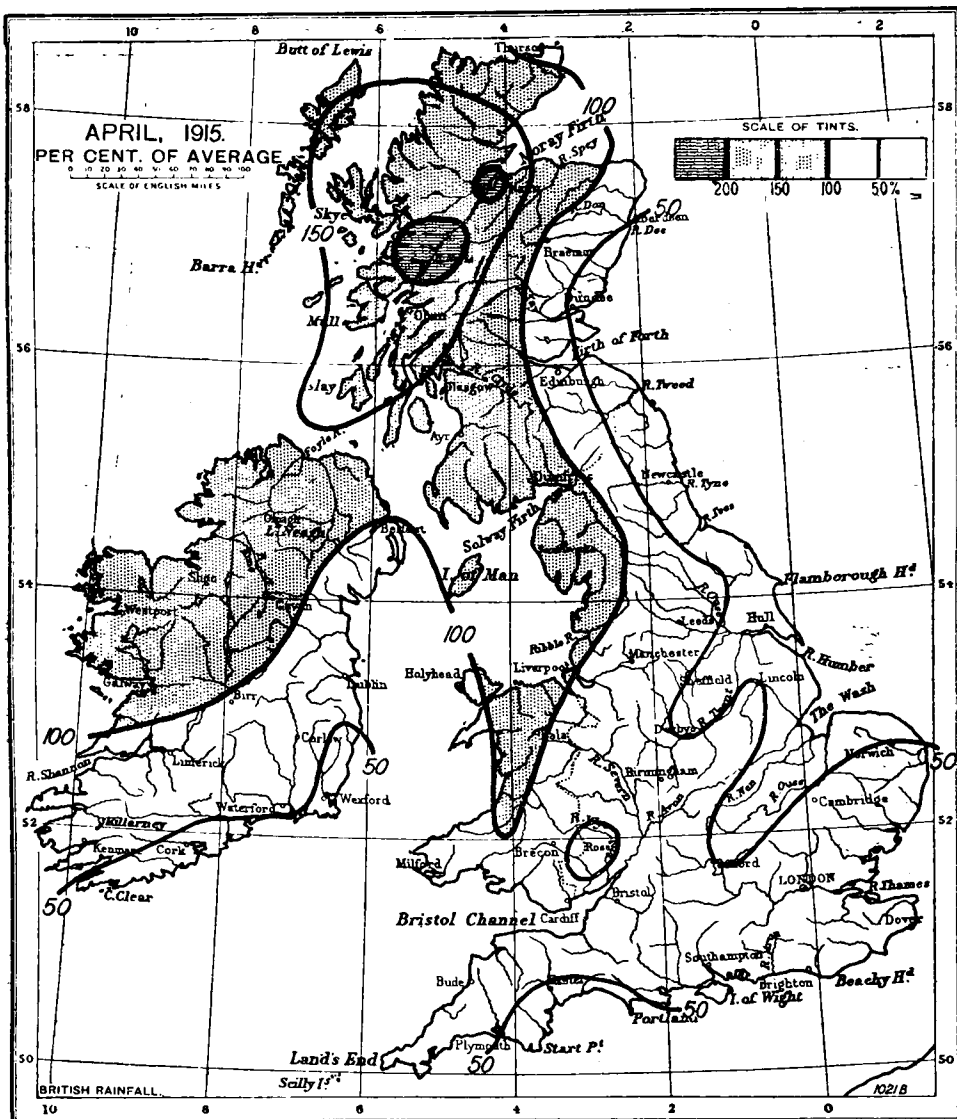
In England the general rainfall was 103 per cent. above, and in Wales 114 per cent. above the average. In Ireland the excess was 79 per cent., in Scotland 64 per cent., and for the British Isles as a whole 85 per cent.



March—The anticyclonic system which had been situated to the south of the British Isles during January and February moved slowly northward during March, and, lying for the most part to the west of Ireland brought, on the whole, a continuance of light northerly or north-westerly winds, and, except in the north, comparatively slight rainfall. Over practically the whole of England, Wales and Ireland, except the crests of the Pennines and Welsh hills, less than 2 inches of rain fell, and less than 1 inch in the south of England, in the east Midlands, and over a large part of the south and east of Ireland. In Scotland less than 2 inches was confined to a part of the eastern counties and small areas in the south-



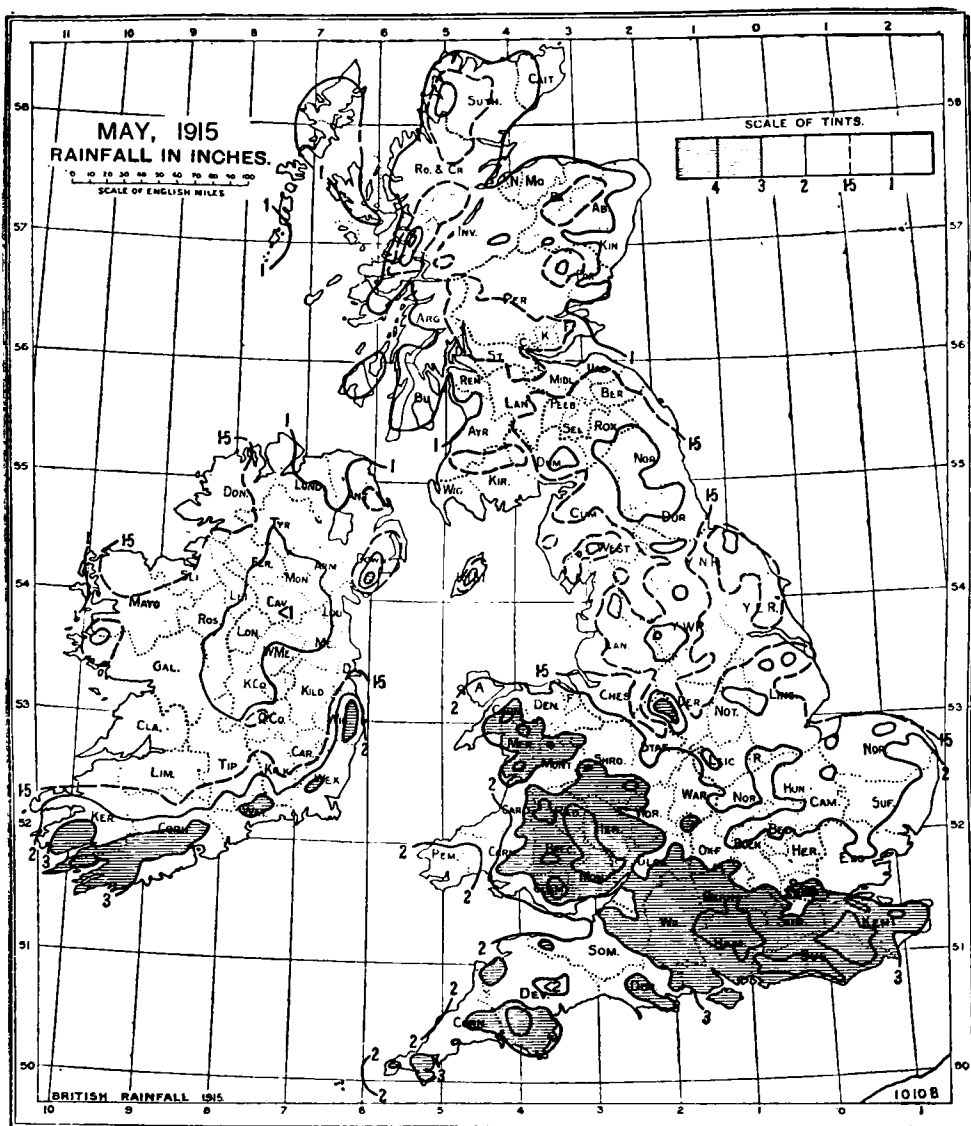
April—During the first half of April high pressure again prevailed to the south-west of the British Isles whilst stationary or slowly moving low pressure systems were situated to the north of Scotland. Westerly winds brought considerable rain at this time particularly in the west of Scotland, where it continued rainy till about the 20th, though it was fine in the south after about the 10th. During the last week of the month the anticyclone moved northward and became established over Scotland. Almost the whole of England, as well as the east coast of Scotland and the south-east of Ireland, had less than 2 inches of rain, less than 1 inch falling in the east. More than 4 inches fell only in the mountains in England and Wales and in broken patches along the west coast of Ireland, but,



practically everywhere in the west of Scotland. Most of the west Highlands had more than 6 inches and a small part more than 10 inches, an unusually large fall in April even for this district.

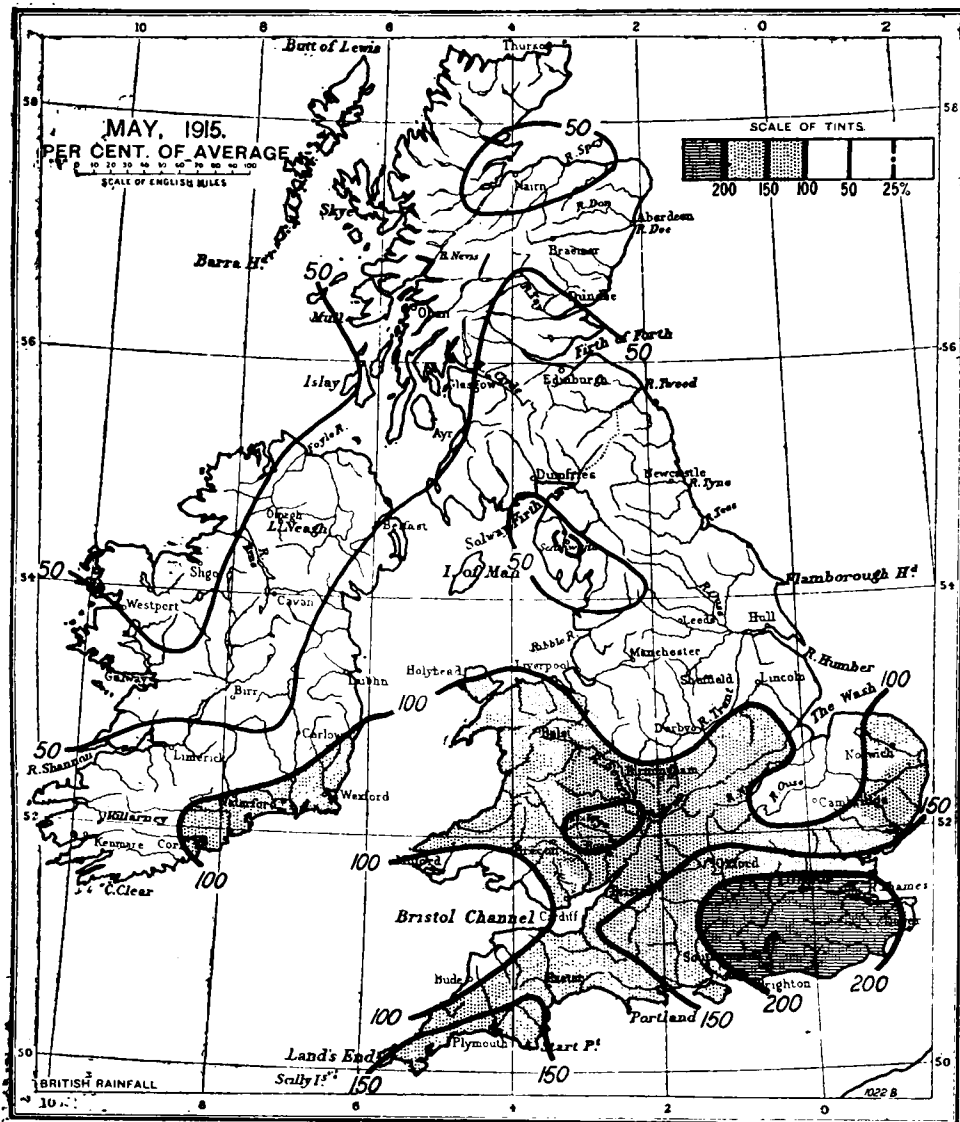
The area with more than the average comprised the north-west of Ireland and of England and Wales, and the whole of Scotland except the east coast. Along the Great Glen more than twice the average fell. The south of Ireland, the east of Great Britain, from Aberdeen to Yarmouth, and the south of Devonshire, had less than half the average.

The general fall in Scotland was 37 per cent. in excess, and that in Ireland 5 per cent. in defect, whilst in Wales and England there were deficiencies of 20 and 31 per cent. respectively. For the British Isles, as a whole, the rainfall was 4 per cent. below the average.



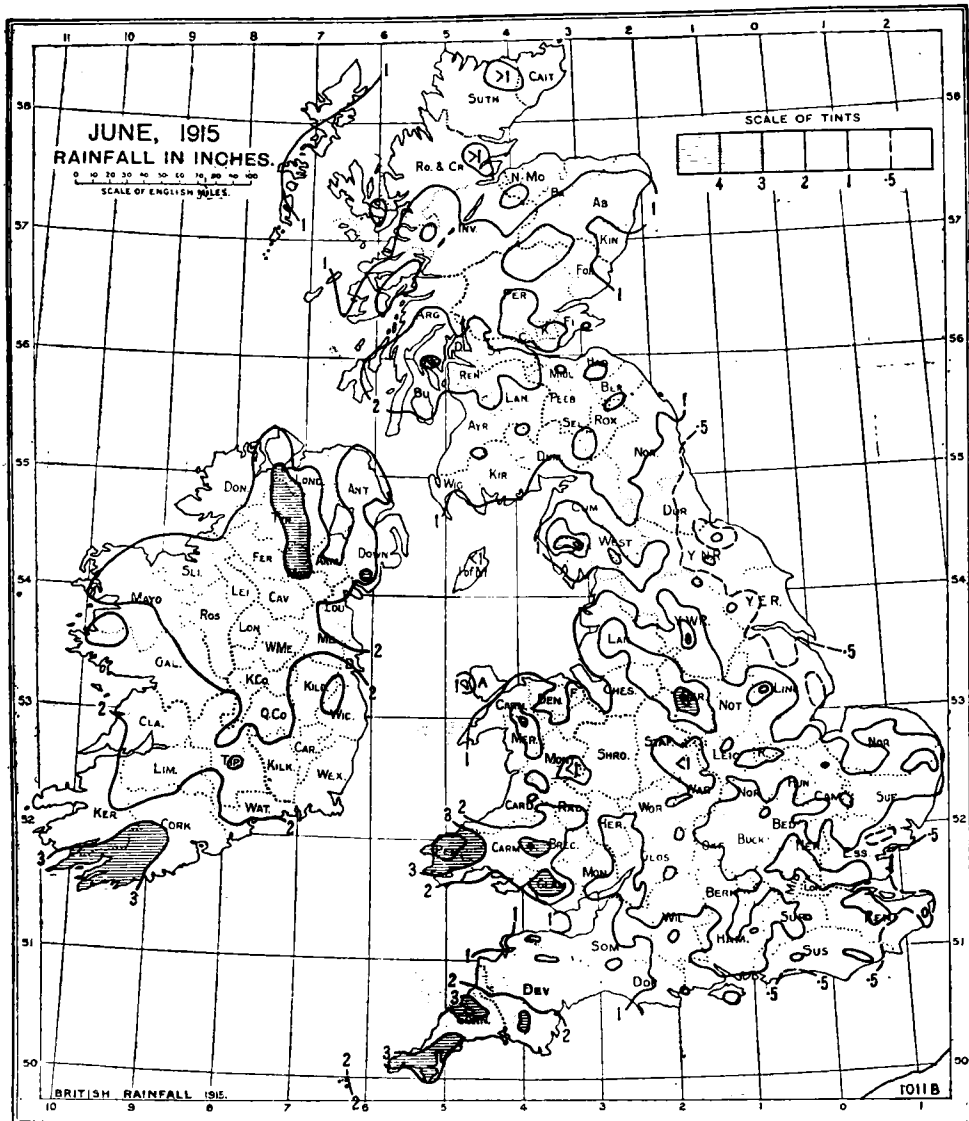
May—The barometric conditions were complicated and variable, but for the most part reversed those of April, high pressure lying to the north, and, save for a short period about the middle of the month, lower pressure to the south. Three marked depressions brought most of the rain on the 11th, 13th and 17th.

More than 3 inches of rain fell over much of the south of England and Wales during the month, rising to 4 or 5 inches in the south-eastern counties, but less than 2 inches fell over most of the north and over practically the whole of Scotland, where it was the driest month of the year. Ireland also was extremely dry except in the south, and less than 1 inch fell over much of the interior.



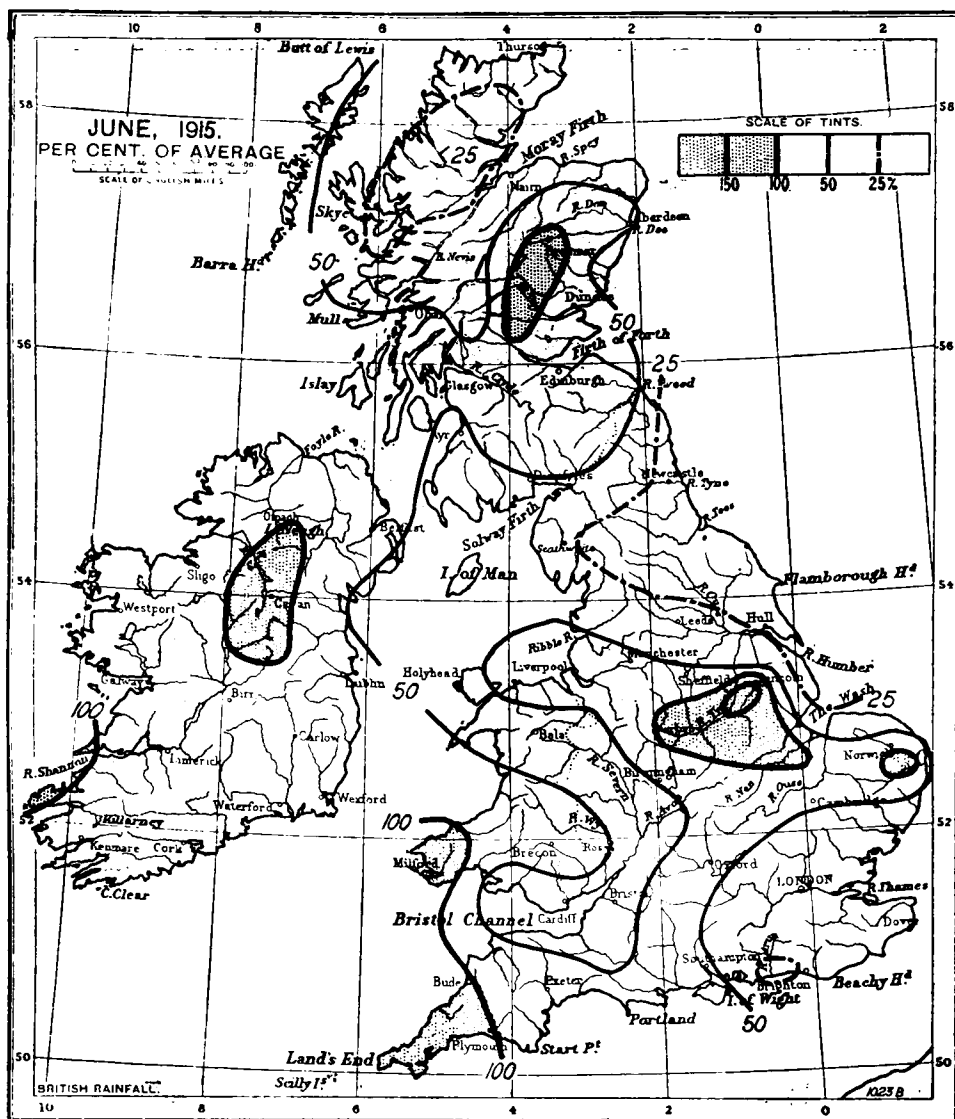
More than the average fell over the south of the British Isles east of Cork except round the Bristol Channel. The south-east of England had more than twice the average fall. A large part of Ireland and most of the north of Scotland had less than half the average, and this was also the case in the north-west of England, where less than a quarter of the average fell in the Lake District. The increase of rainfall from north to south was the most remarkable feature of the month.

In England and Wales there was an excess in general of 9 and 13 per cent. respectively, but Ireland had a general deficiency of 41 per cent., and Scotland of 55 per cent., the fall for the British Isles as a whole being 21 per cent. below the average.



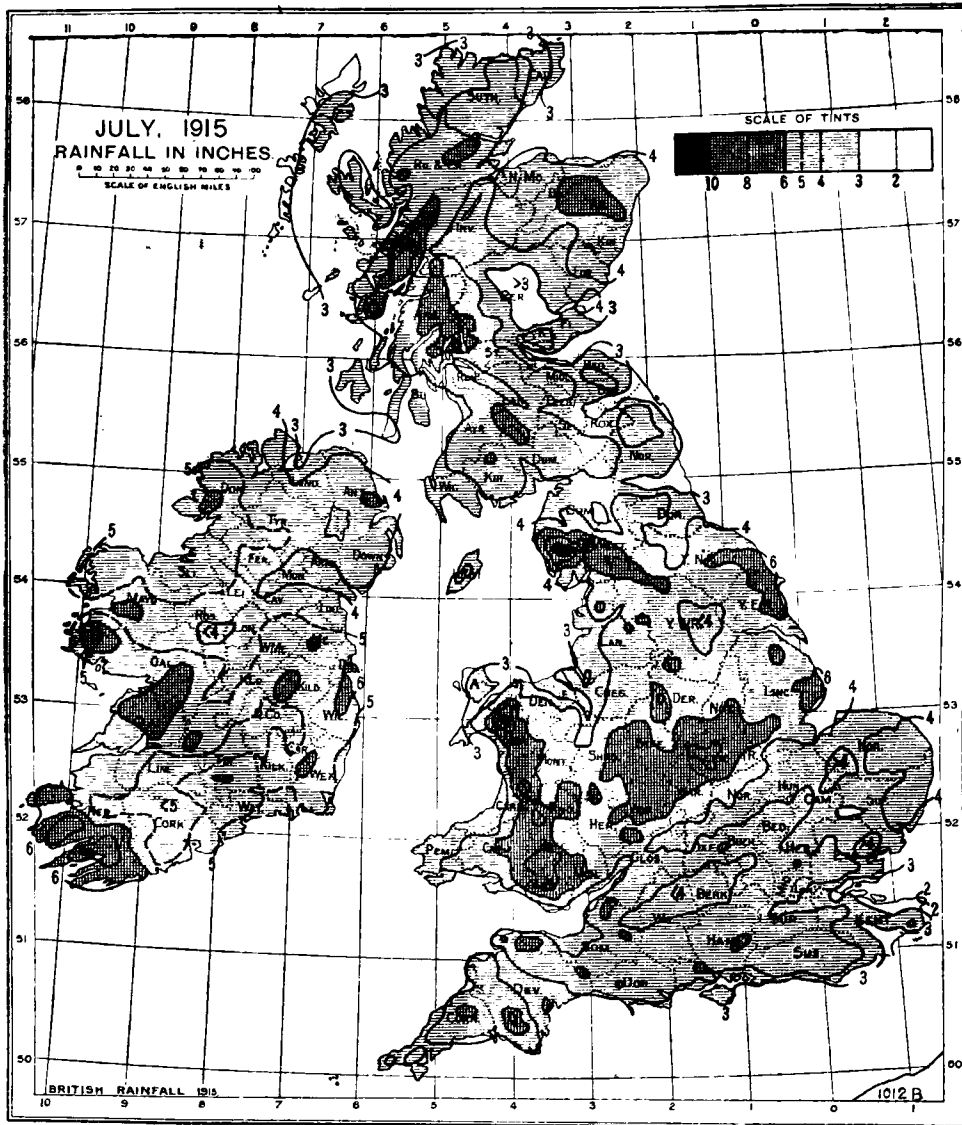
June—Until the last week the conditions, though not extremely settled, were, on the whole, anticyclonic and favourable for light and dry easterly winds. About the 9th, and again at the end thunderstorms brought heavy rain locally, but over the country as a whole the month was deficient in rainfall throughout. The north of Scotland and large scattered areas in England and Wales had less than an inch of rain, and the districts with more than two inches were small and broken, except in Ireland. More than 3 inches fell practically nowhere in Scotland, and only very locally in England, but there were more continuous areas with this amount in Ireland and in South Wales, the last being due to thunderstorms.

Less than half the average fell in the north of Scotland, the north.

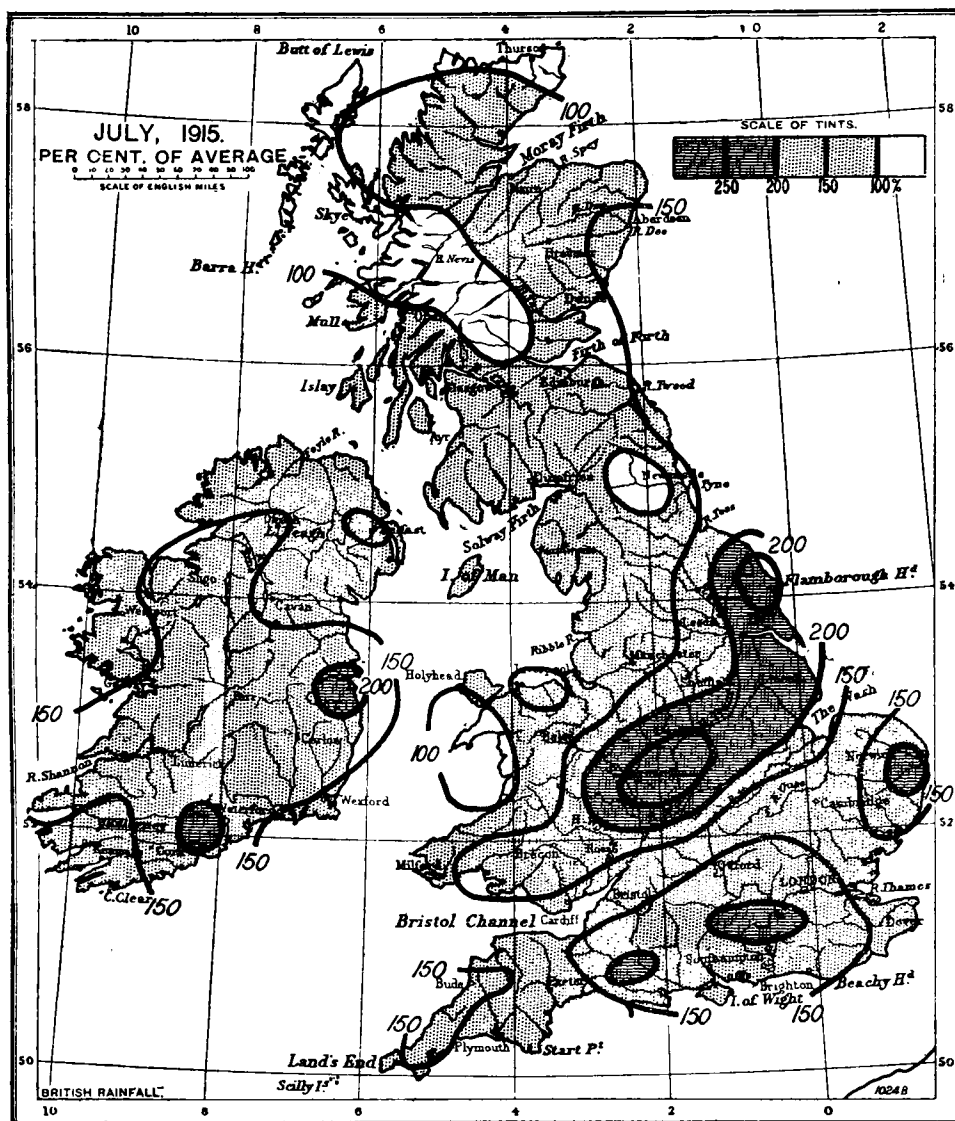


and south-east of England and the Welsh border, and less than a quarter of the average over parts of Ross and Sutherland, and on the north-east coast of England between Holy Island and the Wash, Darlington having only 11 per cent. of the average. The centre and south-east of Scotland, the north Midlands and the extreme south-west of England, and nearly the whole of Ireland were slightly wetter, and more than the average fell locally in Perthshire, the east Midlands of England, Cornwall, Pembrokeshire and part of the north and south-west of Ireland.

For the whole country the general rainfall was 40 per cent. below the average, the deficiency being 24 per cent. in Ireland, 36 per cent. in Wales, 45 per cent. in Scotland, and 46 per cent. in England.



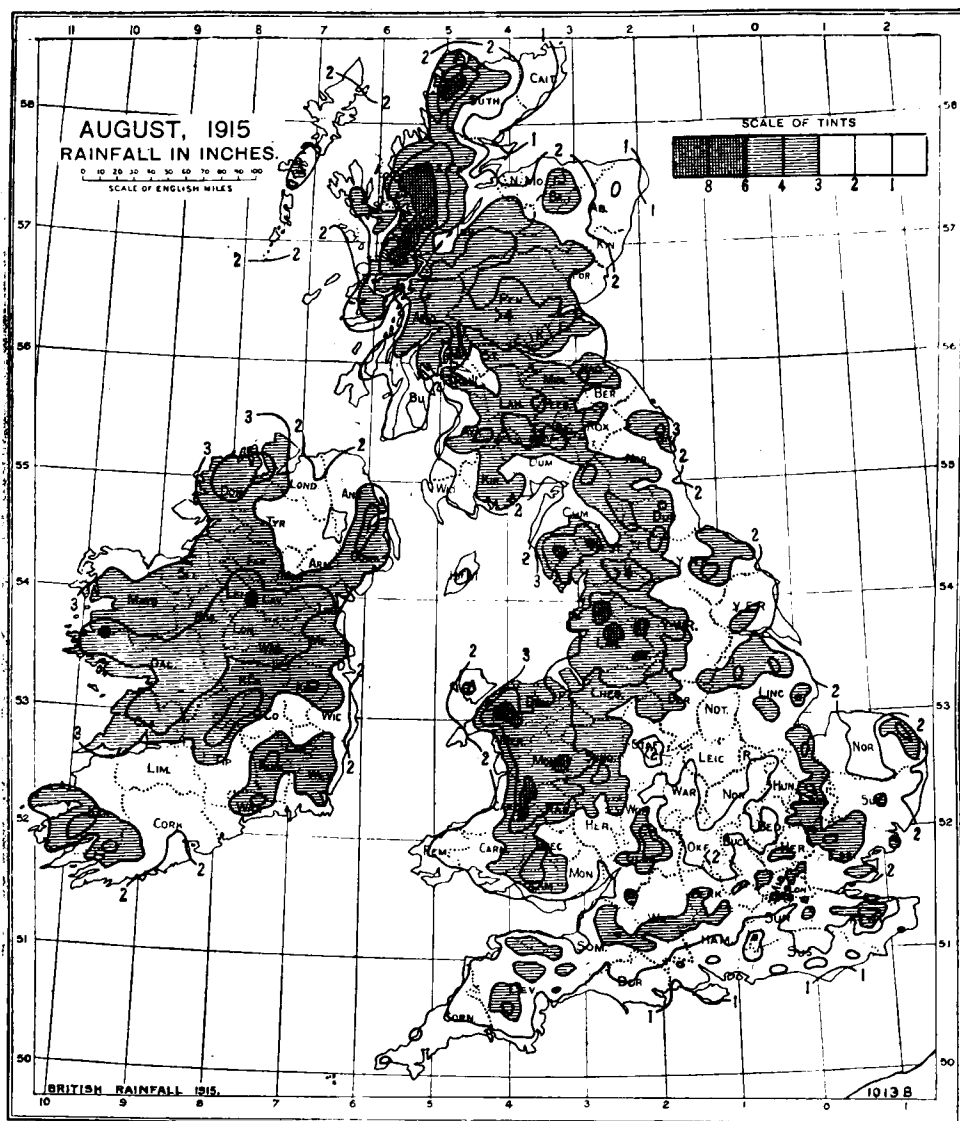
July—An abnormally large number of depressions crossed the British Isles along paths either across the north of Scotland or through England, and there were frequent thunderstorms and heavy rains more especially in the Midlands and south of Ireland and England. The rains accompanying the cyclone of the 16th were very severe in Warwickshire and Leicestershire. Only narrow coastal strips in England or Ireland had less than 4 inches of rain during the month, but part of the east of Scotland was less rainy. More than 6 inches fell over extensive areas in Wales and the English Midlands, rising to 8 inches as far east as Leicestershire. As much as 6 inches fell in places in the west of Scotland, in Aberdeenshire, and in Ireland, but appreciably more than 10 inches fell only in



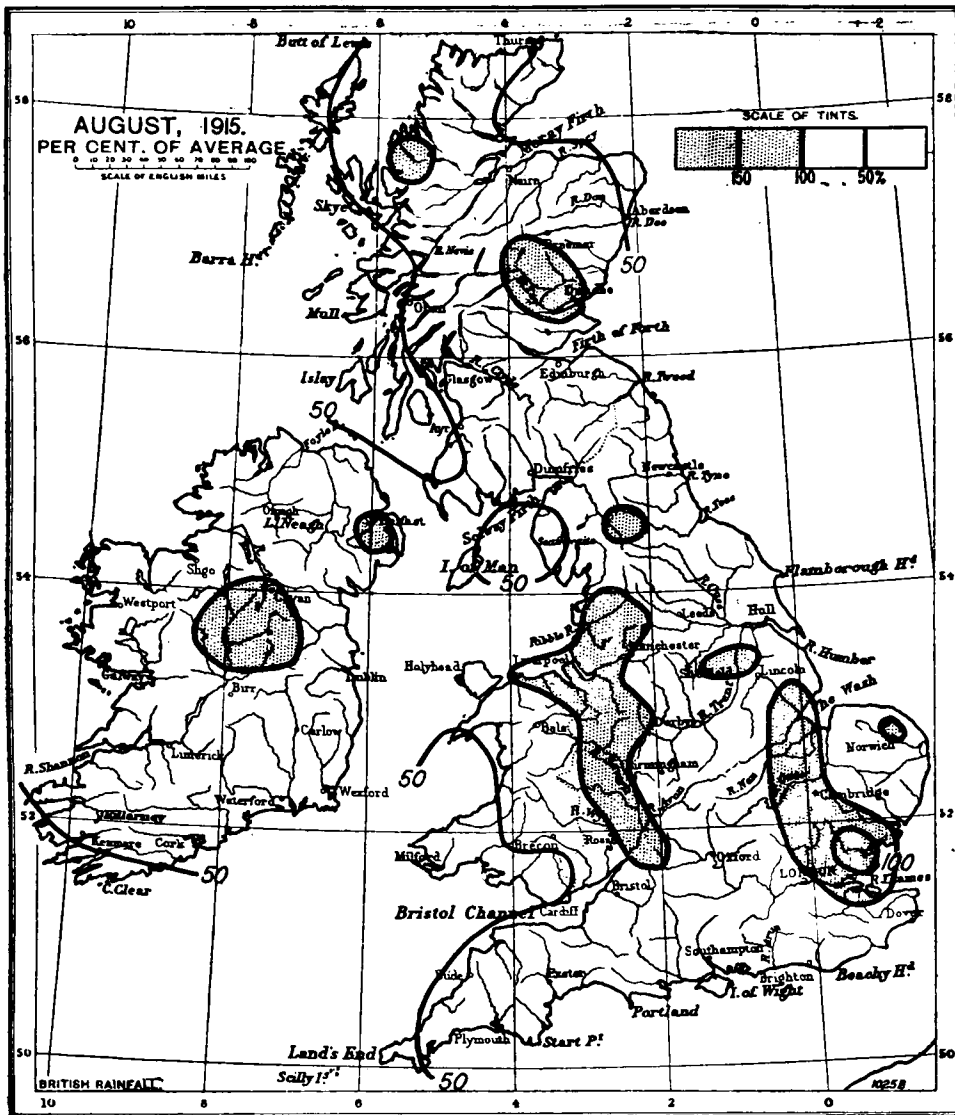
the English Lakes and the Welsh mountains.

At a few points on the coast the rainfall barely reached the average, but over most of Ireland and of the east of England more than 50 per cent. in excess fell. Two small patches in Ireland had more than twice the average. In England twice the average occurred over a broad stretch of country, from Herefordshire to the North Sea between the Wash and Flamborough Head. In a line parallel to this wet belt three areas with more than twice the average occurred in Dorset, Surrey and East Anglia.

The general fall was 64 per cent. above the average in England, 52 per cent. in Ireland, 37 per cent. in Wales, 17 per cent. in Scotland, and 44 per cent. for the British Isles as a whole.



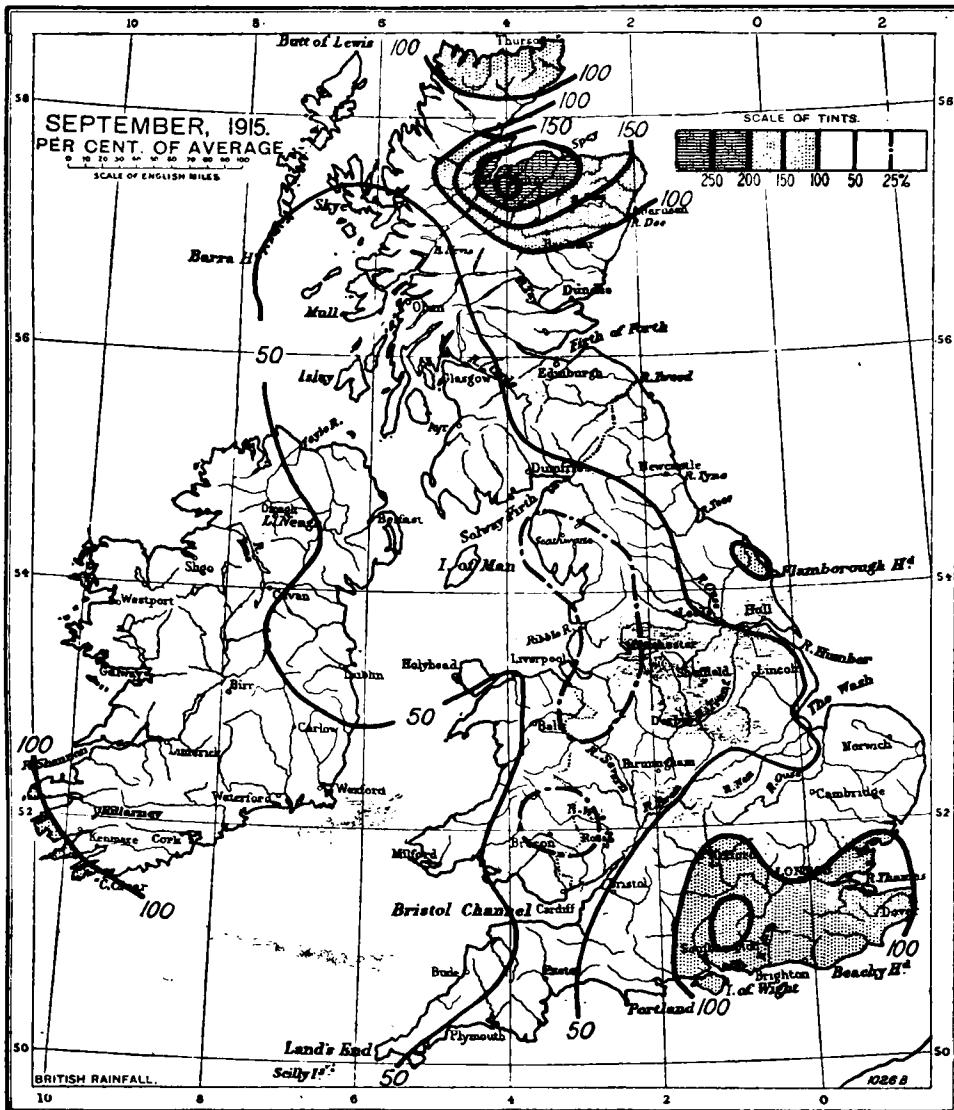
August—During the first half of August the British Isles lay in a trough of relatively low pressure between high pressure systems on the north and south, and the winds were variable, but in the second half the high pressure system was nearly continuously in the west, and northerly winds prevailed. The rainfall occurred chiefly in the form of thunderstorms, and was extraordinarily patchy in its distribution. The line of 2 inches passed almost unbroken round the coast of Great Britain, but the districts with more than 3 inches in England were scattered and not extensive except in the north-west. An unbroken area with more than 3 inches, however, stretched northward from Glamorganshire across Lancashire and the Pennines and included the interior of Scotland. In parts of



Wales, the Pennines and the north-west of Scotland more than 6 inches fell. In Ireland more than 4 inches was chiefly confined to the central counties, and less than 3 inches fell round the coast except in the west.

The total fall was most deficient on the west coast of Great Britain where less than half the average fell. More than the average fell over irregular scattered areas in England, Ireland and Scotland, the two largest stretching from Lancashire to Gloucester, and from Lincolnshire to the Thames estuary.

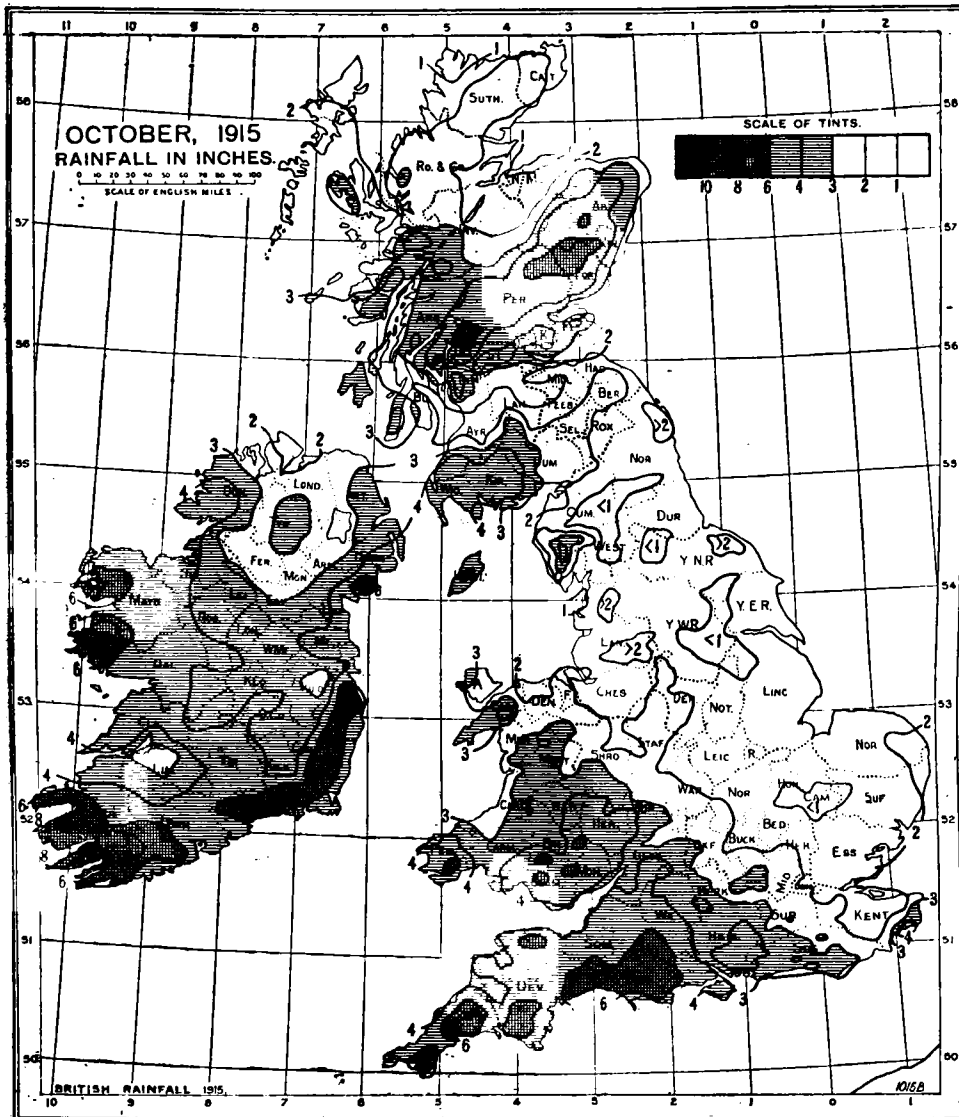
The general fall for the great divisions of the country was unusually uniform, there being a deficiency of 18 per cent. in England, 20 per cent. in Ireland, 30 per cent. in Scotland, 39 per cent. in Wales and 24 per cent. in the British Isles as a whole.



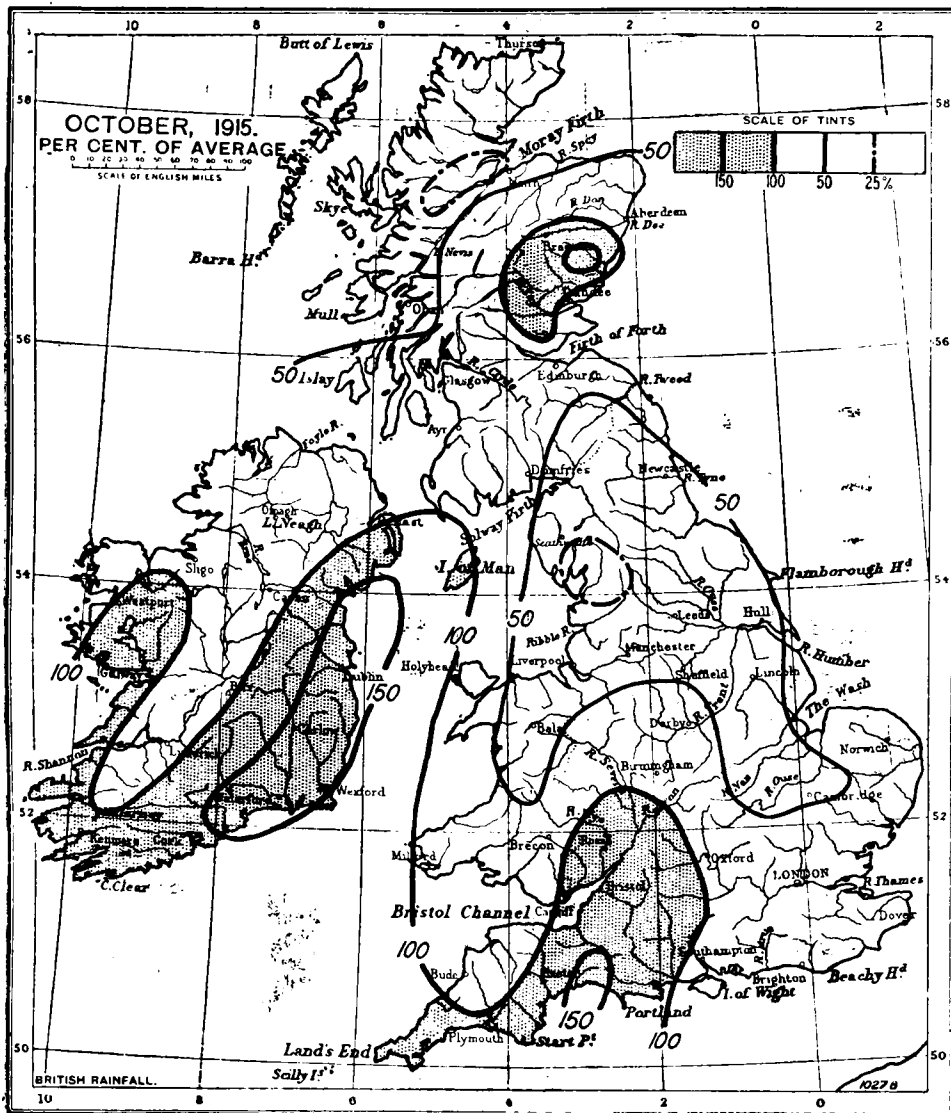
counties of Scotland. In the latter district more than 6 inches fell over several large areas and more than 8 inches over part of Nairnshire.

Less than half the average fell in the west of Great Britain and east of Ireland from Cornwall to Skye. Near the centre of this strip less than a quarter of the average fell over most of the Welsh borders and northward to Cumberland. More than the average fell in the south-east of England and the north-east of Scotland, with more than twice, and probably nearly three times the average round the Moray Firth.

The general rainfall was in Wales 62 per cent. below the average ; in England the deficiency was 42 per cent., in Ireland 40 per cent., in Scotland 35 per cent., and for the British Isles as a whole 42 per cent.



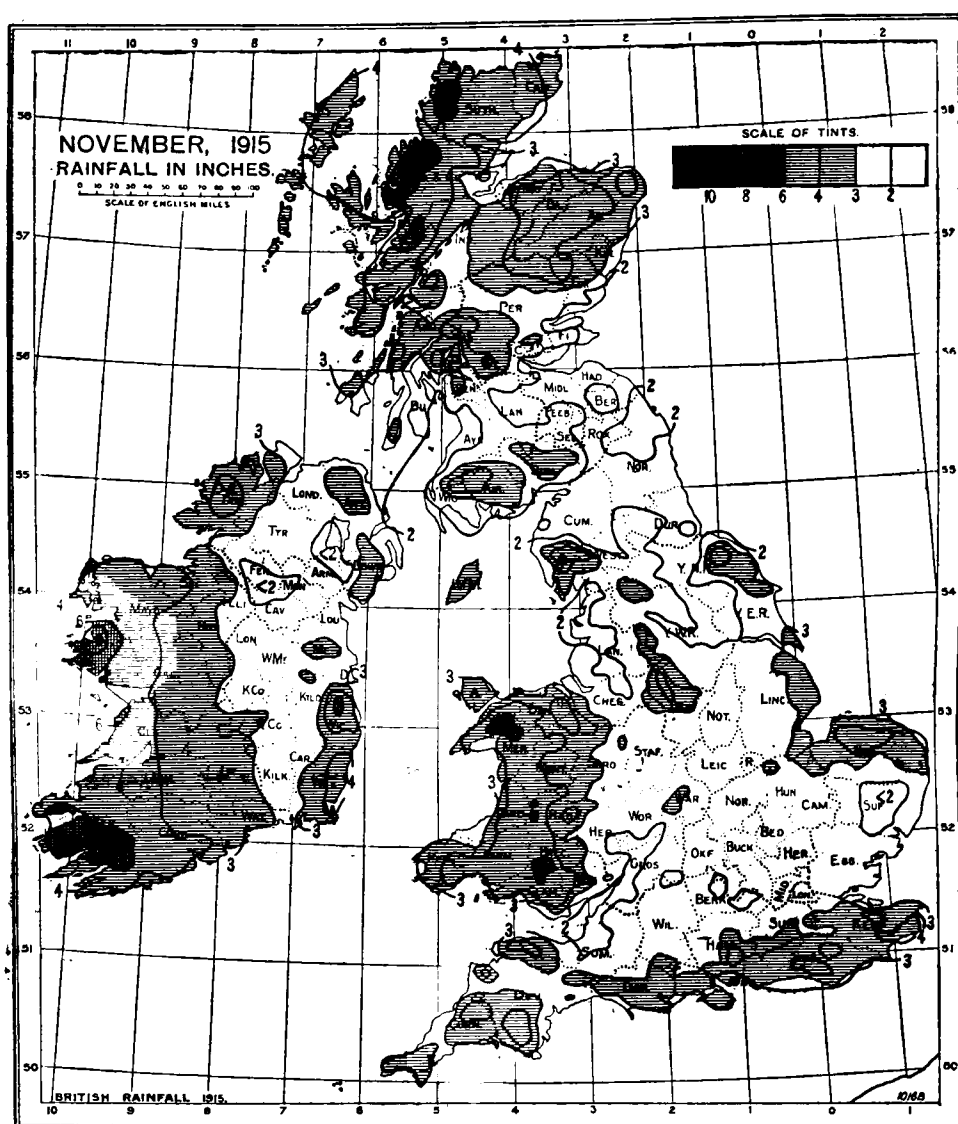
October—High pressure systems lay over Scandinavia with relatively low pressure in the west, bringing a preponderance of south-easterly winds and for the most part comparatively little rain, except in the west where depressions during the last week were accompanied by heavy falls in Ireland and the south-west of England and Wales. Exceptionally heavy local rain also occurred in the east of Scotland on the 28th. Less than 3 inches of rain fell during the month in England and Wales north-east of a line drawn from Hastings to Anglesey, and in some places the fall was less than 1 inch. Less than 3 inches fell also in the north, and part of the south of Scotland and in the north of Ireland. Areas with more than 6 inches occurred in the south-west of England and



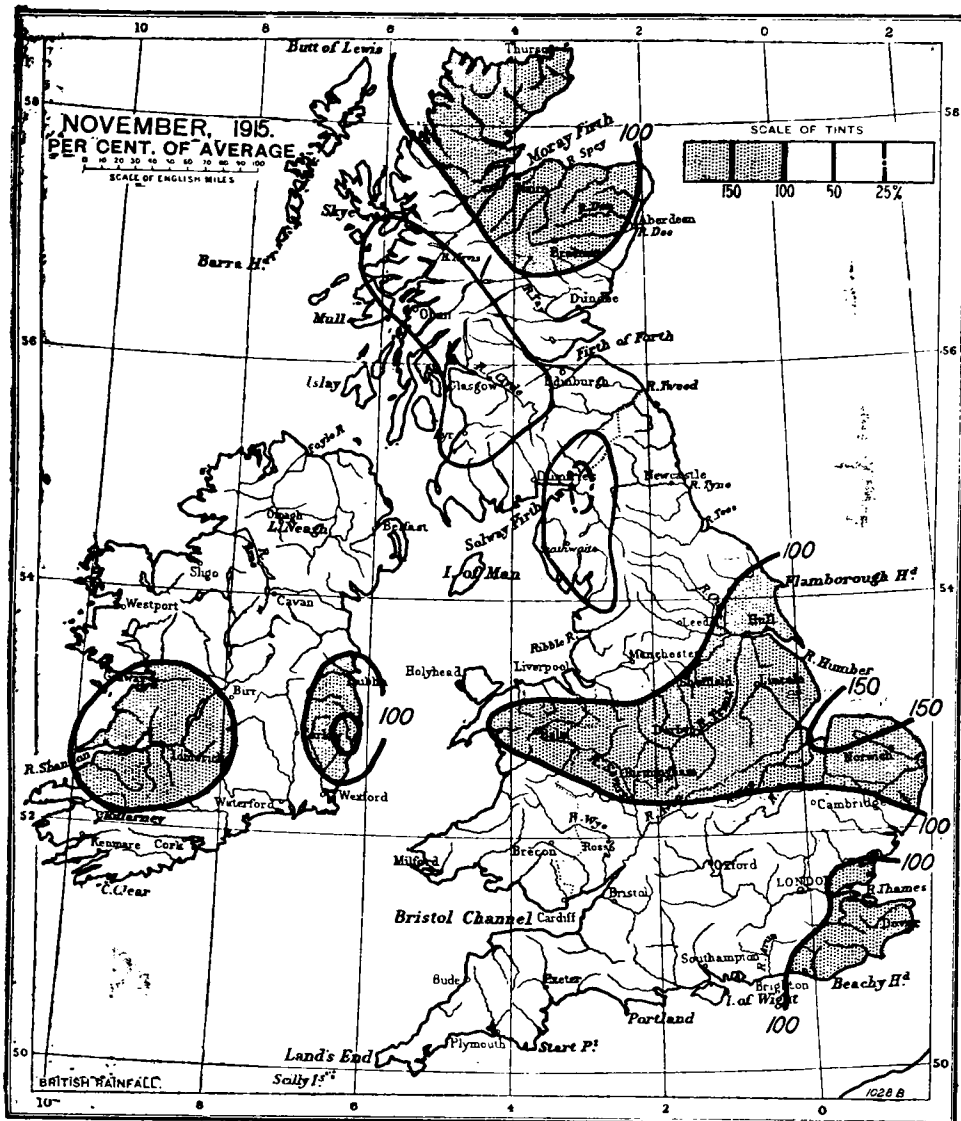
Wales, the south and west of Ireland and the centre of Scotland, and it is probable that 10 inches fell in parts of Co. Kerry.

The rainfall exceeded the average in the south and east of Ireland, in part of the south-west of England, and in the east midland counties of Scotland. It reached 50 per cent. above the average in the centre of each of these areas. Less than half the average fell in the north of England and Wales and the north-west of Scotland, and less than a quarter of the average round Morecambe Bay and the Moray Firth.

The general fall exceeded the average by 9 per cent. in Ireland, but was deficient by 15 per cent. in Wales, 18 per cent. in England, 32 per cent. in Scotland, and for the whole country 20 per cent.



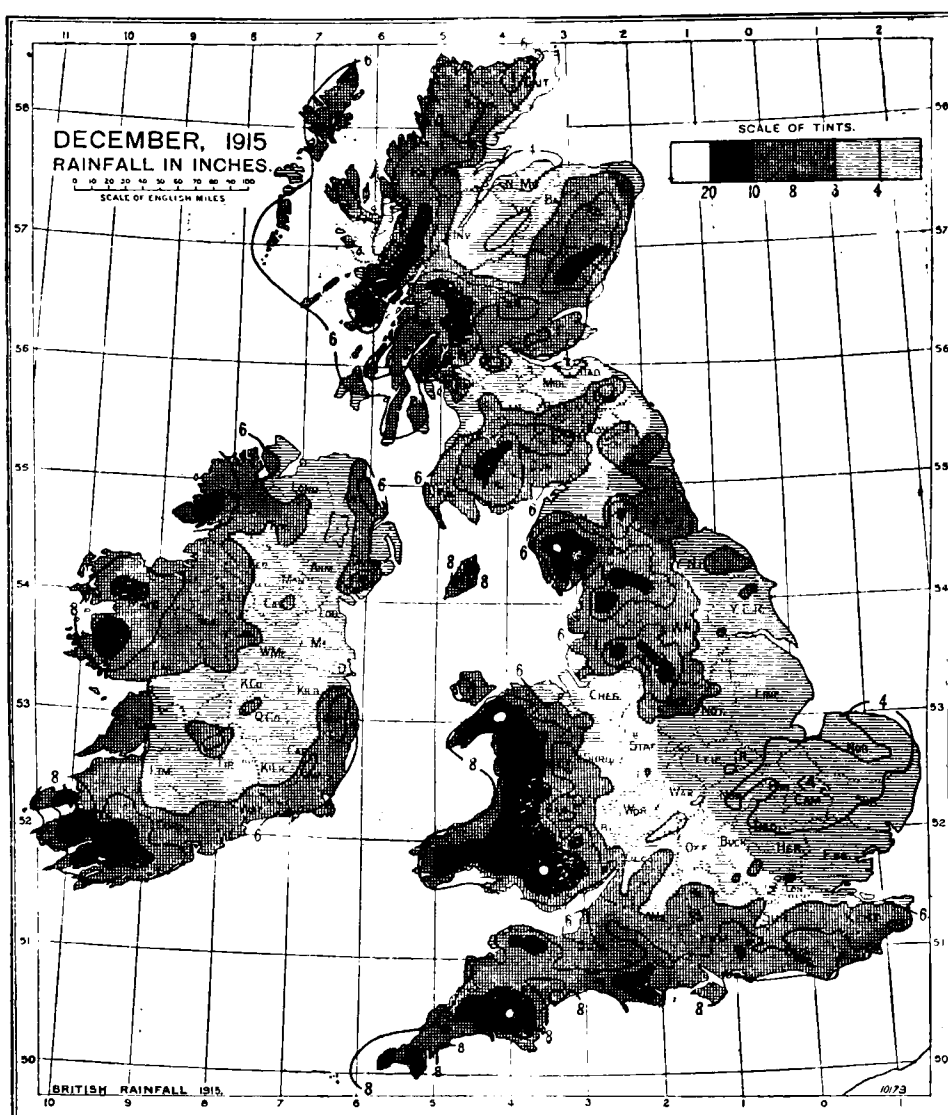
November—Much rain fell in the north of Scotland on the 9th and again in Ireland and the greater part of England on the 11th and 12th. The weather of the latter half of the month was, however, anticyclonic and mostly calm and dry. Less than 3 inches of rain fell during the month over the greater part of England, but patches with more than this amount occurred along the south and east coasts and part of the Pennines, though more than 4 inches was rare. This amount, however, fell in the interior of Wales. In Scotland, broadly speaking, less than 3 inches fell in the south and more than 4 inches in the north. Over a nearly continuous belt stretching from Girvan to the Firth of Forth less than 2 inches fell. In the West Highlands the areas with as much as 6 inches were



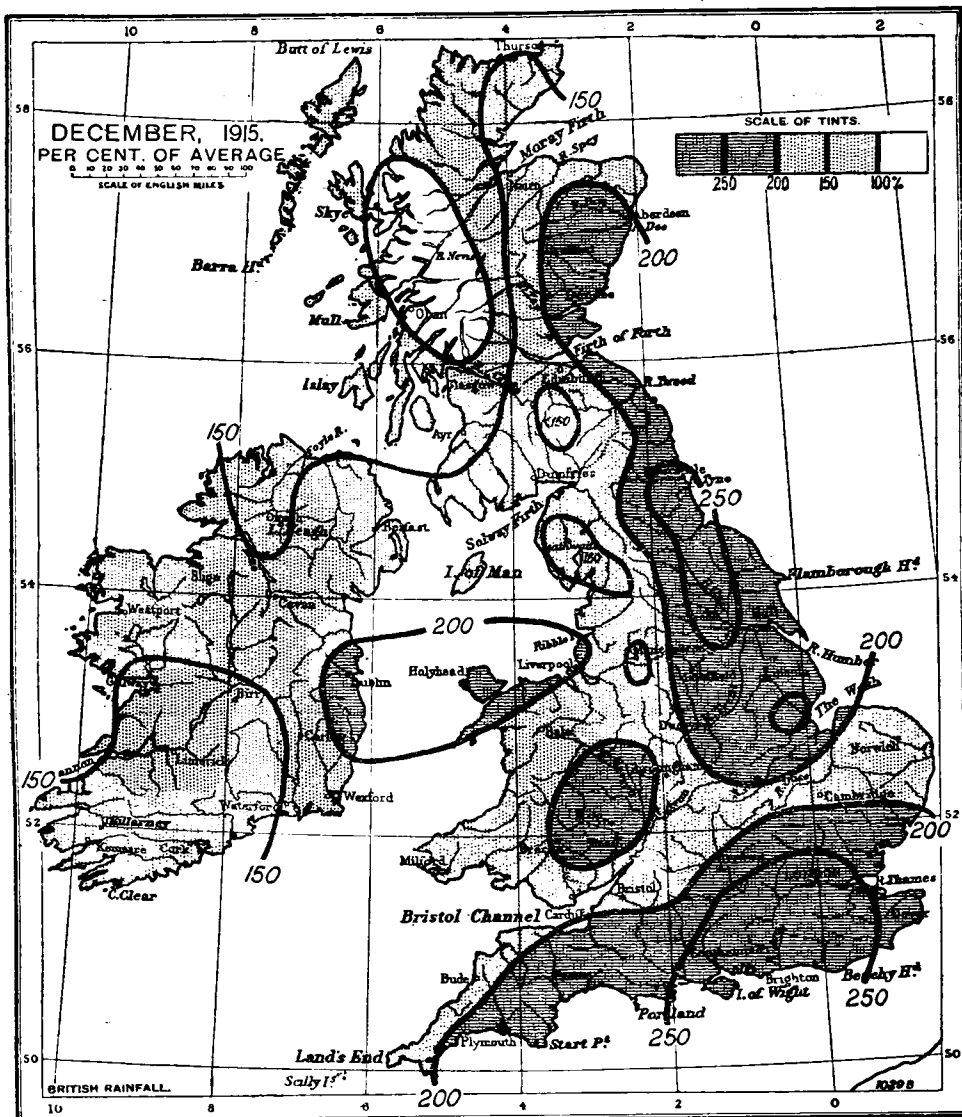
extremely small for the season. In Ireland the distribution was nearly normal, more than 3 inches falling over the western half and in the south-east, and rather more than 6 inches on the west coast mountains.

The areas with more than the average chiefly lay in an interrupted belt stretching from Co. Clare to Norfolk; the north-east and south-east of Great Britain also had more than the average. Less than half the average again fell in the west of Scotland and the north-west of England where this was the fourth successive month with so large a deficiency.

Over the British Isles as a whole the fall was 20 per cent. below the average, Scotland having 32 per cent., England 18 per cent., Wales 15 per cent., and Ireland 9 per cent., below the average, respectively.



December—Exceptionally numerous cyclonic depressions traversed the British Isles and the weather was persistently stormy and rainy. The total rainfall was abnormally large everywhere except in the west of Scotland where, however, the average fall for the month is very great. Part of East Anglia had rather less than 4 inches, but more than 6 inches fell everywhere in the south and over Wales and the Pennines. Falls of more than 8 inches occurred as far east as Dover, and of more than 10 inches eastward to Sussex. This amount also fell in all the mountainous districts, rising to 20 inches in one or two spots. Only a small part of Scotland had less than 5 inches, and the 10-inch areas were large and extended eastward to Kincardineshire. The west and south of Ireland had more



than 6 inches, and large areas in the west more than 10 inches.

In part of the west Highlands rather less than the average fell, but over the east of Scotland, the centre of Ireland, and practically the whole of England and Wales there was an excess of more than 50 per cent. More than double the average fell round the middle of the Irish Sea, in the Severn Valley and along the east and south of Great Britain. The areas of greatest excess were part of Yorkshire and of the south-east of England, from Dorset to London and Dungeness, where more than $2\frac{1}{2}$ times the average fell.

The general fall exceeded the average by 105 per cent. in England, 92 per cent. in Wales, 57 per cent. in Ireland, and 29 per cent. in Scotland, and was 67 per cent. in excess for the British Isles as a whole.

TABLE I.—*Monthly Rainfall in 1915: the Average, 1875–1909, being taken as 100.*

Div.	Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
I.	St. Pancras, Camden Square ..	225	206	51	65	213	30	160	95	93	76	99	265	128
II.	Tenterden, View Tower	150	232	42	77	221	35	155	64	151	50	109	251	125
"	Edenbridge, Falconhurst	149	212	27	76	242	40	198	72	107	78	94	261	127
"	Arundel, Patching	195	208	47	92	241	21	175	93	123	96	97	289	139
"	Fawley, Cadland	152	241	41	61	188	91	178	64	145	87	97	287	136
III.	Basingstoke, Sherborne St. John ..	175	234	38	59	214	32	204	94	157	95	75	268	137
"	Royston, Therfield	213	185	96	55	98	44	145	108	65	52	81	207	109
"	Oxford, Magdalen College	160	190	83	47	181	66	162	54	135	82	92	214	120
"	Wellington, Swanspool	132	134	68	37	90	82	146	86	61	41	100	202	98
IV.	March	189	187	92	28	101	105	163	145	40	46	143	206	119
"	Shoeburyness	147	135	74	74	203	45	140	167	131	90	146	247	133
"	Ipswich, Orwell Park	156	211	87	73	126	31	161	97	86	60	79	221	113
"	Bury St. Edmunds, Westley	159	171	101	57	83	52	131	85	59	41	91	165	97
"	Geldeston	221	208	110	61	117	107	233	74	61	79	115	166	126
"	Holkham Hall	194	183	99	44	96	28	133	53	69	61	165	207	107
V.	Bishops Cannings	201	245	76	64	160	72	166	78	70	125	70	197	125
"	Evershot, Melbury House	118	275	28	69	117	50	205	61	54	148	74	229	123
"	Ashburton, Druid House	94	268	27	47	152	64	126	65	42	121	71	238	117
"	Barnstaple	139	214	39	71	88	49	135	72	56	76	80	185	103
"	Falmouth Observatory	145	251	30	69	185	129	170	56	48	116	70	196	124
"	Altarnon	120	238	28	63	80	110	144	71	59	80	71	182	108
"	Litton, Sherborne Reservoir	162	256	46	66	165	32	156	80	64	113	65	214	119
VI.	Stroud, Upfield	128	216	64	63	115	39	119	122	67	121	69	175	109
"	Church Stretton, Wolstaston ..	202	232	32	81	130	41	215	101	34	83	103	218	122
"	Wolverhampton, Wrottesley ..	155	186	46	67	104	47	277	74	40	69	110	203	114
"	Walvern, Church Street	144	193	58	56	157	44	229	138	30	132	88	216	126
"	Ryton-on-Dunsmore	126	190	59	54	114	56	249	69	53	69	100	187	111
VII.	Market Overton	137	184	89	51	109	108	229	86	49	34	128	234	119
"	Revesby	179	164	94	37	79	22	212	104	24	53	130	220	110
"	Lincoln, Skellingthorpe Hall ..	153	181	58	53	98	179	205	94	30	38	109	243	119
"	Mickleover Manor	141	154	60	42	84	140	249	96	40	68	121	205	120
VIII.	Middlewich, Bostock Hall	177	159	91	69	78	64	139	110	15	50	91	180	101
"	Chatburn, Middlewood	162	146	66	87	64	37	80	118	25	42	54	153	88
"	Southport, Hesketh Park	156	171	60	124	62	73	123	96	31	36	68	208	98
IX.	Sheffield, Redmires Reservoir ..	143	178	53	53	66	57	161	82	32	47	101	229	102
"	Arncliffe Vicarage	155	206	29	92	43	23	121	72	20	21	63	147	86
"	Goldsborough Hall	185	186	63	74	73	29	176	62	53	39	75	283	105

MONTHLY RAINFALL.

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TABLE I.—*Monthly Rainfall in 1915: the Average, 1875-1909, being taken as 100—(continued).*

Div.	Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
IX.	Hull, Pearson Park	167	192	74	35	74	13	240	75	66	31	107	216	105
"	Scarborough, Osgodby	174	163	62	41	82	17	287	98	104	49	103	210	116
"	Darlington, Cleveland Parade ..	125	158	59	41	93	11	131	93	48	34	84	275	95
"	Newcastle, Town Moor	112	160	110	30	99	24	96	70	85	42	67	264	94
"	Rothbury, Cragside	98	194	72	35	74	24	155	67	79	53	74	202	94
"	Carlisle, Spital Cemetery	130	178	87	100	95	48	115	82	37	37	21	162	88
"	Borrowdale, Seathwaite	125	186	50	142	16	27	131	37	18	26	44	139	80
"	Appleby, Castle Bank	99	226	50	112	63	18	134	105	35	39	51	191	95
XI.	Abergavenny, Larchfield	109	265	29	44	150	60	170	56	23	127	79	249	117
"	Ystalyfera, Wern School	124	225	42	94	90	45	181	45	28	65	75	180	102
"	Cardiff, Ely	112	178	50	72	102	150	114	37	30	97	75	182	96
"	Haverfordwest	92	257	29	70	98	150	114	42	79	89	68	183	105
"	Aberystwyth, Gogerddan	172	204	63	116	111	58	82	52	53	50	86	177	100
"	Birmingham W.W., Tyrmynydd ..	139	216	37	60	141	60	142	89	20	50	87	180	105
"	Wrexham, Pack Saddle Res. ..	152	195	49	67	110	36	140	88	18	49	136	179	101
"	Llandudno	142	169	35	129	109	78	162	103	52	49	91	230	111
"	Holyhead	127	183	32	89	99	48	96	60	34	94	88	210	100
"	Douglas	101	173	67	109	74	35	119	51	32	117	95	172	99
XII.	Auchencairn, Torr House	112	227	58	131	51	39	121	69	38	80	66	183	98
"	Drumlanrig Castle	94	254	61	125	52	65	148	91	43	71	57	162	103
"	Hawick, Branxholme	60	194	84	69	71	94	108	97	74	35	48	153	91
XIII.	North Esk Reservoir	84	140	90	94	54	69	145	74	71	56	48	107	86
"	Marchmont House	95	137	81	25	66	64	138	95	94	69	83	238	99
XIV.	Airdrie, Hillend Reservoir	77	137	68	108	71	99	120	89	55	75	42	152	89
"	Girvan, Pinmore	137	219	68	135	49	33	104	37	40	64	36	131	89
"	Loch Thom	87	227	93	128	35	59	112	61	34	65	49	112	88
XV.	Lochgilphhead, Pottaloch	135	174	115	191	38	70	113	50	48	66	77	151	101
"	Inveraray, Newtown	105	167	89	176	30	58	145	51	34	47	43	62	81
"	Islay, Eallabus	103	138	82	177	52	68	108	29	43	65	58	108	83
"	Mull, Quinish	147	127	96	158	27	30	101	39	27	41	48	119	99
XVI.	Loch Leven Sluices	57	189	57	81	60	92	105	97	52	111	62	199	99
"	Balquhiddier, Stronvar	71	188	51	116	45	43	77	66	54	58	44	84	75
"	Blair Atholl	128	243	73	112	52	134	106	115	75	123	101	168	121
"	Dundee, Eastern Necropolis	97	235	69	44	47	83	121	110	51	94	61	228	105
XVII.	Fettercairn, The Burn	127	252	65	38	46	30	173	78	54	159	99	233	117
"	Braemar	119	309	63	93	35	102	117	84	130	103	114	213	123
"	Aberdeen, Cranford House	145	175	82	54	37	74	188	48	115	90	98	204	112

TABLE I.—*Monthly Rainfall in 1915: the Average, 1875-1909, being taken as 100—(continued).*

Div.	Station.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
XVII.	Gordon Castle	124	150	147	129	60	33	134	96	223	56	112	189	123
XVIII.	Glenquoich	99	115	82	221	31	44	87	75	38	29	52	90	78
"	Drumadrochit	78	98	86	182	56	21	104	69	141	53	129	142	96
"	Inverness, High School	93	81	119	219	63	31	105	81	221	9	105	138	102
"	Port William, Atholl Bank	111	106	83	209	27	40	85	52	35	46	33	65	72
"	Loch Torridon, Bendauph	115	111	83	170	31	19	112	104	62	37	77	92	86
"	Stornoway	148	140	107	151	47	49	97	56	78	93	93	117	95
XIX.	Dunrobin Castle	113	132	109	153	49	22	152	38	86	48	133	173	103
"	Wick	94	113	92	123	25	48	94	32	132	34	128	142	89
XX.	Glanmire, Lota Lodge	61	193	23	43	109	72	202	62	66	147	93	127	101
"	Killarney, District Asylum	91	200	24	85	73	67	123	72	68	91	94	131	97
"	Valencia, Glanleam	121	206	41	61	69	93	148	49	100	129	77	132	105
"	Waterford, Brook Lodge	61	169	52	63	121	76	149	63	57	179	76	159	105
"	Nenagh, Castle Lough	136	172	29	87	53	62	184	85	61	94	131	140	106
"	Ennistymon House	161	176	43	102	33	58	167	76	51	101	108	146	105
XXI.	Carrigaholt Castle	165	208	39	99	54	110	196	77	67	120	140	167	123
"	Gorey, Courtown House	75	189	43	36	114	57	160	81	58	155	153	208	116
"	Abbey Leix, Blandsfort	116	183	41	67	38	92	160	74	73	111	83	134	99
"	Dublin, Fitz William Square	98	170	56	70	77	81	222	77	44	167	139	215	121
"	Mullingar, Belvedere	170	191	34	101	48	102	172	134	39	112	73	172	115
XXII.	Greenore	104	143	35	86	63	44	122	82	40	154	71	148	92
"	Tuam, Gardenfield	129	172	28	120	54	64	165	85	71	105	89	153	104
"	Crossmolina, Enniscoe	127	158	38	120	62	68	152	64	81	101	80	168	104
"	Cong, The Glebe	132	161	33	107	47	49	133	99	75	110	93	152	103
XXIII.	Markree Observatory	147	185	32	148	53	91	163	75	58	93	92	170	109
"	Belturbet, Cloverhill	125	173	28	103	23	116	121	97	67	55	57	152	94
"	Armagh Observatory	111	167	37	103	36	67	123	81	54	79	60	183	92
"	Seaforde	76	211	44	85	96	51	129	98	42	124	78	193	103
"	Belfast, Queen's University	131	207	37	97	52	68	155	108	34	99	93	197	108
"	Ballymena, Harryville	118	183	47	131	36	85	145	62	30	86	93	156	98
"	Limavady, Drenagh	95	150	55	122	30	98	101	72	25	42	78	153	84
"	Omagh, Edenfel	130	159	53	120	34	98	160	77	54	82	76	148	99
"	Convoy	139	153	51	143	60	64	133	90	70	72	78	142	100
England (Mean of 45 Stations)		147	203	57	69	109	54	164	82	58	67	82	205	109
Wales (" 9)		128	214	41	80	113	64	137	61	38	73	85	192	104
Scotland (" 28)		105	164	83	137	45	55	117	70	65	61	68	129	92
Ireland (" 24)		117	179	39	95	59	76	152	80	60	109	91	157	103
British Isles (" 107)		124	185	60	96	79	60	144	76	58	75	80	167	102

MONTHLY RAINFALL AT 300 STATIONS IN THE BRITISH ISLES DURING 1915.

ENGLAND.

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
I.	London	St. Pancras (Camden Sq.)	4.12	3.42	.86	1.13	3.72	.69	4.10	2.27	1.86	2.06	2.31	5.64	32.18
II.	Surrey	Warlingham (Redvers Rd.)	5.00	6.00	.73	1.83	3.17	.96	4.53	2.75	2.31	2.75	3.66	7.65	41.34
"	"	Haslemere (Hazelhurst) ...	5.23	7.02	.83	1.44	4.02	1.76	4.66	2.11	2.50	4.63	3.59	8.85	46.64
"	"	Woking (The Grange).....	4.59	4.25	1.01	1.33	3.19	1.11	3.83	2.00	2.31	2.62	2.21	5.14	33.59
"	Kent	Tenterden (View Tower)...	3.22	4.41	.81	1.37	3.65	.71	3.43	1.56	3.39	1.74	3.35	6.94	34.58
"	"	Folkestone (Cherry Gardens)	3.84	3.08	1.08	1.79	2.95	1.22	4.30	1.61	3.81	4.15	4.32	8.00	40.15
"	"	St. Peter's Court	2.81	2.40	.98	1.28	2.93	.40	2.33	1.10	3.98	2.66	3.08	5.16	29.11
"	"	Ospringe (Lorenden) ...	2.99	4.98	.91	1.43	4.18	1.33	2.42	1.91	3.54	1.66	4.20	6.37	35.92
"	"	Tonbridge(The Manor Ho.)	3.19	4.14	.71	1.23	3.95	.35	3.45	2.34	2.70	2.03	2.96	6.23	33.28
"	"	Arundel (Patching)	5.05	4.50	.91	1.68	4.34	.45	4.31	2.35	3.18	3.83	3.42	8.42	42.44
"	Sussex	Balcombe (The Gables) ...	4.50	5.46	.96	1.97	3.95	.67	4.86	2.50	2.15	3.51	3.38	9.45	43.36
"	"	Eastbourne (Glenthorne)...	4.87	4.24	.87	1.97	3.66	.90	2.16	.87	1.81	3.61	3.80	8.08	36.84
"	"	Totland Bay (Aston House)	3.53	4.53	.79	1.21	3.14	.67	3.51	.88	3.75	3.85	2.60	8.88	37.34
"	Hampshire	West Dean Rectory.....	4.10	5.67	1.13	1.25	3.18	1.33	4.89	1.56	2.67	4.26	2.43	6.77	39.24
"	"	Bps. Waltham(Swanmore Ho.)	5.51	7.56	1.21	1.54	3.89	1.49	5.12	1.95	4.72	4.12	3.97	10.21	51.29
"	"	Basingstoke(SherborneS.J.)	4.05	5.23	.90	1.13	4.09	.73	4.93	2.39	3.51	3.28	2.23	7.47	39.94
III.	Hertfordshire	St. Albans(County Museum)	3.92	4.39	1.28	1.08	2.42	1.43	4.34	2.89	2.48	2.42	2.26	5.78	34.69
"	"	Royston (Therfield Rec.)...	3.51	2.99	1.61	.92	1.98	1.05	3.98	2.95	1.29	1.43	1.90	4.17	27.78
"	Buckinghamshire	Slough (Upton).....	3.49	3.54	.98	1.02	3.59	1.14	4.45	2.16	2.29	2.64	2.05	5.20	32.55
"	"	Hampden House	3.08	4.89	1.35	1.19	2.44	.37	3.76	2.73	2.20	2.96	2.24	5.79	33.00
"	"	Buckingham (Adstock Fields)	2.31	2.91	1.34	.34	1.90	.21	5.79	2.66	1.82	1.74	2.48	4.45	27.95
"	Oxfordshire	Oxford (Magdalen College)	2.84	3.08	1.20	.78	3.27	1.49	3.93	1.31	2.68	2.31	2.08	4.41	29.38
"	"	Goring (Elmcroft)	3.43	3.94	1.09	.78	3.45	.97	4.41	2.82	2.63	2.65	2.10	4.71	32.98
"	"	Wellingboro' (Swanspool)...	2.51	2.28	1.17	.66	1.78	1.76	3.72	2.03	1.29	1.06	2.21	4.30	24.77
"	Huntingdonshire	Huntingdon(BosworthHo.)	2.47	2.02	1.18	.76	1.53	1.57	3.66	2.66	1.07	.88	2.39	3.75	23.99
"	Bedfordshire	Shillington	2.67	2.85	1.51	.98	2.10	.38	4.33	1.92	1.43	1.24	2.07	3.78	25.26
"	Cambridgeshire	Ely (The Palace)	2.69	2.17	1.35	.52	1.63	1.24	4.26	2.61	1.25	1.19	2.61	3.32	24.89
"	"	Wisbech (Monica Road) ...	2.75	2.28	1.08	.38	1.41	1.00	3.90	1.89	.92	1.61	4.42	4.67	26.31
IV.	Essex	Grays Sewage Works	2.89	2.80	.67	1.13	2.73	.62	2.70	2.03	1.82	1.79	2.59	4.38	26.15
"	"	Epping (The Hemnalls) ...	3.48	4.05	1.10	1.21	1.50	.62	5.73	4.71	2.07	3.13	1.71	5.13	34.44

ENGLAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
IV.	Essex	Bradwell-on-Sea (Bradwell Hall)	2·88	2·51	·90	·81	2·23	·54	2·02	2·65	1·84	1·82	2·47	4·69	25·36
"	"	Shalford (Littles)	2·87	2·85	1·33	·64	2·10	·52	3·68	2·92	1·87	1·71	2·50	4·61	27·60
"	Suffolk	Hawkedon Rectory	2·82	2·69	1·71	1·04	1·87	1·52	4·17	4·12	1·79	1·27	2·58	4·06	29·64
"	"	Ipswich (Woolverstone Pk.)	2·49	2·90	1·27	1·17	2·44	·83	4·32	2·27	1·93	1·68	2·03	4·72	28·01
"	"	Aldborough (Aldringham Ho.)	3·37	3·29	1·27	1·30	2·44	·86	4·72	1·30	3·69	1·91	2·28	5·15	32·08
"	"	Bacton	2·93	2·87	1·17	·83	2·55	·72	3·80	2·25	1·22	1·17	1·83	3·75	25·09
"	Norfolk	Geldeston [Beccles]	3·38	2·94	1·73	·95	2·08	1·90	5·53	1·65	1·29	2·23	2·87	3·43	29·98
"	"	Aylsham (Millgate)	4·46	2·92	2·46	·90	1·89	·67	3·98	2·73	1·44	1·93	3·86	4·15	31·39
"	"	Sandringham House	3·07	2·73	1·67	·73	1·75	·77	4·99	2·56	1·02	1·36	3·99	4·07	28·71
"	"	Watton	3·17	3·26	1·42	·86	1·89	·83	3·72	1·92	1·36	1·40	2·87	3·97	26·67
V.	Wiltshire	Calne (High Street)	4·99	5·86	1·57	1·18	3·57	1·59	3·78	2·60	1·30	3·58	1·48	5·00	36·50
"	"	Mere (Charnage)	4·62	6·03	1·37	1·43	3·41	·80	5·19	3·07	1·94	5·93	2·08	7·37	43·24
"	"	Salisbury Plain (Shrewton)	4·73	5·78	1·14	1·14	4·03	·65	4·11	3·76	1·77	4·54	2·22	6·38	40·25
"	"	Marlborough (Mildenhall)	5·57	6·12	1·55	1·22	3·63	·55	3·77	2·13	1·86	3·52	2·53	6·95	39·40
"	Dorsetshire	Wareham (Binnegar Hall)	3·39	6·37	·91	1·24	2·44	·73	4·01	1·35	1·92	6·18	3·69	10·50	42·73
"	"	Beaminstor (Hamilton Lodge)	4·50	7·14	·91	1·59	2·38	1·27	4·43	1·29	1·73	6·58	3·18	9·35	44·35
"	"	Wimborne (Codford House)	3·14	6·28	·80	1·42	2·72	·53	4·50	1·21	2·31	6·59	3·35	8·88	41·73
"	South Devonshire	Kingsbridge (Collapit Creek)	3·45	6·62	1·11	1·44	3·31	1·97	4·34	1·74	1·59	5·20	2·87	8·54	42·18
"	"	Princetown (H.M. Prison)	8·46	16·77	2·50	2·86	4·26	3·62	8·25	4·15	2·24	6·89	6·04	21·29	87·33
"	"	Teignmouth (Den Gardens)	2·77	6·50	·65	·86	2·82	2·07	4·02	1·80	1·54	5·34	2·74	9·04	40·15
"	"	Cullompton	4·72	5·91	·87	1·25	2·01	2·00	4·61	2·53	·97	4·77	2·50	8·06	40·20
"	"	Chumleigh (Leigh House)	4·69	5·13	·77	1·29	2·23	1·44	3·80	3·77	1·48	4·20	2·73	8·39	39·92
"	North	Barnstaple (N. Devon Athenaeum)	4·46	5·98	·95	1·57	1·91	1·08	3·85	2·35	1·76	3·59	3·16	7·73	38·39
"	"	Okehampton (Oaklands)	6·18	8·78	·87	1·97	2·72	1·86	5·11	3·22	1·52	4·04	3·37	10·48	50·12
"	Cornwall	Redruth (Trewirgie)	4·66	9·27	·76	2·12	2·99	3·30	4·30	2·01	2·38	5·92	3·04	10·03	50·78
"	"	Bude (The School House)	4·04	5·38	·84	1·44	2·16	1·54	3·02	2·10	1·86	3·76	2·37	7·23	35·74
"	"	Penzance (Morrab Garden)	5·25	7·51	·80	1·95	2·88	2·81	3·84	1·92	1·28	5·17	3·14	9·89	46·44
"	"	St. Austell (Trevarna)	5·75	8·47	1·13	2·12	3·42	3·51	5·25	1·59	1·88	7·92	3·76	10·07	54·87
"	"	Altarnon Sanctuary	7·20	11·76	1·24	2·35	2·50	3·40	5·73	3·38	2·60	5·57	4·31	13·49	63·53
"	"	Street (Hind Hayes)	3·25	4·27	·90	·97	2·64	1·10	4·14	2·25	1·50	4·31	1·98	6·01	33·32
"	Somersetshire	Burnham (Chalbury)	2·80	3·45	1·18	1·15	1·94	1·93	3·45	2·35	1·21	4·03	1·58	5·58	30·65
"	"	Winsford School	7·21	8·50	1·41	2·11	2·64	1·82	5·92	3·59	1·92	6·53	4·53	13·88	60·06
"	"	Stroud (Upfield)	2·98	4·57	1·29	1·32	2·42	·96	3·26	3·53	1·61	3·88	1·91	4·73	32·46
VI.	Gloucestershire	Mickleton (Bank House)	2·52	3·06	·73	·92	3·10	·96	3·55	1·52	·54	2·62	2·31	3·51	25·34
"	"	Clifton (Pembroke Road)	3·73	4·40	1·37	1·42	3·07	·94	6·18	2·31	1·64	4·75	1·98	7·18	38·97
"	"	Lechlade (Claydon House)	3·55	3·28	1·24	1·09	3·24	1·35	4·45	2·72	1·77	3·82	1·82	4·90	33·23

ENGLAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
VI.	Herefordshire	1 Ross (The Graig)	3.05	4.15	.71	.74	3.36	.62	4.50	2.45	.86	4.62	1.63	5.29	31.98
	"	Ludlow (Ashford House)...	3.55	4.70	.66	1.41	2.88	1.09	5.58	3.09	1.16	4.10	3.02	6.55	37.79
	Shropshire	3 Bishop's Castle Vicarage...	4.68	6.29	.60	1.58	2.74	1.15	5.29	3.69	.67	3.53	2.82	6.91	39.95
	"	3 Much Wenlock (Willey Pk.)	3.13	3.50	.81	1.29	2.61	.78	6.33	3.03	1.12	2.35	2.63	5.05	32.63
	"	4 Oswestry (The Mount Res.)	3.96	5.22	1.06	1.49	2.86	1.00	4.14	3.46	.56	2.98	3.52	6.50	36.75
	Staffordshire	2 Market Drayton (Old Springs)	3.20	2.05	1.18	1.28	2.28	1.64	6.30	4.02	.55	2.09	2.94	4.84	32.37
	"	3 Shugborough.....	3.42	2.75	1.10	1.01	1.89	.69	6.07	1.80	.50	2.34	2.82	5.05	29.44
	"	4 Burton (Shobnall)	2.93	2.09	1.00	.86	1.65	.85	7.86	2.09	.76	1.74	2.28	4.55	28.66
	"	5 Mayfield Ho. [Ashbourne]	4.18	3.61	1.23	1.01	1.46	3.06	5.56	2.73	.41	2.59	2.62	6.13	34.59
	Worcestershire	2 Worcester (Belmont Road)	2.23	3.21	.57	1.05	2.70	1.30	5.74	2.92	.76	3.65	2.18	4.27	30.58
VII.	"	2 Dudley (Borough Cemetery)	2.84	3.44	.94	1.10	2.35	1.19	7.36	2.34	.47	2.12	2.17	4.67	30.99
	Warwickshire	1 Wormleighton Hall.....	2.67	3.31	.96	1.02	2.40	.86	3.87	2.50	1.65	2.18	2.32	4.02	27.76
	"	1 Bedworth Cemetery.....	2.73	3.38	.75	1.03	2.02	.65	6.44	1.81	.85	1.69	2.34	4.89	28.58
	Leicestershire	2 Market Harboro' (Rose Hill)	2.18	2.92	1.05	.88	1.45	1.63	4.12	2.69	1.21	1.57	2.33	4.30	26.33
	"	4 Loughboro' (Nan Panton Res.)	2.66	3.47	.95	.88	1.80	1.73	8.23	2.22	1.06	1.55	3.11	4.20	31.86
	"	4 Belvoir Castle	2.88	2.90	1.01	.91	1.75	1.36	5.57	3.22	1.20	1.05	2.59	4.77	29.21
	Lincolnshire	2 Stamford (St. George's Sq.)	1.81	2.34	.98	.61	2.39	2.07	3.92	1.88	.61	1.25	2.86	4.16	24.88
	"	3 Boston (Black Sluice, Skirbeck)	2.55	2.15	1.25	.48	1.59	.88	4.98	2.56	1.24	1.48	2.86	4.90	26.92
	"	3 Sleaford (Rauceby Hall)...	2.81	2.76	1.13	.64	1.50	.62	4.67	3.39	.97	1.13	2.53	5.37	27.52
	"	3 Willingham-by-Stow	2.30	2.51	1.18	.73	1.86	.90	5.56	3.52	.70	1.04	1.98	4.46	26.74
VIII.	"	4 Skegness	2.76	2.29	1.20	.40	1.22	.90	6.22	2.47	.76	1.14	3.00	4.61	26.97
	"	4 Louth (Westgate).....	3.36	4.29	1.54	.48	1.54	.87	4.07	2.32	.96	1.34	3.42	4.78	28.97
	"	6 Burton-upon-Stather Vic...	2.63	2.50	1.11	.61	.96	.58	4.88	2.83	.98	1.18	2.28	5.02	25.56
	Nottinghamshire	5 Mansfield (West Bank) ...	2.49	3.81	.75	.99	1.59	.73	4.87	2.36	.91	1.53	3.03	5.89	28.95
	Derbyshire	6 Buxton (Devonshire Hospital)	8.47	5.85	2.89	2.12	1.62	4.92	6.95	4.14	.88	2.35	2.96	8.96	52.11
	Cheshire	1 Rostherne Vicarage	4.57	2.87	1.48	1.29	1.61	2.37	4.41	4.42	.60	1.54	1.73	5.56	32.45
	"	2 Sandbach (Malkins Bank)	3.17	2.11	1.18	.93	1.21	1.46	3.87	2.40	.63	1.07	1.79	3.79	23.61
	"	4 Aldford	2.24	2.72	.42	1.24	2.52	.66	5.52	3.79	.47	2.96	3.04	5.72	31.30
	South Lancashire	1 Liverpool (Huyton Vic.)...	3.98	2.45	1.38	1.59	1.48	1.27	4.12	5.88	.66	2.26	2.65	5.55	33.27
	"	3 Bolton (Smithill's Hall) ...	6.60	4.73	2.45	2.43	1.84	2.17	5.05	5.98	1.03	2.27	2.19	9.87	46.61
IX.	Central	1 Burnley (Swinden)	6.89	7.14	2.28	2.40	1.76	.85	5.14	4.75	.97	1.70	2.81	8.06	44.75
	"	1 Stonyhurst College	7.43	4.85	3.09	3.82	1.85	1.03	4.38	5.82	.78	1.18	2.08	7.53	43.84
	"	3 Southport (Hesketh Park)	3.98	3.55	1.26	2.28	1.31	1.64	3.59	3.57	.96	1.33	2.14	6.44	32.05
	"	2 Greenodd (Summer Hill)...	7.25	7.25	3.11	2.75	1.50	1.24	6.08	4.05	1.05	2.44	3.64	10.86	51.22
	"	4 Lancaster (Strathspey) ...	5.35	5.12	1.88	2.60	1.23	.87	3.55	4.06	.76	1.09	1.94	6.95	35.40
	Yorkshire, W.R., ...	2 Settle (Giggleswick School)	5.72	6.80	1.58	2.12	1.22	1.04	3.78	2.94	.94	1.41	2.38	8.47	38.40

ENGLAND—continued.

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
IX.	Yorkshire, W.R. ...	Doncaster (Wadworth Hall)	2.46	2.57	.96	.87	1.53	.75	5.13	2.57	.75	1.06	2.45	5.93	27.03
"	"	Sheffield (Weston Park) ...	3.58	4.19	1.07	1.24	1.48	1.56	4.26	2.22	.66	1.63	3.20	7.81	32.90
"	"	Meltham (Harewood Lodge)	7.93	7.29	1.26	2.08	2.11	1.15	4.05	4.79	.61	1.85	3.03	9.63	45.78
"	"	Garforth (Manor Farm) ...	2.79	2.89	1.21	1.05	1.29	.66	3.53	2.06	.70	1.07	1.82	6.15	25.22
"	"	Ilkley (St. James' Road) ..	5.09	5.11	1.12	1.55	1.67	1.11	4.52	3.79	.88	1.50	2.16	6.71	35.21
"	"	York (Mount Villas)	3.32	3.03	1.07	1.06	1.54	.98	3.94	2.08	2.61	.94	1.76	6.10	28.43
"	E.R. ...	Birdsall Gardens	3.96	4.56	1.59	1.23	1.24	.22	5.11	2.31	1.37	1.20	2.59	5.80	31.18
"	"	Pattingham	2.72	3.03	1.45	.34	1.23	.34	5.70	1.32	1.52	1.49	3.11	4.96	27.21
"	"	Market Weighton (Dalton Holme)	3.17	3.30	1.02	.75	1.53	.35	6.17	2.47	1.17	1.42	2.12	5.26	28.73
"	"	Bridlington	3.24	3.23	1.30	.83	1.46	.34	5.96	2.46	1.30	1.11	3.36	5.13	29.72
"	"	Leyburn (Bolton Hall) ...	4.39	6.39	1.20	.94	1.62	.43	3.86	3.14	.50	.77	2.46	7.63	33.33
"	N.R. ...	Thirsk (Mount St. John)...	3.48	2.82	1.39	1.13	1.28	.27	4.05	2.94	.80	1.00	2.18	4.71	26.05
"	"	Whitby (Mulgrave Castle)	3.48	3.46	1.65	1.20	2.38	.35	5.58	2.85	2.59	1.60	2.42	6.61	31.17
"	"	Middlesbrough (Ormesby)	2.52	2.41	1.87	1.05	1.86	.48	4.72	3.47	1.23	2.11	2.24	4.37	28.33
"	"	Barnard Castle (County School)	2.33	3.50	.76	.62	1.65	.93	2.83	3.23	1.43	.90	1.82	6.18	26.18
N.	Durham	Wearhead Station	4.57	7.39	1.79	2.11	1.66	.81	4.24	3.49	1.20	1.09	3.75	8.82	41.22
"	"	Ushaw (St. Cuthbert's College)	2.24	2.93	2.29	.82	2.38	.38	3.48	4.36	1.41	1.73	1.75	7.94	31.71
"	Northumberland ...	Haltwhistle (Bellister Castle)	3.46	3.60	2.38	2.27	2.25	1.42	3.13	2.82	1.43	.63	1.60	5.37	30.36
"	"	Corbridge (Howden Dene)	1.94	2.25	1.90	.60	2.10	.71	2.80	2.91	1.69	.81	1.60	5.49	24.80
"	"	Bellingham (High Green Manor)	2.36	4.18	2.07	1.55	2.83	.91	3.52	3.17	1.70	1.56	1.47	5.73	31.05
"	"	Morpeth (Bothalhaugh) ...	2.33	2.68	2.27	.73	1.82	.54	3.53	3.35	1.82	1.84	1.56	5.55	28.02
"	"	Rothbury (Cragside)	2.50	4.56	2.06	.83	1.86	.52	4.31	2.19	2.00	2.19	2.50	6.68	32.20
"	"	Ilderton (Lilburn Cottage)	2.21	3.85	1.83	.59	1.45	.92	5.15	2.77	1.94	1.91	2.41	5.15	30.18
"	Cumberland	Penrith (Benson House) ...	3.87	5.44	1.53	1.88	1.53	.55	2.89	3.05	1.14	.55	1.23	5.99	29.65
"	"	Wigton (Brookfield)	2.81	4.14	1.91	2.24	1.58	.94	3.46	2.08	.83	1.64	1.03	4.85	27.56
"	"	Borrowdale (Seathwaite)...	16.79	20.40	5.28	9.79	1.18	1.86	11.69	4.25	2.08	3.26	5.91	21.01	103.50
"	"	Whitehaven (Irish Street)...	4.36	7.87	2.15	3.52	1.24	1.46	5.98	2.73	1.84	2.27	2.39	7.19	42.80
"	Westmorland	Kirkby Stephen (Redman Ho.)	4.21	8.48	1.29	2.15	1.70	.30	4.31	3.48	1.20	.54	1.95	6.87	36.48
"	"	Kendal (Crosthwaite Vic.)	6.21	8.46	2.20	2.89	1.25	2.00	6.16	3.35	1.65	1.45	3.16	9.48	48.26
England. Mean of 131 stations			3.89	4.60	1.31	1.37	2.31	1.15	4.60	2.73	1.57	2.57	2.66	6.55	35.31

MONMOUTH, WALES AND THE ISLANDS.

XI.	Monmouth.....	3	Abergavenny (The Chain).	3.70	8.05	.70	1.20	4.21	1.34	6.24	2.00	.58	5.69	2.99	10.03	46.73
"	"	4	Chepstow (Piercefield Pk.)	2.98	4.90	1.16	1.34	2.97	.61	4.37	1.70	1.07	4.00	2.68	8.38	26.16

MONMOUTH, WALES AND THE ISLANDS—(continued.)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XI.	Glamorgan	Swansea (The Knoll)	5.78	7.06	1.40	2.16	2.73	2.21	6.27	3.15	1.45	4.47	4.05	9.20	49.93
"	"	Treherbert (Tyn-y-waun)...	8.68	15.89	3.13	3.75	4.68	3.58	11.28	5.92	2.39	6.30	5.74	19.74	91.08
"	"	Cardiff (Penylan)	3.87	5.00	1.38	1.31	4.77	1.23	5.08	2.27	1.27	5.12	2.55	9.04	40.89
"	Cardarthen	Cardarthen (The Friary)..	4.72	8.41	1.35	2.08	1.74	2.38	7.14	2.52	1.79	3.11	4.26	10.11	46.61
"	"	Llanwrda (Dolaucothy) ...	6.28	9.44	1.58	3.06	3.28	2.71	7.04	3.79	1.56	3.26	4.90	12.18	59.08
"	Pembroke	St. David's	3.48	7.10	.67	1.29	2.16	3.92	3.68	1.73	2.69	3.94	3.32	7.77	41.75
"	"	Tenby (Glendower)	4.04	6.72	1.13	1.89	2.55	2.59	3.74	1.91	1.47	5.75	4.40	10.10	46.29
"	Cardigan	Aberystwyth(NorthParade)	4.49	4.76	1.55	1.87	2.62	1.29	2.82	1.62	1.44	2.45	3.02	6.21	34.14
"	"	Birmingham W.W. (Claerddu)..	10.70	9.30	3.20	5.15	3.20	2.35	6.40	7.15	2.20	3.70	6.50	14.15	74.00
"	Brecon	Brecon (New Inn)	4.87	8.43	1.10	2.05	1.92	2.68	7.17	3.12	1.45	2.44	6.93	9.62	51.78
"	"	Hay (Waunderwen).....	2.67	5.98	1.38	.87	3.73	.80	2.16	2.68	.59	5.44	2.85	7.13	36.28
"	Radnor	Llandrindod Wells (Kimberley)	3.88	5.37	.91	1.57	2.98	2.13	7.41	3.53	.96	3.31	3.32	7.23	42.60
"	Montgomery	Llandinam (Plas Dinam)...	4.77	6.30	1.00	1.73	2.49	.77	3.02	3.49	.72	2.56	2.83	8.44	38.12
"	"	Lake Vyrnwy (Bank Cynon Isaf)	7.82	8.30	1.43	2.40	3.07	.83	4.40	3.99	1.52	3.48	3.91	12.90	54.10
"	Flint	Mostyn Vicarage	4.51	3.55	1.60	2.06	1.87	.83	3.23	5.67	1.33	2.28	3.80	5.92	36.65
"	Denbigh	Cerrig-y-Druilion (Bwlch-y-Bendy)...	7.07	7.56	.89	2.56	2.60	1.35	4.90	3.54	1.55	2.46	2.93	9.61	47.02
"	Merioneth	Blaenau Ffestiniog (Oakley Qrs.)	14.74	11.39	5.98	6.20	3.91	3.10	11.14	8.58	3.70	2.36	6.14	18.08	95.32
"	"	Dolgelly (Bryntirion)	8.09	8.31	3.79	4.47	2.77	1.84	5.28	3.30	2.24	2.36	4.61	13.96	61.11
"	Carnarvon	Llandudno	3.57	3.56	.74	2.31	2.02	1.53	4.09	3.26	1.29	1.84	2.91	6.54	33.66
"	"	Abersoch	5.39	5.63	1.98	2.82	2.50	1.60	2.45	1.30	1.99	3.86	3.98	10.35	43.85
"	Anglesey	Llanerchymedd (Llwydiarth Esgob)	4.17	4.27	.93	2.10	2.40	.78	3.05	2.62	1.81	2.77	3.97	7.89	36.76
Wales. Mean of 23 stations			5.66	7.19	1.70	2.44	2.83	1.85	5.19	3.43	1.61	3.61	4.03	10.20	49.74
XI.	Isle of Man	Douglas (Borough Cemetery)	3.63	5.30	1.91	2.66	1.83	.89	3.81	2.00	1.15	5.50	4.24	8.11	41.03

SCOTLAND.

XII.	Wigtown	Stoneykirk (Ardwell Ho.)	2.68	5.60	2.31	2.80	1.45	.96	3.79	1.45	.53	4.77	1.51	7.08	34.93
"	"	Garliestown (Galloway House)	3.49	4.44	1.76	1.85	1.40	.90	3.30	.93	.59	2.84	1.86	6.61	29.97
"	Kirkcudbright	Dalry (Glendarroch)	4.70	11.66	1.98	4.02	1.46	1.13	4.92	3.15	1.35	5.06	3.34	10.31	53.08
"	"	Dalbeattie (Little Richorn)	3.25	7.65	1.63	2.92	1.63	.85	4.98	3.03	1.27	5.18	3.23	8.90	44.52
"	Dumfries	Moffat (Auchen Castle) ...	3.82	7.38	2.57	2.91	1.42	1.74	4.83	4.91	1.50	2.98	3.03	7.83	44.92
"	"	Langholm(Ewes, Burnfoot)	3.12	9.27	2.06	2.90	1.75	2.70	5.05	3.52	1.40	2.03	3.37	7.27	44.44
"	Roxburgh	Hawick (Wolfelee)	1.86	6.30	2.78	1.73	2.31	1.10	3.94	2.59	2.39	1.22	1.67	5.68	33.57
XIII.	Selkirk	Selkirk (The Hangingshaw)	2.27	4.06	2.71	1.11	1.74	.95	3.12	2.80	1.79	2.22	1.50	7.57	31.84
"	Peebles	Stobo (Dawcyk Gardens)..	2.96	6.16	1.44	1.77	1.55	1.80	3.60	2.73	2.41	1.70	1.89	6.12	34.13
"	Berwick	Marchmont House	2.28	2.94	2.13	.56	1.67	1.52	4.57	3.35	2.50	2.64	2.66	6.75	33.57

SCOTLAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XIII.	Haddington	Garvald (Donolly Reservoir)	1·85	3·83	2·58	1·01	1·49	1·98	4·35	2·94	3·10	2·20	2·30	3·75	31·38
"	Midlothian	West Calder (Addiewell)	2·35	3·20	1·69	2·58	1·79	1·54	4·19	3·01	2·16	2·04	1·80	4·57	30·92
"	"	Edinburgh (Blackford Hill)	1·22	1·94	1·14	1·28	1·34	1·58	2·72	5·67	2·73	2·00	·99	4·34	26·95
XIV.	Lanark	Leadhills	6·24	12·87	5·37	4·65	1·69	2·12	7·73	5·86	1·65	3·58	3·38	9·73	64·87
"	"	Strathaven (E. Overton Ho.)	2·96	5·06	1·98	3·02	1·42	1·21	4·51	2·98	1·21	1·82	1·56	5·55	33·28
"	Ayr	Dalry (Blair)	4·81	4·95	3·06	3·11	1·31	3·04	3·76	2·84	1·34	3·54	2·89	7·41	42·06
"	"	Maybole (Culzean Gardens)	3·36	5·47	1·34	2·32	·92	2·31	2·67	1·93	·73	3·50	1·80	4·52	28·93
"	"	Barrhill (Dochroyle)	3·70	6·85	1·62	2·80	1·20	·98	3·20	1·55	·70	3·50	1·70	6·39	34·19
"	"	New Cumnock (Ayr Sanatorium)	5·52	12·30	2·42	4·40	1·18	1·40	5·36	3·43	1·51	3·09	2·59	7·94	51·14
XV.	Renfrew	Glasgow (Queen's Park)	2·31	4·49	1·03	2·37	1·40	1·85	3·62	1·86	1·12	2·23	1·55	4·87	28·70
"	Dumbarton	Cardross (Kilmahew)	3·55	7·62	2·57	3·03	1·50	1·86	3·27	2·25	1·97	3·41	2·46	5·27	38·76
"	Stirling	Falkirk (Westbank)	2·02	4·15	1·84	2·05	1·50	1·99	3·53	4·03	1·92	3·28	1·82	5·21	33·34
"	"	Buchlyvie (The Manse)	2·72	5·89	2·26	3·88	1·61	1·98	4·75	3·62	2·13	2·93	2·93	4·70	39·40
"	Bute	Rothsay (Crichton Road)	5·47	7·56	3·33	4·34	1·30	3·53	5·00	3·11	1·73	3·96	2·92	6·39	48·64
"	Argyll	Morvern (Kingairloch)	11·92	7·85	6·44	7·13	1·04	1·78	4·75	2·91	1·81	5·09	5·03	11·53	74·38
"	"	Glenleven (Kinlochleven)	10·56	9·23	6·44	7·13	1·04	1·78	4·75	2·91	1·81	5·09	5·03	11·53	74·38
"	"	Taynuilt (Barguilean)	7·72	9·54	4·66	6·38	·95	1·99	5·91	3·29	2·37	3·01	4·29	10·31	65·42
"	"	Loch Awe (Ford)	8·28	8·34	6·77	6·19	1·03	2·32	5·56	3·72	3·84	2·91	4·21	7·97	56·76
"	"	Muasdale (Killeen Manse)	4·75	6·63	2·90	2·96	1·03	2·49	3·25	1·79	·84	3·19	2·23	6·34	38·40
"	"	Campbeltown (Witchburn)	4·11	5·92	2·35	2·66	1·89	1·82	3·02	2·69	·88	4·56	3·56	7·22	40·68
"	"	Ardishaig (Canal Office)	8·14	6·87	5·38	5·41	1·16	2·40	4·91	3·35	1·40	2·79	3·98	9·12	54·91
"	"	Lochgailhead (Nuthill)	6·87	11·70	5·10	6·11	1·20	1·97	5·56	3·34	2·50	5·36	3·82	9·88	63·41
"	"	Islay (Ardbeg)	5·27	3·23	3·76	3·30	1·37	1·95	4·17	1·79	1·15	1·87	2·85	5·66	36·37
"	"	Jura (Ardfin)	4·77	5·40	3·21	4·53	1·82	2·77	3·95	2·01	1·46	3·32	2·62	8·11	43·97
"	"	Iona	5·73	4·29	3·78	3·64	·64	·98	3·35	1·80	1·01	3·07	3·22	6·31	37·82
"	"	Mull (Quinish)	8·16	5·67	4·11	4·71	·82	·99	4·16	1·95	1·40	2·38	3·00	7·85	45·20
"	"	Tiree (Cornaigmore)	5·43	4·69	3·39	3·54	·67	1·32	2·75	1·18	1·63	2·97	3·80	6·55	37·92
XVI.	Fife	Colinsburgh (Balcarres)	1·77	3·64	1·68	·96	1·06	1·86	3·49	3·14	1·77	3·14	1·99	6·99	31·49
"	"	Cupar (Kinross Asylum)	1·84	5·66	1·54	1·24	1·58	1·42	3·54	4·26	2·08	4·18	2·04	6·48	35·86
"	Perth	Balquhidder (Stronvar)	6·19	11·89	3·07	4·83	1·85	1·76	3·35	4·13	3·15	4·23	3·43	7·44	55·32
"	"	Glendevon (Tormaukin)	4·30	8·98	2·47	3·81	1·70	2·33	2·85	5·24	2·27	4·23	2·88	8·34	52·56
"	"	Crieff (Strathearn Hydro.)	2·65	7·32	1·59	1·69	1·69	2·08	2·35	4·29	1·83	4·17	2·33	6·45	38·99
"	"	Aberfeldy (Dall Avon)	3·69	8·76	1·75	2·39	1·38	2·67	1·76	3·84	1·68	4·41	2·40	7·90	42·63
"	"	Glenlyon (Meggernie Castle)	6·34	10·91	3·20	5·22	1·70	1·54	3·95	3·21	2·07	4·65	2·58	8·75	54·12
"	"	Coupar Angus	2·04	6·62	1·49	1·04	·99	1·27	3·40	3·89	1·77	4·41	2·07	6·06	35·05
"	Forfar	Arbroath (Muirheads Res.)	2·38	4·19	1·41	·51	1·07	·93	2·72	2·47	1·27	3·11	·97	6·62	27·65
"	"	Glen Prosen (Pearsie)	3·48	6·49	1·86	1·42	1·26	1·02	4·41	4·08	1·51	5·14	2·93	7·88	41·48

SCOTLAND—(continued.)

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XVII.	Kincardine	Fettercairn (The Burn) ...	3.89	6.37	1.75	.92	1.06	.67	5.21	2.76	1.53	5.66	3.44	8.20	40.78
	"	Crathes (Pinewood).....	2.95	7.73	1.57	.68	.96	.95	5.58	1.21	2.53	7.10	3.10	9.74	44.10
	"	Braemar (Derry Lodge) ...	3.94	6.00	2.08	3.16	.80	2.64	3.86	3.00	3.00	2.54	4.63	5.25	40.90
	"	Aberdeen (Cranford House) ...	3.42	4.13	2.18	1.20	.88	1.50	5.65	1.46	3.10	2.90	3.23	7.00	36.65
	"	Strathdon Estate Office ...	3.73	7.85	2.82	2.08	1.17	1.08	5.83	2.17	4.11	5.58	5.06	7.70	49.18
	"	New Deer School House...	4.11	3.60	2.81	1.86	.96	1.26	2.82	2.39	2.48	4.32	3.76	6.87	37.24
	"	Huntly (Cruchie)	2.86	3.30	2.82	1.25	1.58	1.46	6.38	2.30	5.09	3.70	4.70	6.21	41.65
	Moray	Gordon Castle	2.47	2.93	3.47	2.24	1.26	.71	4.34	3.16	5.75	1.88	4.04	5.15	37.40
	"	Grantown-on-Spey	2.94	2.53	3.26	2.68	1.39	.68	4.23	2.62	4.11	1.46	4.44	4.83	35.17
	"	Nairn	1.79	1.22	1.95	2.15	1.22	.63	5.23	1.32	5.96	.82	2.98	3.12	28.39
	Inverness	Kingussie	3.22	2.59	2.29	3.51	.78	.65	4.51	4.10	2.91	1.09	3.31	3.08	32.04
	"	Fort Augustus (S. Benedict's)	4.31	3.31	1.63	4.52	.81	.68	3.01	3.00	2.71	1.66	2.69	4.55	32.88
	"	Loch Quoich (Glenquoich)	13.52	11.23	8.01	12.09	1.77	2.29	5.92	6.14	3.47	3.03	5.97	12.22	85.66
	"	Drumadrochit	2.85	2.84	2.67	3.36	1.30	.47	3.50	2.16	4.14	1.84	4.39	5.32	34.84
	"	Arisaig House	8.85	5.37	5.77	6.25	.97	.90	5.19	4.21	2.13	2.03	5.65	6.66	53.98
	"	Fort William	10.18	7.26	5.30	7.64	1.05	1.50	4.18	3.18	2.30	3.40	2.51	6.12	54.62
	"	Skye (Kyleakin)	5.35	4.38	2.31	4.61	1.11	.84	4.12	2.46	1.86	1.79	3.11	4.44	36.38
	"	" (Dunvegan)	7.56	6.36	5.16	5.77	.98	.74	4.26	2.37	3.22	3.52	4.48	8.28	52.70
	"	Barra (Castle Bay)	3.95	3.34	2.91	2.56	1.38	1.15	2.48	2.58	2.29	2.45	3.58	7.25	35.92
XIX.	Ross and Cromarty	South Uist (Ushenish).....	6.04	3.66	4.42	4.60	.87	1.64	4.27	1.49	3.06	1.80	2.17	4.38	38.40
	"	Alness (Ardross Castle) ...	3.40	3.48	2.03	3.91	1.04	1.05	4.41	2.92	5.65	2.23	4.43	8.60	43.18
	"	Loch Torridon (Bendamp)...	10.82	8.37	6.02	8.01	1.41	.79	5.99	6.90	4.54	3.13	6.82	9.05	71.85
	"	Poolewe (Inverewe Gdns.)	6.72	5.61	6.42	6.03	1.26	1.07	3.59	5.50	4.34	1.71	5.54	4.51	52.30
	"	Glencarron Lodge	11.60	6.16	8.63	9.17	1.31	.91	4.73	6.47	4.62	2.19	4.98	7.59	68.86
	"	Stornoway.....	7.54	5.87	4.13	3.99	1.20	1.18	2.87	2.16	3.14	1.86	5.14	6.97	46.05
	Sutherland.....	Invershin	1.93	2.70	2.66	3.72	.97	.48	5.17	1.25	2.36	1.48	3.36	5.29	31.37
	"	Dunrobin Castle	3.12	3.41	2.89	3.09	1.08	.46	4.43	1.02	2.15	1.50	4.32	5.35	32.82
	"	Altnaharra	4.03	4.02	3.67	4.04	1.33	.52	3.74	3.17	5.46	2.57	4.61	7.46	44.62
	"	Tongue Manse	3.63	3.70	3.32	3.18	1.48	.87	4.38	3.08	6.06	1.27	4.15	7.32	42.44
	"	Loch More (Achfary)	9.03	5.99	7.95	8.79	2.12	.69	3.68	7.91	5.97	1.07	6.07	8.36	67.63
	Caithness	Berriedale (Langwell)	3.59	3.19	2.31	3.00	.95	.91	3.12	1.27	5.58	2.15	5.02	5.56	36.65
	"	Thurso (Buckies)	2.67	3.41	3.40	2.92	1.17	.71	3.34	1.60	6.00	2.87	4.50	9.36	41.95
	Scotland.	Mean of 79 stations	4.69	5.92	3.18	3.61	1.30	1.46	4.23	3.08	2.57	3.01	3.32	6.89	43.26

IRELAND.

Div.	County.	Station.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	Total.
XX.	Cork	Castletownshend (Seafield)	4.99	7.48	1.10	1.93	2.96	3.15	6.17	2.05	4.02	5.51	3.42	7.11	49.89
"	"	Clonakilty (Shannon Vale Ho.)	3.76	8.06	.89	1.85	2.19	2.49	7.27	2.14	3.28	5.17	3.60	7.73	48.43
"	"	Dunmanway (The Rectory)	6.73	11.10	1.48	2.68	2.91	3.55	7.37	2.71	5.10	7.90	5.76	10.30	67.59
"	"	Midleton (Ballynacurra) ...	3.01	5.98	.78	1.25	2.36	2.37	5.38	2.41	2.14	5.82	3.96	6.50	41.96
"	"	Mallow (Summer Hill) ..	3.39	7.48	.56	1.39	2.18	2.20	4.29	2.44	1.98	4.55	3.34	6.17	39.97
"	"	Mitchelstown Castle	3.94	5.55	.83	1.55	1.55	2.67	5.63	2.15	2.08	5.52	3.52	5.92	40.91
"	Kerry	Killarney (District Asylum)	5.41	9.99	1.08	2.95	2.24	1.97	4.33	3.29	2.58	5.25	5.23	9.08	53.40
"	"	Darrynane Abbey.....	6.42	8.87	1.22	2.31	3.49	2.93	7.54	3.57	5.84	9.76	5.11	6.19	63.25
"	"	Kenmare (Dromore)	9.69	8.87	1.08	2.67	2.95	1.64	6.21	2.91	3.74	8.18	6.01	8.12	62.07
"	Waterford	Lismore Castle.....	3.84	6.75	.87	.84	2.23	1.42	5.39	2.51	2.58	5.98	3.45	6.66	42.57
"	"	Waterford (Brook Lodge)..	2.29	5.38	1.38	1.68	2.81	2.11	4.68	2.36	1.81	7.15	2.88	6.89	41.42
"	Tipperary	Nenagh (Traverston)	6.46	6.37	.92	2.55	1.22	1.83	5.93	3.94	2.03	4.33	4.30	7.72	47.60
"	"	Clonmel (Bruce Villa).....	2.59	6.01	.90	1.48	1.96	1.55	4.39	2.36	1.87	4.10	3.52	5.17	35.90
"	"	Cashel (Ballinamona)	3.95	5.20	.93	1.66	1.19	2.32	5.33	2.64	2.04	4.43	3.40	4.92	38.01
"	"	Roscrea (Timoney Park)...	3.12	4.11	.64	2.11	1.05	1.74	5.31	2.54	2.24	3.97	3.23	5.25	35.31
"	Limerick	Abbeyfeale (Springmount)	5.77	6.57	1.11	3.28	.94	1.39	4.74	2.69	1.87	3.25	5.20	5.90	42.71
"	Clare	Ennistymon House	6.93	6.06	1.39	2.86	.89	1.84	5.97	3.79	2.14	4.45	4.99	7.36	48.67
"	"	Carrigaholt Castle	5.46	5.65	.98	2.20	1.14	2.72	5.37	3.05	2.26	4.23	5.14	6.63	44.83
"	"	Derravoher [Limerick] ...	4.14	3.31	.75	2.27	.98	.84	4.86	2.17	2.64	2.50	3.47	3.78	31.71
"	"	Newmarket-on-Fergus (Carrigoran)...	6.54	4.83	1.23	2.23	1.19	1.47	6.64	2.57	2.81	3.54	4.23	5.18	42.49
"	"	Scarriff (Woodpark).....	6.75	4.85	1.04	2.91	1.11	1.30	5.98	3.36	2.23	3.23	4.80	5.94	43.50
XXI.	Wexford	Wexford (Johnstown Castle)	2.46	4.83	1.64	1.68	2.47	1.63	5.55	3.08	2.13	5.56	4.08	6.03	41.14
"	"	Enniscorthy (Ballyhyland)	3.32	5.47	1.22	1.31	3.02	1.63	5.62	3.34	2.09	6.77	3.38	7.91	45.08
"	"	Gorey (Courtown House)...	2.40	5.21	.97	.86	2.56	1.48	4.63	2.68	1.62	5.81	5.22	7.13	40.57
"	Kilkenny	Kilkenny (Lavistown Ho.)	2.16	3.87	.57	1.22	1.39	1.12	5.10	3.27	1.44	3.49	2.63	4.35	30.61
"	Wicklow	Kathdrum (Avondale)	3.26	6.52	1.27	1.51	3.02	1.52	5.08	2.82	1.26	5.54	2.60	6.63	41.03
"	"	Bray (Fassaroe)	2.69	6.48	1.17	1.66	2.97	1.35	6.44	1.51	1.28	7.61	4.24	7.80	45.20
"	Queen's County	Abbey Leix (Blandsfort)...	3.65	4.66	1.06	1.71	.92	2.37	4.79	2.93	2.14	3.93	2.72	4.58	35.46
"	King's County	Ballycumber (Moorock Lodge)	4.21	3.55	.68	2.03	.57	2.46	4.79	2.76	1.63	3.29	2.18	4.37	32.32
"	Kildare	Castledermot (Millbrook)...	2.52	3.52	.54	1.56	1.06	1.44	3.74	2.87	1.11	3.33	2.42	4.25	28.36
"	"	Monasterevan (Moore Abbey)	3.11	3.82	.70	1.49	1.12	1.68	6.37	2.68	1.63	3.27	2.71	4.90	33.48
"	"	Straffan House	2.98	3.81	.84	1.64	1.12	1.42	5.56	2.76	1.14	2.67	2.93	5.00	31.87
"	Dublin	Balbriggan (Ardgillan) ...	2.00	3.09	.75	1.78	1.44	1.44	5.57	3.26	.65	4.57	2.70	4.29	31.54
"	Meath	Mullacrogan [Drogheda]	2.32	3.11	.90	1.93	1.06	1.47	5.10	3.04	.66	4.22	2.46	4.18	30.45
"	"	Athboy (Frankville).....	3.59	4.22	.90	2.33	.91	3.17	5.41	4.87	1.42	4.09	3.15	5.61	39.67

IRELAND—(continued).

Div.	County.	Station.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
XXI.	Westmeath	Mullingar (Belvedere).....	5.27	5.11	.90	2.40	1.20	2.77	5.44	5.37	1.17	3.57	2.48	5.84	41.52
	"	Castlepollard (Pakenham Hall)	3.55	4.26	.77	2.65	.73	2.64	4.86	4.77	1.75	3.54	2.69	5.10	37.31
	Louth	Greenore	2.79	3.25	.78	1.90	1.49	1.13	3.44	2.84	1.09	4.40	2.20	4.54	29.85
	Longford	Ballymahon (New Castle)	3.79	3.99	.79	2.71	.60	2.71	4.77	5.18	1.79	4.47	2.37	5.59	38.76
	Galway	Knockboy House.....	4.74	5.44	1.16	3.56	1.84	1.67	5.22	3.51	3.51	6.65	6.67	6.16	50.13
XXII.	"	Tuam (Gardenfield).....	5.10	5.44	.91	3.10	1.53	1.86	5.20	3.75	2.51	4.14	3.82	7.16	44.52
	"	Woodlawn.....	4.75	4.21	1.05	2.65	1.07	2.06	5.95	5.38	2.03	3.97	3.52	5.90	42.54
	Roscommon	Strokestown (Castlenode)	3.59	4.51	.59	2.12	.96	1.60	3.50	4.15	1.36	3.81	2.82	6.48	35.49
	Mayo	Crossmolina (Enniscoe) ...	6.78	6.62	1.64	3.76	1.96	2.17	4.96	3.01	3.72	5.34	4.62	10.25	54.83
	"	Westport (St. Helens).....	6.06	6.58	1.01	3.17	1.06	1.79	3.13	3.46	1.99	4.09	5.06	8.61	46.04
	"	Aasleagh House	8.93	11.94	2.12	6.98	2.05	2.36	6.61	6.08	4.55	9.24	8.48	14.65	83.99
	"	Cong (The Glebe)	6.32	5.99	1.24	3.19	1.38	1.56	4.95	4.66	3.02	5.06	4.66	8.21	50.24
	"	Dugort (Slievemore Hotel)	8.28	7.77	1.90	4.56	.65	2.63	5.22	2.27	3.45	8.46	3.82	8.02	57.03
	"	Collooney (Markree Obs.)	5.69	5.93	1.06	3.73	1.48	2.83	5.47	3.21	2.11	3.90	3.70	7.39	46.50
	"	Mohill Rectory	4.10	4.73	.88	2.30	.92	2.33	4.64	4.86	1.68	3.70	2.80	6.74	39.68
	"	Killeshandra (Drom Mullac)	3.87	5.02	1.04	2.56	.41	2.86	3.69	4.42	1.54	3.45	2.01	7.15	38.02
	"	Enniskillen (Portora)	5.14	4.62	1.34	2.45	1.07	2.57	4.35	3.13	1.75	2.38	1.96	6.08	36.84
	"	Belleek	4.98	4.60	1.82	3.73	.70	1.83	5.52	3.62	1.86	2.10	2.58	6.46	39.80
	"	Dartrey [Cootehill]	3.47	4.83	1.07	2.41	.63	2.75	4.47	4.05	1.90	2.60	1.98	5.74	35.90
	"	Armagh Observatory	2.86	3.55	.86	2.13	.87	1.73	3.74	2.83	1.47	2.26	1.72	5.17	29.19
XXIII.	Down	Seaforde	2.60	5.94	1.26	2.36	2.60	1.46	4.27	3.56	1.38	4.52	3.02	7.29	40.26
	"	Belfast (Queen's University)	3.66	4.77	.91	2.10	1.23	1.69	4.71	3.79	.97	3.31	2.96	6.53	36.63
	"	Glenarm Castle.....	4.44	6.87	1.01	2.24	.89	1.73	4.23	4.57	.73	3.40	3.72	7.99	41.82
	"	Ballymena (Harryville) ..	4.39	5.46	1.45	3.37	1.03	2.46	4.99	2.61	1.02	3.25	3.66	6.21	39.90
	"	Limavady (Drenagh)	3.09	4.01	1.62	2.69	.71	2.55	3.30	2.79	.79	1.58	2.90	5.51	31.54
	"	Cookstown (Lissan).....	3.58	4.46	.80	2.80	1.25	2.81	3.63	3.11	1.15	2.52	2.06	6.16	34.33
	"	Omagh (Edenfel).....	4.49	4.26	1.59	2.99	.90	2.76	5.34	3.24	1.83	3.07	2.77	5.79	39.03
	"	Milford (The Manse)	4.88	3.60	1.67	4.37	1.18	1.90	4.72	4.65	2.22	2.44	3.58	6.03	41.24
	"	Dunfanaghy (Horn Head)	4.70	3.90	1.95	3.84	1.83	1.13	4.53	3.15	2.48	2.85	3.46	7.79	41.61
	"	Killybegs	7.83	5.46	3.33	6.12	1.56	1.61	5.88	2.69	3.33	5.21	3.58	9.90	56.50
	"	Convoy	5.85	5.02	1.93	3.90	1.72	2.01	4.68	3.98	2.56	3.17	3.75	7.28	45.85
	"	"	4.48	5.50	1.13	2.52	1.52	2.02	5.12	3.31	2.12	4.47	3.60	6.56	42.35
	"	"	4.36	5.34	1.80	2.30	1.91	1.48	4.66	3.00	1.96	3.19	3.15	6.93	40.08
	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"

Ireland. Mean of 66 stations
 BRITISH ISLES. Mean of 300 stations

SEASONAL RAINFALL, 1914-15.

THE discussion of the rainfall in two six-monthly groups centred about the winter and the summer seasons respectively, does not in the British Isles possess the same interest or importance as in countries where the year's precipitation is concentrated into a few months. It is none the less desirable, especially for purposes relating to agriculture, to separate the rainfall conditions during seed-time and harvest from those during the half of the year when in general the land is lying fallow or being prepared for the next season's crops.

The table containing the data is based on returns from 107 stations distributed so as to give a good representation over the country. The total rainfall for each half-year is given for each station, together with the 35 years' average, the actual difference from the average, and the rainfall expressed as a percentage of the average. A final column is added giving the combined rainfall of the two half-years as a percentage of the average. The percentage values are plotted on three maps in which are shown, by lines drawn at intervals of 10 per cent., the proportion to the average in the winter and summer half-years, and the seasonal year ending with September, respectively.

Speaking broadly the most pronounced feature of the rainfall of the winter season of 1914-15, was the excess in all parts of the country. Over the British Isles as a whole the fall was 23 per cent. above the average, the maximum being attained in England, where the general fall was 34 per cent. above the average. Wales had an excess of 23 per cent., Ireland of 20 per cent., whilst in Scotland the excess was only 14 per cent.

The rainfall showed an excess of over 50 per cent. in three localities. By far the largest of these extended from Somerset to Kent, embracing parts of Hampshire, Sussex, Surrey and Kent, while a tongue extended in a north-east direction over London, Middlesex, Hertford and the west of Essex. Another wet region covered about half of Norfolk, and a third lay on the borders of Perth and Aberdeen. The whole of England and Wales, except narrow strips on the west coast and in the north-east from Tynemouth to Whitby, had an excess of more than 20 per cent. Part

central Highlands and the east coast from Fifeshire to Banff. Between this wet area and that in the south-west less than 110 per cent. fell, and slightly less than the average at one spot. The unusual wetness of the six months October 1914 to March 1915 was almost wholly occasioned by the excessive rainfall during the four months November 1914 to February 1915. This period, as far as it relates to England and Wales was discussed in detail in a paper on "The Wet Winter of 1914-1915" by Dr. Mill and Mr. H. E. Carter read to the Royal Meteorological Society on May 19th, 1915.* During these four months the rainfall was smallest, less than 12 inches, in three areas, the largest embracing the Fen District, Northamptonshire and Huntingdonshire. A smaller area with less than 12 inches lay over the estuary of the Tees, and a third area over the Thames estuary. The isohyet of 15 inches ran south from the Tweed to Nottingham, whence it took an irregular course as far west as Shrewsbury and thence to Dover. West of this line the rainfall was everywhere more than 15 inches except in a small area near the Mersey estuary. Practically the whole of Wales was enclosed by the 25-inch isohyet, and over 50 inches fell in Snowdonia and on the Brecon Beacons. In parts of the Pennines there was more than 30 inches, and one area in Yorkshire had above 40 inches. In the Lake District the fall increased to above 60 inches. South of the Thames the fall exceeded 20 inches nearly everywhere, and there were areas in the south-east with more than 25 inches. The greater part of Devon and Cornwall had more than 25 inches, and on part of Dartmoor more than 50 inches fell. The measured areas of the rainfall zones in square miles were as follows, the averages being given for comparison :—

ENGLAND AND WALES.	Less than 10 inches.	10 to 12 inches.	12 to 15 inches.	15 to 20 inches.	20 to 30 inches.	More than 30 inches.
Nov. to Feb. } Average ... }	27,623	10,590	7,370	7,880	4,025	820
Nov. 1914 to } Feb. 1915... }	...	4,150	14,440	15,430	18,680	5,608

The general rainfall for England and Wales for the four months, November 1914 to February 1915, was 20·21 in. The area with less than 12 inches was barely one-tenth of the average, while that with more than 30 inches was nearly seven times as great as the average.

The rainfall of the four months was below 150 per cent. of the average along most of the west coast, on a strip of coast in the north-east of

* See *Quar. Jour. R. Met. Soc.*, Vol. 41, pp. 253-284.

England, and in part of Northamptonshire. The area above 200 per cent. extended from Hertford to the south coast covering nearly the whole of the south-eastern counties from Mid-Kent to Wiltshire. Another such area lay over Shropshire. Thus the Lake District and South Wales, normally the rainiest regions, were relatively the driest, while the south-east of England was relatively the wettest part of the country. The general rainfall over England and Wales was 170 per cent. of the average.

Only in the winters of 1876-77 and 1911-12 did periods of four consecutive months occur comparable in wetness to the period November 1914 to February 1915 over England and Wales as a whole.

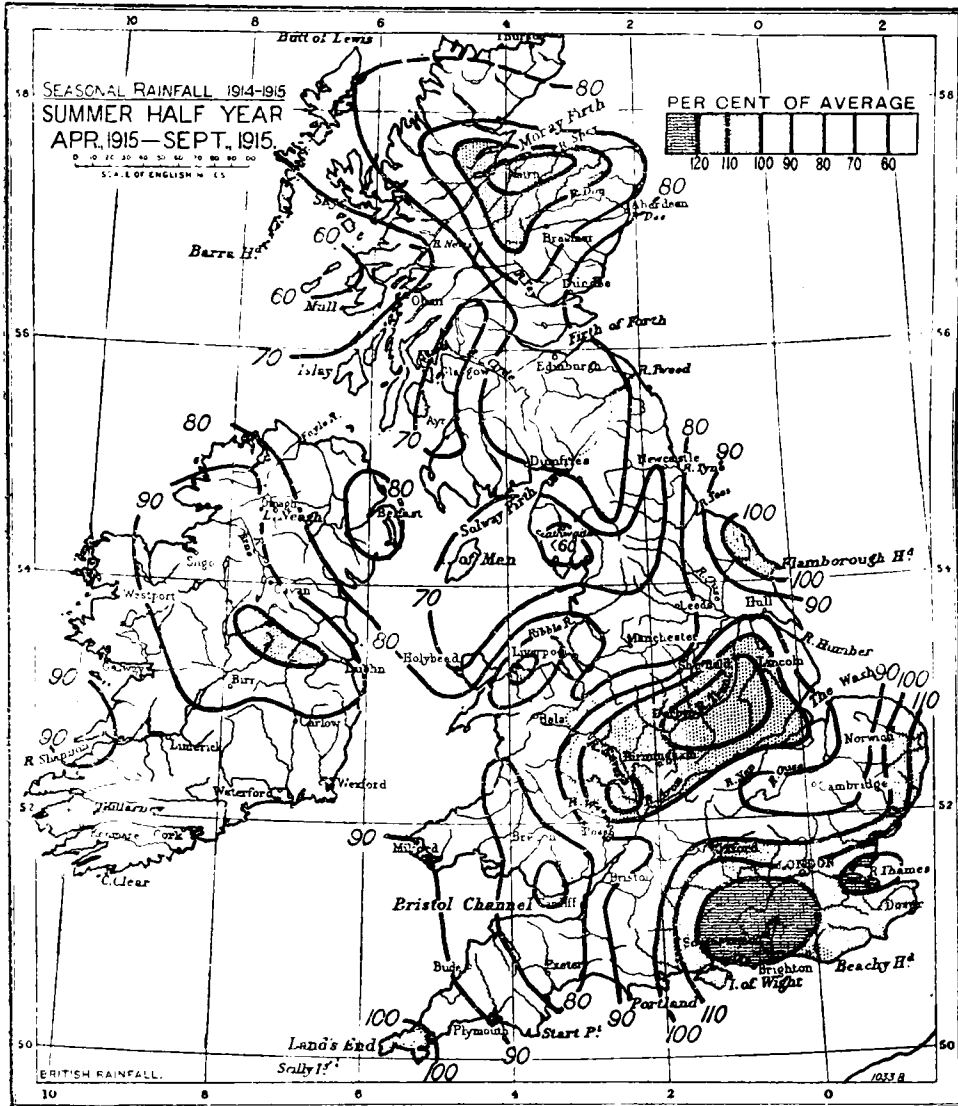
The three wet winters may be summarized as follows :—

ENGLAND AND WALES.		General Rainfall.	Percentage of
		in.	Average.
Nov. 1876 to Feb. 1877	...	19·50	161
Oct. 1911 to Jan. 1912	...	18·67	133
Nov. 1914 to Feb. 1915	...	20·21	167

Thus the rainfall of the four months, November 1914 to February 1915, over England and Wales as a whole was ·71 in. greater than that of November 1876 to February 1877, or 6 per cent. greater, compared with the average, and was the wettest four winter months yet recorded.

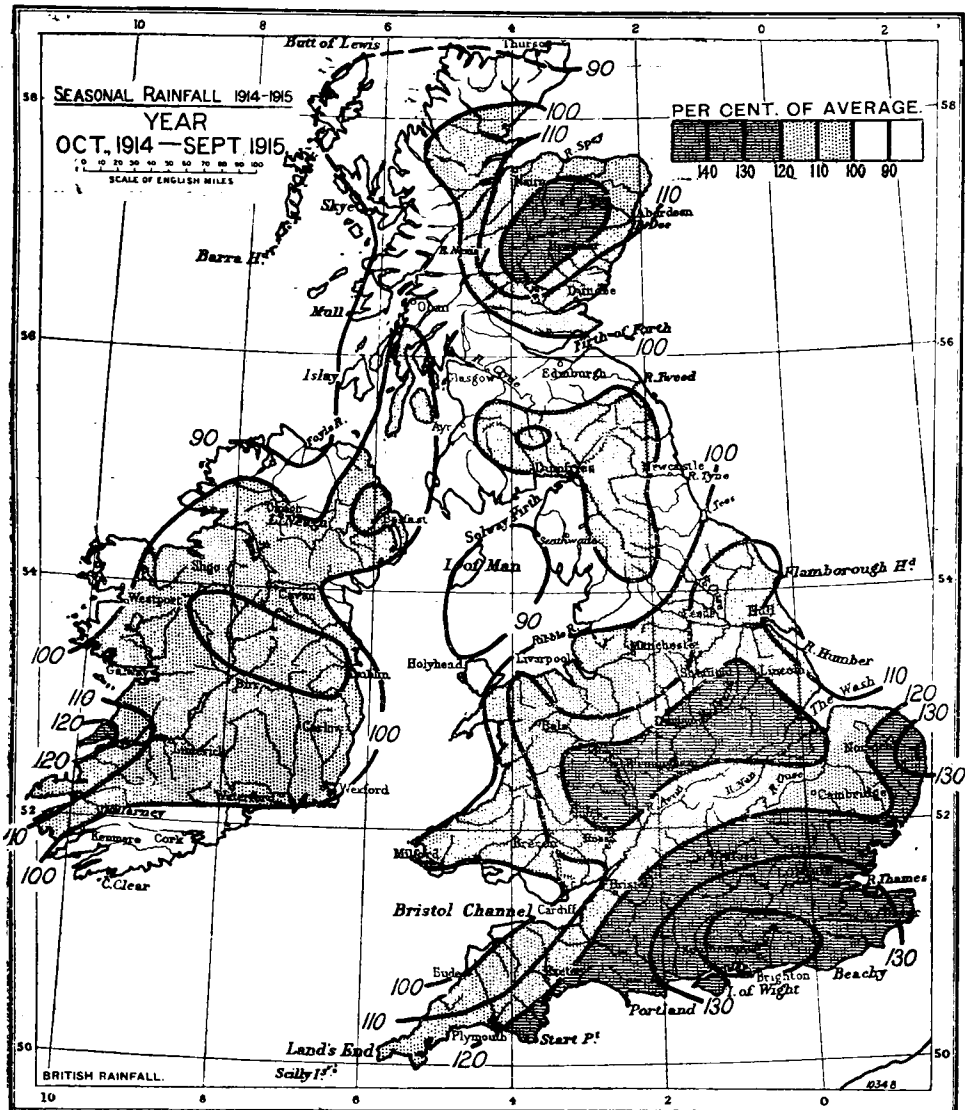
In the summer six months, from April to September 1915, the general rainfall was below the average in each of the four great divisions of the British Isles. The deficiency was most marked in Wales and Scotland, where the rainfall was 19 per cent. below the average. In Ireland the deficiency amounted to 13 per cent. of the average, and in England to 9 per cent. For the United Kingdom there was a deficiency of 14 per cent. By far the largest area of excess lay in the south-east of England, although part of this region had less than the average. The greatest excess, over 20 per cent., was in Hampshire, Surrey, west Sussex and a portion of Essex and Kent. Another area in which the excess was more than 10 per cent. lay in the English Midlands. The rainfall also probably exceeded the average locally round Land's End, near Llandudno, and over a narrow coastal strip in the east of Yorkshire. The driest areas in which the deficiency was more than 30 per cent. were located in South Wales and the north-west of England. The northern and western parts of England and Wales had almost everywhere less than the average. The whole of Ireland, except a small strip between Longford and Kildare, had a rainfall below the average, though the deficiency exceeded 20 per cent. only in the north-east. In Scotland the rainfall exceeded the average

in a triangular patch extending from Banff to Dingwall in the north, and to the Forest of Atholl in the south, the greatest excess being over 10 per cent. in Nairn and Elgin. The whole west and south had a rainfall much below the average, the deficit reaching more than 30 per cent. in parts of the west coast, and as much as 40 per cent. in the west of Mull.



For the seasonal year ending September 1915, the excessive rainfall in the southern half of England and in the north-east of Scotland was very marked, while the dry areas in the south and north of Ireland, and in the normally rainy districts of the west of Scotland and north-west of England, were less pronounced. The wettest area, with an excess

of over 40 per cent., was that part of the south-east of England which was wettest in the winter half-year. Everywhere south-east of a line joining Yarmouth and Plymouth more than 20 per cent. in excess fell. A similar excess was reached in Scotland over an area to the east of the Spey, and in Ireland only near the mouth of the Shannon. More than 10 per cent.



below the average fell in the extreme west and north of Scotland and in the Isle of Man. Taking the British Isles as a whole there was an excess of 6 per cent. In England there was an excess of 14 per cent. in Ireland 5 per cent., and in Wales 4 per cent., while Scotland had exactly the average.

Seasonal Rainfall, 1914-1915, in Relation to the Average, 1875-1909.

Div.	Stations.	Winter Six Months, October, 1914—March, 1915.				Summer Six Months, April — September, 1915.				12 Months, Oct., 1914—Sept., 1915.
		Rainfall.	Aver- age.	Difference from Average.	Per cent. of Aver.	Rainfall.	Aver- age.	Difference from Average.	Per cent. of Aver.	
I.	St. Pancras, Camden Square.....	19.51	12.38	+ 7.13	158	13.77	12.73	+1.04	108	133
II.	Tenterden, View Tower	23.48	15.31	+ 8.17	154	14.11	12.33	+1.78	115	136
"	Edenbridge, Falconhurst.....	23.41	16.75	+ 6.66	140	16.05	13.51	+2.54	119	130
"	Arundel, Patching	27.44	17.17	+10.27	160	16.31	13.31	+3.00	123	144
"	Fawley, Cadland	27.43	17.89	+ 9.54	153	16.77	13.98	+2.79	120	139
"	Basingstoke, Sherborne St. John	23.78	15.86	+ 7.92	150	16.78	13.31	+3.47	126	139
III.	Roydon, Therfield	19.28	12.02	+ 7.26	161	12.17	13.54	-1.37	90	123
"	Oxford, Magdalen College.....	17.59	11.98	+ 5.61	147	13.46	12.60	+ .86	107	126
"	Wellington, Swanspool	14.56	12.27	+ 2.29	119	11.24	12.93	-1.69	87	102
"	March	15.64	10.71	+ 4.93	146	12.88	12.32	+ .56	105	124
IV.	Shoeburyness.....	12.96	9.82	+ 3.14	132	11.86	9.46	+2.40	125	129
"	Ipswich, Orwell Park	18.00	12.56	+ 5.44	143	12.03	12.40	- .37	97	120
"	Bury St. Edmunds, Westley.....	18.02	12.26	+ 5.76	147	10.61	13.14	-2.53	81	113
"	Geldeston	18.80	11.91	+ 6.89	158	13.40	11.82	+1.58	113	136
"	Holkham Hall	16.95	11.46	+ 5.49	148	8.89	12.10	-3.21	73	110
V.	Bishops Cannings	24.00	15.70	+ 8.30	153	15.20	15.17	+ .03	100	127
"	Evershot, Melbury House	33.08	22.27	+10.81	148	14.40	15.93	-1.53	90	124
"	Ashburton, Druid House	45.56	32.16	+13.40	142	15.56	19.45	-3.89	80	118
"	Barnstaple	24.54	21.30	+ 3.24	115	12.52	15.84	-3.32	79	100
"	Falmouth Observatory.....	32.83	26.14	+ 6.69	126	17.04	16.55	+ .49	103	117
"	Altarnon Sanctuary.....	41.74	35.83	+ 5.91	117	19.96	23.14	-3.18	86	104
"	Litton, Sherborne Reservoir	31.68	21.38	+10.30	148	17.10	18.25	-1.15	94	123
VI.	Stroud, Upland	20.90	15.15	+ 5.75	138	13.10	14.66	-1.56	89	114
"	Church Stretton, Wolstaston	24.30	16.57	+ 7.73	147	16.06	15.84	+ .22	101	125
"	Wolverhampton, Wrottesley.....	17.92	12.64	+ 5.28	142	14.22	13.75	+ .47	103	122
"	Malvern, Church Street	18.85	14.14	+ 4.71	133	16.15	14.43	+1.72	112	123
"	Ryton-on-Dunsmore	17.60	12.93	+ 4.67	136	13.87	13.63	+ .24	102	118
VII.	Market Overton	19.39	13.40	+ 5.99	145	15.00	13.70	+1.30	110	127
"	Revesby	17.35	12.59	+ 4.76	138	10.78	12.56	-1.78	86	112
"	Lincoln, Skellingthorpe Hall	14.63	11.34	+ 3.29	129	14.20	12.36	+1.84	115	122

Seasonal Rainfall, 1914-1915, in Relation to the Average, 1875-1909—(continued).

Div.	Stations.	Winter Six Months, October, 1914—March, 1915.				Summer Six Months, April — September, 1915.				12 Months, Oct., 1914—Sept., 1915.	
		Rainfall.		Difference from Average.		Rainfall.		Difference from Average.		Per cent. of Average.	
		in. in.	Aver- age.	in. in.	Per cent. of Aver.	in. in.	Aver- age.	in. in.	Per cent. of Aver.	Per cent. of Average.	Per cent. of Average.
VII.	Mickleover Manor	18.30	12.75	+ 5.55	143	16.04	13.90	+ 2.14	115	129	129
VIII.	Middlewich, Bostock Hall	18.81	14.63	+ 4.18	129	12.62	15.33	- 2.71	82	105	105
"	Chatburn, Middlewood	28.73	23.39	+ 5.34	123	14.56	20.28	- 5.72	72	99	99
IX.	Southport, Hesketh Park	19.92	16.73	+ 3.19	119	13.35	15.97	- 2.62	84	102	102
"	Sheffield W. W., Redmires Res.	28.74	22.20	+ 6.54	129	14.86	19.11	- 4.25	78	106	106
"	Arncliffe Vicarage	45.06	35.66	+ 9.40	126	16.48	25.83	- 9.35	64	100	100
"	Goldsbrough Hall	19.41	13.44	+ 5.97	145	11.11	13.85	- 2.74	80	112	112
"	Hull, Pearson Park	16.90	13.17	+ 3.73	128	11.72	13.25	- 1.53	88	108	108
X.	Scarborough, Osgodby	17.47	14.17	+ 3.21	123	13.45	12.23	+ 1.22	110	117	117
"	Darlington, Cleveland Parade ...	14.38	12.59	+ 1.88	115	9.79	13.18	- 3.39	74	94	94
"	Newcastle-on-Tyne, Town Moor	16.82	13.92	+ 2.90	121	9.76	14.02	- 4.26	70	95	95
"	Rothbury, Crag-side	24.01	18.60	+ 5.41	129	11.71	15.64	- 3.93	75	104	104
"	Carlisle, Spital Cemetery	17.82	15.62	+ 2.20	114	13.20	16.55	- 3.35	80	96	96
"	Borrowdale, Seathwaite	87.29	76.47	+ 10.82	114	30.85	53.01	- 22.16	58	91	91
"	Appleby, Castle Bank	24.53	18.62	+ 5.91	132	12.75	15.79	- 3.04	81	108	108
XI.	Abercavenny, Larchfield	30.00	20.77	+ 9.23	144	13.44	16.34	- 2.90	82	117	117
"	Ystalyfera, Wern School	44.55	36.79	+ 7.76	121	21.45	27.25	- 5.80	79	103	103
"	Cardiff, Ely	27.03	23.26	+ 3.77	116	13.17	19.02	- 5.85	69	95	95
"	Haverfordwest Castle	31.39	27.12	+ 4.27	116	17.36	19.69	- 2.33	88	104	104
"	Aberystwyth, Gogerddan	31.14	24.58	+ 6.56	127	15.46	20.88	- 5.42	74	102	102
"	Birmingham W. W., Tyrynnydd ..	47.38	37.20	+ 10.18	127	21.13	24.86	- 3.73	85	110	110
"	Wrexham, Pack Saddle Reservoir ..	21.47	17.24	+ 4.23	125	12.10	15.45	- 3.35	78	103	103
"	Llandudno	19.51	16.56	+ 2.95	118	14.50	13.80	+ .70	105	112	112
"	Holyhead	21.34	19.96	+ 1.38	107	10.36	15.06	- 4.70	69	91	91
"	Douglas	23.72	23.40	+ .32	101	12.34	18.15	- 5.81	68	87	87
XII.	Auchencairn, Torr House	28.65	25.53	+ 3.12	112	15.50	21.27	- 5.77	73	94	94
"	Drumlanrig Castle	32.25	25.17	+ 7.08	128	16.13	18.54	- 2.41	87	111	111
"	Hawick, Branxholme	20.87	18.49	+ 2.38	113	13.45	15.31	- 1.86	88	102	102
XIII.	North Esk Reservoir	20.20	21.46	- 1.26	94	15.75	18.29	- 2.54	86	90	90

Seasonal Rainfall, 1914-1915, in Relation to the Average, 1875-1909—(continued.)

Div.	Stations.	Winter Six Months October, 1914—March, 1915.				Summer Six Months, April—September, 1915.				12 Months, Oct., 1914—Sept., 1915.	
		Rainfall.		Difference from Average.		Rainfall.		Difference from Average.		Per cent. of Aver.	Per cent. of Average.
		in.	in.	in.	in.	in.	in.	in.	in.		
XIII.	Marchmont House	19.26	17.06	+ 2.20	113	14.17	16.70	-- 2.53	85	99	
XIV.	Airdrie, Hillend Reservoir	20.72	19.99	+ .73	104	15.87	17.73	-- 1.86	90	97	
"	Girvan, Pinnore	34.19	28.37	+ 5.82	121	13.53	21.40	-- 7.87	63	96	
"	Loch Thom	43.28	36.37	+ 6.91	119	19.44	28.10	-- 8.66	69	97	
XV.	Lochgilphed, Poltalloch	36.75	28.71	+ 8.04	128	17.85	22.55	-- 4.70	79	107	
"	Inveraray, Newtown	45.06	40.92	+ 4.14	110	21.68	27.75	-- 6.07	78	97	
"	Islay, Eallabus	30.68	28.38	+ 2.30	108	14.84	20.41	-- 5.57	73	93	
"	Mull, Quinish	37.15	32.98	+ 4.17	113	14.03	23.59	-- 9.56	59	90	
XVI.	Loch Leven Shices	23.34	19.86	+ 3.48	117	13.80	16.68	-- 2.88	83	102	
"	Balquhilder, Stronvar	46.92	45.08	+ 1.84	104	19.07	28.69	-- 9.62	66	89	
"	Blair Atholl	27.05	17.91	+ 9.14	151	14.41	14.44	-- .03	100	128	
"	Dundee, Eastern Necropolis	18.14	14.08	+ 4.06	129	11.80	14.56	-- 2.76	81	105	
XVII.	Fettercairn, The Burn	25.81	18.36	+ 7.45	141	12.15	16.39	-- 4.24	74	109	
"	Braemar	30.25	19.11	+ 11.14	158	14.89	15.82	-- .93	94	129	
"	Aberdeen, Cranford House	23.39	17.32	+ 6.07	135	13.79	15.41	-- 1.62	89	114	
"	Gordon Castle	18.38	15.25	+ 3.13	121	17.46	15.09	+ 2.37	116	118	
XVIII.	Glenquoich	68.52	68.75	-- .23	100	31.68	40.59	-- 8.91	78	92	
"	Drumadrochit	21.94	20.27	+ 1.67	108	14.93	15.86	-- .93	94	102	
"	Inverness High School	14.68	14.18	+ .50	104	15.08	12.96	+ 2.12	116	110	
"	Fort William, Atholl Bank	51.82	46.72	+ 5.10	111	19.85	29.08	-- 9.23	68	95	
"	Loch Torridon, Bendauph	53.80	51.38	+ 2.42	105	27.64	32.55	-- 4.91	85	97	
"	Stornoway	31.41	30.03	+ 1.38	105	14.54	18.37	-- 3.83	79	95	
XIX.	Dunrobin Castle	20.11	17.46	+ 2.65	115	12.23	14.44	-- 2.21	85	101	
"	Wick	16.26	16.13	+ .13	101	10.48	13.73	-- 3.25	76	89	
XX.	Glanmire, Lota Lodge	25.06	25.64	-- .58	98	16.25	18.44	-- 2.19	88	94	
"	Killarney, District Asylum	37.85	33.49	+ 4.36	113	17.36	21.32	-- 3.96	81	101	
"	Valencia, Glanleam	40.70	32.08	+ 8.62	127	20.34	23.93	-- 3.59	85	109	
"	Waterford, Brook Lodge	24.88	21.72	+ 3.16	115	15.45	17.85	-- 2.40	87	102	
"	Nenagh, Castle Lough	25.21	21.46	+ 3.75	117	16.16	17.97	-- 1.81	90	105	

Seasonal Rainfall, 1914-1915, in Relation to the Average, 1875-1909—(continued).

Div.	Stations.	Winter Six Months, October, 1914—March, 1915.				Summer Six Months, April — September, 1915.				12 Months, Oct., 1914—Sept., 1915.
		Rainfall.	Aver- age.	Difference from Average.	Per cent. of Aver.	Rainfall.	Aver- age.	Difference from Average.	Per cent. of Aver.	
XX.	Ennistymon House	in. 33.00	in. 25.03	in. + 7.97	132	in. 17.49	in. 21.49	in. — 4.00	81	109
XXI.	Carrigaholt Castle	29.75	19.74	+ 10.01	151	16.74	16.86	— .12	99	127
	Gorey, Courtown House	22.84	18.80	+ 4.04	121	13.83	16.19	— 2.36	85	105
	Abbey Leix, Blandsfort	22.08	18.51	+ 3.57	119	14.86	17.41	— 2.55	85	103
	Dublin, Fitz William Square	17.16	13.84	+ 3.32	124	13.70	13.84	— .14	99	111
XXII.	Mullingar, Belvedere	24.04	18.37	+ 5.67	131	18.35	17.78	+ .57	103	117
	Greenore	19.08	16.23	+ 2.85	118	11.89	16.10	— 4.21	74	96
	Tuam, Gardenfield	27.57	23.27	+ 4.30	118	17.95	19.42	— 1.47	92	107
	Crossmolina, Enniscoc	33.54	31.04	+ 2.50	108	19.58	21.83	— 2.25	90	100
XXIII.	Cong, The Glebe	32.15	27.33	+ 4.82	118	18.76	21.57	— 2.81	87	104
	Markree Observatory	27.37	22.97	+ 4.40	119	18.83	19.74	— .91	95	108
	Belturbet, Cloverhill	19.60	17.24	+ 2.36	114	14.78	16.50	— 1.72	90	102
	Armagh Observatory	19.72	15.52	+ 4.20	127	12.77	16.36	— 3.59	78	102
"	Seaforde	25.82	20.34	+ 5.48	127	15.63	18.57	— 2.94	84	106
	Belfast, Queen's University	23.83	17.40	+ 6.43	137	14.49	16.41	— 1.92	88	113
	Ballymena, Harryville	29.07	21.49	+ 7.58	135	15.48	19.35	— 3.87	80	109
	Limavady, Drenagh	20.56	19.93	+ .63	103	12.83	17.53	— 4.70	73	89
"	Omagh, Edenfel	24.53	20.45	+ 4.08	120	17.06	18.93	— 1.87	90	106
	Convoy	28.16	25.64	+ 2.52	110	18.85	20.30	— 1.45	93	102
Means.	England (mean of 45 stations)	23.99	17.91	+ 6.08	134	14.17	15.62	— 1.45	91	114
	Wales " " (9 ")	30.42	24.83	+ 5.59	123	15.44	19.15	— 3.71	81	104
	Scotland " " (28 ")	30.74	26.98	+ 3.76	114	16.28	20.22	— 3.94	81	100
	Ireland " " (24 ")	26.40	21.98	+ 4.42	120	16.23	18.57	— 2.34	87	105
	British Isles " " (107 ")	26.83	21.83	+ 5.00	123	15.27	17.80	— 2.53	86	106

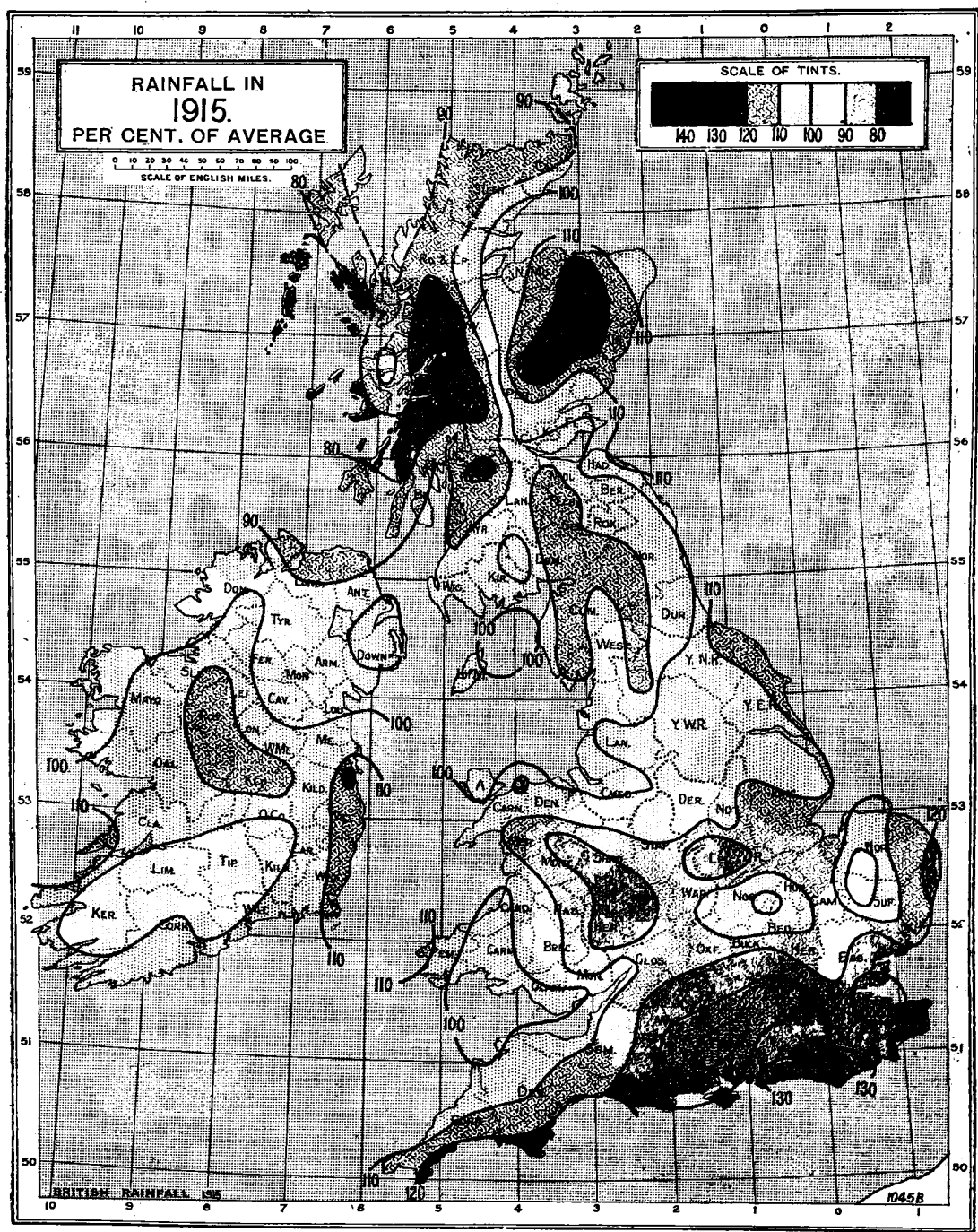
THE RELATION OF THE TOTAL FALL OF RAIN IN 1915 TO THE AVERAGE.

IN order to present a picture of the rainfall of the year in its relation to normal conditions it is necessary to combine two sets of data, those for the year in question and those for the average of a large number of years. The best method of doing this would probably be to superimpose a map of the total rainfall of 1915 upon a map of the average distribution of annual rainfall in the British Isles, but, although we are able to prepare the former, the latter is, at present, not available, except in a generalized form, which would not give sufficient detail for the purpose. Such a map is, however, being gradually built up, and, when completed, it will meet the second requirement. In the meantime, we are able to arrive at a fairly close approximation by comparing the rainfall of each year with its average at a large number of individual stations, and, by plotting these stations representative of all parts of the country, to prepare a map showing the areas where excess and deficiency are respectively indicated.

In preparing the map facing p. [143] we have made use of 305 records. These were from stations possessing an average for the 35 years 1875-1909, except in a few cases where, however, the record was sufficiently long to enable a 35 years' average to be computed. In most parts of England many more records could have been obtained, but the number used is sufficient to enable the lines on the map to be drawn with considerable accuracy. In Wales, Scotland and Ireland, on the other hand, especially in the north-west of Scotland, all available records have had to be employed, and many more are desirable. Whilst we believe the lines in Scotland and Ireland to be reasonably correct we cannot regard them with the same confidence as those in England. The number of stations quoted in the table is 200, the English stations being thinned down to about 1 to every 600 square miles, which is approximately the representation of the other parts of the United Kingdom. In this way the mean of all the stations quoted gives a fair statement of the general relations.

The table gives the average for the ten year period 1900-1909 in addition to that for the 35 year period 1875-1909, in order to allow Observers with shorter records to make a comparison with the stations in their neighbourhood. The rainfall for 1915 is also given, and its difference from the

RELATION OF RAINFALL IN 1915 TO THE AVERAGE OF 1875-1909.



The area coloured Red had rainfall below the average, that coloured Blue had rainfall above the average.

average of 35 years is expressed both in inches and in the form of a percentage of the average.

On the map the data plotted were the percentages which the actual rainfall of the year formed of the average at each station. The figures themselves are not reproduced, but are indicated by drawing lines showing successive departures of 10 per cent. from the average. The areas between successive lines thus form zones of various degrees of wetness or dryness during the year, and these degrees are emphasized by colouring the dry zones red and the wet zones blue, the colour being deepened as the departure from the average becomes more pronounced.

On examining the map it will be seen at a glance that the rainfall of 1915 was excessive in three large areas. The largest and wettest of these occupied nearly the whole of England and Wales; the next in point of size, but not in point of wetness, occupied the centre and south-east of Ireland, whilst the third lay in the east of Scotland. There were also three main areas of dryness. The first, and by far the largest and driest, extended over the western half of Scotland, the north-west of England, and the north of Ireland, while of the other two, which were comparatively unimportant, one lay in the south of Ireland and the other in three detached portions, respectively round the Bristol Channel, near Bedford, and near Thetford.

Taking first the main wet area in England, it will be seen that it culminated in two parallel belts, crossing the country from west-south-west to east-north-east. The more northerly had excesses of over 20 per cent. on the Welsh border, and in Leicestershire and Staffordshire, and was no doubt largely produced by the great rains of July in that neighbourhood. The southern belt had more than 20 per cent. above the average over a strip which extended from the Lizard to Torquay, from Lyme Regis to Walton-on-the-Naze, and along part of the coast of East Anglia.

Three large areas had more than 30 per cent. excess, these lying respectively round the Thames estuary, in Sussex, and over the district between Weymouth and London. In eastern Sussex and on the borders of Hampshire and Wiltshire there is good evidence that more than 40 per cent. above the average fell. Immediately to the north of the great southern wet belt the rainfall was little, if any, in excess of the average, and this comparatively dry strip, including the line of patches with less than average rainfall running from the Bristol Channel to Norfolk, lay parallel to, and separated, the two wet belts already described. Relatively

high rainfall extended northward in the east of Great Britain, the excess being greater than 10 per cent. at intervals along the coast. The excessively wet area in the east of Scotland showed more than 20 per cent. above the average between the lower course of the Tay in the south and Buckie in the north, whilst in the centre there was more than 30 per cent. excess. It is clear that the large rainfall in this neighbourhood was due to the several remarkable cyclonic rainstorms in the autumn months, a description of which with maps will be found in the section on Heavy Falls of Rain on Rainfall Days in this volume.

In vivid contrast with the south and east of Great Britain the rainfall in the north-west was below, and in large areas considerably below, the average. The district with a deficient fall in the north-west extended from Flintshire northward, just touched the east coast at Newcastle-on-Tyne, and occupied the western half of Scotland. Over most of this area the rainfall fell short of the average by more than 10 per cent., the districts with this deficiency stretching from the northern Pennines and Lake District to near Edinburgh and from the north coast of Ireland to Orkney. A large area in the western Highlands and the greater part of the outer islands appear to have had a deficiency of more than 20 per cent., the dryness culminating in western Inverness-shire, with a deficit of 28 per cent. at Fort William. The transition from a greatly deficient fall in this district to a greatly excessive fall on Spey-side was very rapid, but it must be remembered that the western Highlands normally have a rainfall more than double that of the eastern area, and the actual rainfall in inches was still considerably higher in the west than the east, the peculiarity of 1915 being that the transition from the high rainfall in the west to the lower fall in the east was much less marked than usual.

In Ireland the chief area of excessive rainfall was a broad belt traversing the centre from west to east; the excess was greater than 10 per cent. on the coast of Clare, in the upper Shannon basin, and on the south-east coast from Wexford to Dublin. A small area round Belfast also had slightly more than the average, but less than the average fell in the north generally, and less than 90 per cent. in the extreme north. In the south of Ireland the conditions were close to the normal, very slightly more than the average falling on the coast and very slightly less inland.

The map now reproduced is the tenth of the same kind given in successive volumes of *British Rainfall*, and it is instructive to glance briefly at certain points of interest brought out. In the first place it may be noted

that one year only, 1907, out of the ten, showed a range of less than 50 per cent. of the average, and that in every year some parts of the British Isles were wet and others dry, in all but three there being departures of more than 20 per cent. on *both* sides of the average. Three years, 1910, 1912 and 1915, have been years of abnormal wetness in England; two, 1908 and 1911, of abnormal dryness. The seven consecutive years, 1909-1915, have all shown patches of great wetness on some part of the south coast of England. It is remarkable that in every year the main trend of the isopleths in Scotland has been from north to south, there being nearly always a marked contrast between east and west, or between north-east and south-west. Part of the south-west of Scotland was wet in every year till 1915, when this district was very dry. The first five years of the series showed a strong tendency towards dryness in the south of Ireland, but conditions have become more nearly normal since. Speaking broadly Ireland shows smaller variations from the average than occur in Great Britain.

ABSTRACT.

COUNTRIES.	No. of Records utilized.	Average. 10 years 1900-09.	Average. 35 years 1875-1909.	1915.	Diff. from Average 1875-1909.	
					Amount.	Per cent.
England.....	87	31·97	32·84	36·21	3·37	+ 10
Wales.....	16	46·38	46·74	49·05	2·31	+ 5
England and Wales.....	103	34·21	35·00	38·21	3·21	+ 9
Isle of Man	1	41·35	41·55	41·03	·52	— 1
Scotland	53	46·21	45·40	41·57	3·83	— 8
Ireland	43	40·75	40·70	41·43	·73	+ 2
British Isles	200	38·83	39·01	39·80	·79	+ 2

The general excess in England during 1915 was larger than in any other of the great divisions of the Kingdom, being 10 per cent. of the average. In Wales there was a general excess of 5 per cent., and for England and Wales taken together the fall was 9 per cent. above the average. This excess corresponds roughly to 3·20 in. of general rainfall or, in other words, England and Wales had, during the year, 2,700,000 million gallons of rain more than the average fall. In Scotland the large dry areas outweighed the smaller wet areas, and the general deficiency amounted to 8 per cent., whilst in Ireland there was an excess of 2 per cent. For the British Isles as a whole, in spite of the great excess in the south of England, the general rainfall for the year was only 2 per cent. above the average, this corresponding to about ·80 in. of general rainfall.

The excess in England and Wales, though not large, is significant when taken in conjunction with the fact that of the seven years, 1909-1915, only one, 1911, had a rainfall below the average. So far as we are able to tell no similar instance of persistent high rainfall has occurred in England and Wales generally for at least 30 years, and it is clear that the south of Great Britain is, at present, passing through an exceptional period of wetness similar to that of the late seventies and early eighties. In Scotland, on the other hand, only two years in the last eight have been wet, and these not excessively so, and it is thus evident that, whatever may be the cause of the high rainfall in the south it does not extend to the north of the British Isles. In Ireland the same years have shown a preponderance of small excesses, but for the British Isles as a whole the sequence is confused, the excesses in England having in some years counterbalanced the deficiencies in Scotland and sometimes *vice versa*.

COMPARISON OF THE RAINFALL OF THE YEAR 1915 WITH THE AVERAGE OF THE PERIODS 1900-09 & 1875-1909.

ENGLAND.

DIV.	COUNTY and river-division.	STATION.	Average 1900-09.	Average 1875- 1909.	Depth in 1915.	Difference from Average 1875-1909.	
							Per Amount. cent
			in.	in.	in.	in.	
I.	London	2 St. Pancras (Camden Square)	24·57	25·11	32·18	7·07	+ 28
II.	Surrey	6 Haslemere (Hazlehurst)	35·84	36·15	46·64	10·49	+ 29
	„ Kent	1 Tenterden (View Tower).....	26·34	27·64	34·58	6·94	+ 25
	„ „	3 Selling (Harefield)	29·86	29·85	39·70	9·85	+ 33
	„ „	4 Edenbridge (Falconhurst) ...	31·06	30·26	38·45	8·19	+ 27
	„ Sussex	2 Patching	29·61	30·48	42·44	11·96	+ 39
	„ „	5 Hailsham Vicarage	30·02	30·48	43·59	13·11	+ 43
	„ Hampshire	1 Ventnor (Flint Cottage)	27·95	28·97	37·22	8·25	+ 28
	„ „	8 Basingstoke (Sherborne St. John)	29·27	29·17	39·94	10·77	+ 37
III.	Hertfordshire	1 Tring (Cowroast Lock)	28·73	28·89	36·03	7·14	+ 25
	„ „	3 Royston (Therfield Rectory)..	24·64	25·56	27·78	2·22	+ 9
	„ Buckinghamshire ...	4 Slough (Langley)	23·52	24·18	31·83	7·65	+ 32
	„ „	5 Buckingham (Adstock Fields)	24·25	25·96	27·95	1·99	+ 8
	„ Oxfordshire	3 Oxford (Magdalen College)...	23·31	24·58	29·38	4·80	+ 20
	„ Northampton	4 Wellingborough (Swanspool)	24·41	25·20	24·77	·43	— 2
	„ Cambridgeshire ...	2 Cambridge (Quy Hall).....	22·00	23·11	26·25	3·14	+ 14
	„ „	2 March	22·37	23·03	27·34	4·31	+ 19
IV.	Essex	3 Shoeburyness	18·69	19·28	25·66	6·38	+ 33
	„ „	4 Chelmsford (High Street).....	22·66	23·02	29·00	5·98	+ 26
	„ „	5 Earls Colne (Chalkney Ho.)	22·83	23·43	28·94	5·51	+ 24
	„ Suffolk	2 Ipswich (Orwell Park).....	24·10	24·96	28·17	3·21	+ 13

ENGLAND—(continued).

DIV.	COUNTY and river-division.	STATION.	Average 1900-09	Average 1875- 1909.	Depth in 1915.	Difference from Average 1875-1909.	
						Amount.	Per cent
			in.	in.	in.	in.	
IV.	Suffolk	5 Bury St. Edmunds (Westley)	24·11	25·40	24·56	·84	— 3
„	Norfolk	1 Geldeston [Beccles]	22·74	23·73	29·98	6·25	+ 26
„	„	1 Cawston Rectory	25·29	26·91	32·05	5·14	+ 19
„	„	3 Wells (Holkham Hall)	23·63	23·56	25·30	1·74	+ 7
„	„	4 Swaffham (Little Dunham)...	25·68	27·57	28·47	·90	+ 3
V.	Wiltshire	3 Warminster (Rye Hill)	35·21	36·75	46·86	10·11	+ 27
„	„	4 Landford (Northlands)	30·04	30·11	43·99	13·88	+ 46
„	„	6 New Swindon	26·37	28·05	34·75	6·70	+ 24
„	Dorset	1 Evershot (Melbury House) ...	37·70	38·20	47·16	8·96	+ 23
„	„	3 Wareham (South Street)	32·10	31·39	41·72	10·33	+ 33
„	South Devon ..	2 Devonport (Rowdens Res.)...	33·78	35·58	42·21	6·63	+ 19
„	„ „	4 Ashburton (Druid House) ...	48·68	51·61	60·45	8·84	+ 17
„	„ „	6 Cullompton	33·22	35·18	40·20	5·02	+ 14
„	North Devon ..	2 Arlington Court	53·81	53·39	54·81	1·42	+ 3
„	„ „	3 Okehampton (Oaklands).....	43·95	46·25	50·12	3·87	+ 8
„	„ „	3 Northam Vicarage	34·13	35·55	35·04	·51	— 1
„	Cornwall	2 Falmouth (New Observatory)	41·95	42·69	52·91	10·22	+ 24
„	„	2 St. Austell (Trevarna).....	43·87	46·21	54·87	8·66	+ 19
„	„	3 Altarnon Sanctuary	57·51	58·97	63·53	4·56	+ 8
„	„	4 Scilly (St. Mary's)	30·44	32·36	33·90	1·54	+ 5
„	Somerset	2 Street (Millfield)	28·73	29·94	33·09	3·15	+ 11
VI.	Gloucestershire ..	3 Stroud (Upfield)	29·03	29·81	32·46	2·65	+ 9
„	„	5 Clifton (Pembroke Road) ...	32·43	34·88	38·97	4·09	+ 12
„	„	7 Great Barrington	28·59	29·83	33·83	4·00	+ 13
„	Herefordshire	1 Kington (Lynhales).....	31·55	33·28	39·21	5·93	+ 18
„	Shropshire	3 Church Stretton (Wolstaston)	31·74	32·41	39·55	7·14	+ 22
„	Staffordshire	2 Market Drayton (Old Springs)	29·47	29·41	32·37	2·96	+ 10
„	„	3 Wolverhampton (Wrottesley)	24·65	26·39	30·20	3·81	+ 14
„	„	5 Tean (The Heath House) ...	32·10	32·65	33·55	·90	+ 3
„	Worcestershire	1 Malvern (Church Street)...	28·12	28·57	35·91	7·34	+ 26
„	Warwickshire	1 Ryton-on-Dunsmore	26·20	26·56	29·37	2·81	+ 11
VII.	Leicestershire ..	4 Thornton Reservoir.....	25·73	26·44	33·06	6·62	+ 25
„	Rutland.....	3 Market Overton	26·74	27·10	32·31	5·21	+ 19
„	Lincolnshire	3 Boston (Black Sluice, Skirbeck).	23·21	23·35	26·92	3·57	+ 15
„	„	3 Lincoln (Skellingthorpe Hall)	22·72	23·70	28·26	4·56	+ 19
„	„	4 Louth (Westgate).....	27·30	28·74	28·97	·23	+ 1
„	„	5 Brigg	25·83	26·21	26·41	·20	+ 1
„	Nottinghamshire ..	4 Eastwood Colliery	27·78	28·46	31·68	3·22	+ 11
„	„	5 Worksop (Hodsock Priory)...	23·15	24·46	25·74	1·28	+ 5
VIII.	Cheshire	1 Torrside Reservoir	42·95	44·46	48·41	3·95	+ 9
„	„	2 Middlewich (Bostock Hall).	29·15	29·96	30·23	·27	+ 1
„	South Lancashire...	3 Bolton (Smithills Hall)	46·80	46·29	46·61	·32	+ 1
„	Central „	1 Stonyhurst College	45·88	46·79	43·84	2·95	— 6
„	„ „	3 Southport (Hesketh Park) ...	31·13	32·70	32·05	·65	— 2
„	North „	2 Cartmel (Holker Hall)	46·93	44·31	39·69	4·62	— 10
„	„ „	4 Wray Vicarage	43·74	44·34	41·16	3·18	— 7
IX.	Yorks, West Riding	1 Sedbergh	52·52	52·12	50·30	1·82	— 3
„	„ „ „	7 Sheffield W. W. (Redmires Res.)	40·25	41·31	42·11	·80	+ 2
„	„ „ „	9 Leeds (Museum)	23·89	25·51	26·53	1·02	+ 4
„	„ „ „	9 Silsden Reservoir..	26·93	29·91	30·64	·73	+ 2

ENGLAND—(continued).

DFV.	COUNTY and river-division.	STATION.	Average 1900-09.	Average 1875- 1909.	Depth in 1915.	Difference from Average 1875-1909. Per Amount, cent
			in.	in.	in.	in.
IX.	Yorks, West Riding	Wetherby (Ribston Hall).....	28·10	26·87	27·63	·76 + 3
"	" East "	Warter	27·43	29·75	31·16	1·41 + 5
"	" " "	Patrington	22·40	24·05	27·21	3·16 + 13
"	" North "	Leyburn (Bolton Hall).....	31·72	32·79	33·33	·54 + 2
"	" " "	Rounton Grange	25·56	25·82	26·33	·51 + 2
"	" " "	Scarborough (Osgodby)	24·09	26·40	30·67	4·27 + 16
"	" " "	Guisborough (Lockwood Beck)	31·89	33·13	37·09	3·96 + 12
X.	Durham.....	Wolsingham	31·02	33·75	31·17	2·58 — 8
"	"	Sunderland (W. Hendon Ho.)	25·29	26·07	26·08	·01 + 0
"	Northumberland ...	Hallington (Fawcett)	28·11	28·95	26·04	2·91 — 10
"	"	Rothbury (Cragside)	33·66	34·24	32·20	2·04 — 6
"	"	Howick Hall	29·69	28·78	30·26	1·48 + 5
"	Cumberland	Carlisle (Spital Cemetery) ...	33·21	32·17	28·28	3·89 — 12
"	"	Borrowdale (Seathwaite).....	126·16	129·48	103·50	25·98 — 20
"	"	Whitehaven (Irish Street) ...	43·57	41·70	42·80	1·10 + 3
"	Westmorland	Appleby (Castle Bank)	35·15	34·41	32·76	1·65 — 5

MONMOUTH AND WALES.

XI.	Monmouth	3	Abergavenny (Larchfield) ...	34·83	37·11	43·42	6·31 + 17
"	Glamorgan	3	Ystalyfera (Wern School).....	63·91	64·04	65·09	1·05 + 2
"	"	5	Cardiff (Ely Pumping Station)	41·02	42·28	40·47	1·81 — 4
"	Carmarthen	2	Carmarthen (The Friary).....	47·85	48·80	46·61	2·19 — 4
"	"	2	Llanwrda (Dolaucothy)	55·89	56·60	59·08	2·48 + 4
"	Pembroke.....	3	St. Davids.....	37·72	36·75	41·75	5·00 + 14
"	"	4	Haverfordwest	45·54	46·81	49·27	2·46 + 5
"	Cardigan	2	Aberystwyth (Gogerddan) ...	45·81	45·46	45·27	·19 — 0
"	Brecon	4	Nanthir Reservoir [Aberdare]	57·23	59·39	63·43	4·04 + 7
"	Radnor	1	Birmingham WW (Tyrmynydd)	59·27	62·06	65·31	3·25 + 5
"	Flint	1	Northop (Soughton Hall) ...	32·29	32·55	34·21	1·66 + 5
"	Denbigh	1	Wrexham (Pack Saddle Res.)	33·43	32·69	33·04	·35 + 1
"	Merioneth.....	1	Bala (Eryl Aran)	54·94	52·18	58·53	6·35 + 12
"	"	3	Tan-y-bwlch (The Gardens)..	62·93	62·25	68·94	6·69 + 11
"	Carnarvon	2	Llandudno.....	29·76	30·36	33·66	3·30 + 11
"	Anglesey		Llanerchymedd (Llywdiarth Esgob)	39·66	38·57	36·76	1·81 — 5

ISLE OF MAN.

XI.	Isle of Man		Douglas (Borough Cemetery)	41·35	41·55	41·03	·52 — 1
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SCOTLAND.

XII.	Wigtown	3	Stoneykirk (Ardwell House)..	38·52	36·40	34·93	1·47 — 4
"	Kirkcudbright	3	Dalry (Glendarroch)	55·17	52·60	53·08	·48 + 1
"	"	4	Auchencairn (Torr House)...	48·94	46·80	45·95	·85 — 2
"	Dumfries	3	Durrisdeer (Drumlanrig Gdns.)	46·22	43·71	44·85	1·14 + 3
"	"	4	Moffat (Craigielands)	53·06	53·20	45·05	8·15 — 15
"	Roxburgh	3	Hawick (Braxholme).....	32·27	33·80	30·65	3·15 — 9

SCOTLAND—(continued.)

DIV.	COUNTY and river-division.	STATION.	Average 1900-09.	Average 1875- 1909.	Depth in 1915.	Difference from Average 1875-1909.	
						Amount.	Per cent
			in.	in.	in.	in.	
XIII.	Selkirk	5 Galashiels (Stantling Craigs)	33·63	34·75	31·72	3·03	— 9
„	Peebles	3 N. Esk Reservoir [Penicuik]	39·94	39·75	34·05	5·70	— 14
„	Berwick	4 Marchmont House	32·52	33·76	33·57	·19	— 1
„	Haddington	4 Prestonkirk (Smeaton)	26·00	25·47	28·57	3·10	+ 12
XIV.	Lanark	4 Airdrie (Hillend Reservoir)...	38·13	37·72	33·62	4·10	— 11
„	Ayr	3 Kilmarnock (North Craig Res.)	45·21	40·92	33·40	7·52	— 18
„	„	8 Girvan (Pinmore)	53·19	49·77	44·12	5·65	— 11
XV.	Stirling	5 Strathblane (Mugdock Res.)	43·34	46·44	36·95	9·49	— 20
„	Bute	1 Rothesay (Crichton Road) ...	54·65	52·10	48·64	3·46	— 7
„	Argyll	2 Loch Sunart (Glenborrodale)	69·47	66·99	61·65	5·34	— 8
„	„	7 Kilmelfort (Arduaine)	59·13	57·60	45·37	12·23	— 21
„	„	9 Mull of Kintyre	46·02	41·42	34·92	6·50	— 16
„	„	10 Campbeltown (Devaar)	47·33	44·23	37·45	6·78	— 15
„	„	11 Inveraray (Newtown)	71·25	68·67	55·34	13·33	— 19
„	„	14 Islay (Eallabus)	51·26	48·79	40·66	8·13	— 17
„	„	14 Mull (Quinish)	57·55	56·57	45·20	11·37	— 20
XVI.	Clackmannan	1 Dollar Academy	40·68	41·39	41·18	·21	— 1
„	Kinross	2 Loch Leven Sluice	36·70	36·54	36·15	·39	— 1
„	Fife	2 Colinsburgh (Balcarres)	32·78	33·37	31·49	1·88	— 6
„	Perth	3 Balquhiddel (Stronvar)	74·43	73·77	55·32	18·45	— 25
„	„	14 Blair Atholl	33·36	32·35	39·24	6·89	+ 21
„	„	15 Blairgowrie (Ballintuim Ho.)	38·58	37·68	46·60	8·92	+ 24
„	Forfar	2 Dundee (Eastern Necropolis)	27·72	28·64	29·99	1·35	+ 5
XVII.	Kincardine	1 Fettercairn (The Burn)	35·13	34·75	40·78	6·03	+ 17
„	Aberdeen	1 Braemar (Bank)	34·11	34·93	43·03	8·10	+ 23
„	„	1 Logie Coldstone (Loanhead).	32·72	30·67	42·68	12·01	+ 39
„	„	1 Aberdeen (Cranford House)..	32·70	32·73	36·65	3·92	+ 12
„	„	4 New Deer Schoolhouse	32·89	34·74	37·24	2·50	+ 7
„	Moray	2 Gordon Castle	30·64	30·34	37·40	7·06	+ 23
„	„	3 Grantown-on-Spey	32·65	31·23	35·17	3·94	+ 13
XVIII.	Inverness	3 Kingussie	29·66	29·62	32·04	2·42	+ 8
„	„	6 Fort Augustus	45·19	44·53	32·88	11·65	— 26
„	„	7 Glenquoich	115·15	109·34	85·66	23·68	— 22
„	„	9 Drumnadrochit	35·08	36·13	34·84	1·29	— 4
„	„	9 Inverness (High School).....	28·12	27·14	27·81	·67	+ 2
„	„	13 Arisaig House	62·88	61·75	53·98	7·77	— 13
„	„	17 Fort William	77·59	75·80	54·62	21·18	— 28
„	„	18 Skye (Scalpay Island)	77·22	74·40	58·53	15·87	— 21
„	„	19 North Uist (Monach)	42·13	46·55	33·31	13·24	— 28
„	Ross & Cromarty	4 Strathpeffer	30·85	30·35	30·19	·16	— 1
„	„	8 Loch Torridon (Bendamph)..	90·40	83·93	71·85	12·08	— 14
„	„	9 Glencarron Lodge	87·59	86·50	68·36	18·14	— 21
„	„	10 Stornoway	50·48	48·40	46·05	2·35	— 5
XIX.	Sutherland	1 Invershin	34·19	33·17	31·37	1·80	— 5
„	„	2 Dunrobin Castle	33·07	31·90	32·82	·92	+ 3
„	Caithness	2 Wick	31·35	29·88	26·62	3·26	— 11
„	Orkney	Shapinsay (Balfour Castle) ...	30·57	32·13	29·36	2·77	— 9

IRELAND.

DIV.	COUNTY and river-division.	STATION.	Average 1900-09	Average 1875- 1909.	Depth in 1915.	Difference from Average 1875-1909.	
						Per Amount, cent	
			in.	in.	in.	in.	
XX.	Cork	7 Glanmire (Lota Lodge)	41·90	44·08	44·34	·26	+ 1
"	"	9 Mallow (Summer Hill)	38·20	38·90	39·97	1·07	+ 3
"	Kerry	3 Killarney (District Asylum)..	50·48	54·81	53·40	1·41	— 3
"	"	4 Kenmare (Dromore)	70·26	64·92	62·07	2·85	— 4
"	"	6 Valencia (Glanleam)	56·10	56·01	58·78	2·77	+ 5
"	Waterford	3 Waterford (Brook Lodge) ...	40·12	39·57	41·42	1·85	+ 5
"	Tipperary	1 Nenagh (Castle Lough)	38·55	39·43	41·72	2·29	+ 6
"	"	3 Clonmel (Bruce Villa)	35·90	37·10	35·90	1·20	— 3
"	Limerick	2 Foynes	39·23	39·60	39·28	·32	— 1
"	Clare	2 Ennistymon House	47·77	46·52	48·67	2·15	+ 5
"	"	3 Carrigaholt Castle	36·97	36·60	44·83	8·23	+ 22
"	"	3 Newmarket-on-Fergus	41·99	42·00	42·49	·49	+ 1
XXI.	Wexford	3 Enniscorthy (Ballyhyland) ...	42·13	42·70	45·08	2·38	+ 6
"	"	4 Gorey (Courtown House) ...	33·34	34·99	40·57	5·58	+ 16
"	Kilkenny	2 Kilkenny (Lavistown House) ...	30·92	31·15	30·61	·54	— 2
"	Wicklow	4 Bray (Fassaroe)	39·80	41·10	45·20	4·10	+ 10
"	Queen's County ...	2 Abbey Leix (Blandsfort)	37·70	35·92	35·46	·46	— 1
"	King's County	1 Birr Castle	32·77	32·86	33·41	·55	+ 2
"	Kildare	1 Monasterevan (Moore Abbey) ...	32·18	32·50	33·48	·98	+ 3
"	"	2 Straffan House	30·56	31·61	31·87	·26	+ 1
"	Dublin	3 Balbriggan (Ardgillan)	28·62	29·58	31·54	1·96	+ 7
"	Meath	4 Kells (Headfort)	34·25	37·25	37·34	·09	+ 0
"	Westmeath	1 Athlone (Twyford)	34·99	37·35	43·11	5·76	+ 15
"	"	1 Mullingar (Belvedere)	35·89	36·15	41·52	5·37	+ 15
"	Louth	3 Greenore	32·95	32·33	29·85	2·48	— 8
XXII.	Galway	3 Tuam (Gardenfield)	44·06	42·69	44·52	1·83	+ 4
"	"	4 Woodlawn	42·19	41·57	42·54	·97	+ 2
"	Mayo	2 Crossmolina (Enniscoe)	54·37	52·87	54·83	1·96	+ 4
"	"	4 Westport (St. Helen's)	47·10	46·20	46·04	·16	— 0
"	"	6 Cong (The Glebe)	49·78	48·90	50·24	1·31	+ 3
"	Sligo	2 Collooney (Markree Obs.) ...	44·40	42·71	46·50	3·79	+ 9
XXIII.	Cavan	1 Belturbet (Cloverhill)	35·52	33·74	31·77	1·97	— 6
"	Armagh	5 Armagh Observatory	32·09	31·88	29·19	2·69	— 8
"	Down	2 Seaford	39·47	38·91	40·26	1·35	+ 3
"	"	7 Banbridge (Milltown)	31·51	31·40	32·33	·93	+ 3
"	Antrim	1 Belfast (Queen's University)..	35·89	33·81	36·63	2·82	+ 8
"	"	5 Ballymena (Harryville)	42·52	40·84	39·90	·94	— 2
"	Londonderry	5 Londonderry (Creggan Res.) ...	42·94	41·78	40·33	1·45	— 3
"	"	5 Limavady (Drenagh)	37·88	37·46	31·54	5·92	— 16
"	Tyrone	3 Omagh (Edenfel)	42·30	39·38	39·03	·35	— 1
"	Donegal	3 Dunfanaghy (Horn Head) ...	45·18	44·40	41·61	2·79	— 6
"	"	5 Killybegs	60·95	60·60	56·50	4·10	— 7
"	"	8 Convoy	48·64	45·94	45·85	·09	— 0

EXTREMES OF RAINFALL IN 1915.

IN the foregoing section we have considered the rainfall of 1915 in its relation to the average, and a glance at the map facing p. [143] shows that, broadly speaking, the total for the year was most excessive in the east, where the normal fall is least, and most deficient in the west, especially the north-west, where the normal fall is greatest. In these circumstances the range of actual rainfall between east and west is greatly reduced, and the actual extremes of total rainfall are moderate at both ends of the scale. For reasons explained in *British Rainfall, 1914*, we no longer print the list of highest and lowest falls recorded in each country, but prefer to give a brief statement of the districts which experienced these extremes based upon the preliminary rainfall map for the year on which the data are plotted.

Districts of Greatest Rainfall.

In England it does not appear probable that the rainfall of the year reached 100 inches anywhere save in the few square miles in Cumberland and Westmorland, surrounding the upper parts of Borrowdale and Langdale, although it reached 80 inches at three stations on Dartmoor. In the English Lakes more than 130 inches fell on the Styne, with a maximum of 138·97 at the recently erected gauge B. At Mickleden, in Langdale, the total reached 125·34 in. In Wales also there appears to have been only one definite area which received as much as 100 inches during the year, and though there are large areas where no gauges exist we doubt whether so large a fall occurred in any other part. The largest falls took place, as usual, in the neighbourhood of Snowdon, where 138·99 in. and 134·16 in. fell at two gauges on the west side of Llyn Llydaw, and 126·18 in. at one on the east side. The area with more than 100 inches extended eastward to Blaenau Festiniog, where 100·93 in. was registered at Llechwedd Quarries. In Scotland, where all the very rainy districts had far less than their normal rainfall, only one station, Loan, at the west end of Loch Quoich, had as much as 100 inches. Here, however, 121·80 in. fell. It is unlikely that so much

as 100 inches fell elsewhere, unless on the summit of Ben Nevis. Two other stations near Glenquoich, and one not far from Glencarron, had more than 90 inches. In Ireland more than 80 inches probably fell in the mountains of Kerry, where, however, only one station, Dereen, with 84·78 in., showed so high a total. Parts of Connemara were possibly rather wetter, and two of the Marquis of Sligo's gauges, Aasleagh House and Delphi Lodge, recorded respectively 83·99 in. and 95·66 in. The latter is a new record, and appears to represent one of the rainiest spots yet discovered in Ireland.

Districts of Least Rainfall.

In England several areas of considerable size had less than 25 inches of rain during the year, the largest of these occupying the district between Kettering, Bedford and Spalding, whilst another stretched from Cambridge to Diss, and a third lay in the Vale of York and the Lower Trent Valley. Very limited areas received less than 23 inches in the neighbourhood of Thrapston and to the south of Peterborough. In Wales the 30-inch isohyet appeared only in the lower Vale of Clwyd, with a minimum of rather less than 26 inches near Rhyl. In Scotland less than 30 inches fell on the shores of the Moray Firth and the Firth of Forth, and also in the lower valley of the Tweed and on a small part of the coast of Ayrshire. Less than 25 inches probably fell near Tarbat Ness, but the absolute minimum in this district is uncertain. In Ireland the least fall occurred on the coasts of Down and Louth, where slightly less than 30 inches fell, the smallest recorded value being 27·38 in. at Donaghadee.

Summary.

For the British Isles the wettest spot was almost certainly either the Stye or Llyn Llydaw, where the highest values recorded, 139 inches, were practically identical. The smallest fall for the year is more difficult to determine, but it probably occurred either round Tarbat Ness, on the north side of the Moray Firth, or in the north of Huntingdonshire, in both of which places the fall was less than 23 inches, and possibly less than 22 inches over very limited areas. The outstanding feature of the year was the extremely small area which received as much as 100 inches in either England, Wales or Scotland, and also the small area, relatively to the normal, over which so little as 25 inches fell.

BRITISH RAINFALL, 1915.
PART III.

GENERAL TABLE
OF
TOTAL RAINFALL IN 1915
AT
5412 STATIONS
IN
GREAT BRITAIN AND IRELAND,
WITH THE NAMES OF
THE OBSERVERS
OR OTHER AUTHORITIES FOR THE OBSERVATIONS.

COMPILED UNDER THE DIRECTION OF

HUGH ROBERT MILL,

Director,

BY

CARLE SALTER,

Assistant Director,

of the British Rainfall Organization,

62, CAMDEN SQUARE, LONDON, N.W.

EXPLANATORY NOTE.

The counties are divided up into numbered areas, corresponding to the river-basins. A full description of these river-divisions for England and Wales was given in a special article in Part I. of *British Rainfall, 1910*, (pp. 37—66), and a similar article on the river-divisions of Scotland and Ireland appeared in Part I. of *British Rainfall, 1911*, (pp. 49—72), with detailed maps showing all the river-divisions in each Division.

The Divisions in the General Table are the same as those adopted by the Registrars General of England and Scotland. The stations in each river-division are arranged nearly in the order of their latitude from South to North.

For convenience, the first name is that of a place which can be easily found on any large scale map; 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 (Courts Hill)” means Courts Hill, 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 gauges.

The letter D signifies that daily observations have been received. M indicates that the gauge is read only once a month. (R) denotes that the gauge used is a self-registering or a recording instrument, the correct reading of which depends upon the mechanism being in working order.

When the words *per* M.O. follow the name of the Observer the record is printed on the authority of the Meteorological Office. M.O.S. indicates Meteorological Office, Edinburgh, and S.M.S. Scottish Meteorological Society.

The total rainfall is printed in ordinary type under the heading of the unit in which the readings were made, *i.e.*, in inches or millimetres. The total as converted from inches to millimetres, or from millimetres to inches, is printed in old style type. If the record was taken during part of the year in inches and part in millimetres, the figures in both columns are printed in old style type.

A few entries of total rain will be found in italics—indicating that the values have been corrected, *e.g.*, when snow has been lost, when the amount for a short period has been computed from other records, or when the gauge has been moved a short distance during the year. The rule has been observed that a record is not printed if the gauge has been moved more than a mile, or if there is a greater difference than 50 feet of altitude between the two positions.

A dagger (†) denotes that the rain gauge has been visited and examined by the Editor or one of his assistants. A note of interrogation (?) implies doubt, not necessarily error; it is not intended to cast any suspicion on the accuracy of the Observer. The absence of information is indicated by ...

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ENGLAND AND WALES.

DIVISION I.—LONDON. (Area, 117 sq. mi.)

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above Ground		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
1.—THAMES—Right Bank Tributaries. 67 sq. mi.		in.	ft.	in.	feet.	mm.	inches.	
SOUTHWARK,								
D Walworth (Brettell Street)	Miss Moor	5	1	5	...	830	32·69	162
BERMONDSEY,								
D Shad Thames Pumping Station	London County Council...	6	28	5	43	687	27·04	142
D LAMBETH (Brockwell Park).....	" " " "	8	1	3	140	724	28·49	147
D " (Brixton Hill Res.) ...	Met. Water Board.....	5	3	2	115	741	29·17	168
BATTERSEA (Battersea Park) ...	London County Council...	5	9	8	23	777	30·58	...
† " (Water Works)	Mr. F. J. Goldsworthy...	5	3	6	26	681	26·82	...
D " Nine Elms (Heathwall)	London County Council...	8	39	4	54	689	27·11	160
WANDSWORTH,								
D† Streatham (Southwark W.W.)	Met. Water Board.....	5	4	1	120	721	28·38	148
D " " Hill Reservoir ...	" " " "	5	3	1	197	760	29·91	166
D† " (Putney Heath Reservoir) ...	" " " "	5	1	0	180	794	31·27	152
D " Roehampton (Highwood) ...	Mr. A. F. Jenner	5	1	0	100	773	30·43	138
D† " (Balham High Road)..... (R)	P. Dodd, Esq., C.E.	6	1	6	89	831	32·70	163
D " " Park Road)	Mrs. G. B. Latham	5	1	0	80	760	29·92	147
D " Wandsworth Com.(Patten Rd)	F. J. Brodie, Esq.....	5	1	0	100	738	29·06	146
D† " Southfields (Coronation Gdns.) (R)	P. Dodd, Esq., C.E.	6	1	6	37	798	31·42	152
" Clapham Com. (Macaulay Rd.)	Miss A. H. Boyson.....	5	1	0	75	783	30·81	139
" " " (The Chase) ...	H. N. Prentice, Esq.....	5	1	5	70	737	29·02	...
D CAMBERWELL, Dulwich Wood Pk.	W. Marriott, Esq.	5	1	0	250	806	31·73	156
D† " Nunhead (Southwark W.W.)	Met. Water Board.....	5	1	0	173	726	28·57	163
DEPTFORD (Telegraph Hill)	London County Council...	5	8	6	135	682	26·86	...
D† " (Kent Water Works)	Met. Water Board.....	5	1	0	20	731	28·79	143
GREENWICH								
† (Deptford Pumping Station)	London County Council...	10	4	0	18	818	32·19	...
D† " (Royal Observatory) No. 8	Sir F. W. Dyson, F.R.S...	8	1	0	150	763	30·04	156
D† " (" ") No. 6	" " " "	8	0	5	150	776	30·55	159

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 01 in. or more
		Diam. in.	Height Above Ground SeaLevel			1915		
			ft.	in.	feet.	mm.	inches.	
1.—THAMES—Right Bank Tributaries—(con.)								
LEWISHAM,								
Forest Hill (Barr Beacon)...	Met. Water Board.....	5	3	3	340	781	30.74	143
„ (Clarendon Road)	G. E. Dacey, Esq.	5	1	0	...	757	29.79	171
WOOLWICH, Eltham (High St.)...	Met. Water Board.....	5	1	0	245	733	28.87	142
„ Plumstead Com. (St. John's Rd.)...	J. G. Waller, Esq.	8	1	0	310	782	30.79	201
2.—THAMES—Left Bank Tributaries. 50 sq. mi.								
PADDINGTON (Harrow Road) ...	C. W. Heinemann, Esq....	8	1	0	101	824	32.46	158
KENSINGTON (V. & A. Museum).	J. Storr, Esq.	8	0	6	27	802	31.58	162
„ (Meteorological Office)	Meteorological Office	8	57	0	70	778	30.63	149
„ (Holland House) ...	Mr. C. Dixon	5	4	0	68	805	31.70	153
„ (Campden Hill) ...	Met. Water Board.....	8	1	0	142	840	33.06	151
HAMMERSMITH (The Creek).....	London County Council...	8	20	0	35	717	28.23	155
FULHAM (Acfold Road).....	Mrs. H. W. Carter	5	1	0	50	740	29.12	140
„ (Hammersmith Cemetery)	Mr. R. J. Brown	5	1	0	16	778	30.62	163
„ W. Kensington (Edith Rd.)...	G. Searle, Esq.	5	0	10	16	779	30.67	150
CHELSEA (Lots Road Pump. Stat.)...	London County Council...	8	33	6	54	671	26.40	146
„ (Western „ „)	„ „ „ „	8	1	0	19	747	29.41	151
„ (Physic Garden)	W. Hales, Esq.	5	1	0	20	761	29.96	154
„ (Oakley Street)	A. Hampton Brown, Esq.	5	1	0	25	761	29.95	155
„ (St. Luke's Gardens)...	T. W. E. Higgins, Esq. C.E.	5	1	0	25	812	31.95	163
WESTMINSTER								
„ (King's Scholars Pond)	London County Council...	8	11	6	31	781	30.76	160
„ (St. George's Square)	T. Taylor, Esq.	5	0	7	...	753	29.65	151
„ (Buckingham Palace)	Mr. W. Osborne.....	5	8	6	35	815	32.08	154
„ (Kensington Gardens)	Mr. W. Beecher.....	8	2	2	...	775	30.52	148
„ (St. James's Park) ...	HM Office of Works per MO	8	1	0	27	813	32.01	150
„ (Hyde Park)	Royal Humane Society...	8	1	3	...	762	30.01	...
„ (Spring Gardens) ... (1)	London County Council...	8	66	4	95	800	31.51	147
„ „ „ „ „ (2)	„ „ „ „	12	65	11	95	797	31.37	147
„ „ „ „ „ (3)	„ „ „ „	8	6	0	35	803	31.60	149
„ (Strand)	J. J. Steward, Esq.	5	40	0	80	846	33.31	138
ST. MARYLEBONE,								
Regent's Pk (R Botanic Gdns)	Mr. J. L. North.....	8	1	0	130	840	33.09	148
„ (33, Hamilton Terrace).....	E. Heron Allen, Esq.	5	0	6	...	815	32.10	...
„ (58, „ „ „)	Miss Cobb	5	0	11	125	781	30.75	144
„ (Ormond Terrace)	Mrs. Hamlyn Price	5	1	5	145	766	30.17	165
HAMPSTEAD (Barrow Hill Res.)...	Met. Water Board.....	5	3	4	197	818	32.22	154
„ (Kemplay Road) ..	C. Clarke, Esq.	5	2	0	...	803	31.62	...
„ (Kidderpore Res.)...	Met. Water Board	5	1	0	322	676	26.60	145
„ (New End Square)...	Mr. W. Pikesley	5	1	0	...	870	34.26	162
„ Observatory	E. L. Hawke, Esq.	8	1	0	451	912	35.90	153
ST. PANCRAS (Camden Square)	Dr. H. R. Mill	8	0	9	111	817	32.18	152
„ („ „ „) <i>Snowdon</i>	„ „ „ „	5	1	0	111	802	31.57	151
„ („ „ „) <i>weekly</i>	„ „ „ „	5	1	2	111	822	32.36	...
„ („ „ „) <i>Snow g.</i>	„ „ „ „	8	3	5	113	798	31.42	142
„ („ „ „) <i>float g. M</i>	„ „ „ „	8	0	11	111	809	31.84	...
STOKE NEWINGTON								
„ (New River Filter Beds)	Met. Water Board.....	5	1	0	101	802	31.57	144
„ „ „ „ „ Reservoirs)	„ „ „ „	5	1	0	105	842	33.17	157
HACKNEY (Clapton Pond) ... (R)	Norman Scorgie, Esq., C.E.	8	2	6	70	818	32.21	147

DIVISION I.—LONDON—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0·1 in. or more
		Diam. in.	Height Above Ground		Sea Level	1915		
			ft.	in.	feet.	mm.	inches.	
2.—THAMES—Left Bank Tributaries—(con.)								
† HOLBORN (Stone Yard).....	E. F. Spurrell, Esq.	5	12	0	89	893	35·16	...
D † FINSBURY (New River Head) ..	Met. Water Board.....	5	1	0	100	801	31·54	147
D CITY OF LONDON (Guildhall) ...	E. E. Finch, Esq., C.E. ..	8	51	0	95	816	32·11	153
D " " " " "	" " " " "	8	2	6	46	761	29·96	162
BETHNAL GREEN (Victoria Park)	London County Council...	5	9	3	43	670	26·36	...
D POPLAR, Isle of Dogs (Stewart Rd.)	" " " " "	8	1	0	15	749	29·48	157
D † " (Old Ford Pump Station)	Met. Water Board.....	8	0	9	19	746	29·36	151
D " (" " Penstock Ho.)	London County Council...	8	1	0	35	754	29·67	160
WOOLWICH (N. Woolwich Pumpg. Sta.)	" " " " "	8	0	9	12	751	29·57	...
D " (Barking Outfall) ...	" " " " "	8	0	6	6	722	28·44	159

DIVISION II.—SOUTH EASTERN COUNTIES.

SURREY. (Area, 725 sq. mi.)

1.—ARUN. 45 sq. mi.

† Haslemere (Clammer Hill)	Col. Farquhar Glennie.....	5	1	0	400	1126	44-33	159
" (Grayswood Tower)...	S. Barker, Esq.	5	1	0	625	1192	46-93	140
D Chiddingfold (Fairfield)	Miss H. F. Halahan	5	0	9	300	1027	40-42	139
Godalming (Rockwoods, Brook)	<i>Surrey Advertiser</i>.....	...	...	...	450	1066	41-99	...
D Witley (Ligbourne Court)	Mr. J. A. Murphy.....	5	1	0	250	1008	39-68	166
D Oakwood Vicarage.....	Rev. Canon J. Shearme...	5	0	9	285	923	36-34	157
D Abinger (Joldwynds, Holmbury)	Mr. F. Cornish	5	1	0	550	1033	40-67	159
2.—MEDWAY. 50 sq. mi.								
D† Dormans Park (Chartham Park)	Lieut. T. D. Margary ...	5	1	0	270	981	38-61	170
D† " (Hill Crest)	Mrs. H. R. Mill	5	1	0	340	1016	39-99	171
D Lyden Croft [Edenbridge]	Surg.-Gen. C. Plantk.....	8	1	0	212	939	36-97	172
D Oxted (Stone Hall)	W. P. Metcalfe, Esq.....	5	1	2	320	916	36-07	175
D Limpsfield (Ballards Shaw)	Mr. W. Hazelman.....	5	1	1	500	919	36-18	179
3.—THAMES—Darent. 22 sq. mi.								
Chelsham (Fairchildes)	A. S. Daniell, Esq.	8	1	0	600	1024	40-33	...
" (")	Mr. G. T. Mansfield	5	0	10	600	998	39-30	...
D Addington (Hares Bank Pump St.)	G. F. Carter, Esq., C.E....	5	1	0	331	868	34-18	166
D† " Hills Reservoir	F. C. Bayard, Esq.	8	0	9	473	871	34-31	177
D South Norwood (Holmesdale Road)	E. A. Martin, Esq.....	5	2	0	200	802	31-58	165
D " (Apsley Road) ...	W. H. Cullis, Esq.....	5	1	2	125	737	29-00	138
D Norwood (Auckland Road)	Miss J. Cooper	5	1	5	230	709	27-92	145
D Penge Recreation Ground.....	H. W. Longdin, Esq., C.E.	5	1	6	120	770	30-31	142
4.—THAMES—Wandle. 71 sq. mi.								
D Kingswood (Margery Hall Res.)	W. Vaux Graham, Esq. C.E.	5	1	0	691	958	37-73	146
D Upper Gatton	F. Druce, Esq.	5	1	0	601	947	37-27	160
Woldingham Reservoir	W. Vaux Graham, Esq... 5	1	6	851	959	37-76	...	
D Caterham Reservoir	A. E. Cornwall-Walker Esq	5	1	0	705	1093	43-04	191
D Chaldon Rectory	F. C. Bayard, Esq.	5	1	0	542	1014	39-94	136
D Chipstead (Eghurst)	D. Morphew, Esq.....	5	0	11	538	904	35-57	161
D " (Dial Cottage)	F. C. Bayard, Esq.	5	1	0	550	924	36-39	145
D Caterham Asylum	" " "	5	1	0	607	1023	40-29	169
D Chelsham & Woldingham W.W.	W. Vaux Graham, Esq... 5	1	0	479	1003	39-50	153	
D Warlingham (The Larches)	Mrs. B. F. Harris	5	1	0	615	1082	42-61	181

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0·1 in. or more
		Diam.	Height Above		1915			
			Ground	Sea Level	mm.	inches.		
SURREY—(con.)								
4.—THAMES—Wandle—(con.)								
D Warlingham (Redvers Road) ...	R. H. Curtis, Esq.	8	1	0	610	1050	41·34	178
D Caterham Valley (Mount Vernon)	M. L. Evans, Esq.	5	0	10	500	1085	42·73	169
D " " Depôt	AECornwall-Walker Esq	5	1	6	431	1042	41·01	184
D Netherne (Surrey County Asylum)	F. C. Bayard, Esq. ...	5	1	0	560	961	37·83	159
D Banstead (Burgh Heath)	Capt. E. R. Taylor	5	1	0	571	982	38·64	165
D " " " Reservoir	W. Vaux Graham, Esq C.E.	5	1	0	570	974	38·34	155
D Chipstead (The Lodge)	F. E. Goad, Esq.	5	0	9	558	1021	40·18	170
D " " (How Green Reservoir)	W. Vaux Graham, Esq C.E.	5	1	0	528	978	38·51	158
D Kenley (Elmhurst)	Mrs. Jay Jones	5	0	8	430	991	39·01	162
D " " (Shord Hill)	A. Wildy, Esq.	5	0	10	450	962	37·86	166
D " " Pumping Station	AECornwall-Walker Esq	5	1	6	275	931	36·67	177
D Purley (Oakwood Avenue)	E. W. Finch, Esq.	5	0	10	380	867	34·13	166
D " " (Riddlesdown Road) No.1	J. Edmund Clark, Esq. ...	5	1	0	360	909	35·78	183
D " " " " " No.2	" " " " " " " " " " "	5	1	0	360	904	35·57	181
D " " (Pumping Station)	AECornwall-Walker Esq	5	1	0	215	867	34·12	174
D Sanderstead (Beechwood Road)..	E. Alexander, Esq.	5	1	0	370	888	34·96	164
D South Croydon (Avondale Road)	Dr. G. J. Hinde, F.R.S. .	5	1	0	225	897	35·32	179
D Wallington (Alcester Road)	F. C. Bayard, Esq.	5	4	1	140	867	34·15	179
D " " " " " " " " " " "	" " " " " " " " " " "	8	1	0	140	855	33·66	181
D Carshalton (Sewage Works)	Baldwin Latham Esq. C.E.	5	1	0	118	778	30·64	141
D Beddington (Sewage Farm)	G. F. Carter, Esq., C.E. ...	5	1	0	129	725	28·56	152
D Croydon (Croham Manor Road)..	F. C. Bayard, Esq.	5	1	0	318	942	37·07	159
D " " (Edridge Road)	" " " " " " " " " " "	5	1	0	190	817	32·15	162
D " " (Waddon New Road)..	G. Corden, Esq.	5	1	0	146	849	33·41	152
D " " (Park Hill House)	Baldwin Latham Esq., C.E.	8	1	0	265	875	34·45	175
D Beddington Corner (Millgreen Rd)	F. C. Bayard, Esq.	5	5	0	77	799	31·44	152
D Wimbledon (Kingston Road) ...	H. A. Marshall, Esq.	5	1	0	54	829	32·65	165
D " " (Trinity Road)	P. J. Bevan, Esq., C.E. ...	5	1	0	53	800	31·48	140
D " " (Sewage Works)	C. H. Cooper, Esq., C.E. ...	5	1	0	55	746	29·37	148
5.—THAMES—Mole & c. 229 sq. mi.								
Lowfield Heath (Hunts Green Ho.)	A. E. Robinson, Esq. ...	5	0	7	200	995	39·17	148
D Charlwood (Greenings)	A. J. Innes, Esq.	5	1	0	300	941	37·04	142
D Outwood (The Orchards)	F. C. Bayard, Esq.	5	1	0	280	884	34·80	163
Dorking (Stone House, Rose Hill)	Lt.-Col. J. R. Greenhill..	5	1	0	240	1082	42·59	...
D " " (West Street)	Mrs. W. A. Marsh	8	26	0	224	950	37·41	...
D " " (High Street)	S. B. Wilson, Esq.	5	0	5	235	1103	43·41	150
D† " " (Denbies)	Mr. J. Ansell	5	0	9	610	1088	42·82	168
D† " " (Pixham Firs)	J. Croft Deverell, Esq. ...	8	0	6	150	1026	40·39	178
D† Brookham (North Lodge)	H. R. Kempe, Esq., C.E. ...	5	0	9	160	975	38·38	154
D Reigate (Hartswood)	R. W. Clutton, Esq.	5	1	0	174	913	35·94	174
D South Nutfield (Hale Edge)	R. C. Grant, Esq.	5	1	0	270	878	34·55	160
D Earlswood (Sewage Farm)	F. T. Clayton, Esq., C.E.	5	1	6	196	862	33·95	143
D Redhill (Station Road)	W. H. Fowler, Esq.	5	18	0	270	900	35·44	144
D " " (Wigmore)	W. A. Gunner, Esq.	5	1	0	250	929	36·59	162
D " " (Warwick Road)	AECornwall-Walker Esq	5	1	6	284	920	36·22	169
D† Reigate (The Gas Works)	F. C. Bayard, Esq.	10	1	0	275	902	35·51	168
D " " (The Knowle)	G. Weston, Esq.	5	1	0	390	907	35·72	161
D† " " (Wray Lodge)	A. Rosling, Esq.	5	1	0	316	935	36·81	153
D† " " (" " Park Road)	Mr. F. W. Hedges	5	1	0	281	931	36·64	153

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground [SeaLevel]			1915		
		in.	ft.	in.	feet.	mm.	inches.	
SURREY—(con.)								
5.—THAMES—Mole & c—(con.)								
Reigate (Castle Grounds)	F. T. Clayton, Esq., C.E.	5	1	6	350	833	32.79	170
" (Castle Keep)	E. H. Goad, Esq.	5	0	7	...	898	35.35	...
" (Northcote)	Mr. H. Tanner	5	1	3	364	946	37.26	152
" (Laglands)	J. Welch, Esq.	5	1	2	375	938	36.95	153
" (Courleigh Lane)	T. S. Marriage, Esq.	5	0	6	400	935	36.80	145
Nutfield Priory	Mrs. Fielden	8	1	2	468	895	35.23	201
"	Mr. J. Moffatt	8	1	2	331	980	38.59	191
" (Holmesdale)	C. Trentham Maw, Esq.	8	3	0	500	935	36.82	161
Bletchingley (South Park Farm)	W. Lambert, Esq.	5	0	4	340	962	37.86	155
Betchworth (Snower Hill)	T. Du Buisson, Esq.	8	0	9	250	931	36.67	171
" (Sandhills)	C. J. Whittington, Esq.	5	1	0	250	938	36.91	136
" (The Holmes)	F. R. Rushton, Esq.	5	0	8	322	984	38.74	166
Buckland (The White House)	J. Herbert Scrutton, Esq.	8	1	0	260	1007	39.65	161
Great Bookham (Polesden Lacey)	Mr. R. Davidson	420	1054	41.50	201
Mickleham (Juniper Hall)	G. MacAndrew, Esq.	5	1	0	183	1029	40.52	...
" (Norbury Park)	Mr. G. Kent	8	1	0	500	968	38.12	...
Headley (The Hurst)	Mrs. Lyall	5	1	3	420	987	38.86	144
Walton-on-the-Hill (Walton Manor)	Mr. J. Millichamp	5	1	0	600	954	37.56	156
Tadworth (Warren Gate)	W. J. Saunders, Esq.	5	1	6	577	909	35.78	159
Ashted (D'Abernon Chase)	F. C. Bayard, Esq.	5	1	0	280	856	33.70	...
" (Barnet Wood Lane)	Rev. T. E. R. Phillips	5	1	0	173	835	32.87	157
" (Oakfield Road)	H. F. Acocks, Esq.	5	1	4	187	841	33.10	150
" (The Hut)	F. C. Bayard, Esq.	5	0	5	200	839	33.03	154
Cobham (Hatchford Park)	Sir H. B. Samuelson, Bart.	5	1	0	170	1027	40.44	151
Banstead (The Hall)	F. C. Bayard, Esq.	8	1	0	480	946	37.24	160
Epsom (The Durdans)	J. Barclay, Esq.	8	0	11	217	884	34.79	154
Cobham (Fairmile Hatch)	Surrey Advertiser	150	801	31.54	...
Weybridge (Burcote)	Mrs. C. Sanger	5	0	9	117	838	33.00	161
Sutton (Camborne Road)	F. E. Wright, Esq.	5	1	0	250	860	33.87	160
Claygate (Hertslets)	N. C. Armitage, Esq.	5	1	0	106	794	31.28	177
Esher (Sewage Works)	F. C. Bayard, Esq.	5	1	0	42	769	30.27	151
Sutton (High School, Cheam Rd.)	Miss R. Marsden	5	1	0	197	750	29.52	147
" (Water Works)	W. Vaux Graham, Esq. C.E.	5	1	6	166	804	31.66	152
" (Sewage Works)	W. H. Grieves, Esq., C.E.	8	1	0	100	950	37.39	146
Surbiton (Seething Wells)	Met. Water Board	5	0	10	34	758	29.85	159
Walton-on-Thames (Ashdown)	R. H. Spens, Esq.	5	0	4	...	853	33.60	...
East Molesey (Ember House)	Wilfrid Taylor, Esq.	5	1	0	30	824	32.46	148
West Molesey (Walton Works)	Met. Water Board	5	0	6	35	783	30.82	149
New Malden (Edenfield)	W. J. Carter, Esq.	5	1	0	40	784	30.88	153
Kingston (Palace Road)	No. 1 Charles Price, Esq.	5	0	10	...	805	31.68	148
" "	No. 2	5	0	10	...	808	31.82	149
" (County Hall)	E. Underwood, Esq.	5	0	9	31	818	32.21	140
" Sewage Works	F. C. Bayard, Esq.	5	1	0	25	888	34.98	151
" (Union Street)	Mr. T. Davis	8	3	0	26	846	33.32	150
Wimbledon (Raynes Park)	Messrs. J. Carter & Co.	8	1	0	75	742	29.23	161
" " (Pump St.)	C. H. Cooper, Esq., C.E.	5	1	0	50	775	30.50	151
" (Worple Road)	N. Langsmith, Esq.	5	1	1	100	773	30.44	154
" (Merton Hall Road)	Rev. J. A. Barrow-Clough	5	0	8	...	767	30.18	153
" Com. (The Corner Cottage)	R. A. S. Mackenzie, Esq.	5						

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above Ground. SeaLevel			1915		
		in.	ft.	in.	feet.	mm.	inches.	
SURREY—(con.)								
5.—THAMES—Mole & c.—(con.)								
D Wimbledon (The Downs)	F. C. Bayard, Esq.	5	1	1	162	802	31.56	165
D† Richmond (The Terrace)	" " " "	8	1	6	109	783	30.81	149
D " (The Old Palace)	Rev. A. "Welsh" Owen.	8	0	9	...	790	31.11	155
† " (Kew Observatory) (R)	Meteorological Office	11	1	9	20	835	32.86	155
D† " (" " ")	" " " "	8	1	0	20	805	31.70	158
6.—THAMES—Wey. 236 sq. mi.								
Haslemere (Whitwell Hatch) ...	Marquis of Sligo	5	1	6	680	1179	46.43	...
D† " (Courts Hill)	Mr. E. Biles	8	4	8	481	1187	46.72	172
D " (Altyre)	A. G. Whitcher, Esq. ...	5	1	0	552	1157	45.54	171
D " (Frensham Hall) No.1	Samuel Kevan, Esq.	5	0	9	475	1150	45.28	147
D " (" " ") No.2	" " " "	5	2	3	625	1139	44.85	139
D " (Beech Road)	Nelson K. Cherrill, Esq....	5	0	9	540	1175	46.25	170
D† " (Hazelhurst)	Mrs. T. P. Newman	5	1	0	550	1185	46.64	178
D† Hindhead (Stoatley Hall)	Mr. H. Simmons	5	1	0	800	1159	45.64	147
D Churt (Furze Hills)	Rev. Clements G. O. Bond	5	1	6	390	1062	41.80	165
Witley (Sandhills)	L. W. Lodge, Esq.	8	1	0	450	1057	41.63	176
D " (King Edward's School) ..	J. Wood, Esq.	5	1	3	330	991	39.03	200
D " (Great Roke)	Mrs. Dixon	5	6	0	300	964	37.94	166
D " (The Mount)	Mrs. J. H. Foster	5	1	0	375	1033	40.68	180
D Hascombe Place	C. T. Musgrave, Esq.	8	1	0	390	1007	39.66	149
Cranleigh (Stonewall)	W. Welch, Esq.	5	1	0	182	967	38.06	...
D Bramley (Grafham Grange)	S. A. Shepherd, Esq.	8	0	4	180	948	37.32	150
D Godalming (Ockford House) ...	Hon. A. J. Davey	5	1	0	230	954	37.55	151
D Ewhurst (Downhurst Lodge) ...	Mr. W. Bradfield	5	1	0	350	993	39.09	173
D " (Garlands)	G. Johnston, Esq.	5	2	6	360	1014	39.92	159
D " (Coneyhurst)	Mr. J. Russell	8	1	0	581	959	37.74	168
D " (Woolpit)	Mr. H. W. Perrin	8	1	6	600	970	38.19	...
Shamley Green (Lee Crouch) ...	P. E. W. Street, Esq.	5	1	0	165	953	37.52	168
D Godalming (Charterhouse)	O. H. Latter, Esq.	5	1	0	315	965	37.98	184
D Peper Harow (Glebe House)	George Marsh, Esq.	5	1	0	200	983	38.69	138
Shackleford (Hall Place)	Surrey Advertiser .....	...	...	...	...	891	35.07	...
D Peaslake (Southcoats)	H. M. Gregory, Esq.	5	0	10	450	1114	43.84	170
D Bramley (The Limes)	Rev. C. J. Etty	5	1	0	136	975	38.40	151
Wonersh (Little Tangle)	Mr. H. Crane	5	1	0	200	931	36.64	150
D Farnham (Charleshill)	Mrs. Oliver	5	1	0	230	895	35.25	164
D Shere (Burrows Lea)	Miss Barnard	8	1	0	400	978	38.49	184
D " (Coombe End)	Bertram Warren, Esq. ...	8	1	3	286	976	38.43	147
D " (Manor House)	Sir R. A. Bray	5	1	0	350	1006	39.62	163
Albury (Dalton Hill Gardens) ...	Surrey Advertiser .....	...	...	...	...	871	34.28	...
Abinger (Feldemore)	E. Waterhouse, Esq.	5	3	6	505	1060	41.74	160
D " Rectory	Miss Brodie Hall	5	1	0	381	1068	42.04	164
Compton (Berthorpe)	Surrey Advertiser .....	...	...	...	...	907	35.71	176
D Farnham (Crooksbury Ridges) ...	F. R. Walters, Esq. M.D. ...	5	1	4	440	947	37.27	179
D " (High Park Road)	V. B. Longhurst, Esq.	5	1	1	260	989	38.94	169
D " (Short Heath)	Morris Birkbeck, Esq.	5	1	0	352	973	38.32	173
D " (" " " Lodge)	Col. G. Chrystie	5	1	0	365	946	37.24	170
Seale (Great Down)	Mrs. Kitchin	12	1	0	470	880	34.65	...
D " (Poylehill House)	C. B. Penlington, Esq., C.E.	5	0	9	401	952	37.46	171
Gomshall (The Croft)	Surrey Advertiser .....	...	...	...	...	1052	41.41	...

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.		Depth of Rain.		Days with "01 in. or more	
		Diam. in.	Height Above Ground ft. in. SeaLevel feet.	1915			
SURREY—(con.)							
6.—THAMES—Wey—(con.)							
D Guildford (Piccard's Rough) ..	H. A. Powell, Esq., M.D.	5	6 0	330	816	32-12	145
" (Briarfield)	Miss M. E. Swaine	5	2 6	300	950	37-40	...
" (Waterden Road)	<i>Surrey Advertiser</i> .....	...	...	...	926	36-45	151
" (Roy. Grammar Sch.)	H. N. Weller, Esq.	5	1 2	200	880	34-65	...
D " (Newlands Corner)	Mr. H. Tann	5	1 6	550	944	37-17	169
D " (Cross Lanes)	F. F. Smallpeice, Esq.	5	0 8	200	887	34-92	155
D Merrow (Craigie)	Miss Lomer	5	0 9	250	867	34-12	153
" (") <i>Paddock</i>	" "	5	0 9	250	892	35-12	153
High Clandon	F. B. Eastwood, Esq.	5	0 6	500	1024	40-32	...
D Horsley Towers	The Earl of Lovelace	8	1 2	285	1066	41-96	174
D " (Woodcote Lodge)	late Sir H. E. Roscoe	7	0 6	620	1048	41-25	163
Worplesdon (Perry Hill School).	<i>Surrey Advertiser</i> .....	...	...	...	853	33-60	...
Send (Sendholme) .....	" " .....	...	...	...	881	34-71	...
D Ripley (Dunsborough House) ..	C. F. M. Cleverly, Esq.	5	1 6	70	831	32-71	147
D Mayford	A. R. Ricardo, Esq.	5	1 4	145	864	34-01	139
D Woking (Hook Heath)	W. S. Patterson, Esq.	5	1 0	160	851	33-52	159
D " (The Grange)	Rev. F. Wilson	5	0 8	78	853	33-59	183
" (The Green)	Mrs. Howlett	5	0 9	136	843	33-20	138
" (Normanhurst)	George Duffas, Esq.	5	1 0	200	891	35-08	...
D Pyrford (Pyrford Croft)	H. W. Page Phillips, Esq.	5	1 6	100	869	34-20	167
D " (Southbourne)	C. Echlin Gerahty, Esq.	5	1 0	100	854	33-61	162
D Maybury (Maybury Lodge)	F. C. Bayard, Esq.	5	1 0	115	846	33-31	144
D Horsell (The Vicarage)	Rev. Norman Pares	5	1 9	140	839	33-03	159
D " (Kettlewell Hill)	Claude Marzetti, Esq.	5	0 9	115	877	34-54	169
D Wisley (R.H.S. Gardens)	S. T. Wright, Esq.	8	1 0	150	820	32-29	152
D " (West Hall Gardens)	Mr. G. Carpenter	5	1 6	61	835	32-88	140
D West Byfleet (Kilmeena)	F. Littleboy, Esq.	5	1 0	100	868	34-19	166
D " (Hollywood)	Allanson Bailey, Esq.	5	1 1	100	856	33-68	165
D Byfleet (Woodbine Cottage)	J. E. Dowell, Esq.	5	1 1	59	832	32-77	156
D " Rectory	Rev. G. E. Money	8	0 11	50	920	36-21	169
D Weybridge (St. George's Hill) ..	H. J. Bond, Esq.	5	0 8	150	791	31-13	154
" (Field Place) M	Mrs. Yool	5	1 0	109	818	32-19	...
D " (Heath Field)	Miss A. T. Gardiner ..	5	1 0	100	870	34-26	174
D " (West Oaks)	A. Whittet, Esq.	5	1 0	36	808	31-82	158
D " (Lyncroft)	Maj.-Gen. J. P. Battersby	5	0 10	70	747	29-42	148
" (Fairhaven)	Commander C. Paget, R.N.	5	0 10	60	882	34-74	175
7.—THAMES—Bourne. 55 sq. mi.							
D Brookwood (Knapp Hill)	Mr. G. C. H. Simmonds ..	5	1 0	181	949	37-35	172
" (" , Lynbrook)	C. Wigan, Esq.	5	1 8	200	900	35-45	160
D Chobham (Sandpit Hall)	K. A. H. Power, Esq.	5	1 0	100	929	36-58	173
D " (Chobham House)	Miss C. M. Perceval	5	2 0	80	1009	39-71	157
D " (The Manor House)	F. A. Walter, Esq.	5	1 0	150	925	36-40	156
Bagshot (Pennyhill Park)	<i>Surrey Advertiser</i> .....	...	...	...	974	38-34	...
D Chertsey (Ottershaw)	Mrs. R. H. Otter	5	1 0	200	940	37-00	174
" (Long Cross)	F. A. Baker, Esq.	5	3 0	205	833	32-79	...
D " (Botleys Park Gardens)	H. Gosling, Esq.	5	1 5	111	909	35-78	156
D† Sunningdale (The Camp)	Lady Hooker	5	1 2	252	1070	42-14	161
D Virginia Water (St. Ann's Heath)	Rev. J. Peck	8	1 1	120	839	33-02	157
D Egham Park	J. R. FitzGerald, Esq.	5	0 11	150	916	36-05	153

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0·1 in. or more
		Diam.	Height Above Ground, Sea Level			1915		
		in.	ft.	in.	feet.	mm.	inches.	
SURREY—(con.)								
7.—THAMES—Bourne—(con.) Englefield Green (Queenswood)..	W. G. Rigden, Esq.	8	2	0	200	958	37·71	165
8.—THAMES—Loddon. 17 sq. mi. D Frimley Green Waterworks ...	F. J. Garland, Esq.	5	2	6	220	854	33·61	145
" " (Brompton San.)..	G. W. Smith, Esq.	5	0	4	380	980	38·59	169
" " (Ridgemount) ...	C. C. Haviland, Esq.....	5	0	9	350	973	38·32	192
" " (Tomlinscote)	Mr. T. Dawson	5	1	9	200	977	38·46	185
d Camberley (Springfield Lodge)..	Lt.-Col. A. de B. V. Paget	5	1	6	350	920	36·20	153
KENT. (Area, 1532 sq. mi.)								
1.—ROTHER & C. 217 sq. mi. D Hawkhurst (Hensill).....	F. Ross Thomson, Esq....	5	3	0	200	925	36·41	141
Tenterden (Summerhill)	Mrs. Wilkin	8	1	0	150	846	33·31	163
" " (Ashenden)	" " "	5	1	0	150	881	34·70	163
" " (View Tower)	Major Herbert Neve	5	1	0	190	841	33·12	151
" " (" ") Snowdon	J. Ellis Mace, Esq.	8	1	5	190	893	35·16	177
" " (" ")	" " "	8	1	5	190	878	34·58	170
Cranbrook (Hartley)	G. Pile, Esq.	5	1	3	405	979	38·54	...
d High Halden (Marland*)	R. Matthews, Esq.	5	1	0	...	901	35·46	179
Biddenden (Sandpit Wood)	J. Ellis Mace, Esq.	5	1	0	218	950	37·42	...
Dungeness	Meteorological Office	8	1	3	21	817	32·15	149
D Hythe	C. Jones, Esq., C.E.	5	1	0	11	945	37·22	174
" (Sandling Park).....	Rt. Hon. L. Hardy, M.P.	8	1	0	260	910	35·84	153
Sandgate.	D. V. Howard, Esq., C.E.	5	1	6	52	916	36·08	156
d Folkestone (BoroughSanatorium)	A. E. Nichols, Esq., C.E.	5	1	0	102	1018	40·09	175
" (Cheriton Road)	J. Duncan Walker, Esq.	5	1	0	160	977	39·65	178
" (Cherry Gardens) ...	H. Turner, Esq.....	5	1	6	230	1020	40·15	166
" (LowerStanden,Capel)	" " "	5	2	11	250	1044	41·12	157
Dover	W.C.Hawke, Esq. per M.O.	8	1	0	231	976	38·41	185
" (Water Works)	" " "	5	1	6	200	1032	40·62	143
d Kearsney (Chilton Farm)	" " "	5	1	6	127	1035	40·74	148
2.—STOUR & C. 386 sq. mi.								
d Lyminge (Elham Valley W.W.)	H. E. Stilgoe, Esq., C.E.	5	1	6	450	848	33·39	163
d Ashford (Oakwood)	H. F. Horsnail, Esq.....	5	1	4	170	898	35·35	150
d Dover(MartinMill PumpingStat.)	L. Holman, Esq.	5	11	0	298	844	33·24	147
d Wye (S.E. Agricultural College)	H. C. Chapelow, Esq.....	8	1	0	150	928	36·55	162
" (Bilting House)	Capt. W. W. Knight.....	5	1	3	158	1010	39·78	180
Ashford (Eastwell ParkGdns.)(R)	Mr. J. G. Weston	10	3	6	410	898	35·37	155
Charing Pumping Station.....	L. Holman, Esq.	5	1	0	593	856	33·71	...
Deal and Walmer W.W. M	A. Mantle, Esq.	12	1	0	110	912	35·90	...
" " " "	" " "	5	1	0	110	911	35·88	161
d Kingston Rectory	Rev. F. N. Style	5	1	0	165	946	37·23	...
" (Ileden)	E. H. French, Esq., C.B.	5	2	0	200	959	37·75	...
Eastry (Brewery)	T. Nevill Cheatle, Esq....	5	0	10	85	886	34·88	...
d Sandwich (Upton House, Word)	Capt. W. Elwin Napier...	5	1	0	32	837	32·94	156
d Chilham (Lower Ensden)	F. Ivo Neame, Esq.	5	4	10	223	850	33·47	174
Wingham (Margate W.W.)	Mr. W. R. Hosking	5	1	0	138	875	34·46	153
Sandwich (St.George's Golf Club)	W.RyderRichardson, Esq.	6	1	1	3	752	29·60	168
" (The Dunes)	SirJ.B.Lonsdale, Bt., M.P.	709	27·90	136

* Formerly called Beryl Lodge.

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0·1 in. or more
		Diam.	Height Above			1915		
			Ground	SeaLevel		mm.	inches.	
		in.	ft.	in.	feet.			
KENT—(con.)								
2.—STOUR & C.—(con.)								
d Canterbury (Oaten Hill House) ..	Miss Carr	5	1	3	50	858	33·79	162
„ „ (Irrigation Works) ..	C. Terry, Esq., C.E.	5	2	6	15	872	34·34	174
d „ „ (St. Thomas' Hill) ..	J. Spillett, Esq.	5	0	6	230	894	35·21	151
d Wickhambreux (The Willows) ..	A. Baird, Esq.	5	0	8	22	784	30·85	191
Minster (Gas Works).....	W. Thomson, Esq., C.E....	5	1	0	60	713	28·07	...
d Ramsgate (Southwood W.W.)...	„ „ „ „ „ „	8	1	0	169	756	29·76	163
d† „ „ (Archer House)	Miss L. M. Wainwright..	5	0	11	75	751	29·55	155
d† Broadstairs (Providence House).	Cecil Hamersley, Esq.....	5	2	0	50	775	30·52	170
d Reculver	Allington Collard, Esq....	5	5	2	27	652	25·66	156
d† St. Peter's	Rev. H. C. V. Snowden....	5	0	9	140	712	28·05	170
d† „ „ „ Court.....	A. J. Richardson, Esq....	5	1	0	135	739	29·11	171
d Birchington (Hollydene)	W. Tomlin, Esq., Junr....	6	6	0	75	676	26·63	145
d† „ „ „ (Rose Bank).....	Mr. G. Hore	5	5	0	45	703	27·67	153
† „ „ „ (Fernleigh)	R. Grant, Esq.	5	1	0	40	698	27·46	170
d Westgate-on-Sea (Garlinge) ...	D. W. Horner, Esq.	5	1	5	75	710	27·97	176
† Kingsgate (White Ness)	Mr. T. Tullett	5	3	0	98	769	30·28	151
d Margate (Cliftonville)	C. J. Pemble, Esq.....	5	1	0	53	618	24·35	149
3.—SWALE & C. 167 sq. mi.								
d Selling (Luton)	F. Ivo Neame, Esq.	5	4	9	263	1015	39·96	193
d „ „ (Harefield).....	Sidney Neame, Esq.	5	4	6	219	1008	39·70	202
d Boughton-under-Blean Vicarage	Rev. W. H. Rammell....	5	2	4	116	817	32·18	168
d Ospringe (Lorenden)	Walter C. Stunt, Esq....	5	1	6	180	912	35·92	163
d Teynham (New Gardens)	Col. J. F. Honeyball	5	1	5	30	866	34·10	154
d Faversham (Uplees Marshes) ...	W. J. Wright, Esq.	5	4	4	9	644	25·34	145
d Whitstable (Western House) No.1	J. W. Hayward, Esq.	5	0	10	17	703	27·67	161
d „ „ „ „ „ „ No.2	„ „ „ „ „ „	5	0	11	17	718	28·25	160
Herne Bay (Water Works)	J. Roberts, Esq.....	5	0	6	122	728	28·65	...
† Sheppey (Eastchurch, Old Rides)	H. C. Warren, Esq.	5	2	0	40	770	30·32	...
d Sheerness (Rock House)	F. D. Stallon, Esq.	5	1	0	9	545	21·47	161
4.—MEDWAY. 506 sq. mi.								
d Woodchurch (Hengherst).....	Capt. Somerset Webb....	5	1	0	152	799	31·44	177
d Kilndown School)	J. A. Ager, Esq.	5	1	0	365	1000	39·38	163
Scotney Castle	E. W. Hussey, Esq.....	5	3	9	203	975	38·39	...
Cranbrook (Camden Lodge)	Kentish Express	5	1	0	276	1010	39·75	159
d Goudhurst (Finchcocks)	Mr. C. R. Pratt	5	2	1	155	1020	40·14	172
d „ „ (Maypole)	G. Parker Hinds, Esq....	8	1	8	412	984	38·76	139
d „ „ (Lidwells)	Rev. H. P. FitzGerald...	5	1	0	260	979	38·55	163
d „ „ (Brandfold).....	Dr. Douglas	5	2	0	238	1059	41·69	169
d „ „ (Gore Court)	J. A. Druce, Esq.	5	1	0	196	973	38·29	157
d Horsmonden (Broad Ford House)	Mrs. L. E. Maude	5	1	0	96	998	39·31	181
d Tunbridge Wells (Hawkenbury)	D. W. Horner, Esq.	5	1	6	435	940	37·02	166
d „ „ „ (Calverley Park)	Dr. F. C. Linton	5	1	0	356	893	35·15	162
d „ „ „ (Courtlands)(R)	E. Weldon, Esq.	8	5	6	470	968	38·10	151
d† Speldhurst (Etherton Hill)	E. W. Winton, Esq.....	5	1	5	282	960	37·78	170
d Pembury Waterworks	W. H. Maxwell, Esq., C.E.	8	1	8	196	942	37·10	156
d „ „ (Brackenhurst)	J. Gurney Fowler, Esq...	5	1	0	416	982	38·66	195
d Paddock Wood (Matfield Grange)	J. A. Perkin, Esq.....	5	0	9	370	979	38·56	166
d „ „ „ („ „)	D'Arcy W. Reeve, Esq....	5	1	0	321	970	38·21	169

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above		1915			
			Ground	Sea Level				
		in.	ft.	in.	feet.	mm.	inches.	
KENT—(con.)								
4.—MEDWAY—(con.)								
D Southborough (The Old Hall) ...	G. H. Beecheno, Esq. ...	5	1	0	375	910	35.82	145
D „ (The Hall)	late Rev. G. A. Robins...	5	3	0	400	964	37.95	160
D Edenbridge (Falconhurst)	Hon. Mrs. John Talbot...	5	1	3	400	977	38.45	153
D Markbeece (Edells)	Miss M. F. Pearse	5	1	0	320	808	31.80	172
D „ (High Buckhurst)...	Edmund Dean, Esq.	5	1	0	400	892	35.10	169
D Chiddingstone Hoath (Truggers)	Alsager Vian, Esq.	5	0	8	350	901	35.46	185
Staplehurst (Coppwilliam Farm)	J. Norris, Esq.	5	1	4	100	891	35.09	159
D Penshurst (The Quarry House)...	Louis E. Wood, Esq.	8	1	0	206	861	33.89	161
D „ (Petre's Field)	„ „ „	5	1	0	151	858	33.80	173
D „ („ „) weekly	„ „ „	5	1	0	151	860	33.85	...
D „ Park	Mr. J. M. Sturgess	5	0	9	265	805	31.68	159
D Tonbridge (Mabledon Park).....	J. F. W. Deacon, Esq.	5	1	2	190	889	35.01	156
D „ (Brooklands)	G. J. Kimmins, Esq.	5	0	10	120	886	34.89	165
D „ (The Manor House)...	M. S. David, Esq.	5	1	1	135	845	33.28	171
D „ (Pinnacles)	A. H. Neve, Esq.	5	1	0	140	838	33.01	170
D „ („)	M „ „ „	5	1	0	140	837	32.94	...
D Hadlow Place	C. J. G. Hulkes, Esq.	5	1	0	80	819	32.24	197
D „ (Golden Green)	F. W. E. Shrivell, Esq.	5	1	0	100	820	32.27	177
D Hildenborough (Hollanden Ho.)...	C. H. Scott, Esq.	8	1	0	100	809	31.85	164
Edenbridge (Crockham Hill) ...	E. C. Ouvry, Esq.	5	1	0	705	935	36.81	139
D Ulcombe Place	A. O. Walker, Esq.	5	1	0	350	834	32.85	173
D Linton Park	Mr. C. Pratt	5	0	8	...	848	33.38	169
D Langley (Rumwood Court)	Mr. W. J. Gould	5	1	9	354	849	33.43	173
D Otham (Synyards)	Ambrose Boyson, Esq.	5	1	0	315	881	34.67	183
D Leeds (Schoolhouse)	H. E. Bridge, Esq.	5	1	0	217	784	30.85	193
Wateringbury (The Limes)	Alan Lambert, Esq.	5	3	0	130	782	30.79	...
Lenham (The White Cottage) ...	Harold King, Esq.	5	0	11	610	1053	41.44	...
D† Sevenoaks (River Hill).....	Lt.-Col. J. M. Rogers, D.S.O.	8	4	0	535	842	33.15	165
D „ (Soar Farm, Plaxtol)	H. Stonham, Esq.	5	3	0	300	872	34.35	159
D Maidstone (Lower Tovil)	Lawrence Green, Esq.	5	1	0	30	825	32.47	182
D „ (W.W., Barming) ...	W. J. Ware, Esq., C.E.	8	1	6	250	837	32.95	167
D† „ (Brenchley Gardens)...	T. F. Bunting, Esq., C.E.	5	0	9	50	830	32.66	178
D† „ (Mill Street).....	„ „ „	8	6	0	38	827	32.55	173
D East Malling (Broadwater)	C. B. Mercer, Esq.	5	1	6	169	872	34.32	179
D West Malling (St. Leonards) ...	G. Phillips, Esq.	5	1	0	...	902	35.53	163
Maidstone (Allington Lock)	Mr. W. Smith	5	1	0	45	832	32.77	166
D „ („ Nursery)...	Messrs. G. Bunyard & Co.	5	1	6	112	881	34.67	187
D† Detling (The Croft)	R. Cooke, Esq.	5	1	2	330	936	36.86	198
D „ („ „)	„ „ „	5	1	0	330	953	37.52	198
D „ (Pollhill Fields)	M „ „ „	5	1	0	...	909	35.78	...
Halling Pumping Station	L. Holman, Esq.	5	1	0	75	743	29.26	...
D Rainham (Mardale House)	Dr. F. W. H. Penfold ...	5	1	2	109	893	35.17	182
Chatham (Luton W.W.)	W. Coles Finch, Esq.	5	3	0	88	799	31.46	153
D Rochester (Knights Place)	Miss F. H. Pye	5	3	0	320	826	32.54	161
Strood Water Works	W. Banks, Esq., C.E.	5	3	0	112	802	31.57	163
D Frindsbury (The Shrubbery)...	Warwick Stunt, Esq.	5	1	6	150	760	29.93	154
D „ (Stonehouse Farm)...	E. W. Wood, Esq.	5	5	0	20	812	31.96	141
D Hoo St. Mary (St. Mary's Hall)...	H. Pye, Esq.	5	5	6	146	696	27.39	167

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with '01 in. or more
		Diam.	Height Above			1915		
			Ground	Sea Level				
		in.	ft.	in.	feet.	mm.	inches.	
KENT—(con.)								
5.—THAMES—Darent. 256 sq. mi.								
Westerham (Quebec Square) ...	Met. Water Board.....	5	1	0	380	1003	39.49	158
„ Hill Pumping Stat.	„ „ „	5	1	0	539	962	37.89	175
„ „								

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
SUSSEX. (Area, 1458 sq. mi.)								
1.—LAVANT & C. 175 sq. mi.								
† Selsey (Large Acres) ...	Field g. E. Heron Allen, Esq.	5	1	0	25	873	34.36	165
† " (" ") ...	Snowdon "							

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with '01 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	e et.	mm.	inches.	
SUSSEX—(con.)								
3.—ADUR & C. 237 sq. mi.								
d† Rottingdean School	G. Mason, Esq.	5	1	0	120	973	38·30	136
d† Worthing (Victoria Park)	Dr. R. H. Wilshaw	8	1	0	36	931	36·64	152
d† West Worthing (Hillmorton Lo.)	A. Morris Butler, Esq.	5	1	0	30	1002	39·45	151
† East Preston (Bay Trees)	Rev. J. B. Orme	5	0	9	25	931	36·67	152
d Worthing (Broadwater)	Edwin Apted, Esq.	5	5	6	30	900	35·45	142
d† Brighton (Old Steyne)	D. Forbes, Esq., M.D.	5	1	0	32	956	37·65	155
d† Hove (Marine Park)	Dr. A. Griffith	8	1	0	25	974	38·35	162
d† Brighton W W (Goldstone Bottom)	J. Johnston, Esq., C.E.	8	0	7	140	974	38·33	162
d† „ „ (Lewes Road)	„ „ „	8	3	6	88	1059	41·68	159
d† „ „ (Shoreham)	„ „ „	8	1	9	12	993	39·11	153
d† „ „ (Upper Portslade)	„ „ „	8	1	3	167	1018	40·08	161
d† „ „ (Race Hill Reservoir)	„ „ „	8	1	0	466	1084	42·68	159
„ „ (White Hawk Kite Station)	S. H. R. Salmon, Esq.	5	1	0	380	995	39·18	...
d† „ „ (Ashford Road)	Mr. C. Biddlesden	5	1	0	312	1128	44·42	169
d† Preston Park (Clifton Villa)	Henry Rogers, Esq.	5	1	0	76	992	39·05	162
† „ „ (The Knowle, Withdeane)	P. J. Trouncer, Esq.	8	1	3	100	1095	43·11	...
d† „ „ (Ditchling Road)	G. Berry Hamlin, Esq.	5	1	0	302	1090	42·91	169
† Patcham (Upper Roedale) <i>weekly</i>	„ „ „	5	1	0	385	1111	43·75	...
„ „ (Hollingbury Camp) „	„ „ „	5	1	0	575	1076	42·36?	...
d† Falmer (Brighton W. W.)	J. Johnston, Esq., C.E.	8	1	8	209	1111	43·74	168
d† Patcham („ „)	„ „ „	5	1	6	207	1171	46·11	169
d Bramber (Burletts)	Hatton G. Sugden, Esq.	5	3	6	75	985	38·79	159
„ Steyning (Crescent Road)	Mr. H. J. Hide	5	1	0	80	1098	43·24	...
d Washington Vicarage	Rev. A. H. S. Pattrick	5	1	0	251	955	37·61	169
d Clayton Windmills	E. A. Martin, Esq.	5	2	0	584	1236	48·67	136
d Hurstpierpoint (Danny Park)	Mr. J. J. Bunney	8	1	3	180	1289	50·75	137
d Ditchling	E. A. Martin, Esq.	5	2	0	220	1126	44·32	156
„ Keymer (The Limes)	Miss Berry	5	1	1	145	1144	45·04	...
„ „ (Ockley Manor)	R. G. Davidson, Esq.	8	2	0	192	1128	44·40	...
„ Burgess Hill (Ote Hall)	Mrs. Woods	5	1	6	...	1070	42·13	...
„ Cowfold (Maple Bank)	Miss Ford	5	1	6	105	970	38·20	...
d Wykehurst Park Gardens	Mr. T. Tyson	5	1	6	360	925	36·43	144
d Cuckfield (Hilfield House)	Miss A. K. O'Brien	5	1	0	300	1010	39·75	167
„ „ (Workhouse)	Mr. E. Gosden <i>per</i> M.O.	8	1	0	389	950	37·40	143
d „ „ (Henmead Hall)	Mrs. Maxwell Campbell	5	3	5	365	996	39·23	169
„ Lower Beeding (Leonardslee)	Sir E. G. Loder, Bart.	5	1	0	270	1002	39·44	178
4.—OUSE. 224 sq. mi.								
d Seaford College	Col. F. W. Savage, V.D.	5	1	6	38	841	33·10	146
d „ „ (Bowden House School)	J. F. Thomas, Esq.	5	1	0	190	888	34·94	148
d Newhaven (Poverty Bottom W W)	J. T. Bickford, Esq.	8	1	1	51	956	37·63	151
d Lewes (Little Dene)	Miss B. Brand	8	0	11	93	1174	46·20	177
d „ „ (Cobbe Place)	Sir Albert F. A. Bosanquet	5	0	8	50	1080	42·50	136
„ Falmer Court	Miss K. Moulden	5	3	0	312	1128	44·40	...
d Lewes (W. W., Kingston)	A. Wells, Esq.	8	1	3	13	1210	47·63	166
„ East Hoathley (Old Whyly)	H. C. Harbord, Esq.	5	1	0	160	997	39·26	...
d Isfield Place	Major H. King	5	1	0	41	990	38·97	153
„ „ <i>weekly g.</i>	„ „	5	1	0	41	986	38·82	...
„ „ <i>monthly g.</i>	„ „	5	1	0	41	996	39·23	...
„ „ (R)	„ „	6	1	6	41	989	38·95	...

DIVISION II.—SOUTH EASTERN COUNTIES—(continued)

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above		1915			
			Ground.	Sea Level				
		in	ft.	in.	feet.	mm.	inches.	
SUSSEX—(con.)								
4.—OUSE—(con.)								
Horsted Place.....	Francis Barchard, Esq....	8	1	0	140	995	39·18	...
Framfield (High Cross)...	Maj. R. Lawrence Thornton	5	0	9	195	1025	40·37	...
D Uckfield (Agricultural College)...	Prof. S. A. Woodhead....	8	1	0	166	948	37·34	164
D Newick Rectory.....	Mrs. C. Powell	5	1	5	134	889	35·00	163
D Haywards Heath (S. Wilfrid's Par.)	Mr. J. E. Shirley	5	1	0	300	1035	40·74	169
D Buxted Park	Hon. H. B. Portman.....	8	1	0	94	1171	46·11	173
„ (Strawberry Hall).....	C. Rintoul, Esq.....	5	1	0	180	1077	42·40	162
D Mayfield (Five Ashes)	Miss Emily Aston	5	1	5	300	1050	41·34	175
D Nutley (The Hall)	Miss Cook	5	0	10	417	1008	39·70	155
D Ardingly (Brook House)	H. R. G. Clarke, Esq....	8	1	0	240	1039	40·89	151
D Lindfield (Gravelve)	Lewis Weedon, Esq.....	5	1	0	177	985	38·79	180
D „ (Boys' School)	H. Woolcock, Esq.	5	1	0	113	1039	40·92	175
D „ (Malling Priory)	D. P. Pennethorne, Esq...	5	1	0	160	1039	40·92	157
D Ardingly (Lywood House)	G. Forrester Scott, Esq...	5	0	9	240	1066	41·95	185
D Horsted Keynes (Birchgrove) ..	Miss G. C. Price.....	5	0	9	400	963	37·90	172
D Balcombe (The Gables)	Mr. G. J. Warren	8	1	3	358	1101	43·36	182
D „ (Stockerott)	R. Newton, Esq.	5	1	1	341	1102	43·37	171
D „ (Waterworks)	F. Martin, Esq., C.E....	8	1	0	471	1107	43·57	142
D „ (Highley Manor)	H. Faure Walker, Esq....	8	1	6	420	1255	49·40	175
5.—CUCKMERE & C. 189 sq. mi.								
† Eastbourne (Wilmington Square)	Dr. W. G. Willoughby ...	5	1	0	39	938	36·91	148
D „ (Glenthorne)	Miss Woodd	8	1	6	86	936	36·84	145
D „ (Arundel Road)	J. C. Wright, Esq.....	5	1	0	70	996	39·23	...
D „ (Ocklynge Cemetery) ..	C. Montague Wood, Esq.	5	3	6	171	989	38·93	135
D „ (Staveley Cross) ..	J. Weston, Esq.....	5	1	6	110	945	37·19	156
D West Dean	A. J. Howard, Esq.	8	1	0	112	810	31·90	163
D Jevington (Church Farm)	„ „ „	8	0	9	274	1023	40·27	153
D Litlington (Plough & Harrow Inn)	„ „ „	8	1	0	19	1056	41·56	154
D Willingdon Sewage Farm	T. E. Varley Kirtlan, Esq.	5	1	0	24	1043	41·06	134
D Pevensey Pumping Station	„ „ „	5	1	0	12	832	32·76	146
D „ Bay Pumping Station..	„ „ „	5	1	0	7	860	33·84	146
D † Bexhill (Marina)	A. R. Harndon, Esq.....	8	1	0	27	800	31·50	137
† St. Leonards (Gensing Gardens).	P. H. Palmer, Esq., C.E.	8	1	0	179	814	32·05	161
D Hailsham Vicarage	Rev. F. Clyde Harvey....	5	1	0	105	1107	43·59	150
D „ (Magham Down)	W. E. Bear, Esq.	5	1	0	90	927	36·50	137
D Hurstmonceux Place.....	H. A. James, Esq.....	5	1	8	83	893	35·15	135
D Hastings (Newgate)..... (R)	P. H. Palmer, Esq., C.E.	8	5	6	240	871	34·30	138
D „ (Filsham Reservoir) ..	„ „ „	8	0	10	91	870	34·24	134
D „ (Halton Reservoir).....	„ „ „	8	0	10	301	916	36·08	148
D „ (Fairlight Reservoir)...	„ „ „	8	0	10	517	911	35·87	139
D † „ (Cemetery)	Walter Field, Esq.	5	0	8	478	904	35·58	177
D Ninfield (Hazard's Green Pump Sta.)	C. P. King, Esq.	8	0	10	74	880	34·63	165
D Battle (Crowhurst Park)	Mr. A. Munday	5	1	0	480	1039	40·92	169
D Horeham Road (Coxlow)	Miss P. C. Harrison	5	1	0	260	986	38·81	165
D „ Grange	W. F. Beauford, Esq....	5	1	2	260	1009	39·73	160
D „ Road (Hollycroft Cottage)	J. Hamlin, Esq.....	5	1	0	300	1028	40·46	152
D Heathfield (Angola)	T. B. Simpson, Esq.....	5	1	0	400	1117	43·98	180
D „ (The White Cottage)	J. F. Leigh Clare, Esq....	5	1	3	500	1029	40·51	155

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ≥ 0.1 in. or more
		Diam.	Height Above Ground		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
SUSSEX—(con.)								
6.—ROTHER. 194 sq. mi.								
D Winchelsea (Nesbit Cottage) ...	Miss G. Leigh.....	5	1	1	124	952	37.46	163
D „ (Mariteau House) ...	C. W. Campion, Esq.	5	1	0	120	994	39.14	155
D Battle (Whatlington)	Miss H. Gripper.....	5	1	3	90	1044	41.11	160
Udimore (The Hammonds)	J. G. Mair-Rumley, Esq.	8	1	0	144	907	35.71	145
Beckley (Bixley Lodge)	B. E. de N. Ramus, Esq.	5	1	0	230	950	37.40	...
D Heathfield (Tottingworth Park) ..	Mr. J. Masson.....	5	1	0	500	1118	44.01	158
D Northiam (Great Dixter)	Nathaniel Lloyd, Esq.....	8	1	0	210	927	36.48	159
D Mayfield (Bishopstone).....	A. G. Robins, Esq.	5	1	0	430	1080	42.50	152
D Wadhurst (The Olives).....	Miss Edith P. Luck	5	1	0	380	1059	41.70	168
D Hurst Green (Boarzell).....	Sir F. W. Fison, Bart.	8	1	0	270	940	37.00	160
D Ticehurst (Myskyns).....	E. H. Cartwright, Esq.....	5	1	0	350	1101	43.33	181
D „ House	Mr. J. D. Jordan	5	4	9	423	1011	39.81	151
7.—MEDWAY. 117 sq. mi.								
D Crowborough (Jarvis Brook).....	Crowborough Water Co....	5	1	0	325	1116	43.94	146
D „ (Uckfield Lodge).....	J. J. S. Driberg, Esq.....	8	1	0	796	1174	46.22	206
D „ (Te Whare).....	Miss Hames	5	1	0	796	1265	49.79	239
D Wadhurst (Lower Cousley Wood) ..	F. Wilkin, Esq.....	5	1	0	416	974	38.36	166
D† Forest Row (Wych Cross Place) ..	D. W. Freshfield, Esq.....	5	0	10	600	1039	40.91	137
D† „ „ (Hindleap Lodge) ..	Mr. A. Adam	5	1	6	620	1002	39.47	155
„ „ (Charlwood Farm) ..	A. Hoare, Esq.	5	1	0	250	987	38.85	107
D Coleman's Hatch (Holly Hill) ..	J. MacAndrew, Esq.	5	1	0	355	1113	43.83	154
D Eridge Green (Danegate)	Sir H. G. Walpole, K.C.B.	5	0	10	400	1061	41.78	160
Frant (Hazelhurst)	C. E. Ashfield, Esq.	5	1	6	450	977	38.45	164
D „ (Henley House)	E. Malden, Esq.....	5	1	6	440	1020	40.16	182
D „ (Eridge Castle)	Mr. A. Wilson	5	1	0	400	1101	43.36	151
„ (Highfield)	C. M. R. Cleeve, Esq.....	5	2	3	413	1024	40.32	...
Forest Row (Courtmead) ..	G. Worthington, Esq.	5	0	8	275	1078	42.42	...
D Crawley Down (The Grange).....	T. H. W. Buckley, Esq.....	5	1	0	430	1020	40.14	170
D East Grinstead (Highfields)	G. Mason, Esq.	5	0	9	400	944	37.16	165
D „ „ (Cranston Road) ..	late Mr. G. Mitchell	8	2	2	420	1034	40.72	156
Glen Andred [Groombridge] ..	Mrs. Boardman	8	1	0	320	1071	42.16	...
Cozleigh [„] ..	J. Anderson, Esq.....	8	2	0	230	989	38.95	166
8.—THAMES—Mole. 27 sq. mi.								
D Worth (South Hill)	Miss R. M. Ravenshaw....	8	1	6	558	1096	43.13	188
9.—THAMES—Wey. 10 sq. mi.								
D Ripsley [Liphook]	W. D. Bosanquet, Esq.....	5	1	0	400	1122	44.17	162
HAMPSHIRE. (Area, 1622 sq. mi.)								
1.—ISLE OF WIGHT. 150 sq. mi.								
D† Ventnor (Flint Cottage)	J. S. Ineson, Esq.	5	1	0	99	945	37.22	150
D „ (Royal National Hospital) ..	Miss M. Gibson ..	5	1	0	60	948	37.31	155
D Shanklin ..	E. C. Cooper, Esq., C.E....	8	1	0	184	1028	40.46	157
D Sandown (Free Library)	C. E. Gilchrist, Esq.....	8	1	0	30	1067	42.02	168
Brighstone Rectory	Rev. E. W. Silver	5	1	1	100	943	37.11	...
D† Totland Bay (Aston House).....	J. Dover, Esq.	8	1	3	145	948	37.34	151
Calbourne Rectory	Rev. Dr. L. G. Tugwell....	5	1	0	168	1097	43.20	...
„ (Swainston)	Mr. J. Gash	5	1	0	170	1122	44.19	169

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0·1 in. or more
		Diam.	Height Above Ground. Sea Level			1915		
		in.	ft.	in.	feet.	mm.	inches.	
HAMPSHIRE—(con.)								
1.—ISLE OF WIGHT—(con.)								
♠ Ryde (New Lodge, St. John's Park)	Mrs. Dobie	5	1	1	147	1075	42·33	167
„ (Perivale)	Major E. C. Murray	5	1	3	193	1086	42·74	152
♠ „ (Pier Street)	G. Nicholson, Esq.	12	9	7	35	1030	40·55	144
♠ „ (Esplanade Gardens)	C. Mathew, Esq.	8	2	0	6	996	39·22	150
♠ „ (Beldornie Tower)	P. Craven Hall, Esq.	5	1	0	30	912	35·91	173
† Wootton (Fernhill)	C. Gordon Brodie, Esq.	8	0	6	118	1056	41·57	163
♠ Binstead (Quarr Hill)	Dr. J. Winthrop Woodruff	5	0	10	100	980	38·59	150
♠ East Cowes (Spring Hill)	G. Shedden, Esq.	5	1	0	121	1000	39·38	150
♠ Cowes W.W. (Broadfields)	J. W. Webster, Esq., C.E.	5	0	10	161	1039	40·89	150
♠ „ (Upper Moor Green)	J. G. K. Day, Esq.	5	4	0	160	1037	40·83	154
2.—STOUR. 32 sq. mi.								
♠ Bournemouth (Coastguard Stat.)	Messrs. Primavesi Bros.	5	1	0	100	947	37·29	166
† „ (Pleasure Gardens)	C. Dales, Esq.	5	1	0	41	1098	43·23	159
♠ „ (West Cliff)	Rev. G. A. Rideout	5	1	0	145	1068	42·03	152
♠ „ (Rodney House)	S. Hyla Greves, Esq.	5	1	0	145	1003	39·50	155
† „ (Vale View)	C. Dales, Esq.	5	1	0	145	1038	40·87	156
♠ Christchurch (Heron Court)	The Earl of Malmesbury..	5	1	2	25	1162	45·76	150
♠ „ (Hurn Bridge House)	P. Trentham Maw, Esq.	8	1	0	30	1145	45·09	153
3.—EAST AVON & C. 114 sq. mi.								
♠ Christchurch (Winkton Lodge) ..	Miss Lassell	5	1	0	34	1070	42·13	170
♠ Hinton Admiral (East Close) ..	Col. A. M. Blake	5	1	0	185	1076	42·38	156
♠ Ringwood (West Mount)	R. F. Williams, Esq.	5	1	0	100	1085	42·73	184
♠ Fordingbridge (Cuckoo Hill) ..	Heywood Sumner, Esq.	5	1	0	150	1081	42·57	165
♠ „ (Oaklands)	S. B. Rake, Esq.	8	1	0	135	1041	40·98	188
4.—TEST & SOLENT. 551 sq. mi.								
♠ Milford-on-Sea (Salt Grass)	A. C. G. Heygate, Esq.	5	1	0	6	993	39·08	146
„ „ „ (Milford House) ..	E. L. Agar, Esq.	5	0	8	40	977	38·45	154
♠ Lymington (The Salterns)	P. A. Ouvry, Esq.	5	1	0	1	1050	41·34	162
♠ Milton (Wootton Hill)	J. A. Harman, Esq.	5	2	6	198	1127	44·36	149
„ Burley (Manor House)	Col. F. Willan	5	1	4	210	996	39·21	...
♠ Fawley (Cadland)	Mr. L. Smith	8	4	6	52	1103	43·41	168
„ Hythe (The Garth, Dibden)	P. C. Crossley, Esq.	8	1	0	136	1122	44·19	170
♠ „ (Heathfield, „)	Mr. Jesse Reeves	5	1	3	127	1179	46·40	170
„ „ (Heatherdown, Purlieu) ..	J. H. S. Gilman, Esq.	5	1	4	126	1180	46·47	167
† Lyndhurst (Cuffnells)	R. G. Hargreaves, Esq.	5	1	0	195	1153	45·39	...
„ Marchwood (Byams)	Maj. H. J. G. Lloyd	5	1	0	0	1053	41·44	...
♠ Fritham (Fritham House)	H. H. S. Northcote, Esq. ..	5	1	0	325	1162	45·76	137
„ Southampton (East Park)	Col. C. F. Close, C.M.G.	8	1	0	65	1059	41·68	160
„ „ Common Res. M	E. C. Rodda, Esq., C.E.	5	1	0	193	1055	41·53	...
„ Romsey (Stanbridge Earls) ... (R)	Mrs. Hansard .....	...	3	0	137	1081	42·55	...
♠ „ (Timsbury)	D. Kitchingman, Esq., C.E.	8	1	8	96	996	39·22	150
♠ West Dean Rectory	Rev. E. Wells	5	1	0	149	997	39·24	161
„ West Tytherley (Buckholt)	R. J. Townshend, Esq.	5	0	11	410	1029	40·50	163
† Horsebridge (Bossington House)	W. H. Deverell, Esq.	8	0	9	92	1014	39·90	154
♠ Ashley Old Manor House	Leph S. Powell, Esq.	5	1	3	235	1062	41·80	155
♠ „ (Upper Somborne)	Mr. Charles Alleway	8	1	0	200	1018	40·08	169
♠ Broughton	W. Steele Tomkins, Esq.	5	1	3	125	1082	42·59	153
♠ Stockbridge (Houghton Lodge) ..	Mr. G. Morris	5	1	0	190	1050	41·33	147
♠ Barton Stacey (Moody's Down) ..	H. J. Gardiner, Esq.	5	1	3	230	999	39·34	148

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

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		in.	ft.	in.	feet.	mm.	inches.	
HAMPSHIRE—(con.)								
4.—TEST & SOLENT—(con.)								
D Micheldever (Northbrook House)	Miss E. M. Hare	5	0	11	325	1020	40.16	154
D Abbot's Ann Rectory	Rev. F. de Paravicini	5	0	10	220	1034	40.69	169
Longparish House	Mrs. Diggle	5	1	0	192	973	38.30	...
D Andover Sewage Works	Walter C. Jerome, Esq.	8	0	8	...	972	38.27	146
Fyfield Rectory	Andover Advertiser	5	1	5	250	926	36.46	174
D Oakley Rectory	Rev. F. G. Hume	5	1	6	365	1193	46.98	178
„ (Malshanger)	G. Walter, Esq.	5	1	0	400	1129	44.46	154
„ (Manydown Park) ... (R)	S. E. Bates, Esq.	...	1	8	415	956	37.65	...
„ (Upper Wootton)	W. R. Thomson, Esq.	5	1	4	500	1119	44.07	160
Hurstbourne Tarrant (The Rookery)	R. E. C. Burder, Esq.	5	1	0	331	1075	42.32	...
D Faccombe Manor	H. Gibson, Esq.	8	1	3	760	1163	45.79	165
D Vernham Dean (Rowe House)	Adm. E. H. Gamble, C.B.	5	0	7	650	1064	41.87	147
5.—ITCHEN & SPITHEAD. 417 sq. mi.								
D Alverstoke (Monckton House)	Capt. J. Blake	5	1	6	15	967	38.06	143
D† Portsmouth (Eastney)	A. W. Ward, Esq., C.E.	8	0	9	16	842	33.14	135
D† „ (Victoria Park)	Dr. A. Mearns Fraser	5	1	0	18	950	37.41	148
D Hayling Island (Richmond House)	E. S. McEuen, Esq.	5	1	2	16	921	36.27	148
D „ „ (The Acacias)	Dr. F. E. Roberts	5	1	2	15	881	34.70	152
D Porchester (Noel Cottage)	Miss Montgomerie Frost	5	2	0	...	833	32.80	158
D Fareham (Burpham House)	W.S. Stevenson, Esq., M.D.	5	1	6	30	1026	40.41	144
D „ (The Mount)	H. R. Pink, Esq.	5	1	0	250	962	37.86	162
D „ (Roche Court)	Mrs. H. F. Rawstorne	5	1	0	104	1129	44.45	157
D Warsash (Hook Vicarage)	Rev. C. B. Lloyd	5	1	2	60	1030	40.56	155
D† Havant (Farlington)	H. Ashley, Esq., C.E.	5	1	0	77	885	34.84	158
† „ „ „ „ „ M	„ „ „ „ „	5	1	0	77	888	34.96	...
D† „ „ „ „ „ M	„ „ „ „ „	5	1	0	25	933	36.73	165
† „ „ „ „ „ M	„ „ „ „ „	5	1	0	25	939	36.97	...
Cosham (Purbrook Grange)	Miss F. A. Deverell	8	0	9	100	1064	41.90	147
D Netley (Lake House)	Miss Pennington	8	1	0	54	1073	42.25	161
Wickham (Park Place)	Lt.-Col. H. R. Farquhar	5	1	0	150	1147	45.14	159
D Botley (Fairthorne Manor)	Mr. D. F. Lailey	8	1	0	70	1180	46.44	172
D „ (Hedge End)	Rev. T. H. Philpott	8	1	1	178	1129	44.46	155
† „ (Brook House)	Beckett Powell, Esq.	5	3	2	45	1115	43.89	...
† „ (Rectory)	Rev. G. E. C. Osborne	5	1	0	50	1094	43.09	...
D† „ (Botley Hill)	Lady Jenkyns	5	1	6	36	1127	44.38	168
D† „ (Beechcroft, Curdridge)	Miss L. M. S. Pasley	5	1	0	96	1082	42.62	190
D† Horndean (Blendworth Lodge)	Mrs. Long	8	0	10	217	1241	48.85	169
D Catherington (St. Catherines)	Capt. R. H. Archer, R.N.	5	1	3	370	1155	45.49	175
D Soberton (Gosport W.W., Mislingford)	E. T. Hildred, Esq., C.E.	5	1	0	136	1132	44.58	150
„ „ „ „ „ M	„ „ „ „ „	5	1	0	136	1132	44.58	...
Chalton (Woodcroft)	Capt. C. J. P. Cave	5	1	0	230	1195	47.03	...
D Bishops Waltham (The Palace Ho.)	A. F. Hardy, Esq.	5	1	3	116	1075	42.34	158
„ „ (Swanmore Ho.)	W. H. Myers, Esq.	8	1	0	390	1303	51.29	148
D Droxford (Uplands)	Miss Bridge	5	1	0	279	1233	48.54	168
D „ (Fairfield House)	H. Hamilton Bridge, Esq.	5	1	0	254	1181	46.48	182
D „ (Fir Hill)	Capt Mackenzie Grieve, R.N.	5	3	6	212	1167	45.93	167
D† Eastleigh (Fair Oak Park)	G. H. Pember, Esq.	5	1	0	180	1144	45.04	151
D Chandlers Ford (Fryern)	Miss Grace Stuart	5	1	2	150	1048	41.27	150
D† Petersfield (Ditcham Park)	Capt. C. J. P. Cave	8	1	0	555	1236	48.65	173

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0·1 in. or more
		Diam.	Height Above Ground SeaLevel			1915		
		in.	ft.	in.	feet.	mm.	inches.	
HAMPSHIRE—(con.)								
5.—ITCHEN & SPITHEAD—(con.)								
+ Petersfield (Downley)	Capt. C. J. P. Cave	5	1	2	374	1250	49·22	...
d Otterbourne House	E. Christian, Esq.	5	1	2	111	1048	41·25	157
d " (W.W., Shawford).....	E. C. Rodda, Esq., C.E...	5	1	0	113	1053	41·46	165
d Westbury House Gardens.....	Col.H.LeRoyLewis CB, DSO	5	2	10	296	1236	48·65	143
Winchester (Owslebury House)..	W. Welsh, Esq.....	5	1	0	365	977	38·45	140
d Twyford (Pumping Station)..(R)	D.Kitchingman, Esq., C.E..	8	1	9	139	1064	41·89	140
d " (Mallards Close).....	G. R. Marsh, Esq.	5	1	0	145	1020	40·14	151
Kilmeston Manor	Mrs. Heathcote	5	4	6	323	1138	44·81	...
Petersfield (Broadhanger).....	Mrs. R. M. Caulfeild.....	5	1	0	730	1285	50·59	...
d Privett (Basing Park Gardens)..	Mr. T. S. H. Down	8	2	0	600	1163	45·79	...
d Winchester (St. Giles' Hill)....	Mrs. Wilde.....	5	1	0	250	936	36·87	160
" " ") ...M	" "	5	1	0	215	872	34·34	...
d Ovington Rectory	Rev. H. F. La M. Stowell	5	1	0	221	1248	49·12	162
" (Barley Down)	J. Stevens, Esq.....	12	3	6	300	1097	43·18	164
Itchen Stoke Rectory	Rev. V. E. Skrine	5	1	0	200	1114	43·84	156
d " Abbas (Chilland)	W. J. Arnold, Esq.	5	1	3	200	1065	41·92	138
6.—ARUN. 32 sq. mi.								
+ Petersfield (Sunwood)	Capt. C. J. P. Cave	5	0	10	479	1272	50·09	...
" (The Miscombe) ... M	" " " " " " " " " "	5	1	1	250	1294	50·96	...
" (Buriton House)	L. G. Bonham Carter, Esq..	5	1	9	293	1260	49·59	...
" (Nursted)	Capt. C. J. P. Cave	5	1	0	270	1228	48·33	...
d " (Weston)	Capt. P. W. Seward	5	1	0	330	1351	53·18	155
" (The Mount, Ramshill).....	F. G. Padwick, Esq.....	8	1	0	250	1340	52·77	167
d Liss (Overcombe)	Miss Jebb	5	1	0	500	1055	41·54	174
d " (Highfield)	J.S. Gamble, Esq., CIE., FRSE	5	0	9	325	1136	44·73	178
" (The Lodge)	Ernest Latter, Esq.	5	1	3	240	1175	46·25	172
d " (Kippences)	Rev. W. A. H. Thorold...	5	0	9	250	1137	44·75	142
d Greatham (King's Holt)	Mrs. Chase Parr.....	5	1	7	325	1080	42·53	143
" (Manor House).....	F. Coryton, Esq.	5	0	7	250	1128	44·41	...
d " (Le Court).....	Heath Harrison, Esq. ...	5	0	6	420	1189	46·80	147
7.—THAMES—Wey. 97 sq. mi.								
d Liphook (Fowley)	E. A. Lee, Esq.	5	0	10	296	1154	45·43	198
Colmer Rectory	Rev. A. C. Hervey.....	5	1	1	560	1114	43·85	...
East Tisted (Rotherfield Park)...	Mr. W. H. Yates	5	1	0	550	1247	49·10	170
" " Rectory	Rev. Roland Errington...	5	1	0	437	954	37·55	140
d Newton Valence Vicarage.....	Rev. A. C. Maclachlan...	5	1	0	618	1111	43·73	170
d Selborne (The Wakes)	Col. A. Bibby	5	1	0	400	1197	47·14	172
d+Grayshott	Mrs. Lyndon	5	1	0	661	1169	46·03	177
d Headley (Eveley)	Mr. T. Carter.....	5	1	3	295	1102	43·38	150
Liphook (Bordon Camp)	The Division Officer R.E.	8	1	0	268	960	37·79	136
Alton (Shalden Manor)	J. Gathorne Wood, Esq....	8	3	0	594	1243	48·93	179
d Froyle (Park Edge).....	Walter Sedgwick, Esq....	5	1	0	350	943	37·11	158
8.—THAMES—Loddon. 164sq. mi.								
d Warren Corner [Farnham]	F. Wilkin, Esq.....	5	1	0	560	930	36·60	162
d Upton Grey (Hoddingdon House)	Lord Basing	8	1	0	378	1176	46·32	155
d Aldershot (Sewage Works)	Mr. J. Edwards	5	1	0	231	956	37·64	184
d Greywell.....	F. J. Garland, Esq.	5	2	6	266	829	32·65	143
d Basingstoke (Queen Mary's Sch.)	W. H. Pick, Esq.	5	1	0	289	1059	41·71	193
d " (Pumping Station)..								

DIVISION II.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
HAMPSHIRE—(con.)								
8.—THAMES—Loddon—(con.)								
D Basingstoke (Sherborne St. John)	Rev. D. W. Chute.....	5	1	2	267	1014	39.94	170
South Farnborough	Meteorological Office	8	1	0	234	867	34.14	156
D Winchfield (Elvetham Park) ..	Mr. G. B. Mitchison	8	1	0	217	947	37.30	179
D Hartley Wintney	W. G. Machin, Esq.	5	1	2	222	938	36.93	154
D „ Grange	F. Walkinshaw, Esq.	8	1	0	221	949	37.36	161
D Blackwater (Hawley)	Miss E. D. Morland	5	1	0	210	952	37.49	151
D Strathfieldsaye Rectory	Rev. F. Page-Roberts.....	5	1	0	164	994	39.14	175
D Heckfield (Park Corner)	Miss Martineau	5	1	2	257	921	36.27	166
9.—THAMES—Kennet. 65 sq. mi.								
Ewhurst Park Gardens.....	The Duke of Wellington	5	2	2	450	1090	42.91	155
D Kingsclere (The Rookery).....	Dr. R. Maples.....	5	3	0	327	1110	43.69	137
BERKSHIRE. (Area, 722 sq. mi.)								
1.—TEST. 2 sq. mi.								
2.—THAMES—Bourne. 15 sq. mi.								
D Sunningdale (Lynwood)	Mr. J. Bayliss.....	5	1	0	266	934	36.77	156
3.—THAMES—Loddon & c. 162 sq. mi.								
D Wellington College	E. M. Eustace, Esq.	5	1	0	283	978	38.52	164
D „ „ (Woodside) ..	Mr. W. J. Townsend.....	8	2	9	240	913	35.94	158
D Crowthorne (Firholt).....	A. H. Hobhouse, Esq.	5	1	0	307	908	35.76	164
D „ „ „	„ „ „	2	1	0	307	928	36.55	169
Finchampstead (West Court) ..	C. E. Harris-St. John, Esq.	5	1	0	180	845	33.28	157
Swallowfield Park	Sir Charles Russell, Bart.	5	1	0	150	897	35.32	...
D Ascot (Winkfield Manor)	C. A. Ferard, Esq.	5	1	0	240	946	37.23	182
D Wokingham (Fieldhouse).....	H. C. Mylne, Esq.	5	1	0	220	853	33.60	169
D Winkfield (Ryemead)	Mrs. Aubrey Elliott	5	0	10	220	890	35.06	173
D Warfield (Hawthorndale).....	Col. G. H. Burges	5	1	0	207	877	34.52	172
D Windsor (Royal Gardens).....	Mr. T. Edwards.....	5	1	0	88	895	35.24	160
D „ (Osborne Road)	Miss M. G. Cookson	8	1	0	88	844	33.23	178
D „ (Alma Road)	C. Sainty, Esq., C.E.	5	1	0	72	877	34.54	171
D Maidenhead (Heywood Park) ..	Greville H. Palmer, Esq.	8	1	0	102	776	30.55	142
D „ (Hall Place)	Sir G. A. C. East, Bart.	8	2	2	275	819	32.25	163
D Remenham Hill (Wedmore).....	Mrs. Burnell	5	0	10	300	893	35.15	172
D Bisham Vicarage	Rev. W. Farrer	5	1	0	100	820	32.29	167
D Temple House [Marlow]	Mrs. Owen Williams.....	5	1	0	106	882	34.74	181
4.—THAMES—Kennet & c. 224 sq. mi.								
Mortimer (Wokefield Park)	A. Palmer, Esq.	5	4	0	180	899	35.41	153
D Brimpton (Stonehouse)	F. Hadden, Esq.	5	0	7	350	1018	40.06	143
„ (Littlepark)	Major W. Y. Langford	5	1	0	345	970	38.21	144
Newbury (Sandleford Priory) ..	Mr. Wilson Hayward	8	2	0	381	1152	45.36	160
D „ (Greenham Common) ..	H. L. Bowman, Esq., D.Sc.	5	1	0	328	1043	41.08	157
„ (Grammar School) ..	H. Liggins, Esq.	5	0	9	279	909	35.79	157
D Shinfield (University Coll. Farm)	Dr. H. N. Dickson	5	1	0	199	867	34.13	157
D Beenham House	Capt. W. Waring	8	2	3	315	974	38.35	160
Reading (Leighton Park School)	C. I. Evans, Esq. per M.O.	8	1	0	265	874	34.41	168
D „ (Northcourt Avenue) ..	R. Osmond, Esq.	5	1	0	213	888	34.98	161
D „ W.W. (Bath Road) ..	L. C. Walker, Esq., C.E.	5	1	8	218	842	33.15	149
D „ (Forbury Gardens).....	J. Bowen, Esq., C.E.	5	1	5	145	883	34.77	165

DIVISION II.—SOUTH EASTERN COUNTIES—(continued)

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with '01 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
BERKSHIRE—(con.)								
4.—THAMES—Kennet & c—(con.)								
D Reading (University College) ...	Dr. H. N. Dickson.....	5	1	0	152	848	33·39	158
„ (Victoria Square)	W. Haynes, Esq.	5	1	6	145	894	35·21	171
D „ (Caversham Lock)	R. A. Swarbrick, Esq.....	5	3	5	124	834	32·85	143
D Newbury (Welford Park)	Mr. W. Pope	5	1	0	341	1071	42·18	162
D Lambourn (East Garston)	J. H. Spackman, Esq.....	5	2	6	395	1006	39·61	176
D „ (Clarionville)	F. Gullett, Esq.	5	1	6	500	975	38·38	136
5.—THAMES—Ock & c. 319 sq. mi.								
D Reading (Englefield).....	J. H. Benyon, Esq.	5	1	1	175	943	37·12	151
D Frilsham House.....	Mr. W. E. Austen.....	5	1	0	370	922	36·29	146
D Yattendon Court	Mr. F. Pitman	5	0	10	440	937	36·88	138
Hampstead Norris.....	John Brown, Esq.	5	1	0	300	928	36·53	156
Farnborough Rectory	Rev. J. B. H. Whitehurst	5	1	3	713	1062	41·83	184
D Wallingford (Aston Tirrold) ...	J. Harold Slade, Esq.....	5	1	1	250	858	33·76	137
„ („ Upthorpe)...	L. G. Slade, Esq.	8	1	2	202	903	35·54	160
D Upton	Miss Fry.....	5	1	0	240	845	33·26	159
„ (Prospect House).....	C. S. Grant, Esq.	5	1	0	...	866	34·08	155
D Wantage (Ginge Manor)	Miss Elliot	5	1	0	332	932	36·70	171
Steventon (Milton Hill)	R. H. Betteridge, Esq....	5	2	0	300	853	33·57	...
D Wallingford (Woodlea).....	G. F. Slade, Esq.	5	0	6	200	800	31·50	153
„ Castle	Miss Hedges	5	1	0	175	794	31·25	146
D „ (Shillingford Hill)...	Lt.-Col. G. Hart Dyke...	5	1	4	218	740	29·15	149
D Little Wittenham	J. Latham, Esq.	5	2	0	189	650	25·58	138
D Long Wittenham (Manor Ho.)...	Adm. W. R. Clutterbuck	12	1	0	170	817	32·17	139
D „ „ (Willington)...	H. J. Hewett, Esq.	5	1	0	167	804	31·66	160
Faringdon	Mr. C. Luker	5	1	0	333	836	32·90	...
D „ (Bleak House)	Miss Turner	5	1	0	367	876	34·48	171
D Abingdon (The Square House)...	E. Estridge, Esq.	5	1	9	180	764	30·08	152
„ (Twickenham House)...	Mr. A. Fawdry	5	10	0	210	747	29·40	142
„ (Caldecott House) ...	Maj.-Gen. T. M. Bailie...	5	0	7	177	694	27·32	...
D „ (Sewage Works)	G. Winship, Esq., C.E....	5	0	6	169	753	29·64	156
D „ Union	Mr. J. Fray	5	1	0	196	897	35·33	148
„ (Fitzharris)	Mrs. Blakeney	8	0	10	185	742	29·20	...
„ (Donnington)	R. W. Langford, Esq.....	5	1	6	196	784	30·87	150
„ (Northcourt House)...	M. T. Tatham, Esq.	5	1	0	190	747	29·41	...
Hinton Waldrist	Capt. F. C. Loder Symonds	5	3	6	331	835	32·88	...

DIVISION III.—SOUTH MIDLAND COUNTIES.

MIDDLESEX. (Area, 232 sq. mi.)

1.—THAMES—Colne & Brent. 185 sq. mi.								
D Shepperton Lock [Weybridge]...	R. A. Swarbrick, Esq.....	5	1	0	41	812	31·97	141
D Sunbury (Sunbury Lodge)	F. A. Walroth, Esq.	5	3	9	38	824	32·43	153
D Shepperton (Charlton Court) ...	Met. Water Board	8	1	0	40	782	30·77	144
D† Hampton	„ „ „	8	1	0	42	772	30·40	164
D „ Wick (Park House) ...	A. Shorter, Esq.....	5	1	0	28	851	33·50	135
D Staines (Belle Vue)	J. Gundry, Esq.	5	1	0	51	865	34·06	170
D „ Reservoir.....	Met. Water Board.....	5	1	0	50	810	31·87	163

DIVISION III.—SOUTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 01 in. or more
		Diam.	Height Above		1915			
			Ground	Sea Level				
		in.	ft.	in.	feet.	mm.	inches.	
MIDDLESEX—(con.)								
1.—THAMES—Colne & Brent—(con)								
D Twickenham (Sewage Works)...	F. W. Pearce, Esq., C.E.	5	1	7	37	824	32.42	156
D Hounslow (St. Stephen's Vicarage)	Rev. R. Dixon Box	5	1	0	67	814	32.05	167
D Isleworth (Mandeville House)...	A. Worsley, Esq.	8	1	0	24	1050	41.33?	154
Sipson (Hollycroft)	Mr. W. J. Mitchell	5	1	0	95	738	29.07	...
D† Kew Bridge (Waterworks)	Met. Water Board	8	1	0	37	832	32.77	154
D Chiswick (Grove Park)	A. E. Brounger, Esq.	5	1	1	18	803	31.62	161
D „ (Sewage Works)	E. Willis, Esq.	8	3	6	24	842	33.13	137
D Ealing (Webster Gardens)	H. M. Baker, Esq.	5	1	6	97	847	33.33	154
† „ (Longfield Avenue)	W. R. Hicks, Esq., C.E.	5	9	0	114	777	30.60	145
D† „ (St. Stephen's Road)	H. W. Peal, Esq.	5	0	10	156	831	32.72	160
† „ (Hanger Hill Reservoir)	Met. Water Board	5	1	0	...	831	32.70	...
D† Perivale (Northern Sewage Farm)	W. R. Hicks, Esq., C.E.	5	1	0	56	839	33.04	175
D† Willesden Reservoir	Met. Water Board	5	2	6	199	801	31.55	143
D† „ Green (Strode Road)	Miss Lamport	5	1	0	150	873	34.37	166
D „ „ (Richmond Avenue)	W. Godden, Esq.	5	5	3	175	858	33.78	155
D „ „ (Stonebridge Farm) (R)	O. C. Robson, Esq., C.E.	10	5	9	100	775	30.52	148
D Highgate (North Hill)	L. J. Tatham, Esq.	5	1	0	400	860	33.86	155
D „ „ „ (Depôt)	E. J. Lovegrove, Esq., C.E.	5	5	4	309	850	33.47	151
D Harrow (Bessborough Road Depôt)	J. P. Bennetts, Esq., C.E.	5	1	0	215	902	35.53	162
D† Golders Green (Highfield Avenue)	A. E. Payne, Esq.	5	1	0	175	824	32.45	147
D† Hendon Sewage Works (R)	S. S. Grimley, Esq., C.E.	6	1	8	153	751	29.56	145
Wealdstone House	Miss H. O. E. Cobb	5	0	11	236	758	29.83	...
Harefield (Harefield House)	Walter J. B. Byles, Esq.	5	0	8	290	878	34.55	...
D† Northwood (Haslemere)	Miss McBean	5	1	0	240	857	33.74	143
„ (The Knoll)	Mrs. Tilley	5	1	0	240	772	30.11	...
D Harrow Weald (Hill House)	A. Crossman, Esq.	5	3	6	284	839	33.02	174
D North Finchley	Miss M. Shoults	5	0	8	295	855	33.65	157
D† Mill Hill (Flower Lane)	Mrs. Edwards	5	1	0	250	864	34.01	146
† „ „ (Cleveland)	Mrs. Stewart King	5	1	0	400	864	34.03	...
† „ „ (The Hollies)	C. Wright, Esq.	5	1	0	350	806	31.74	...
Dyrham Park [Barnet]	Mr. H. Juniper	5	1	0	310	879	34.61	...
D Potters Bar (Mount Grace)	J. Forbes, Esq.	5	1	0	380	857	33.73	160
D „ „ (Little Heath)	Henry Ellis, Esq.	5	1	0	375	867	34.14	148
2.—THAMES—Lea. 47 sq. mi.								
D Crouch End (Barrington Road)	E. J. Lovegrove, Esq., C.E.	8	3	10	122	895	35.22	163
D Harringay (Wightman Rd. Depôt)	„ „ „	8	23	3	113	739	29.11	149
D Highgate (Avenue Road)	C. S. Nicholson, Esq.	5	1	0	212	911	35.85	153
Tottenham (Drayton Road)	Urb. Dist. Council per M.O.	5	1	3	27	805	31.70	146
D† Hornsey (High Street)	Met. Water Board	5	1	0	109	888	34.95	159
† Muswell Hill (Grand Avenue)	G. Michael Williams, Esq.	5	1	0	317	896	35.28	162
D „ „	Miss Abethell	5	0	10	410	954	37.58	183
D „ „ (Sewage Farm)	E. J. Lovegrove, Esq., C.E.	8	4	5	214	886	34.88	174
D Alexandra Park (Grove Avenue)	Ernest A. Lee, Esq.	5	1	0	235	882	34.74	159
D Wood Green (Maryland Road)	Mr. F. C. Hornsey	8	9	4	118	858	33.78	151
D „ „ (Town Hall) (R)	C. H. Croxford, Esq.	8	5	6	126	813	32.01	147
D† Finchley (Victoria Park)	C. J. Jenkin, Esq., C.E.	5	1	0	272	899	35.39	167
D „ „ (Etchingham Park)	Mrs. J. W. Scott	5	1	2	295	883	34.75	182
D Southgate (Reservoir Road)	W. B. Butler, Esq.	5	1	0	255	876	34.49	164
D Ponders End (Bylock Hall)	H. E. Freir, Esq.	5	1	0	50	792	31.18	170

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0·1 n. or more
		Diam.	Height Above Ground SeaLevel			1915		
		in.	ft.	in.	feet.	mm.	inches.	
MIDDLESEX—(con.)								
2.—THAMES—Lea—(con.)								
n† Ponders End Pumping Station...	Met. Water Board	8	1	0	45	769	30·26	150
Hadley Wood (Camlot).....	Miss Paget	5	1	1	350	846	33·30	...
n† Enfield (Southbury Road)	Met. Water Board	5	1	0	109	794	31·26	164
d „ (Public Offices).....	Dr. W. P. Warren.....	8	43	0	141	796	31·35	178
n† „ (Carisbrooke Culloden Rd.)..	J. McEwan, Esq.	5	1	0	204	856	33·72	171
d „ (Clay Hill).....	G. H. C. Lea, Esq.....	5	1	0	200	836	32·91	178
d „ (Roselands, Turkey Street)	E. S. Rashleigh, Esq....	5	0	7	80	765	30·13	156
d Potter's Bar (North Lodge)	W. Gundry, Esq.	5	1	0	332	827	32·55	153
HERTFORDSHIRE. (Area, 635 sq. mi.)								
1.—THAMES—Thame. 10 sq. mi.								
d Tring (Grove Lodge).....	Miss Boyson	8	1	0	450	833	32·78	170
d „ (Pendley Manor).....	Mrs. Williams	5	2	0	420	854	33·64	162
d „ (Cowroast Lock)	Gordon C. Thomas, Esq....	5	3	8	394	915	36·03	139
2.—THAMES—Colne. 199 sq. mi.								
d Gate House [Northwood]	O. S. Holt, Esq.....	8	4	6	448	841	33·10	161
d Rickmansworth (Moor Park)... ..	Lord Ebury.....	5	2	0	340	792	31·19	167
d „ (Croxley Green) ...	S. Ingleby Oddie, Esq....	5	0	7	250	857	33·73	142
n† Totteridge (West Lodge)	W. H. Newman, Esq.....	5	1	0	390	886	34·89	158
n† „ (Dollis Brae)	C. Stewart King, Esq....	5	1	0	350	842	33·17	150
n† Elstree (Aldenham House) ... (R)	Mr. E. Beckett	10	4	9	305	864	34·00	142
d Watford (Oxhey Grange)	J. Doyle Penrose, Esq....	5	1	0	295	856	33·72	146
d „ (Bushey Hall Road) ...	J. Durst, Esq.	5	1	2	230	857	33·73	153
n† Bushey (Colne Valley W.W.) ...	C. P. Sinclair, Esq.	5	1	0	200	858	33·77	169
n† Watford (London Orphan Asylum)	Rev. E. Hartley-Parker..	5	1	0	230	828	32·58	152
n† „ (Park Road).....	E. J. Slinn, Esq.	5	1	6	263	847	33·33	157
n† „ (Weetwood).....	J. Hopkinson, Esq.	5	1	0	269	886	34·90	166
† „ („)..... M	„ „ „ „	5	1	0	269	883	34·78	...
n† Shenley (Kitwells).....	T. H. Riches, Esq.	5	1	0	420	897	35·32	152
„ („)..... M	„ „ „ „	5	1	0	420	852	33·56	...
Sarratt (Goldingtons) (R)	P. Clutterbuck, Esq.....	8	3	0	360	909	35·80	...
† Chipperfield (Little Callipers) ...	A. W. Rivington, Esq....	5	1	0	407	836	32·93	...
n† Langley (Langley Rise)	T. Goldring, Esq.	5	1	0	360	862	33·93	154
d London Colney (Bowmans)	C. Barwell Field, Esq....	5	1	0	235	833	32·81	162
d Hemel Hempstead (Apsley Mills)	Messrs. J. Dickinson & Co.	24	1	4	260	840	33·07	174
d „ „ (Manor Estate)	C. A. Bracey, Esq.	5	1	0	...	863	33·99	163
d St. Albans (Hill End Asylum)...	G. Goodchild, Esq.	5	1	0	295	837	32·95	141
d „ (County Museum) ...	J. Hopkinson, Esq.	5	1	0	389	881	34·69	160
d „ (Jennings Road).....	M. L. Nicholas, Esq. ...	5	1	6	380	855	33·66	169
d „ (Gorhambury).....	Mr. W. Newberry	5	1	0	423	960	37·79	194
n† Berkhamsted (Anglefield).....	E. T. Browne, Esq.	5	1	0	450	890	35·04	160
n† „ (Rosebank)	E. Mawley, Esq.	8	1	0	401	840	33·07	163
† „ („)..... M	„ „ „ „	8	1	0	401	842	33·16	...
d Childwickbury Gardens.....	Mr. T. Nutting	12	1	0	400	922	36·31	150
d Gt. Gaddesden (Golden Parsonage)	Elliott Kitchener, Esq....	8	1	0	536	865	34·05	195
Harpenden (Rothamsted)	Lawes Agricultural Trust	5	0	9	420	840	33·09	161
„ { „ }	„ „ „ „	8	0	9	420	822	32·37	161
d „ { „ }	„ „ „ „	72X87	0	9	420	911	35·86	198

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DIVISION III.—SOUTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above		1915			
			Ground	Sea Level				
		in.	ft.	in.	feet.	mm.	inches.	
HERTFORDSHIRE—(con.)								
3.—THAMES—Lea. 340 sq. mi.								
▮ New Barnet (Green Hill Park)...	Mr. W. Lockyer	5	2	2	289	896	35.27	159
▮ Barnet (Summerhill)	F. A. Milne, Esq.	5	0	10	400	860	33.87	163
▮ „ (Bedford Avenue)	Miss Haines	5	1	3	350	917	36.12	186
▮ Hadley (Hadley Bourne)	Mrs. Weber	5	1	0	430	956	37.62	169
Cheshunt (Manor House)	J. E. Sharpe, Esq.	5	1	0	83	776	30.53	...
▮ „ (Goff's Oak House) ..	W. M. Cunningham, Esq.	5	1	0	310	784	30.85	172
▮† „ Yard	Met. Water Board	5	1	0	100	726	28.57	155
▮ „ (Darnicle Hill Pump Stat.)	J. E. Sharpe, Esq.	5	1	0	250	881	34.70	174
▮ Northaw (St. Just)	Miss Poland	5	1	0	400	917	36.10	179
▮† Broxbourne (Stafford House) ..	A. F. Newbery, Esq.	5	1	0	118	787	30.99	160
▮† Hoddesden (Feilde's Weir)	Met. Water Board	8	3	8	95	783	30.83	162
▮ Haileybury (Hailey House)	P. H. Latham, Esq.	5	1	0	260	773	30.43	176
▮ „ College	A. A. Lea, Esq.	8	1	0	270	787	30.98	166
▮ Gilston Park	Mr. E. Leach	8	1	0	175	758	29.83	153
▮ Hatfield (Holwell House)	Wilfrid E. Laurie, Esq. ...	5	1	6	240	815	32.10	142
▮ „ (Surveyor's Office)	J. S. Killick, Esq., C.E. ...	5	1	0	270	794	31.27	151
▮ Hertford (Bayfordbury)	H. W. Clinton Baker, Esq.	8	1	2	250	784	30.86	169
▮ Stanstead Abbots	E. H. Barlow, Esq.	5	1	2	115	762	30.02	141
▮† Hertford (Sewage Works)	Met. Water Board	8	1	0	117	719	28.32	158
▮† Ware (Red House)	„ „ „	5	1	0	115	716	28.20	161
▮† „ (Chadwell Spring)	„ „ „	5	1	0	...	738	29.05	163
▮ Wareside Vicarage	J. W. B. Higgins, Esq. ...	5	1	0	201	722	28.41	168
▮ Welwyn (Bridge House)	Dr. B. W. Thomas	5	2	3	216	939	36.98	154
▮ „ (Codicote Lodge)	Mr. F. A. Akers	5	1	0	340	816	32.13	172
▮ Much Hadham	T. Woodham Mott, Esq. ...	5	1	0	212	701	27.59	151
Standon	F. H. Wace, Esq.	5	1	0	385	607	23.88?	...
▮ Bennington House	Miss E. A. Parker	5	1	0	406	738	29.07	174
▮† „ Lordship	A. F. Bott, Esq.	5	0	10	365	763	30.05	172
▮ Little Hadham (Hadham Hall) ..	W. Minet, Esq.	5	0	10	338	658	25.90	155
▮ Buntingford (Hamels Park)	late H. Shepherd Cross, Esq.	5	1	3	390	749	29.49	170
▮ „ (Westmill, Coles Pk.) ..	T. Greg, Esq.	5	1	0	379	668	26.29?	152
▮ Hitchin (Preston)	R. de V. Pryor, Esq.	8	2	5	480	730	28.76	157
▮ Weston Park	M. R. Pryor, Esq.	5	0	8	470	751	29.57	154
Little Hormead (Mutford's Farm)	J. S. How, Esq.	5	1	0	310	693	27.27	...
▮ Buntingford (Throcking Rectory)	Rev. B. W. Harvey	5	1	0	487	753	29.63	160
▮ Royston (Therfield Rectory)	Mr. J. Cracknell	5	1	0	513	706	27.78	161
4.—OUSE. 86 sq. mi.								
▮ Offley (School House)	C. W. Mears, Esq.	5	1	0	526	749	29.48	172
▮ „ Vicarage	Rev. E. P. Gatty	5	1	6	525	741	29.16	152
▮ Graveley Rectory	Rev. R. E. C. Walker	5	0	10	325	791	31.15	158
▮† Hitchin (The Chilterns)	F. Ransom, Esq.	5	0	9	300	700	27.58	170
▮ „ (Chiltern Road)	A. Latchmore, Esq.	5	1	0	297	667	26.26	169
▮† „ (High Down)	Miss E. Pollard	5	1	1	422	703	27.67	160
▮ „ (Roxley House, Willian)	Mrs. H. Bendixson	5	1	6	370	657	25.87	155
▮ Letchworth (Garden City)	A. W. E. Bullmore, Esq. C.E.	5	1	0	218	626	24.66	152
▮ „ (Gernon Road)	A. W. Brunt, Esq.	5	1	0	290	663	26.11	189
▮ Baldock (High Street)	Dr. F. W. Langston Day ...	5	1	0	214	637	25.09	158
▮ Royston (Barley)	W. W. Cook, Esq.	5	1	0	300	704	27.72	171
▮ „ (Earlshill House)	J. Phillips, Esq.	8	1	6	225	692	27.23	175

DIVISION III.—SOUTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above Ground.		SeaLevel	1915		
		in.	ft.	in.	feet.	mm.	inches.	
BUCKINGHAMSHIRE. (Area, 743 sq. mi.)								
1.—THAMES—Cherwell. 30 sq. mi.								
2.—THAMES—Thame. 158 sq. mi.								
D Wendover (Halton Gardens).....	Mr. R. C. Sanders.....	5	1	10	400	877	34.52	164
D Weston Turville (Yaxley Lodge)	Miss Morris.....	5	1	1	335	774	30.46	158
Bulbourne [Tring]	Gordon C. Thomas, Esq....	5	2	3	401	862	33.93	...
Mentmore Gardens	Mr. J. MacGregor	5	1	2	400	750	29.52	...
3.—THAMES—Wye & c. 129 sq. mi.								
D Eton (Tangier Islands)	E. A. Stickland, Esq. ...	5	1	0	67	900	35.45	144
† Slough (Upton)	M R. Bentley, Esq.	8	2	0	80	792	31.17	...
D† „ („)	„ „ „ „	5	2	0	78	827	32.55	168
D „ (Hitcham Grange).....	Hon. C. S. Irby	5	0	9	200	748	29.47	148
Burnham (Burnham Cottage) ...	G. J. Williams, Esq.....	5	3	0	182	806	31.73	...
Farnham Royal (The Chase).....	F. C. Carr-Gomm, Esq....	5	3	0	169	838	32.99	142
Stoke Poges (Stoke Court)	H. Allhusen, Esq.....	8	1	4	196	803	31.62	...
D Greenlands [Henley-on-Thames]	Lord Hambleden	8	1	3	116	863	33.97	145
D Hedsor	Lord Boston	8	1	0	170	952	37.47	148
D Bourne End (The Bourne)	A. Morse, Esq.	5	1	0	240	843	33.20	152
D Marlow (Thames Bank)	S. H. Wright, Esq.	8	2	0	105	932	36.69	174
D High Wycombe	H. S. Wheeler, Esq.	5	0	11	253	889	35.00	178
D Penn (Rayners)	Sir P. F. Rose, Bart.....	5	1	3	547	976	38.41	176
Bradenham House	Mrs. Tempest	8	0	6	420	906	35.65	...
D Hampden House.....	The Earl of Buckinghamshire...	5	1	0	690	838	33.00	160
4.—THAMES—Colne. 133 sq. mi.								
D Slough (Langley)	R. H. Major, Esq.....	8	0	10	85	808	31.83	148
D Chalfont St. Peter (Chalfont Park)	Mr. G. Barrell	5	1	0	201	899	35.38	160
D „ „ („ Cottage)	Miss Hibbert	5	1	1	265	851	33.49	149
D Chalfont St. Giles (The Stone)...	Col. R. W. Phipps.....	5	1	0	270	896	35.27	175
D „ „ („) M	„ „ „ „	5	1	0	270	894	35.18	...
D „ „ (Roughwood Barns)	Mrs. Sandford Fawcett ...	8	1	0	365	862	33.94	145
D† Amersham (St. Mary's Sch.) No. 1	W. Garton, Esq.	5	0	10	340	916	36.06	143
D „ „ („ „ „) No. 2	„ „ „ „	5	1	0	340	925	36.40	146
D† „ „ (The Plantation) ...	G. Weller, Esq.....	8	1	0	464	980	38.59	164
D „ „ (Latimer Ho. Gardens)	Mr. W. Stephens	8	1	7	400	932	36.69	166
5.—OUSE. 293 sq. mi.								
D Oving House	H. Yates Thompson, Esq.	5	1	0	515	738	29.06	163
D „ „ „ „ M	„ „ „ „	5	1	6	515	732	28.81	...
Wing (Burcott)	Richard H. Ayres, Esq....	5	1	6	407	716	28.21	...
Winslow (Norden House).....	Dr. T. F. Vaisey.....	5	0	9	...	787	31.00	...
D Addington (C. of E. School).....	J. H. Webster, Esq.	5	0	8	350	764	30.08	154
Stockgrove Pk. [Leighton Buzzard]	Mr. J. Clues	5	1	2	500	689	27.11	...
D Buckingham (Adstock Fields)...	W. Weston, Esq.	5	0	9	352	710	27.95	166
Old Tile House Gardens	Mr. W. Boulton.....	5	1	5	420	743	29.24	157
D Stony Stratford (Calverton Limes)	Mrs. Hawkins	5	1	8	230	709	27.92	146
D Wolverton (St. George's Vic.)...	Rev. W. L. Harnett	5	1	0	270	714	28.11	176
D „ „ (The School House)...	H. J. Hipsley, Esq.....	5	1	0	264	696	27.39	166
D „ „ (Council School)	„ „ „ „	5	5	0	263	692	27.24	...
D Newport Pagnell (The Croft) ...	F. Littleboy, Esq.....	5	2	0	191	706	27.80	162
D „ „ „ „ (Lovat Bank)...	F. J. Taylor, Esq.....	5	2	0	190	679	26.72	152

DIVISION III.—SOUTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
OXFORDSHIRE. (Area, 756 sq. mi.)								
1.—SEVERN—Upper Avon. 10 sq. mi.								
D Sibford Ferris (Woolman Cottage)	Joshua Lamb, Esq.	5	1	0	590	767	30.19	159
Sibford Gower	O. Hooper, Esq.	5	1	4	600	792	31.18	...
2.—THAMES—Windrush & c. 261 sq. mi.								
Filkins	F. Dawson, Esq.	5	1	2	293	845	33.28	168
D Kencot Rectory	Rev. H. E. Cooper	5	1	0	290	856	33.72	177
Witney (Cokethorpe)	Capt. H. G. Feilden .....	...	...	...	270	745	29.32	...
D „ (Ringwood Farm)	J. W. Abraham, Esq.	5	5	0	400	744	29.28	144
Freeland House Gardens	Mr. W. J. Short	8	0	10	345	756	29.75	...
Charlbury (Finstock)	H. W. Powell, Esq.	5	1	9	427	888	34.96	184
„ (Cornbury Park)	Mr. B. Campbell	5	1	0	435	830	32.68	...
D „ (Wychwood House)	J. H. Glen, Esq.	5	0	8	450	760	29.93	181
D Wootton Rectory	Rev. F. R. Marriott	5	0	10	370	834	32.83	151
Fifield (Fifield House)	E. W. Bishop, Esq.	5	1	0	480	594	23.37?	...
D Lyneham	R. de M. Pratt, Esq.	5	1	7	351	821	32.33	173
Glympton Park	Major G. H. Barnett .....	...	...	...	...	730	28.73	...
D Chadlington (Langston House) ..	Lt.-Col. F. W. Schofield ..	5	0	11	420	787	30.99	139
Sarsden (Estate Office)	(R) J. M. Blair, Esq.	8	3	0	492	706	27.79	...
Steeple Barton School	C. Ayres, Esq.	5	1	0	396	793	31.21	171
D Chipping Norton (The Bungalow)	T. H. Burbidge, Esq.	5	1	0	700	786	30.93	158
D „ „ (Heythrop) ..	Albert Brassey, Esq.	10	4	0	700	688	27.08	156
3.—THAMES—Cherwell. 250 sq. mi.								
Nuneham Park Gardens	Mr. C. E. Munday	8	3	0	280	726	28.58	...
Cowley	E. C. Thorn, Esq.	5	1	3	267	870	34.24	157
D† Oxford (Hincksey Pumping Sta.)	W. H. White, Esq., C.E.	8	1	0	187	774	30.46	170
„ (Osney Lock)	H. R. Wakelin, Esq.	5	2	0	186	775	30.50	151
D „ (Magdalen College)	J. J. Manley, Esq.	5	1	0	186	746	29.38	165
„ „ „ „ „ „ „ „ „ „	„ „ „ „ „ „ „ „ „ „	5	33	11	223	690	27.17	...
D† „ (Radcliffe Observatory) ..	Dr. A. A. Rambaut, F.R.S.	8	1	8	210	799	31.44	167
D† „ „ „ „ „ „ „ „ „ „	„ „ „ „ „ „ „ „ „ „	11	2	4	210	820	32.30	173
D „ (Banbury Road)	Miss E. M. Tawney	5	1	1	211	776	30.54	158
D Headington (Warneford Asylum)	Dr. A. W. Neill	5	1	0	300	743	29.25	143
D „ (Charlton Lea)	Mr. L. Dawes	5	1	0	300	792	31.20	154
D Elsfield Manor House	Miss M. J. Parsons	5	1	0	355	782	30.77	170
Islip	Col. G. E. Eliot	5	3	0	200	741	29.16	...
D Hampton Poyle Rectory	Rev. S. T. Gwilliam	5	1	0	201	735	28.95	154
Charlton-on-Otmoor School	E. Cartwright, Esq.	6	1	3	197	822	32.37	...
Bicester (Launton School)	F. A. Harrison, Esq.	5	1	0	246	770	30.31	...
Steeple Aston School	G. O. Porter, Esq.	5	0	5	445	780	30.71	166
D „ „ (The Grange)	Miss Bradshaw	8	1	0	400	805	31.68	177
D „ „ (Hill House)	B. S. Ogle, Esq.	5	0	5	400	780	30.71	166
D Swerford	W. Hall, Esq.	5	1	0	500	849	33.42	177
West Adderbury (St. Amand's) ..	Miss M. M. Bradford	8	1	0	320	736	28.97	149
D Adderbury (Cross Hill) ..	G. H. Norris, Esq.	5	1	1	338	661	26.04	149
„ (The Rookery)	C. C. Bradford, Esq.	8	1	0	323	707	27.84	165
D Bodicote House	J. F. Starkey, Esq.	8	1	3	388	731	28.78	155
„ (Draycott House)	F. B. Judge Baldwin, Esq.	5	1	8	391	670	26.39	146
D „ Vicarage	Rev. H. N. Fowler	5	1	0	390	671	26.40	158
Broughton Rectory	Rev. B. W. Bradford	5	0	6	370	724	28.49	167
Wroxton	Hon. Mrs. FitzGerald	12	2	6	700	707	27.84	178

DIVISION III.—SOUTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with "01 in. or more	
		Diam.	Height Above			1915			
			Ground.	Sea Level		mm.	inches.		
NORTHAMPTONSHIRE—(con.)									
4.—NENE—(con.)									
	Courteenhall Grange.....	Capt. G. M. Archdale.....	5	0	11	280	602	23.72	139
D	Blisworth (Crieff House)	A. Westley, Esq.	5	1	0	330	642	25.26	161
D	"	T. W. Millner, Esq.	5	1	6	300	614	24.17	176
D	Litchborough Hall.....	Major C. A. Markham...	5	1	10	500	709	27.92	158
D	Castle Ashby	R. G. Scriven, Esq.	5	1	0	263	661	26.04	180
D	Little Houghton House.....	Christopher Smyth, Esq.	5	2	2	271	660	25.97	160
D	Northampton (Dallington Av.)...	Major C. A. Markham...	5	1	0	265	571	22.49	168
D	" (Kingsley Road)...	R. H. Primavesi, Esq. ...	5				605	23.82	168
D	" (General Hospital)...	Major C. A. Markham...					577	22.73	150
	Hazelborough Woods.....	H. Gulliver, Esq., per M.O.	8	1	0	241	746	29.39	155
D	Great Billing Rectory	Rev. G. H. Mullins	8	1	6	275	627	24.69	179
D	Daventry (Tunnel End)	T. W. Millner, Esq.	5	1	6	394	695	27.36	189
D	Great Brington	Major C. A. Markham...	5	2	9	448	600	23.61	149
D	Althorp House	Mr. C. F. Crump	5	1	0	400	633	24.92	162
D	Sywell Hall	T. A. Dickson, Esq.	5	1	0	371	643	25.30	151
D	Pitsford (Sedgebrook)	Major C. A. Markham...	5	1	0	311	602	23.69	161
	" (")	M	5	1	0	311	631	24.83	...
D	Rushden (Alfred Street School)...	S. Saddler, Esq.	5	1	3	200	560	22.04	155
D	Wellingborough (Swanspool) ...	N. Pearce Sharman, Esq.	5	0	2	155	629	24.77	158
D	" (Bushfield W.W.)	R. S. Henshaw, Esq., C.E.	8	0	11	286	616	24.27	157
D	Watford Court	Major C. A. Markham...	9	1	2	380	700	27.54	142
D	Ravensthorpe (Coton Mill)	G. S. Eunson, Esq.	5	1	0	355	646	25.42	162
D	Brixworth Hall	Mr. J. Sutherland	8	0	8	400	625	24.59	149
	Scaldwell.....	Capt. R. Soames	5	1	0	404	593	23.34	...
	Lampert Hall Gardens	Mr. F. Howard	8	1	2	440	643	25.31	...
D	Raunds (Day School)	Léon G. H. Lee, Esq.	8	1	0	205	600	23.64	145
D	Cranford (Woodford House).....	E. N. Plevins, Esq.	8	1	0	252	565	22.25	153
D	Kettering W.W. (Cransley)	T. R. Smith, Esq., C.E...	8	0	6	275	616	24.26	161
D	" (Sewage Works)	" " "	8	1	0	199	598	23.55	167
D	" W.W. (Thorpe Malsor)	" " "	5	0	11	352	655	25.80	163
D	" " (Clover Hill)...	" " "	5	0	7	344	622	24.49	153
	" (Warkton)	Mr. R. H. Brett.....	5	1	3	275	617	24.30	136
	Rothwell (Loddington)	Mr. J. Oliff.....	5	1	0	400	648	25.51	143
D	Thrapston (Union Bank)	Major C. A. Markham ...					578	22.76	151
	" (The Limes).....	L. G. Cottingham, Esq...	5	1	0	106	519	20.44	...
	" (Islip)	J. Edmonds, Esq.	5	1	6	145	550	21.67	...
	" (Drayton House).....	" " "	5	1	6	220	669	26.35	152
	Kelmarsh Rectory	Rev. J. Clifford Wall ...					693	27.28	...
D	Clopton Manor	Mrs. Buckley	6	0	11	245	648	25.51	195
D	Aldwinkle St. Peter Rectory ...	Major C. A. Markham ...	5	0	11	175	583	22.94	158
D	Rushton Manor	R. A. Willows, Esq.	5	1	0	400	666	26.24	156
D	Rothwell (Shotwell Mill)	G. Kilborn, Esq.	5	1	6	323	631	24.85	151
	Barnwell (Lilford Hall)	Mr. F. W. Gallop	5	1	0	...	616	24.26	148
	Oundle (Milton Road)	J. M. Siddons, Esq.	5	3	4	131	603	23.73	...
D	" Waterworks	N. E. Dixon, Esq., C.E...	5	1	0	147	640	25.20	148
	" School	F. W. Sanderson Esq. per MO	7	1	1	147	632	24.88	139
D	Corby (Weldon Grange)	John Rooke, Esq.	8	1	0	342	660	25.97	191
D	Peterborough (Westbourne Ho.)	E. H. Colman, Esq.	8	1	0	38	594	23.37	160
D	" (Ashfield)	J. A. Percival, Esq.	5	0	7	30	553	21.77	159

DIVISION III.—SOUTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above Ground Sea Level			1915		
		in.	ft.	in.	feet.	mm.	inches.	
NORTHAMPTONSHIRE—(con.)								
4.—NENE—(con.)								
D Peterborough (Abbeyfields)	Major J. Shipley Ellis	5	0	6	49	606	23·85	163
D „ (Milton House)	Major C. A. Markham .....	...	...	...	...	638	25·10	148
D Wittering Rectory	Rev. S. B. Warde	5	1	0	180	647	25·48	165
D Eye (Northolm)	S. W. Egar, Esq.	5	1	0	17	580	22·84	178
D „ (Newborough)	R. Williams, Esq.	5	1	0	8	599	23·58	163
5.—WELLAND. 96 sq. mi.								
D Marston Trussell Rectory ... (R)	Rev. J. Knight Law.....	10	2	6	314	683	26·90	158
D Dingley Hall [Market Harboro']	Maj.-Gen. Lord Downe...	5	1	6	400	689	27·12	152
Carlton Park Gardens	Mr. R. W. Thatcher	5	1	1	400	645	25·40	...
Rockingham Castle Gardens.....	Major C. A. Markham ...	5	4	4	300	658	25·92	...
D Gretton (Gretton House)	Mr. J. Rogers	5	1	0	354	656	25·83	154
D „ School	W. Leeson, Esq.	5	0	6	363	655	25·79	157
Kings Cliffe (Fineshade Abbey) ..	Major C. A. Markham ...	5	0	9	200	663	26·11	...
Colleyweston (Cuckoo Lodge)	T. Booth, Esq.	8	3	0	300	627	24·69	...
Wittering (Whitewater)	late „ „ „	8	3	0	241	647	25·48	138
D Etton [Market Deeping]	late J. C. Gill, Esq., C.E.	8	1	0	25	605	23·82	141
HUNTINGDONSHIRE. (Area, 366 sq. mi.)								
1.—OUSE. 327 sq. mi.								
D St. Neots (Waresley Park)	Col. Duncombe	5	0	11	190	672	26·45	161
D „ (Great Paxton)	Rev. A. G. Cane.....	5	1	0	100	614	24·16	136
D Fenstanton	Rev. N. Royds	5	0	8	50	631	24·86	157
D Hemingford Grey	G. F. Wilson, Esq.....	5	1	6	20	558	21·93	150
D Huntingdon (Brampton Grange)	Rev. A. T. Thompson.....	5	1	6	47	616	24·27	139
D „ (Bosworth House) ..	H. Lucas, Esq.	5	5	9	40	609	23·99	168
D „ (Hinchingbrooke)(R)	the late Earl of Sandwich	10	6	0	74	602	23·71	154
D St. Ives (Slepe House)	Dr. W. R. Grove	5	1	0	25	668	26·28	165
D Catworth.....	Miss Pashler	5	0	9	210	611	24·04	161
D Whittlesea Mere	A. Lunn, Esq., C.E.	8	1	6	10	557	21·94	130
2.—NENE. 39 sq. mi.								
Ramsey (Puddock Bridge)	Mr. A. Johnstone	5	2	0	20	535	21·06	...
BEDFORDSHIRE. (Area, 467 sq. mi.)								
1.—THAMES—Colne. 20 sq. mi.								
Dunstable (Kensworth Vicarage)	Mrs. Litle	5	1	3	585	820	32·29	...
Luton (Stockwood)	E. R. Crawley, Esq.....	5	3	0	539	777	30·58	160
2.—THAMES—Lea. 32 sq. mi.								
D Luton (Pumping Station).....	J. W. Tomlinson, Esq., C.E.	5	1	0	343	704	27·72	152
D „ (Tennyson Road)	Harold F. Smith, Esq....	5	1	1	530	790	31·10	166
D „ (The Downs)	G. W. Pryer, Esq.....	5	1	0	479	819	32·23	153
D Dunstable (The Grammar School)	W. D. Coales, Esq.	5	0	8	480	780	30·71	190
3.—OUSE. 408 sq. mi.								
D Woburn (Milton Bryant).....	Mr. C. J. Kilby	5	1	0	510	711	27·99	143
D Harlington Vicarage.....	Mrs. Hodgson.....	5	1	0	400	640	25·18	143
D Shillington	Kilham Roberts, Esq	5	1	0	182	642	25·26	147
D Ampthill (Higham Bury).....	E. J. Jekyll, Esq.	5	1	0	310	659	25·94	149
Shefford (Upper Stondon).....	R. Long, Esq.	5	1	0	241	599	23·58	...

DIVISION III.—SOUTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with '01 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
BEDFORDSHIRE—(con.)								
3.—OUSE—(con.)								
Apsley Guise (Oaklands)	Mrs. Dymond	5	1	0	410	645	25·39	157
Woburn (Crawley Mill Farm)	J. Crabtree, Esq.	8	1	0	292	675	26·58	167
„ (Fruit Farm, Ridgmont)	W. H. Neild, Esq.	5	1	0	270	712	28·02	173
Stotfold (Three Counties Asylum)	Dr. L. O. Fuller	5	1	0	220	606	23·87	158
Shefford (Clifton Bury)	A. Inskip, Esq.	5	2	1	150	651	25·64	...
„ Council School	G. F. Alldritt, Esq.	5	1	0	134	670	26·36	183
„ Hardwicke	H. Inskip, Esq.	5	1	0	60	634	24·97	...
Biggleswade (Waterworks)	H. Carne, Esq., C.E.	5	1	6	170	602	23·68	165
„ (Old Warden Park)	Mr. W. C. Modral	8	1	2	90	715	28·14	145
Sandy (The Lodge)	R. Ll. Farley, Esq.	5	1	0	200	633	24·91	...
„ (Beeston Grange)	Col. Maunsell Bowers	5	1	0	77	690	27·16	172
Bedford (The Park)	N. Greenshields, Esq.	8	5	8	123	542	21·36	151
„ (Castle Road)	Miss M. E. Newbery	5	7	0	108	622	24·49	151
Goldington (Castle Mills)	W. H. Rogers, Esq.	5	1	6	90	623	24·51	...
Great Barford House	J. Arnold Whitechurch, Esq.	5	1	0	120	622	24·47	145
Sharnbrook (Castle Close)	L. Stileman-Gibbard, Esq.	5	0	4	210	658	25·91	159
„ (Colworth Gardens)	Mr. J. Hoad	5	2	0	250	663	26·12	151
4.—NENE. 7 sq. mi								
CAMBRIDGESHIRE. (Area, 859 sq. mi.)								
1.—STOUR. 17 sq. mi.								
2.—OUSE. 740 sq. mi.								
Odsey [Ashwell]	Sir H. G. Fordham	5	1	0	256	652	25·65	169
Abington Pigotts	Mr. J. N. Woodham	5	0	8	130	626	24·64	...
Shudy Camps Vicarage	Rev. J. W. Timson	5	1	0	375	707	27·84	...
Melbourne Vicarage	Mrs. de Courcy-Ireland	5	1	2	78	715	28·15	164
Meldreth (Chiswick Farm)	A. Howard, Esq.	5	1	1	70	646	25·45	154
Fowlmere (Fruit Farm)	H. F. Smith, Esq.	5	1	0	75	580	22·83	158
Foxton (The Bury)	J. Gifford, Esq.	5	1	0	60	646	25·45	177
Great Abington (Abington Hall)	Mr. F. Ripley	3	0	7	90	655	25·78	161
Whittlesford (Sawston Hall)	D. L. Huddleston, Esq.	5	1	1	86	677	26·67	157
Harston Vicarage	Mrs. C. M. Baldwin	5	0	8	47	638	25·12	149
Wimpole Hall	Mr. W. J. Snell	5	1	0	141	636	25·05	172
Little Shelford Manor House	Miss M. C. Walton	5	1	0	52	654	25·75	137
Stapleford House	J. H. H. Linton, Esq.	5	2	3	64	661	26·01	151
Balsham Rectory	Rev. H. J. E. Burrell	5	1	6	399	673	26·48	...
West Wrattling Park	P. L. Babington, Esq.	5	1	0	391	689	27·11	172
Weston Colville	Gerald H. Long, Esq.	5	1	0	327	664	26·16	...
Trumpington	C. Parsons, Esq.	5	1	0	60	650	25·57	156
Grantchester Mill	J. Nutter, Esq.	5	5	0	31	639	25·15	151
Cambridge W.W. (Fleam Dyke)	W. W. Gray, Esq., C.E.	5	1	5	99	608	23·95	175
„ „ (Fulbourne)	„ „ „	5	1	0	37	606	23·85	180
„ „ (Cherryhinton)	„ „ „	5	1	0	35	630	24·79	173
„ (Mount Pleasant)	W. F. Hicks, Esq.	5	1	3	65	652	25·69	175
„ (Hills Road, South)	Smith Nutter, Esq.	8	0	10	40	656	25·83	174
„ (Herschel House)	C. N. H. Lock, Esq.	5	1	0	36	585	23·04	...
„ (Sidney Street)	Messrs. W. E. Pain & Sons	8	53	0	83	608	23·95	172
„ (Corporation Store Yd.)	Julian Julian, Esq., C.E.	5	1	0	52	617	24·28	164

DIVISION III.—SOUTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above Ground		SeaLevel	1915		
		in.	ft.	in.	feet.	mm.	inches.	
CAMBRIDGESHIRE—(con.)								
2.—OUSE—(con.)								
† Cambridge (Tenison Avenue) ...	W. B. Parsons, Esq.	8	1	2	40	637	25·09	158
† „ (Pinehurst).....	C. F. Foster, Esq.	5	0	10	36	630	24·81	168
† „ (Botanic Gardens) ...	R. Irwin Lynch, Esq.	8	1	1	43	610	24·00	151
„ „ (Corporation Pumping Sta.)	Julian Julian, Esq., C.E.	5	1	0	28	671	26·41	184
„ „ (Quy Hall)	T. Musgrave Francis, Esq.	5	0	5	24	667	26·25	179
„ Croxton Park.....	G. D. Newton, Esq.	5	2	6	200	762	29·99	142
„ Boxworth [St. Ives] ..	E. H. Thornhill, Esq.	5	1	0	76	733	28·86	178
„ Swaffham Prior Vicarage	Rev. L. Fisher	5	1	0	44	575	22·63	162
„ Burwell	R. Stephenson, Esq.	5	2	0	58	597	23·51	154
„ Conington Hall [St. Ives]	Philip T. Gardner, Esq.	8	0	5	50	746	29·35	173
„ Cottenham (Bernard House).....	A. Bull, Esq.	5	2	0	30	700	27·54	146
„ Soham	T. Everett, Esq.	5	2	0	25	555	21·85	136
„ Stretham Engine	Mr. J. Housley	9	4	9	13	580	22·82	149
„ „ (Orchard House)	C. Wright, Esq.	8	5	0	42	566	22·28	141
„ Wilburton Manor	Albert J. Pell, Esq.	5	1	5	50	654	25·76	160
„ Ely (The Palace)	Mr. A. Sewell.....	5	1	0	64	632	24·89	178
„ „ (The Red House)	Capt. J. H. Mander	5	1	6	85	605	23·83	162
„ Chatteris (Holwood Farm)	Mr. G. Argent	5	0	10	12	668	26·32	...
„ „ (The Ferry) ..	Capt. B. J. Walker	5	0	10	23	584	22·98	...
„ Mepal Engine.....	Mr. J. Goodman.....	5	20	6	25	480	18·90	...
„ Littleport (Highfield House) ...	H. G. Martin, Esq.	8	2	7	67	599	23·58	151
„ Chatteris (Aylesby House)	A. H. Ruston, Esq.	8	1	0	31	631	24·83	135
„ „ (The Priory)	H. F. Fryer, Esq.	5	0	7	31	575	22·64	134
„ March	A. Lunn, Esq., C.E.	9	2	0	10	694	27·34	149
„ Upwell (Marmont Priory Lock) ..	„ „ „	8	1	1	...	615	24·20	177
„ „ (Euximoor House)	Mr. J. W. Day	5	0	8	15	643	25·33	140
„ Wisbech (Queen's Road)	H. Dann, Esq.	5	7	6	10	615	24·20	147
3.—NENE. 102 sq. mi.								
„ Stanground Sluice	A. Lunn, Esq., C.E.	8	1	6	15	581	22·89	159
„ Thorney (Bedford Office)	Hugh R. Brodie, Esq.	8	3	6	9	574	22·58	163
„ Parson Drove (Clows Cross)	W. Kingston, Esq.	8	3	0	13	636	25·06	160
„ Wisbech (Bank House).....	Lord Peckover of Wisbech	8	0	8	6	615	24·22	140
„ „ (Monica Road)	F. W. Climenson, Esq.	8	1	2	6	668	26·31	159

DIVISION IV.—EASTERN COUNTIES.

ESSEX. (Area, 1532 sq. mi.)

1.—THAMES—Lea. 132 sq. mi.								
„ West Ham (Abbey Mills).....	London County Council...	8	1	0	11	766	30·17	157
„ Leyton (Town Hall)	E. H. Essex, Esq.	5	1	0	22	694	27·33	139
„ Leytonstone (High Road)	Miss G. Lister	5	1	6	100	783	30·81	138
† Lea Bridge (Waterworks).....	Met. Water Board.....	8	0	6	23	758	29·83	149
† Walthamstow (Ferry Lane).....	Met. Water Board.....	5	0	10	30	763	30·04	164
† Woodford (Haggar Lane)	„ „ „	8	0	8	176	750	29·51	150
† Buckhurst Hill Reservoir.....	„ „ „	8	1	7	275	788	31·04	156
„ „ „ (Ardmore)	Mrs. Eliot Howard	8	1	0	270	905	35·64	145
„ Chingford	Walthamstow Guardian ...	...	...	...	...	771	30·37	...

DIVISION IV.—EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.		Days with .01 in. or more	
		Diam.	Height Above		1915			
			Ground	Sea Level				
ESSEX—(con.)		in.	ft.	in.	feet.	mm.	inches.	
1.—THAMES—Lea—(con.)								
† Chingford Mill	Met. Water Board.....	8	0	6	40	754	29·69	156
„ (Sewardstone Lodge)...	Mr. F. Goody	8	0	10	200	728	28·66	...
† Loughton (High Beech Reservoir)	Met. Water Board.....	8	1	0	376	817	32·15	157
† Waltham Abbey (Ramney Marsh)	„ „ „	8	1	0	60	726	28·59	153
† „ „ Pumping Station	„ „ „	8	5	0	66	785	30·92	147
„ „ (Gunpr. Factory)	The Superintendent	5	2	0	64	634	24·97	183
† Hatfield Broad Oak (Barrington Hall)	A. H. Gosling, Esq.	5	0	10	300	746	29·35	166
† Hassobury [Bishop Stortford] ...	L. D. Gosling, Esq.	5	0	10	290	748	29·43	188
† Elsenham (Gaunts End)	H. Cotterell, Esq.	5	1	0	363	798	31·41	157
2.—THAMES—Roding & c. 316 sq. mi.								
† Grays (Stanley Road)	A. C. James, Esq., C.E. ...	5	3	3	21	743	29·24	166
„ „ Sewage Works	L. D. Holgate, Esq.	8	2	3	9	664	26·15	150
† East Ham Well	Met. Water Board.....	8	0	11	17	737	29·03	158
† Ilford Sewage Works	H. Shaw, Esq.	5	1	1	31	709	27·90	165
† Bulvan (Pear Tree Corner)	Mrs. Read-Andrews	5	1	0	12	678	26·69	164
† Vange Pumping Station	Southend Water Wks. Co.	5	1	0	43	665	26·19	130
† Pitsea „ „	„ „ „	5	1	0	29	681	26·80	133
† Upminster (High House)	C. Reilly, Esq.	5	1	0	...	684	26·92	142
† Hornchurch	W. J. Grant, Esq.	8	1	9	46	777	30·59	168
† Wanstead (Red Bridge)	Met. Water Board.....	5	2	2	27	688	27·07	143
† Manor Park (Albany Road)	A. J. Wilmshurst, Esq. ...	5	3	0	40	744	29·29	181
„ „ (Cemetery)	Mr. J. D. Robertson	5	0	6	45	749	29·49	136
† Romford (Harold Wood)	J. G. Broodbank, Esq.	5	4	0	120	782	30·78	178
† Havering Grange	G. P. Hope, Esq.	5	1	0	255	839	33·03	193
„ „ -atte-Bower (Fernside)	Benjamin Smith, Esq.	5	1	0	341	881	34·70	187
† Chigwell (Grange Court)	Hon. Cecil Baring	5	1	0	190	783	30·83	138
† Theydon Bois (Thriffs Hall) ...	H. B. Debenham, Esq.	5	0	9	200	767	30·21	194
† Epping (The Hemnalls)	Miss A. Nicholl	8	0	8	345	875	34·44	...
† North Weald (Canes)	H. W. Hart, Esq.	5	1	11	250	745	29·33	143
3.—CROUCH. 186 sq. mi.								
† Shoeburyness	Superintend. of Expts. ...	8	1	0	13	652	25·66	174
„ „ „ M	„ „ „	5	1	0	13	653	25·70	...
† Southend (Corporation Obsy.) ...	E. J. Elford, Esq., C.E. ...	8	1	0	90	624	24·55	140
„ „ (Broadway)	H. J. G. Ralph, Esq.	5	1	0	78	658	25·91	194
„ „ (Water Works)	Southend Water Wks. Co.	8	1	0	112	651	25·64	168
† Leigh Reservoir	„ „ „	5	1	0	177	683	26·90	151
† Eastwood Pumping Station	„ „ „	8	1	0	50	651	25·63	156
† Thundersley Reservoir	„ „ „	5	1	0	277	697	27·43	130
† Rayleigh (Wheatley's Lane)	A. H. Goodall, Esq.	5	1	0	275	730	28·72	152
† Nevendon Pumping Station	Southend Water Wks. Co.	5	1	0	43	716	28·20	...
† Billericay (Service Tank)	„ „ „	5	1	0	310	769	30·26	152
„ „ (Ramsden Hall)	T. W. Bacon, Esq.	5	0	9	260	834	32·84	157
† Wickford (Runwell Hall)	Lt.-Col. H. Kemble	5	1	0	75	885	34·83	157
† Rettendon Place	Miss M. Meeson	8	0	10	120	762	29·99	155
„ „ Rectory	Rev. G. Evans-Gwynne..	5	0	5	120	759	29·87	...
† Woodham Ferrers (Edwins Hall)	Mrs. Pope	5	1	0	180	816	32·12	156
† Southminster (The New Moor) ...	E. J. Attenborough, Esq. ...	...	...	...	...	733	28·87	...
„ „ (North End)	Mrs. Owen	5	1	0	60	693	27·28	153
† Bradwell-on-Sea (Bradwell Hall)	J. C. Chillingworth, Esq. ...	5	1	1	27	644	25·36?	133

DIVISION IV.—EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.		Days with ·01 in. or more	
		Diam. in.	Height Above Ground Sea Level		1915			
		in.	ft.	in.	feet.	mm.	inches.	
ESSEX—(con.)								
4.—BLACKWATER. 425 sq. mi.								
D Brentwood (Shenfield, The Lodge)	H. P. Landon, Esq.	5	0	7	303	858	33·77	152
D South Hanningfield (Peadowns)	W. Hill, Esq., <i>per</i> M.O. ....	...	...	...	134	840	33·09	143
D Ingatestone (Fryerning)	A. E. Christy, Esq.	5	1	0	291	782	30·78	144
D Maldon (Hazeleigh Rectory) ...	Rev. G. H. Raynor	7	1	1	161	765	30·12	151
D Danbury Rectory	Rev. J. Bridges Plumptre	5	1	0	365	723	28·48	153
D Writtle (Melbourne).....	J. A. Rosling, Esq.	5	0	9	140	768	30·24	172
D „ (The House).....	Miss Usborne	5	4	0	110	716	28·18	...
D Chelmsford (County Laboratories)	R. M. Wilson, Esq.	5	1	0	140	746	29·37	136
D „ (High Street)	F. Chancellor, Esq.	8	1	0	92	737	29·00	161
D Roxwell	R. W. Christy, Esq.	5	1	0	180	613	24·12	...
D Chignall Hall.....	Austin Matthews, Esq....	5	1	4	152	666	26·23	...
D Great Waltham (Chatham Hall)	Col. R. Egerton	5	1	0	156	744	29·27	164
D Witham (Terling Vicarage).....	H. C. Boutflower, Esq....	5	1	0	115	747	29·41	171
D Great Leighs (Lyons Hall)	J. H. Tritton, Esq.	5	3	0	130	720	28·35	136
D Witham (Faulkbourne Hall) ...	Miss C. L. Parker	5	0	8	100	697	27·44	165
D Hartford End (Leez Priory).....	M. E. Hughes-Hughes Esq.	5	1	0	170	694	27·31	176
D Kelvedon (Lawn House)	F. Randolph-Symmons Esq	5	1	0	96	732	28·81	150
D „ (White Barn)	W. & H. J. Sheldrake, Esqs.	5	1	5	135	685	26·98	153
D „ (Feering Vicarage) ...	Rev. A. F. Curtis	5	1	0	100	808	31·80	175
D Felsted School	J. H. Owen, Esq.	5	1	2	248	647	25·49	166
D Little Dunmow Council School...	Miss M. G. Archer	5	1	0	258	764	30·07	150
D Great Dunmow	Messrs. Hasler & Clapham	5	0	6	215	728	28·67	151
D Little Dunmow (Throws)	Miss Webb	5	1	4	283	733	28·85	...
D Pattiswick Hall.....	Harris Smith, Esq.	5	0	10	220	657	25·85	...
D Braintree (Bocking, Fennes).....	H. S. Tabor, Esq.	5	1	0	240	661	26·03	159
D Great Saling (Saling Grove).....	M. Harrison, Esq.	8	1	0	290	631	24·83	157
D Shalford (Littles)	W. F. Hart, Esq.	5	1	8	260	701	27·60	173
D Great Bardfield	G. W. Worfolk, Esq.	5	1	3	253	727	28·61	173
5.—COLNE & C. 283 sq. mi.								
D Mersey Island (Waldegraves) ...	<i>E. Anglian Daily Times</i> ...	...	...	...	55	618	24·33	...
D Clacton-on-Sea	Mr. A. W. Shadick	8	1	2	55	650	25·59	161
D Great Clacton (Clay Hall)	Philip Smith, Esq.	5	2	0	45	620	24·41	140
D Tiptree	Messrs. Wilkin & Sons, Ltd.	5	0	3	170	704	27·73	142
D St. Osyth (Warren Farm).....	A. E. Dale, Esq.	5	3	0	...	603	23·74	...
D Fingringhoe (Ballast Quay Farm)	<i>Essex County Standard</i> ..	5	2	0	47	628	24·72	141
D Walton-on-the-Naze	C. W. Close, Esq.	8	1	0	70	668	26·28	179
D Colchester (King's Ford)	Hon. Lady Digby	5	1	0	103	681	26·80	194
D „ (Boro' Surveyor's Office)	H. Collins, Esq., C.E. ...	8	17	0	82	611	24·06	157
D Lexden (Hill House).....	S. F. Hurnard, Esq.	5	1	0	90	666	26·24	159
D „ („ „).....	M „ „ „ „	5	1	0	90	656	25·83	...
D „ (Home Farm)	Mr. W. Bird	5	1	0	125	698	27·46	...
D „ Rectory	Rev. T. S. Raffles	5	0	11	100	708	27·89	146
D Great Bromley (Broughton).....	W. Arnold Roberts, Esq.	5	1	3	115	715	28·16	164
D Earls Colne (Chalkney House)...	H. F. Hills, Esq.	5	1	3	188	735	28·94	155
D Wakes Colne Place	<i>Halstead Gazette</i> .....	...	...	...	...	718	28·28	181
D Manningtree (Bradfield Lodge)..	G. Hempson, Esq.	5	1	0	113	684	26·92	148
D Halstead (The Brewery)	E. T. Adams, Esq.	5	1	0	140	722	28·42	155
D „ (Grammar School).....	Miss Coles	5	1	0	220	668	26·29	135
D Great Maplestead (Monk's Lodge)	T. F. Miller, Esq.	5	0	9	230	670	26·36	..

DIVISION IV.—EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above Ground. Sea Level			1915		
		in.	ft.	in.	feet.	mm.	inches.	
ESSEX—(con.)								
5.—COLNE & C—(con.)								
d Great Yeldham (The Oak House)	G. A. Goodechild, Esq.....	5	1	6	150	629	24·76	147
" " (Tilbury Hall) ...	R. E. Vaisey, Esq. ....	...	...	...	...	692	27·24	...
Ridgewell (Ridgewell Hill)	Miss E. E. W. Gurney...	5	1	0	269	673	26·48	...
6.—STOUR. 110 sq. mi.								
Harwich (Coastguard Station)...	Mr. W. Bevan	5	1	0	40	623	24·54	...
d Lawford (Dale Hall).....	W. H. Richardson, Esq....	5	1	0	110	712	28·03	142
d Dedham (Dalethorpe)	J. D. Tremlett, Esq.	5	1	1	54	666	26·21	164
d Bulmer Lodge [Sudbury].....	Miss Burke.....	5	1	3	200	738	29·05	159
Walter Belchamp (Eyston Hall)	Capt. J. A. Daniell	5	1	0	187	629	24·75	...
7.—OUSE. 80 sq. mi.								
Widdington Rectory.....	Rev. J. W. Court	5	1	6	340	697	27·44	...
Arkesden (Wood Hall).....	Charles Beadle, Esq.....	5	1	0	380	803	31·63	...
Newport (Grammar School)	Rev. J. W. Court ...	5	1	6	...	671	26·43	...
Saffron Walden (Market Place)..	Herts & Essex Observer	5	1	5	201	783	30·81	...
d Great Chesterford Mills	Ernest H. King, Esq	5	1	0	130	659	25·93	166
SUFFOLK. (Area, 1489 sq. mi.)								
1.—STOUR. 271 sq. mi.								
d East Bergholt (Ackworth House)	A. Harwood, Esq.	8	1	6	145	653	25·70	175
d Capel St. Mary School	B. B. Taylor, Esq.....	5	1	6	156	697	27·43	181
d Sudbury (Great Cornard).....	A. B. Legard, Esq.....	5	1	0	100	670	26·36	153
d " (Lunt Fall Reservoir)...	G. H. Rampling, Esq. ...	5	1	3	90	641	25·25	159
d " (Friars Street)	E. Ransom, Esq.	5	1	7	93	669	26·34	192
d Haverhill Vicarage	Rev. H. C. Newbery.....	5	...	...	...	689	27·12	168
d Hitcham Rectory	Rev. R. R. Cobbold	5	1	5	255	608	23·95	174
Stansfield (Cordell Hall)	J. Slater, Esq.	5	1	0	300	703	27·69	...
Hartest (Hop Hall)	Sheriff A. Long, Esq.....	5	3	0	300	710	27·97	217
d Hawkedon Rectory	Rev. B. P. Oakes	5	3	4	305	753	29·64	210
d Cockfield Rectory	Rev. Canon Edwin Hill...	5	1	0	305	646	25·43	166
2.—ORWELL. 166 sq. mi.								
d Trimley (The Avenue)	G. Binyon, Esq.	8	1	0	80	728	28·64	156
d Ipswich (Woolverstone Park) ...	C. H. Berners, Esq.	8	1	0	100	712	28·01	181
d " (Orwell Park)	E.G. Pretymann, Esq., M.P.	8	1	0	60	716	28·17	199
d " (Rookwood, Copdock)...	F. L. Bland, Esq.	8	1	0	164	704	27·73	178
d " (Museum).....	F. Woolnough, Esq.	8	0	10	72	627	24·70	170
d " (Dale Hall)	Percy Turner, Esq.....	8	1	0	135	650	25·61	166
Elmsett (Laurel Cottage).....	A. E. Ladbrook, Esq.....	5	3	0	210	740	29·12	151
Ash Bocking Vicarage..... No. 1	Rev. M. B. Cowell.....	5	1	0	231	724	28·49	147
" " " " " " " " " " " " " " " "	No. 2	5	3	4	231	719	28·32	147
d Haughley (Haughley House) ...	Major S. H. Creagh	5	1	0	188	611	24·07	168
3.—DEBEN & C. 466 sq. mi.								
Felixstowe (Wireless Tel.Station)	M.Humphrey, Esq. per MO	8	1	0	10	688	27·08	198
Waldringfield Old Rectory	Rev. T. H. Waller.....	8	1	2	60	664	26·14	...
d Hollesley	G. P. Hope, Esq.	5	1	0	74	696	27·42	151
d Woodbridge Abbey	Col. R. J. Carthew	8	1	2	46	726	28·58	175
d Orford (The Gables)	E. A. Rope, Esq.	5	0	9	30	719	28·30	153
d Woodbridge (Melton Asylum)...	A. F. Philpott, Esq.	8	1	4	74	698	27·48	162
d " (Boulge Cottage) ...	A. H. Bowles, Esq.	5	1	0	150	757	29·82	178

DIVISION IV.—EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with '01 in. or more
		Diam.	Height Above Ground, Sea Level			1915		
		in.	ft.	in.	feet.	mm.	inches.	
SUFFOLK—(con.)								
3.—DEBEN & C—(con.)								
D Woodbridge (Boulge Hall)	Lt.-Col. R. Eaton White	8	2	0	180	780	30·72	193
D Rendlesham Hall	Lord Rendlesham	5	1	0	88	655	25·80	169
D Otley Rectory	Rev. H. W. C. Geldart...	5	0	4	180	742	29·23	167
Charsfield (Red House)	Hugh P. Youngman, Esq.	5	1	9	150	713	28·07	...
Helmingham (Bocking Hall) ...	W. B. Damant, Esq.	5	1	6	180	775	30·50	162
D Snape	G. H. Garrett, Esq.	5	2	5	50	742	29·23	180
Parham (The High House)	H. R. Smith, Esq.	5	1	0	93	719	28·30	...
Campsea Ashe (High House) ...	Rt. Hon. The Speaker, M.P.	8	2	6	60	721	28·39	157
D Aldborough (Aldringham Ho.)..	F. Garrett, Esq.	8	4	5	50	815	32·08	198
D Leiston (Lower Abbey)	M. K. Rope, Esq.	5	0	7	30	712	28·03	150
Westleton (St. Helena)	J. R. Grimsey, Esq.	8	2	0	65	812	31·96	173
D Halesworth (Estate Office)	H. S. R. Stanford, Esq.	5	2	0	25	796	31·35	185
D Wangford (Reydon Grove)	C. P. Runnacles, Esq.	5	1	5	20	752	29·60	178
D „ (Ford House)	Hon. Agnes Eden	5	0	10	25	787	30·98	162
D Beccles (Sotterley Hall)	Capt. Miles Barne	5	0	11	50	823	32·39	181
4.—YARE & C. 208 sq. mi.								
D Bacton	W. R. Church, Esq.	5	1	3	186	637	25·09	166
Horham Rectory	Rev. J. E. Soden	5	1	4	180	756	29·75	164
D Halesworth (Rumburgh Vic.) ...	Rev. W. Linton Wilson...	5	3	0	148	663	26·11	175
D Lowestoft (Mill Road)	Mark Bean, Esq.	8	1	1	18	794	31·24	190
† „ (Belle Vue Park)	C. W. Edwards, Esq. per MO	5	1	0	86	737	28·99	...
Blundeston House	L. J. Peto, Esq. ....	...	...	...	30	844	33·25	...
D Herringfleet (The Gables)	G. H. Wyllys, Esq.	5	0	8	52	859	33·81	194
D Lound Pumping Station	Lowestoft Water & Gas Co.	8	1	0	34	794	31·26	175
Fritton Hall	Mrs. H. E. Buxton	8	0	10	40	807	31·78	168
„ Warren	Gen. R. Upcher, C.B.	5	0	6	42	883	34·78	196
D St. Olave's Priory (Paddock) ...	Surg.-Gen. W. A. S. Wynne	8	1	2	10	832	32·74	199
D „ „ „ (Boat House)	„ „ „ „ „	5	1	0	9	848	33·38	201
D Burgh Hall [Yarmouth]	H. P. Frederick, Esq.	8	0	6	45	879	34·60	196
5.—OUSE. 378 sq. mi.								
Bradfield St. George School	R. W. Thompson, Esq.	5	0	10	300	640	25·20	145
Drinkstone	J. E. Townsend, Esq.	5	3	0	220	720	28·35	150
D Little Saxham Rectory	Rev. H. I. Kilner	8	0	10	220	640	25·18	178
D Bury St. Edmunds (Westley) ...	R. Burrell, Esq.	5	1	0	226	624	24·56	167
D „ „ „ (Northgate St.)	Rev. J. S. Pratt	5	1	0	100	619	24·38	169
Herringswell Rectory	Rev. E. H. Wright	5	0	6	...	600	23·64	156
† Barningham (The Beeches) ... M	Miss A. K. Lingwood	8	0	9	136	594	23·37	...
D Elveden Hall	Viscount Iveagh, K.P.	5	1	0	130	649	25·54	202
NORFOLK. (Area, 2044 sq. mi.)								
1.—YARE. 658 sq. mi.								
Diss (The Cedars)	Dr. H. M. Speirs	10	1	0	108	548	21·56?	169
D Pulham St. Mary (Hill House)...	W. G. Rutter, Esq.	5	1	2	...	746	29·37	218
„ Market School	W. H. Pumfrey, Esq.	5	1	0	131	733	28·87	170
D Geldeston [Beccles]	Miss S. S. Dowson	5	1	0	38	762	29·98	219
Long Stratton (Gt. Moulton Rec.)	Rev. T. D. Chute	5	0	6	150	700	27·56	164
D „ „ „ (Fritton Rectory) ..	Mrs. Howes	5	1	0	120	746	29·35	214
D Ditchingham	W. G. Rutter, Esq.	5	1	0	...	760	29·91	215

DIVISION IV.—EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
NORFOLK—(con.)								
1.—YARE—(con.)								
D Hedenham Rectory	Ven. Dr. T. H. Bindley...	5	1	0	104	741	29·16	207
D Toft Monks School.....	W. B. Alexander, Esq....	5	1	0	60	811	31·94	198
D Raveningham Hall [Beccles] ..	N. H. Bacon, Esq.	8	1	3	75	818	32·21	162
D Saxlingham Nethergate	Mrs. Pitt.....	5	1	5	...	750	29·51	196
D Wymondham	J. B. Pomeroy, Esq.	8	1	3	118	728	28·65	185
D Hingham Hall	E. Noel, Esq.....	5	1	1	190	630	24·82	201
D Dunston Hall... ..	A. W. Preston, Esq.	5	4	0	100	838	32·99	191
D† Keswick Old Hall	E. Knight, Esq.....	5	1	0	90	784	30·86	198
D Hethersett (Cedar Grange)	A. W. Preston, Esq.	5	0	9	150	706	27·78	199
Yarmouth (Sailors' Home)	Meteorological Office.....	8	4	0	17	832	32·76	183
D „ (Northgate St.) <i>Snowdon g.</i>	G. W. Hughes, Esq.....	5	1	0	7	869	34·23	204
D „ { „ „ } <i>Glaisher g.</i>	„ „ „	8	0	11	7	872	34·35	204
D „ { „ „ } <i>Howard g.</i>	„ „ „	5	1	0	7	820	32·27	198
D† Norwich (Christ Church Rd. Eaton)	A. W. Preston, Esq.	5	1	0	98	761	29·97	216
D „ (Carrow House)	Miss Colman	5	1	3	35	761	29·97	187
D Brundall (Blofeld Road)	A. W. Preston, Esq.....	5	1	0	55	744	29·29	168
D Norwich (Ipswich Road)	J. H. Willis, Esq.....	5	1	0	110	733	28·85	190
D „ (Heigham Cemetery)...	A. W. Preston, Esq.....	5	3	2	37	727	28·61	198
D Honingham Hall	„ „ „ (R)	10	4	10	100	624	24·55	168
D Drayton Rectory .....	„ „ „ .....	...	...	...	...	750	29·54	201
„ Hall.....	J. H. F. Walter, Esq.	6	0	6	...	734	28·88	...
D Bylaugh Park Gardens.....	Mr. G. Beeton	5	1	0	130	709	27·93	182
D Swanington (Heath House)	P. Norgate, Esq.	5	1	3	91	706	27·80	202
D „ Rectory	Rev. G. B. Atkinson.....	5	2	7	90	687	27·04	191
D Great Massingham	Dr. Walter Dick	5	1	0	269	730	28·72	180
D Reepham (Old Brewery House)...	S. Bircham, Esq. ....	...	...	...	150	867	34·12	185
D Cawston Rectory	Rev. T. H. Marsh	5	1	0	120	814	32·05	183
D East Rudham.....	Miss F. E. Mays	5	2	0	140	800	31·49	188
2.—YARE—Bure & c. 368 sq. mi.								
D Moulton	A. W. Preston, Esq.....	4	...	...	...	790	31·12	175
D Acle	„ „ „	5	0	6	51	817	32·15	222
D Sprowston School	G. S. Martin, Esq.....	5	0	10	112	737	29·00	195
D „ (Oak Lodge)	A. W. Preston, Esq.	5	1	0	100	727	28·63	206
D „ Hall	Sir Eustace Gurney	5	1	0	90	732	28·82	192
D Yarmouth (Ormesby St. Michael)	Gt. Yarmouth W. W. Co.	8	1	0	21	866	34·11	255
D Coltishall.....	A. W. Preston, Esq.....	...	...	...	...	713	28·07	201
D Aylsham (Rippon Hall)	Major H. S. Marsham....	5	0	6	90	754	29·67	155
D „ (Millgate)	late R. J. W. Purdy, Esq.	5	1	0	40	797	31·39	176
D „ (Burgh Road)	J. H. Gillett, Esq.....	5	1	0	86	723	28·46	202
D Worstead (Frankfort Manor) ..	J. R. W. Pigott, Esq.	5	5	4	50	817	32·17	185
D „ (Dilham)	A. W. Preston, Esq.	5	0	8	...	806	31·73	229
D „ (The Rookery, Dilham) ..	H. Morse Taylor, Esq.....	5	28	0	53	792	31·19	190
D „ (Lyngate Cottage) ..	R. J. Cross, Esq.	8	1	0	55	787	30·98	186
D „ (The Grange)	Rev. F. W. Walter	5	1	0	40	752	29·60	184
D North Walsham (Empson House)	W. S. Horn, Esq.	5	1	0	102	751	29·55	192
D „ „ (Gunton Park)...	A. W. Preston, Esq. ....	...	...	...	...	723	28·47	178
D Wickmere	J. Blott, Esq.....	5	6	3	150	652	25·69	207
Mundesley-on-Sea	R. W. Cross, Esq.....	8	1	2	65	690	27·15	...
D Baconsthorpe Rectory	Rev. H. Milnes Walker...	5	1	3	280	727	28·63	191

DIVISION IV.—EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above		Sea Level	1915		
			Ground					
		in.	ft.	in.	feet.	mm.	inches.	
NORFOLK—(con.)								
2.—YARE—Bure & c—(con.)								
D Cromer (Northrepps Hall)	Mrs. R. Gurney.....	5	1	4	225	778	30·65	200
3.—STIFFKEYS & C. 288 sq. mi.								
Little Massingham.....	Rev. H. L. Brereton <i>per</i> M.O. ....	...	...	...	280	804	31·67	195
D Sandringham House Gardens ...	Mr. T. H. Cook	5	1	1	121	729	28·71	198
D Snettisham (Wisteria House) ...	O. S. Ruddock, Esq.....	5	1	0	50	689	27·13	148
Cromer	Urb. Dist. Council <i>per</i> M.O.	8	1	0	197	586	23·04	207
D „ (The Warren)	F. H. Barclay, Esq.	8	1	8	101	717	28·22	179
Sheringham Hall	Miss Upcher .....	...	...	...	...	676	26·61	158
D Blakeney	Mr. R. Lee	5	1	3	29	635	25·01	174
D „	A. W. Preston, Esq. ....	...	...	...	...	670	26·37	217
D Wells (Holkham Hall)	Earl of Leicester, G.C.V.O.	12	4	6	43	643	25·30	163
4.—OUSE & C. 683 sq. mi.								
Thetford (Bury Road)	Rev. M. A. Gathercole ...	5	...	...	50	575	22·63?	...
D „ (Ford Street Gardens) ..	Mr. A. Pipe	5	1	0	44	579	22·80	151
D† „ (Waterworks)	Mr. E. S. Greenwood.....	8	1	0	170	604	23·80	195
D Kenninghall	A. B. Smith, Esq.	5	1	0	100	618	24·34	165
Quidenham Hall.....	Earl of Albemarle, K.C.V.O.	5	1	0	100	637	25·08	169
D Hargham	Sir H. R. Beavor, Bart....	5	1	0	120	643	25·32	168
D Old Buckenham Hall.....	L. G. Robinson, Esq.....	12	2	0	...	631	24·86	179
D Southery	J. Stanley, Esq.....	5	1	3	13	588	23·16	187
D Caston Rectory	Rev. W. H. Partridge....	5	1	0	148	677	26·64	201
D Watton	A. A. Gompertz, Esq.....	5	1	0	166	677	26·67	156
D Stoke Ferry (Wereham)	G. Read, Esq.	5	2	3	66	690	27·17	213
D Downham (Stradsett)	J. C. Cottam, Esq.....	5	1	0	55	705	27·76	150
D „ (Dial House)	F. H. Wenn, Esq.....	5	1	6	...	644	25·34	169
D Outwell (Wellbreck Sluice)	A. Lunn, Esq., C.E.	9	2	6	16	631	24·84	196
D Emneth	F. M. Bland, Esq.....	5	1	0	6	635	25·00	164
D Swaffham	W. H. Plowright, Esq....	5	5	0	250	658	25·89	171
D „ (The Paddocks)	H. W. Coe, Esq.....	5	0	8	245	704	27·72	178
D „ (Homewood)	Messrs. Vynne & Everett	5	2	7	210	723	28·45	155
D Sporle	T. S. Matthews, Esq.....	8	4	0	230	709	27·90	209
D Swaffham (Little Dunham)	A. W. Preston, Esq.....	5	1	1	320	723	28·47	199
D Wiggshall (St. Germans Sluice) ..	A. Lunn, Esq., C.E.	8	1	6	...	655	25·77	155
Terrington St. Clement.....	E. A. Walker, Esq.	5	1	0	8	633	24·93	...
D Gaywood (Rosebery Road)	S. S. Burlingham, Esq....	...	...	...	10	638	25·12	186
D North Wootton	A. F. Claydon, Esq.	5	1	0	6	571	22·48	173
5.—NENE. 47 sq. mi.								

DIVISION V.—SOUTH WESTERN COUNTIES.

WILTSHIRE. (Area, 1375 sq. mi.)

1.—LOWER AVON. 386 sq. mi.								
D Corsley (Sturford Mead)	H. Theodore Cookson, Esq.	5	0	9	460	1245	49·03	173
D Edington Vicarage ..	Rev. E. C. Alexander....	5	0	8	334	996	39·21	158
D Erlestoke Vicarage	Rev. H. S. Travers	5	0	6	320	986	38·83	162
Market Lavington.....	Miss A. P. Bouverie	5	0	10	290	977	38·48	162

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above Ground. Sea Level			1915		
		in.	ft.	in.	feet.	mm.	inches.	
WILTSHIRE—(con.)								
1.—LOWER AVON—(con.)								
D Trowbridge W.W. (Biss Bottom)	W. W. Gray, Esq., C.E.	5	1	0	311	1101	43·34	163
D „ (Rood Ashton)	Mr. W. Strugnell	8	1	6	250	1185	46·67	202
D „ (Wingfield)	T. H. Clark, Esq.	5	1	0	190	995	39·17	150
D „	<i>Wiltshire Times</i> .....	...	...	...	160	1134	44·64	180
D Bradford (Winsley Manor)	E. W. Knatchbull, Esq.	5	0	6	400	936	36·87	171
D „ (Bearfield House)	G. A. R. FitzGerald, Esq.	5	1	10	290	943	37·13	161
D „ (Woolley Grange)	P. K. Stothert, Esq., C.E.	5	0	8	216	984	38·73	165
D „ (Manvers House) ..	Dr. C. E. S. Flemming... ..	5	0	9	130	1006	39·62	175
D Seend (Cleeve House)	(R) W. Heward Bell, Esq. ....	...	1	0	160	906	35·65	181
D Holt (The Retreat)	Mr. F. Pretty	5	2	6	145	971	38·24	162
D Devizes (Wilts Co. Asylum) ..	Dr. S. J. Cole	8	2	3	385	890	35·06	158
D Corsham (Pickwick)	Miss Swayne Farebrother ..	5	1	0	338	1037	40·84	162
D Calne (High Street)	E. W. Brown, Esq.	4	1	0	242	927	36·50	171
D „ (Compton Bassett Gardens)	Lt.-Col. A. W. H.H. Drake ..	5	2	0	500	986	38·80	174
D Chippenham (Kington Langley)	Charles Garnett, Esq.	8	1	0	270	1075	42·32	179
D Lyneham	G. E. Willoughby, Esq.	5	1	3	425	873	34·37	...
D Wroughton (Basset Down House)	Mrs. Story Maskelyne.....	5	1	0	500	940	37·01	170
D Malmesbury (Cowbridge House).	CEdeBertodano Esq per MO ..	5	1	0	236	1003.	39·53	172
D „ (Charlton Cottage).	Countess of Suffolk	6	0	9	400	1084	42·67	171
2.—STOUR. 33 sq. mi.								
D Mere (Charnage)	A. R. White, Esq.	5	1	0	426	1098	43·24	183
D Stourhead	Sir H. Hoare, Bart.	5	1	0	583	1103	43·43	161
D Kilminster Rectory	Rev. H. A. Boys.....	5	1	6	710	1257	49·49	232
3.—EAST AVON. 554 sq. mi.								
D Donhead St. Mary (Charlton Ho.)	Dowager Lady Wynford... ..	5	0	7	515	1262	49·67	151
D Longford Castle.....	The Earl of Radnor	5	1	0	141	990	38·96	150
D Tisbury (The Academy)	J. Bristol, Esq.	5	0	9	380	1245	49·00	160
D East Knoyle (Slades).....	E. H. Miles, Esq.	5	1	0	590	1148	45·20	169
D Fonthill House Gardens	Hugh Morrison, Esq.	5	0	10	400	1234	48·58	177
D Salisbury.....	W. J. Goodwin, Esq., C.E.	5	2	2	153	932	36·70	158
D „ (Fowlers Hill)	Mrs. T. Awdry	5	1	0	225	967	38·07	...
D† „ (Brown Street)	Mrs. T. H. Baker	5	1	0	155	976	38·42	224
D „ (Castle Street)	C. H. De Mello, Esq.	5	3	6	150	871	34·29	...
D „ (Atherton House)	Wilfred Fletcher, Esq.	5	0	11	250	959	37·77	185
D „ (Wilton House).....	Earl of Pembroke per M.O.	8	4	0	180	1193	46·97	172
D Stratford-sub-Castle (Manor Ho.)	Miss F. Carpenter	5	0	9	165	926	36·45	165
D Woodford (Court House)	Mrs. Chetwynd Stapylton ..	5	0	10	200	987	38·85	176
D Codford St. Mary (Stockton Ho.)	G. Knowles, Esq.	5	1	0	260	1130	44·50	182
D Maiden Bradley.....	The Duke of Somerset.....	5	2	0	626	1295	50·97	199
D Sutton Veney (Greenhill).....	R. W. Pretor-Pinney, Esq.	5	1	0	390	1180	46·47	145
D Warminster (Rye Hill).....	A. E. Jefferys, Esq.	8	2	0	466	1190	46·86	190
D† Warminster (Bishopstrow)	P. Benton, Esq.	5	0	10	380	1102	43·39	152
D Cholderton Rectory	Rev. A. E. Brisco Owen... ..	8	1	0	320	1091	42·97	207
D Salisbury Plain (Chitterne House)	Joseph Hayward, Esq.	11	4	0	319	932	36·71	...
D† „ „ (Shrewton)	F. J. Wardale, Esq.	5	0	9	322	1022	40·25	180
D Collingbourne Kingston	Baldwin Latham, Esq., C.E.	5	1	0	470	951	37·43	...
D Chirton Old Manor House.....	Mr. T. Selfe	5	3	0	374	994	39·13	171
D Pewsey (Wilcot)	W. R. Wilbraham, Esq.	5	0	6	415	942	37·10	181
D „ (Stowell Park)	J. H. Smith-Barry, Esq.	5	1	0	470	945	37·19	...

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

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STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.		Days with 0·1 in. or more	
		Diam.	Height Above		1915			
			Ground	Sea Level	mm.	inches.		
DORSETSHIRE—(con.)		in.	ft.	in.	feet.	mm.	inches.	
3.—FROME & C.—(con.)								
Branksome Park (Kingsfield) ...	Miss M. Rigden	987	38·86	...
n Poole (Parkstone)	W. H. Symes, Esq.	5	1	3	160	1065	41·94	163
+ Branksome (Bourne Valley).....	H. W. Woodall, Esq.....	8	1	3	84	1026	40·40	...
" (Alderney Reservoir)	" " " " " " " " " "	8	1	3	213	892	35·13?	...
n Broadstone (Lypiatt Cottage) ...	F. W. Beckford, Esq.....	5	1	0	220	1128	44·42	190
n Lyme Regis (Holme Cleve)	Mrs. Cave	5	1	0	230	986	38·83	162
n " " (Boat Close)	Henry Ellis, Esq.	5	1	6	498	1057	41·63	169
n " " (Highcliff)	Miss G. Lister.....	5	1	3	330	1006	39·59	152
+ Charmouth (Hammond's Mead)..	A. Barrow, Esq.....	5	0	9	50	949	37·35	...
n+ " (Luttrell House) ...	Miss Payne.....	5	1	0	100	1076	42·36	184
n+ Bridport (Westland).....	H. Gordon, Esq., C.E....	5	1	0	110	1033	40·66	166
n Bradford Peverell House	Mrs. Middleton	6	1	1	381	1191	46·89	163
n Moreton (Oaker's Wood)	Miss Fetherstonhaugh ..	5	1	0	160	1026	40·38	147
n Wynford Eagle	Mrs. Walter	5	0	11	...	951	37·45	151
n Bere Regis (Barrow Hill).....	Mr. A. C. Lucas	5	1	0	120	1064	41·88	148
" " (Bloxworth Rectory). ..	Rev. O.P. Cambridge F.R.S.	5	1	6	205	1056	41·58	...
" " " " " " " " " " " " " " " "	F. G. A. Lane, Esq.	5	1	6	118	1158	45·57	160
n+ Netherbury.....	B. J. T. Stott, Esq.	5	1	0	143	1131	44·51	163
n Maiden Newton (Cattistock Lodge)	H. H. Palairt, Esq.....	5	1	0	361	1344	52·92	180
n Winterborne (Longthorns)	E. R. Sykes, Esq.	5	1	0	350	1124	44·25	172
n Cattistock (Bell Cottage)	C. E. Davies, Esq.....	8	1	0	365	1339	52·71	172
n+ Beaminster (Hamilton Lodge) ...	Fiennes Trotman, Esq....	5	1	0	210	1126	44·35	178
n Milton Abbas (Milton Abbey) ...	Dorset Field Club	5	0	10	333	1206	47·48	162
4.—STOUR. 388 sq. mi.								
Kinson (Eglington)	W. C. Keevil, Esq.	5	0	6	44	1097	43·19	182
n Wimborne (Corfe Mullen W.W.)	G. V. Sparrow, Esq., C.E.	5	1	6	82	1144	45·06	168
n " " " " " Forest Hill) ..	E. Philip Belben, Esq....	8	2	0	300	1093	43·02	161
n Winterbourne Whitchurch Vic..	Rev. H. H. T. Bassett....	8	0	6	241	1112	43·77	150
n Sturminster Marshall (Bailie Ho.)	Rev. J. Cross	5	0	6	85	1052	41·43	166
" " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " "	85	1054	41·48	...
n Wimborne (St. John's Hill).....	E. H. Widnell, Esq.....	5	1	0	146	1110	43·70	177
n " (Codford House).....	G. H. Batterbury, Esq. M.D.	5	0	9	69	1060	41·73	186
n West Moors (Inglewood Nursery)	F. J. Lansdell, Esq.	5	1	0	110	1154	45·44	151
n Witchampton	Miss A. L. Homer	5	1	0	130	1111	43·75	151
n Blandford (The Rectory)	Dorset Field Club	1	2	125	1092	43·01	157
n " (Bryanstone Gardens)	Mr. J. Jaques	5	1	0	155	1254	49·36	153
n Turnworth	Col. Parry Okeden	5	1	0	473	1252	49·27	184
n Horton Vicarage	Rev. G. Wellington	5	1	0	133	1051	41·37?	178
n Holwell (Westrow House)	W. Warry, Esq.	5	1	0	252	1071	42·17	160
n Wimborne St. Giles (St. Giles Ho.)	Earl of Shaftesbury	5	1	0	165	1123	44·20	167
n Gussage St. Michael Manor	Miss Ellen Good	5	1	3	201	1120	44·10	166
n Sturminster Newton (Stock Ho.)	Rev. C. G. Paget	5	1	6	270	1022	40·25	175
" " (Riverside)	A. R. Hallett, Esq.	5	5	0	205	946	37·24	...
n Iwerne Minster House Gardens..	J. H. Ismay, Esq.	5	1	0	244	1068	42·05	166
n Fontmell Magna	Dr. J. Appleyard	8	1	8	260	975	38·38	170
n Ashmore Rectory	Rev. A. J. Reed.....	8	1	3	700	112		

STATIONS.	AUTHORITIES.	Rain Gauge.		Depth of Rain.		Days with ·01 in. or more		
		Diam. Ground.	Height Above Sea Level	1915				
		in.	ft.	in.	feet.	mm	inches.	
SOUTH DEVON. (Area, 1707 sq. mi.)								
1.—PARRETT. 7 sq. mi.								
2.—TAMAR & C. 395 sq. mi.								
† Plymouth (The Hoe).....	H. Victor Prigg, Esq., C.E.	8	1	0	116	1111	43·74	193
D " (Drake's Reservoir)...	F. Howarth, Esq., C.E....	5	1	0	149	1159	45·62	180
D " (Hartley Reservoir)...	" " " "	5	1	0	321	1211	47·66	190
D " (Freedom Fields).....	H. Victor Prigg, Esq., C.E.	8	1	0	208	1215	47·78	189
D Devonport (Rowdens Res.)	F. Howarth, Esq., C.E....	5	1	0	201	1072	42·21	189
Plympton (Elfordleigh)	Mrs. R. C. Bainbridge	250	1226	48·27	189
D Bickley (Roborough Reservoir)..	F. Howarth, Esq., C.E....	5	1	0	548	1393	54·86	206
Lee Moor Clay Works	R. Martin, Esq.	8	1	0	900	1743	68·61	...
D Bere Alston (Mount Tamar).....	T. Ching, Esq.	5	2	0	350	1258	49·54	205
D " " (Rumleigh)	Sir A. W. Croft, K.C.I.E.	5	1	6	125	1228	48·34	208
D Sheepstor Vicarage	Rev. H. H. Breton.....	8	1	0	749	1853	72·95	213
"	M F. Howarth, Esq., C.E....	5	1	0	1024	1560	61·40	...
D " (Red Stone)	" " " "	5	1	0	763	1796	70·73	210
D " (Burrator)	" " " "	5	1	0	755	1815	71·47	210
D " (Head Weir)	" " " "	5	1	0	720	1610	63·38	210
D Dousland Reservoir	" " " "	5	1	0	721	1627	64·06	210
D Dartmoor (Deancombe Farm) ...	F. Howarth, Esq., C.E....	5	1	0	830	1638	64·47	208
D " (Leather Tor Farm)...	" " " "	5	1	0	910	1665	65·55	197
" (Siwards Cross)..... M	" " " "	5	1	0	1200	1695	66·73	...
" (Cramber Tor)	M " " " "	5	1	0	1435	1522	59·90	...
D Whitchurch (Ashbrook)	Rev. H. B. Grylls	5	1	0	400	1417	55·78	209
Tavistock (Langstone, Moortown)	Col. H. F. Coleridge	5	1	0	700	1509	59·42	197
D " (Public Library)	John Quick	8	20	0	283	1241	48·87	198
D "	W. J. Monk, Esq.	5	1	0	375	1367	53·82	207
Dartmoor (Leeden Tor)..... M	F. Howarth, Esq., C.E....	5	1	0	1270	1469	57·84	...
" (N. Hessary Tor) No. 1	" " " "	5	1	0	1625	1568	61·75	...
" (" " ") No. 2	" " " "	5	1	0	1502	1650	64·94	...
Milton Abbot (Endsleigh).....	Mr. F. Yole	5	1	0	180	1398	55·04	...
D Lifton (Kelly House).....	Rev. Maitland Kelly.....	8	2	6	462	1353	53·27	210
D Coryton Manor	R. L. Newman, Esq.	5	1	2	445	1332	52·45	181
D Polapit Tamar [Launceston] ...	R. C. Coode, Esq.	5	1	0	315	1178	46·36	207
3.—ERM & C. 217 sq. mi.								
† Salcombe (Sandhills).....	W. H. Pike, Esq.	5	1	0	118	993	39·11	176
† " (The Park)	Capt. J. Partridge	5	1	0	40	1013	39·89	183
† " (Springfield)	Dr. A. Pearce	5	1	0	100	1042	41·03	173
† South Huish	W. Balkwill, Esq.	5	5	6	68	1180	46·45	...
† Kingsbridge (Collapit Creek) ...	A. A. Froude, Esq., C.M.G.	5	0	9	50	1071	42·18	187
† " (Westcombe)	T. W. Latham, Esq.	5	1	0	100	1104	43·48	...
† Slapton (Higher Start House)...	Horace G. Morgan, Esq. ...	5	1	0	130	1291	50·82	194
† East Allington (Fallapit Gardens)	W. H. Tucker, Esq.	5	1	0	305	1454	57·24	176
† Dartmouth (Stoke Fleming).....	C. F. Selby, Esq.	5	0	9	356	1185	46·65	211
Ermington (Strode)	Capt. H. Gore Hawker ...	5	1	0	75	1318	51·88	169
D Ivybridge (Woodhaye).....	H. Alger, Esq.	5	1	0	300	1573	61·93	202
D South Brent (Blackadon Asylum)	H. Victor Prigg, Esq., C.E.	5	1	0	607	1541	60·66	224
D " " (Great Aish).....	Miss Kingwell	5	1	0	500	1885	74·21	191

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above Ground		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
SOUTH DEVON—(con.)								
4.—DART—(con.)								
Totnes (Rosabelle).....	Dr. H. R. Allingham.....	8	1	6	...	1456	57.33	...
D „ (Berry Pomeroy)	C. Barran, Esq.	5	1	0	185	1251	49.24	167
D „ (Staverton).....	J. A. Devenish, Esq.	5	0	11	50	1205	47.45	164
D „ (Broadhempston)	Charles Mole, Esq.	5	1	0	135	1256	49.43	197
Buckfastleigh.....	Totnes Times.....	...	...	...	...	1779	70.03	...
D „ (Harewood)	J. S. Trelawny, Esq.	5	1	0	230	1734	68.28	176
D Holne	L. W. Frost, Esq.	5	1	6	630	1796	70.69	195
D Ashburton (West Street)	Wilfred J. O. Evans, Esq.	5	1	0	240	1466	57.73	194
D „ (Dolbear)	Mrs. W. W. Battiscombe	5	1	0	300	1339	52.71	168
D „ (Druid House).....	J. S. Amery, Esq.	5	1	0	584	1535	60.45	194
D „ (Leusdon Vicarage)...	Rev. A. Woolcombe..	5	1	0	900	1673	65.87	184
D Princetown (Huccaby House) ..	Mrs. Wilsone	5	0	11	900	1590	62.62	180
D „ (H.M. Prison).....	George Perry, Esq.	5	1	0	1359	2218	87.33	207
D „ (Two Bridges)	T. C. Bridges, Esq.	5	0	9	1170	2057	80.98	218
† Dartmoor (Cowsic Valley).....	F. Howarth, Esq., C.E....	8	1	6	1352	1944	76.55	...
† „ (Black Dunghill) No.5	„ „ „ ..	8	1	0	1590	1408	55.45	...
† „ (Beardown Tor) No.3	„ „ „ ..	8	1	0	1550	1405	55.30	...
† „ (White Tor)..... No.1	„ „ „ ..	8	1	0	1640	1491	58.70	...
† „ (Devil's Tor)..... No.2	„ „ „ ..	8	1	0	1785	1481	58.30	...
† „ (Cowsic Head) ... No.4	„ „ „ ..	8	1	0	1580	1782	70.15	...
D Postbridge (Redgate)	H. J. Roberts, Esq.	5	1	0	1180	2059	81.07	228
5.—TEIGN. 209 sq. mi.								
† Torquay (Princess Gardens).....	F. March, Esq.	5	1	0	12	1010	39.78	188
D† „ (Cary Green)	„ „ ..	5	1	0	12	1052	41.43	186
D „ (Merton Lodge)	Miss Brown	5	1	0	250	1031	40.58	169
D† „ (Kilmorie)..... (R)	Sir Thomas Bazley, Bart.	8	4	0	...	1069	42.07	184
D „ (Roby Hall)	Sir J. Edwards-Moss, Bt.	5	1	0	500	1130	44.48	189
D „ (Stoodley Knowle)	Col. C. R. Burn, M.P. ...	5	1	0	150	989	38.92	169
D Kingskerswell (South Hill)	E. A. Foster, Esq.	5	1	0	270	1069	42.07	193
D Abbotskerswell (Court Grange)...	Mrs. Marcus Hare	5	1	1	150	1214	47.78	152
D Newton Abbot (The Chestnuts)...	E. D. Wylie, Esq.	5	0	6	100	986	38.81	196
„ „ (Scale Hayne College)	Bernard N. Wales, Esq. ...	5	1	0	339	1048	41.24	...
Teignmouth (Woodlands)	G. Rossiter, Esq.	8	1	2	98	962	37.89	178
D „ (Den Gardens)	„ „ „ ..	5	1	0	20	1020	40.15	183
D „ (Landscore Res.) ..	„ „ „ ..	8	1	0	136	1026	40.41	171
D „ (Hazledown Res.)...	„ „ „ ..	8	2	0	425	1043	41.08	175
D „ (Shaldon)	„ „ „ ..	5	1	0	213	1061	41.77	166
D „ (Bonnieliff)	Miss M. Horner.....	5	1	0	260	1209	47.61	172
D „ (The Shrubbery) ..	E. A. Norton, Esq.	8	1	0	275	1012	39.83	191
„ (Benton)	W. C. Lake, Esq., M.D...	5	1	0	320	947	37.29	199
„ (Holcombe)	G. Rossiter, Esq. ....	...	...	...	122	1000	39.36	...
D Dawlish (The Lawn)	S. F. C. Churchward, Esq.	5	1	0	18	1004	39.53	158
„ „ (Thorns Reservoir).....	„ „ „ ..	5	1	0	550	1162	45.76	...
D Chudleigh (Ideford Rectory) ..	Rev. G. J. Ford.....	5	1	0	300	941	37.06	174
D Ilsington.....	W. J. J. H. Burnett, Esq. ...	5	1	0	650	1374	54.09	197
D Bovey Tracey (Blenheim House)	Mr. E. E. Underdown.....	5	1	0	350	1286	50.63	168
D Lustleigh (Rockmead)	Rev. W. A. Jones	5	1	0	300	1280	50.41	187
Chudleigh (Trusham)	Rev. Offley H. Cary	5	0	6	322	992	39.07	186
D Moretonhampstead (Bullaton) ...	S. C. Chapman, Esq., C.E.	8	1	0	928	1168	45.98	208

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
SOUTH DEVON—(con.)								
5.—TEIGN—(con.)								
D Moretonhampstead (Mardon) ...	S. C. Chapman, Esq., C.E.	8	1	0	835	1271	50.04	210
North Bovey (Manor House) ...	Mr. G. Laurence	5	1	0	700	1366	53.80	202
D Christow (Kennick)	S. C. Chapman, Esq., C.E.	8	1	0	836	1149	45.22	207
D „ (Smithacott)	„ „ „	5	1	6	861	1188	46.76	200
D Moretonhampstead (Blackingstone)	„ „ „	8	1	0	1158	1240	48.84	205
D Christow (Laployd)	„ „ „	5	1	6	1041	1284	50.56	204
D Moretonhampstead Rectory	Rev. S. D. Dewey	5	1	0	600	1102	43.38	201
Chagford (Millholme)..... (R)	A. S. Fleming, Esq.	8	3	6	600	954	37.55?	...
6.—EXE. 445 sq. mi.								
D Starcross (Cofton Vicarage)	Rev. C. F. Benthall	5	1	9	60	858	33.78	164
Exmouth (Douglas Avenue).....	Rev. S. G. Gillum	5	0	10	80	824	32.44	173
„ (Dagmar Road)	E. C. Thurgood, Esq.	5	1	6	60	832	32.75	...
D „ (Nidderdale)	Mrs. Herbert Stewart	5	1	0	51	793	31.23	170
„ (Manor Grounds)	S. Hutton, Esq., C.E.	5	1	0	13	855	33.67	159
„ (Filters, Salterton Rd.) ..	„ „ „	8	8	6	195	917	36.10	180
„ („ Capel Lane)...	„ „ „	5	8	0	240	900	35.43	183
D Kenton	E. J. Pitt, Esq.	5	1	0	85	985	38.77	175
D Aylesbeare (Rosamondford)	A. T. Loram, Esq.	5	0	10	220	831	32.70	157
† Exeter (Franklyn, St. Thomas)	E. N. Snow, Esq.	5	0	8	65	948	37.31	157
D† „ (Devon & Exeter Inst.)...	J. E. Coombes, Esq.	5	13	7	155	848	33.40	171
D „ (The Close)	Rev. Canon D. McLaren	5	1	1	140	885	34.83	177
D† „ (Elmfield House)	W. B. Heberden, Esq., C.B.	5	1	0	100	855	33.66	165
„ (Hele's School)	W. Littler, Esq.	8	6	4	160	888	34.96	182
† Broad Clyst (Brockhill)	W. T. Bayne, Esq. LL.D.	5	1	0	80	833	32.81	195
D Newton St. Cyres (Sherwood) ...	Capt. A. L. Cave	5	1	0	400	964	37.97	164
D† Brampford Speke Station	Mr. A. Tucker	5	1	0	79	812	31.96	153
D Crediton (Hookway)	A. F. Parbury, Esq.	5	1	0	150	899	35.40	177
D „ (Trobridge House)	R. Stanley Clarke, Esq.	8	1	2	250	860	33.86	208
Whimble (Ouseley)	A. A. Sandars, Esq.	5	0	7	200	887	34.92	..
D Silverton (Killerton)	Mr. J. Wilson	5	1	0	161	883	34.75	166
Crediton (Okefield)	Capt. Seymour F. Pope	5	1	0	325	883	34.76	183
D Copplestone (Copplestone House)..	Miss Pope	5	0	11	315	944	37.18	198
D Cullompton	M. T. Foster, Esq.	5	1	0	202	1021	40.20	198
D Tiverton (St. Peter Street)	Miss Gill	5	6	0	245	1034	40.73	201
D „ (Hartnolls).....	Maj.-Gen. F. A. Bowles, CB	5	1	6	226	1018	40.09	170
D Halberton	Capt. G. Izat, R.N.	5	0	6	240	971	38.24	162
D Uffculme (Bullmoor).....	Miss M. E. Gowring	5	1	0	280	1045	41.13	214
D Bampton (Huntsham Court) ..	H. Acland Troyte, Esq.	8	1	0	640	1089	42.86	165
„ (Oakford Rectory).....	Rev. F. G. Buller	5	1	0	650	1162	45.75	...
„ (Wonham)	Mrs. J. R. Holland	5	1	0	530	944	37.16	169
7.—AXE & C. 237 sq. mi.								
D Budleigh Salterton (Lindenwood)	Lt.-Col. J. H. Hamersley	5	1	0	230	941	37.04	171
D „ „ (Knowle House)	Capt. A. Pepys	5	1	0	238	879	34.62	148
„ „ (Squabmoor)	S. Hutton, Esq., C.E.	5	1	0	267	985	38.77	177
D Otterton Vicarage	Rev. R. Seymour	5	0	7	80	978	38.52	185
D† East Budleigh (Bicton Gardens)	Mr. E. H. High	5	1	0	90	994	39.15	175
„ „ („ Common)	S. Hutton, Esq., C.E.	5	1	0	300	1034	40.72	...
D† Sidmouth (Sidmount)	Miss C. M. Radford	5	1	0	149	1047	41.21	182
„ („)	„ „ „	5	1	0	186	1002	39.43	182

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 01 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
SOUTH DEVON—(con.)								
7.—AXE & C—(con.)								
Sidmouth (Winslade Cottage) ...	Miss G. Collins	5	1	0	150	1066	41·99	184
Branscombe	<i>Devon & Exeter Gazette</i>	5	2	4	170	950	37·38	189
d† Seaton	Mrs. Pattinson	5	0	10	25	977	38·47	186
d Axmouth (Millmead)	E. H. Waters, Esq.	5	4	9	20	1028	40·46	194
d Rousdon [Lyme Regis]	Mr. C. Grover	5	1	0	516	1009	39·72	180
d Pinhay [„ „]	Mr. J. F. Stobo	5	1	11	465	1072	42·21	175
d† Ottery St. Mary (West Hill) ...	B. Stansbury, Esq.	5	1	6	340	972	38·25	200
d† „ „ „ (Broad Street) ..	H. D. Badcock, Esq.	5	4	0	170	1028	40·46	177
d† „ „ „ (Manor House) ..	W. A. Willock, Esq.	5	1	2	200	1027	40·45	185
d Northleigh Rectory	Mrs. W. Champernowne ..	5	0	6	335	1221	48·08	209
d Kilminster (Haddon Corner) ..	A. Hitchcock, Esq.	5	1	0	400	1144	45·02	182
„ („ „) M	„ „ „ „	5	1	0	400	1134	44·64	...
Axminster	Col. A. L. Bayley	5	4	8	120	1210	47·65	166
d Chardstock Vicarage	Rev. A. Lewis	5	0	8	317	1187	46·74	196
NORTH DEVON. (Area, 898 sq. mi.)								
1.—NORTH COAST STREAMS. 77 sq. mi.								
† Braunton (Sands Hotel, Saunton)	A. V. Youngs, Esq.	5	1	0	75	829	32·64	160
d† Woolacombe (Hotel Grounds) ..	Miss Chichester	5	1	0	60	886	34·87	197
d† Morthoe (Twitchen House)	Dr. G. B. Longstaff	8	1	0	430	1050	41·36	204
d† Ilfracombe (Reservoir)	O. M. Prouse, Esq., C.E. ...	5	1	0	395	1113	43·83	200
d† „ „ (Bickleighscombe) ...	Mrs. Slade King	5	1	0	300	1097	43·20	198
d† „ „ (Meteorological Station)	O. M. Prouse, Esq., C.E. ...	5	1	0	25	924	36·36	202
d Martinhoe Rectory	Rev. R. W. Oldham	5	2	3	808	1054	41·50	174
Lynton (Lee Abbey)	C. F. Bailey, Esq.	5	0	6	320	1055	41·54	...
d Lynmouth (Gwynallt)	A. L. Ford, Esq.	8	0	8	284	1151	45·30	191
d „ „ (Rock House)	T. H. Mead-Briggs, Esq. ...	5	0	11	22	1065	41·92	201
2.—TAW. 442 sq. mi.								
d Spreyton Vicarage	Rev. T. G. Blackwood Price ..	5	1	0	735	989	38·95	188
d Chumleigh (Leigh House)	Mr. W. Gillies	5	1	0	420	1014	39·92	200
d Witheridge	H. J. Mansfield, Esq.	5	1	2	600	1074	42·29	169
d Rackenford Manor	F. J. Coleridge Boles, Esq. ...	5	1	1	757	1230	48·43	182
d Warkleigh Rectory	Rev. J. H. Thompson	5	1	0	439	990	38·99	201
d South Molton	F. Day, Esq.	5	1	0	450	1266	49·83	188
d Filleigh (Castle Hill Gardens) ..	The Countess Fortescue ..	12	3	6	367	1091	42·95	209
d Molland	S. J. Case, Esq.	5	1	9	674	1295	51·00	209
d East Anstey (Rhyll Manor)	Mrs. Hancock	5	1	0	850	1268	49·93	180
West Buckland (County School)	late T. Wainwright, Esq. ...	...	...	...	680	1216	47·86	174
d† Barnstaple (N. Devon Athenæum)	„ „ „	8	1	0	25	975	38·39	194
d† „ „ (Fort Hill)	Rev. F. Sterry	5	2	3	200	1007	39·64	206
d† „ „ (Pilton)	Capt. G. F. Hibbert	5	1	0	83	977	38·48	213
d Heanton Punchardon (Chivenor)	Maurice E. Yonge, Esq. ...	5	1	8	18	909	35·80	199
d Braunton (Tyspane)	A. M. Norton, Esq.	5	1	0	95	1008	39·67	201
d Arlington Court	Miss Chichester	5	1	0	613	1392	54·81	213
d Challacombe	O. M. Prouse, Esq., C.E. ...	5	1	2	815	1604	63·13	191
3.—TORRIDGE. 342 sq. mi.								
d Okehampton (Oaklands)	Maj.-Gen. E. H. Holley ...	5	1	0	500	1273	50·12	176
d Petrockstow (Heanton Satchville)	Mr. A. Eames	5	1	0	332	1030	40·56	177

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground, Sea Level			1915		
		in.	ft.	in.	feet.	mm.	inches.	
NORTH DEVON—(con.)								
3.—TORRIDGE—(con.)								
Dolton (Hilliers)	A. Smythies, Esq.....	5	1	3	380	973	38.32	177
D Beaford (Abbots Hill)	J. Stuckey, Esq.....	5	5	0	380	928	36.53	177
D Torrington (Enfield)	G. M. Doe, Esq.....	5	1	0	336	1061	41.78	200
D Parkham (Melbury Moor).....	Baldwin Latham, Esq.C.E.	5	1	0	623	1305	51.39	226
D- " (" Reservoir)...	" " "	5	1	0	516	1375	54.12	226
D Bideford (Gammaton W. W.)...	" " "	5	1	0	335	1011	39.80	211
D " (Webbery)	Mrs. C. E. Boyd.....	5	1	10	355	969	38.15	192
D " Rectory	Rev. T. Newton Leeke....	5	1	2	150	1011	39.80	191
" (Northam Road).....	Mr. W. Littlejohns	5	0	6	20	993	39.10	166
" (Slade Park)	J. C. T. Heriz-Smith, Esq.	5	1	6	188	936	36.86	183
" (Horwood House)	Rev. J. Dene	5	1	0	288	862	33.94	197
D Northam Vicarage.....	Rev. Preb. Dimond-Churchward	5	1	3	173	890	35.04	211
D " (Fairlea)	Col. F. W. Bennet....	5	2	6	200	927	36.49	194
D Westward Ho! (Bellevue)	A. H. Boyd, Esq.	8	1	0	200	896	35.28	208
" " (Royal Golf Club)	The Secretary.....	5	1	6	20	903	35.55	...
D Instow.....	Miss Lock	5	1	0	100	859	33.81	178
4.—WEST COAST STREAMS. 32 sq. mi.								
D Hartland Abbey.....	Mr. G. Sleep	5	1	6	222	944	37.18	176
D Clovelly Court	Mr. H. Tuke	5	0	11	360	1343	52.87	183
5.—EXE. 5 sq. mi.								
CORNWALL. (Area, 1357 sq. mi.)								
1.—CAMEL & N.W. COAST STREAMS. 458 sq. mi.								
Phillack Rectory	Rev. Canon A. P. Hockin	5	1	0	70	986	38.82	172
D Camborne (Boswyn Reservoir)...	W. F. Bickford, Esq.	8	2	0	511	1178	46.37	214
D†Redruth (Trewirgie)	A. P. Jenkin, Esq.....	5	1	0	399	1290	50.78	204
D " (County School)	S. B. White, Esq.	5	0	6	375	1119	44.06	188
D " (Tehidy Park).....	Mr. F. J. Clark	5	1	5	187	1115	43.88	181
†St. Agnes	W. Whitworth, Esq.....	5	3	8	318	1034	40.72	202
D†Newquay (Tresillian House) ...	Lt.-Col. E. Gully-Bennet	5	2	0	290	1164	45.81	182
† " (Mount Wise) ...No. 1	A. D. Braggins, Esq.	5	1	0	190	986	38.84	200
D Bodmin (Polgwin)	H. D. Foster, Esq.....	5	1	0	300	1436	56.54	200
D " (Castle Hill House).....	W. G. Wales, Esq., C.E.	5	1	0	484	1360	53.56	213
Helland (Tredethy)	Mrs. Hext	5	1	6	...	1186	46.69	208
Camelford (Stannon Clay Works)	N. Cornwall China Clay Co.	8	1	0	800	1569	61.77	208
D Tintagel	Mr. H. J. Taylor	5	1	2	240	979	38.56	185
D " (Trenowan House)	Priestley Hogbin, Esq.	5	1	0	350	1080	42.54	202
D Bude (The School House).....	Karl Durston, Esq.	5	1	0	51	908	35.74	206
D " (Bramble Hill).....	J. E. Barclay Bevan, Esq.	6	1	0	80	1006	39.60	224
D Morwenstow Vicarage	Rev. H. Lynne Jones.....	5	0	10	331	1025	40.36	234
D " (Torracombe Manor)	W. W. Martyn, Esq.....	5	1	0	450	1006	39.61	191
2.—FOWEY & S.E. COAST STREAMS. 620 sq. mi.								
Lizard	M. A. P. Jenkin, Esq.....	5	1	0	244	1032	40.64	...
D Cadgwith (Coastguard Houses)...	Miss H. F. Shepherd.....	5	1	0	180	1122	44.19	196
D Mullion (Polurrian Hotel)	Mr. R. Thomas	5	1	0	230	872	34.32	160
St. Keverne (Lanarth)	P. D. Williams, Esq.	5	0	10	290	1307	51.46	209
D " " (Rosuick Cottage)...	G. W. Jevons, Esq.	5	1	0	250	1300	51.19	215

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0·1 in. or more
		Diam.	Height Above Ground. Sea Level			1915		
		in.	ft.	in.	feet.	mm.	inches.	
CORNWALL—(con.)								
2.—FOWEY & S.E. COAST STRE								
Bosahan	Cornwall County Council ...	...	...	...	240	974	38·33	162
Helston (Tenderah)	J. Walker Tyacke, Esq.	5	1	0	220	1236	48·68	189
+ Penzance (Morrab Garden)	C. H. Benn, Esq.	5	1	0	55	1180	46·44	198
" (Rosehill) .....(R)	David Howell, Esq.	10	3	0	212	1028	40·48	191
+ " (Trengwainton House)	T. Robins Bolitho, Esq.	10	1	0	400	1359	53·51	175
D " (County School).....	Lance Webb, Esq.	8	0	6	55	1110	43·69	208
Marazion	T. Field Michell, Esq.	5	2	0	30	1157	45·55	181
" (Porth-en-alls)	F. F. Page, Esq.	5	1	0	...	1043	41·05	...
Falmouth (New Observatory)(R)	Meteorological Office	11	2	0	169	1344	52·91	205
D " (" ")	" " " " " " " " " " " "	8	1	0	168	1322	52·03	206
D Penryn (Ashfield)	J. G. Stephens, Esq.	5	1	1	100	1256	49·46	192
D Redruth (Pencoys Vicarage) ..	Rev. L. C. Carpenter	5	1	0	701	1402	55·19	208
+ " (Trevince)	E. B. Beauchamp, Esq.	8	1	0	240	1382	54·43	208
D Truro (Killiow)	Miss Daubuz	5	1	0	230	1212	47·72	192
D " (Tregolls)	Miss C. L. Rashleigh	5	1	0	65	1201	47·30	205
+ " (Pencalenick)	H. H. Williams, Esq.	5	0	7	80	1149	45·22	...
+ " W.W. (Lower Tregurrow) ..	W. J. Lean, Esq.	5	1	0	71	1269	49·96	188
D Probus (Lamellyn).....	H. Tresawna, Esq.	5	0	6	230	1085	42·71	151
D Talland (Polperro)	H. E. Butler, Esq.	5	1	0	120	1212	47·73	209
+ " (Torfrey)	Miss D. Mills	5	0	6	250	1331	52·39	175
+ St. Austell (Trevarna)	W. M. Coode, Esq.	5	1	0	300	1394	54·87	208
D Looe (Morval)	G. Roberts, Esq.	5	1	0	150	1290	50·79	161
" (Bray)	Mrs. G. Sneyd	5	1	0	530	1239	48·77	219
+ Lostwithiel (Lanwithan)	Miss Foster	5	1	0	80	1303	51·29	194
D Roche (Glenceoe)	Miss Browne	5	0	9	602	1232	48·52	204
+ Liskeard (Trevillis)	L. C. Foster, Esq.	5	1	0	320	1249	49·18	208
3.—TAMAR & C. 279 sq. mi.								
D Empacombe [Devonport]	J. Sandercock, Esq.	5	1	0	20	1135	44·67	200
Cremyll [Devonport].....	Cornwall County Council ..	5	10	0	25	1059	41·70	213
D St. Germans (Fairfield).....	Dr. J. Wallis Gill	5	2	0	170	1188	46·79	167
D Antony Vicarage	Rev. Alan Clover	5	1	0	195	1119	44·07	186
D Torpoint (Merifield Vicarage) ..	Rev. Leonard A. Williams ..	5	0	8	160	1158	45·59	200
Saltash (Pentillie Castle)	Cornwall County Council ..	5	2	4	150	1414	55·69	181
St. Mellion Rectory	Rev. F. T. Wintle	5	1	0	400	1262	49·70	191
D Callington (Pencrebar).....	Miss Horndon	5	1	9	450	1282	50·46	210
D " (Mount Lodge)	G. Brown, Esq.	8	4	0	400	1290	50·77	194
D Albaston	N. R. Rosekilly, Esq.	5	4	0	600	1135	44·70	188
D Launceston (Landue)	Miss S. E. Tregoning.....	5	0	11	225	1341	52·79	220
D " (Hexworthy)	R. B. Rogers, Esq.	5	1	0	270	1212	47·70	199
D Altarnon Sanctuary	Rev. A. H. Malan	5	1	0	620	1614	63·53	218
D Launceston (Old Tree House) ..	Mrs. Saunders	8	1	6	600	1129	44·44	186
Egloskerrey (Tregeare)	E. G. B. Lethbridge, Esq. ..	5	1	0	575	1317	51·86	...
North Tamerton (Davies).....	Mr. W. Bray	5	4	0	390	1004	39·54	180
4.—INSULAR—Isles of Scilly.								
St. Mary's	Meteorological Office	8	1	6	131	861	33·90	208
Tresco Abbey.....	T. A. Dorrien Smith, Esq. ..	11	3	0	40	907	35·72	222

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more	
		Diam.	Height Above Ground. Sea Level			1915			
		in.	ft.	in.	feet.	mm.	inches.		
SOMERSETSHIRE. (Area, 1630 sq. mi.)									
1.—LOWER AVON. 300 sq. mi.									
	Wanstrow (The Manor Cottage)	P. E. B. Warburton, Esq.	5	1	0	465	1094	43·09	...
D	Cranmore Hall	E. B. Whish, Esq.	8	1	9	609	1278	50·33	187
	Shepton Mallet (Pondsmead, Oakhill)	Mr. J. Fletcher	8	1	0	710	1292	50·86	172
D	„ „ (Hillylands, „)	Mr. E. Stock	5	0	10	659	1327	52·23	190
D†	Frome W.W. (Egford)	F. W. Jones, Esq., C.E....	8	2	0	270	1152	45·36	190
†	„ (Selwood School)	Miss E. M. Coombs	5	0	9	310	1102	43·40	185
	Mells Park.....(R)	Gilbert T. Bates, Esq. ...	...	...	...	410	1003	39·49	...
D	„ (Wadbury House)	Mrs. Sykes	5	1	0	394	1255	49·42	169
D	„ (Selwood)	Miss E. G. Horner.....	5	1	0	344	1262	49·70	185
D	Binegar (Gurneyslade)	Rev. G. B. Hicks	5	1	0	588	1214	47·79	165
D	Stratton-on-the-Fosse (Downside Abbey)	„ „ „	8	1	0	600	1172	46·16	169
D	Frome (Orchardleigh)	Rev. Canon Duckworth...	8	0	10	303	1071	42·16	179
D	„ (Beckington)	E. M. Nelson, Esq.	8	1	3	270	1017	40·03	168
	„ (The Cedars)	F. E. Rogers, Esq.	5	0	7	250	1058	41·66	...
D	Chewton Mendip (The Priory) ...	The Earl Waldegrave....	5	1	0	550	1224	48·21	185
D	„ „ (Waldegrave Ho.)	J. Hollis, Esq.	5	1	1	440	1155	45·49	182
	Ston Easton	H. E. Hippisley, Esq. ...	5	3	0	480	1154	45·42	185
D	Midsomer Norton (Island House)	Dr. G. S. Pollard	5	1	6	300	1079	42·47	171
D	„ „ (Dymboro)	Dr. A. Bulleid	5	1	0	357	1103	43·44	167
	Radstock	G. H. Gibson, Esq.....	8	8	0	330	1043	41·07	...
D	E. Harptree (Sherborne Res., Litton)	J. A. McPherson, Esq., C.E.	5	1	0	338	1201	47·29	181
D	„ „ (Harptree Court) ...	late W. W. Kettlewell, Esq.	5	1	0	346	1166	45·91	171
	„ „ („ Hill)	J. A. McPherson, Esq., C.E.	8	1	0	784	1069	42·10	...
D	Temple Cloud.....	Dr. Theodore Martin.....	5	1	0	340	1034	40·72	185
D	Clutton (Council School)	J. Pullen, Esq.	5	1	6	427	931	36·65	188
D	Pensford (Sutton Court)	Lord Strachie	8	1	0	280	1046	41·18	188
D	Dunkerton Rectory	Rev. F. C. Newbery	5	1	0	300	1044	41·09	173
D	Freshford (The Old House)	G. Longman, Esq. ....	...	..	..	...	993	39·08	184
D	Bath (Crossways, Monkton Combe)	M. J. Lipscomb, Esq.....	5	1	0	180	1051	41·39	159
D	„ (Combe Down)	Miss Scriven	5	5	0	500	1034	42·67	190
	Chew Magna	J. A. McPherson, Esq., C.E.	5	1	4	180	1045	41·13	163
D	Pensford (Publow School House)	A. Hayes, Esq.	5	1	0	230	928	36·54	162
D†	Bath (Henrietta Park)	Dr. W. H. Symons	5	1	0	67	917	36·12	163
D	„ (Statutory Hospital).....	„ „ „	5	1	0	520	998	39·31	150
D	„ (Somerset Place)	Miss L. B. Lewis Lloyd ..	5	0	10	350	985	38·79	208
D	„ (Charlcombe).....	J. Dent Young, Esq. C.E....	8	2	0	325	988	38·89	175
D	Saltford House	Col. W. V. Rolleston.....	8	0	8	100	889	35·00	177
D	Batheaston Reservoir	J. Dent Young Esq., C.E.	6	2	0	248	1044	41·12	187
	Barrow Gurney Reservoir	J. A. McPherson, Esq., C.E.	5	1	6	300	1048	41·25	185
D	Keynsham (West View Road)...	S. B. Froude, Esq.....	5	1	0	102	895	35·23	148
D	Long Ashton (Agric. Station) ...	E. P. West, Esq.	8	0	9	165	924	36·36	161
D	„ „ (Estate Office)	H. B. Napier, Esq.	8	1	0	134	1025	40·37	163
	Bristol (Coronation Road)	H. C. Martin, Esq.	5	0	10	50	886	34·90	181
D†	Failand House	Miss Agnes Fry	5	1	0	385	949	37·36	193
	Portishead (Woodside Cottage)...	E. Harvey, Esq.....	5	1	2	150	842	33·16	...
2.—YEO, AXE & BRUE. 405 sq. mi.									
D	Castle Cary (Alford House)	Admiral P. F. Tillard.....	5	1	6	98	888	34·96	180
D	Somerton (Butleigh Court)	R. Neville Grenville, Esq.	8	1	2	95	878	34·57	172
D	Bruton (Sexey's School)	Rev. H. A. Boys	5	1	0	280	915	36·02	173

DIVISION V.—SOUTH WESTERN COUNTIES—(continued.)

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		Diam.	Height Above			1915		
			Ground.	Sea Level				
		in.	ft.	in.	feet.	mm.	inches.	
SOMERSETSHIRE—(con.)								
2.—YEO, AXE & BRUE—(con.)								
D Bruton (King's School)	D. E. Norton, Esq.....	5	1	2	200	1039	40·92	194
D Street (Overleigh House).....	J. B. Clark, Esq.	5	0	8	100	837	32·94	166
D „ (Hind Hayes).....	Joseph Clark, Esq.....	5	1	5	78	846	33·32	165
D „ (Millfield)	W. S. Clark, Esq.	8	1	0	100	840	33·09	178
D Glastonbury (Wyrral)	J. Morland, Esq.	5	0	8	110	812	31·97	163
D Shepton Mallet (Pilton)	J. Dredge Allen, Esq.....	5	1	3	354	983	38·71	171
D† „ „ (Charlton)	C. E. Burnell, Esq.	5	1	0	481	1105	43·51	185
D† „ „ (Field House) ...	F. H. Berryman, Esq.	5	1	0	500	1112	43·80	173
D† „ „ (Grammar School)	William Aldridge, Esq....	5	1	0	475	1101	43·34	185
D „ „ (Sewage Farm)..	W. Reader, Esq.	5	0	8	310	1102	43·40	179
D Wells (Dinder Cottage).....	Miss I. L. Joseph	5	1	0	150	1037	40·81	189
D „ (Somerset & Bath Asylum)	J. E. P. Shera, Esq., M.D.	5	1	0	300	759	29·89	193
† „ (Wookey Hole Paper Mills)	W. S. Hodgkinson & Co...	5	1	4	180	973	38·32	...
D Burnham (Dunstan Ho., Chalbury)	H. A. Smith Spark, Esq.	5	1	0	20	778	30·65	172
„	W. H. Chowins, Esq., C.E.	8	0	9	24	754	29·70	161
D „ (Brent Knoll).....	Miss FitzGerald.....	5	2	0	26	807	31·76	175
Compton Martin	J.A.McPherson, Esq., C.E.	8	1	0	276	1119	44·04	...
Ubley (Rookery Farm).....	„ „ „	8	1	0	525	1189	46·81	...
D Blagdon (Nordrach-on-Mendip)..	W.R.Thurnam, Esq., M.D.	5	0	4	862	1114	43·86	192
D Winscombe (The Down)	J. Grubb, Esq.	5	1	0	295	891	35·06	187
D Banwell (Eversley)	Kenneth Anderson, Esq...	5	1	6	50	883	34·78	163
Blagdon Hill	J.A. McPherson, Esq., C.E.	8	1	0	550	1018	40·06	...
„ (Pumping Station).....	„ „ „	8	0	8	112	966	38·02	176
„ (Coombe Lodge).....	„ „ „	8	1	0	388	1005	39·56	...
Ubley (Pixey Hole)	„ „ „	8	1	0	300	984	38·76	...
Nempnett (West Town)	„ „ „	8	1	0	263	983	38·70	...
Burrington (Burrington Link)...	„ „ „	8	1	0	335	986	38·82	...
D „ (Langford)	Miss M. B. Smith	5	1	8	40	930	36·62	184
D† Weston-spr.-Mare (Leycroft Ho.)	C. Brown, Esq.	8	1	0	15	816	32·11	157
D† „ „ „ (Clarence Park)	W. H. Allen, Esq.....	5	1	2	28	800	31·50	157
„ „ „ (Kewstoke) ...	H. Ruddle, Esq.....	5	1	0	40	846	33·29	...
Butcombe (Cholwell).....	J. A. McPherson, Esq., C.E.	8	1	0	370	1059	41·69	...
D Wrington (The Cottage)	H. C. Bristowe, Esq., M.D.	5	6	0	100	874	34·40	166
D „ (The Rectory)	Rev. G. M. Ashdown... ..	5	5	0	68	937	36·88	175
Yatton (Chelvey)	J.A. McPherson, Esq., C.E.	8	0	8	60	898	35·35	158
D Flax Bourton (Backwell Hill Ho.)	W. Garnett, Esq.	8	1	10	490	950	37·41	170
D „ „ (The Grange)	C. Onslow Master, Esq....	5	1	0	180	933	36·72	142
D† Clevedon W.W. (Old Street) ...	J. Harger Pye, Esq.	5	1	10	28	824	32·42	165
D† „ „ (Tickenham Rd.)	„ „ „	5	1	6	70	847	33·35	185
D† „ „ (Bowling Green)	Major A. B. Trestrail ...	5	0	11	126	871	34·29	166
Wraxall (Boys' School).....	Ebenezer Brown, Esq....	5	1	2	...	999	39·34	200
„ Rectory	Mrs. Vaughan	8	3	0	100	888	34·94	172
3.—PARRETT. 568 sq. mi.								
D Crewkerne (The Reservoir)	E. H. Munford, Esq.....	8	1	0	426	1054	41·49	169
D „ (Bincombe House) ...	Miss Sparks	5	1	2	294	1127	44·36	179
D „ (Merefield House)	J. Tompsett, Esq.	8	1	1	231	1132	44·55	167
Coker Court Gardens	Mr. T. H. Gilham	8	1	0	250	1062	41·83	148
D West Coker	G. F. Deedes, Esq.....	5	1	6	265	872	34·34	168

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

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		Diam.	Height Above Ground		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
SOMERSETSHIRE—(con.)								
3.—PARRETT—(con.)								
D West Coker	Arthur Scratton, Esq.....	5	1	6	230	1024	40·30	181
D Ilminster (Laurel Bank)	W. Beckwith, Esq.	5	1	0	180	1006	39·60	177
D „ (Whitelackington Ho.)	S. Creed, Esq.	5	3	0	200	993	39·09	171
D „ (Dillington Park)...(R)	Mr. W. Goldthorpe	8	3	0	161	1036	40·79	159
Montacute (Odombe Rectory)...	Rev. H. A. Boys	5	1	0	379	998	39·29	164
D Yeovil (Gas Works)	E. Howell, Esq.....	5	22	0	122	848	33·39	160
D „ (Pen Mill Sewage Works)	Dr. A. E. Remmett Weaver	5	1	0	102	918	36·16	196
D South Petherton (Yeabridge) ...	Miss V. Blake	8	0	9	100	874	34·43	181
D Wellington (Old Way House) ...	T. Fox, Esq.	5	1	1	300	840	33·07	190
D Stoke-under-Ham	Miss Gillett.....	8	1	0	80	894	35·19	163
D Tintinhull (Manor House).....	Rev. Dr. S. J. M. Price...	5	0	10	145	916	36·05	158
D Angersleigh (Blagdon Reservoir)	H. T. Coles, Esq.	8	1	6	590	1078	42·44	150
D „ (Leigh Hill Reservoir)	„ „ „	8	1	6	525	1048	41·25	150
D „ („ Court)	A. Eastwood, Esq.....	8	1	0	360	988	38·90	180
D Langford Budville (Ritherdens)	Miss Rodd	5	0	10	380	935	36·82	184
D Milverton (Spring Grove).....	C. Roberts Gawen, Esq....	5	0	8	500	1023	40·29	190
D „ (Old Halls)	Charles Bere, Esq.....	5	1	0	250	1008	39·66	180
D Taunton (The Park)	Dr. H. J. Alford.....	5	1	0	70	822	32·35	184
D Wiveliscombe (Culverhead)	T. R. Marsh, Esq.....	5	1	0	450	1089	42·88	171
D Langport (The Grange).....	Dr. H. Markant Page....	5	1	0	50	890	35·04	192
D „ (Huish Episcopi)	Miss A. M. Kelway	8	1	1	30	815	32·09	158
D Milverton (The Mount, Halse)...	Miss S. C. Smith	5	1	2	254	895	35·24	195
D Wincanton (Maperton Ho. Gdns.)	Mr. L. G. Read	5	1	3	...	1184	46·62	213
D North Cadbury Rectory	Rev. H. A. Boys	8	1	3	256	1023	40·26	190
D Somerton (Kingweston)	Rev. G. de Y. Aldridge...	5	2	6	200	980	38·60	185
Cothelstone House.....	C. E. J. Esdaile, Esq....	5	1	0	430	968	38·13	185
D North Petherton (The Old Rectory)	E. Constable Curtis, Esq.	8	0	6	136	860	33·86	164
Bridgwater (Nurseries).....	Mr. H. Corder	5	0	6	30	758	29·83	176
D „ (Blake Gardens) ...	F. Parr, Esq., C.E.	5	3	1	27	792	31·16	161
D „ (Ashford)	„ „ „	5	1	5	102	833	32·81	179
D „ (Northfield)	H. C. Salmon, Esq.	5	4	10	50	788	31·04	175
D Fiddington (Keenthorpe)	T. W. Cuffe, Esq.	5	1	0	220	845	33·27	164
D Cannington (Brymore)	H. H. P. Bouverie, Esq....	5	1	6	65	771	30·35	174
4.—NORTH COAST STREAMS.								
158 sq. mi.								
Williton (Aller Farm)	T. Hosegood, Esq.....	5	2	6	175	896	35·29	164
D „ (Capton)	Rev. H. H. Tripp	5	1	0	300	917	36·12	152
D Holford (Dytche School)	J. E. Overend, Esq.	5	1	0	260	872	34·32	191
D Quantockshead (St. Audries) ...	Mr. F. S. Hayne	8	1	0	260	812	31·95	146
D† Minehead (Mariansleigh)	T. F. Twist, Esq.	5	1	0	45	840	33·08	177
D† „ (Clanville)	Sir R. Shafto Adair, Bt...	5	1	0	105	800	31·48	171
Porlock (Lynch Mead, Allerford)	J. Dyke Acland, Esq.....	5	1	3	100	937	36·89	178
5.—EXE. 122 sq. mi.								
D Dulverton (Exebridge Fishery)...	T. F. Tracy, Esq.	5	1	0	410	1208	47·56	180
D Brushford Rectory	Rev. B. J. du Boe	5	1	0	450	1168	46·00	187
D „ Nurseries	Mr. G. Ruff	5	1	2	400	1177	46·34	201
D Hawkrigge (Liscombe)	Mr. E. W. Darby	5	3	6	980	1505	59·26	209
Winsford School	W. Dicker, Esq.	5	1	2	685	1526	60·06	188
D Cutcombe (Wheddon Cross)	H. H. P. Bouverie, Esq....	5	1	2	945	1304	51·35	182

DIVISION V.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with "01 in. or more
		Diam.	Height Above			1915		
			Ground.	Sea Level				
		in.	ft.	in.	feet.	mm.	inches.	
SOMERSETSHIRE—(con.)								
5.—EXE—(con.)								
Exford (North Ley)	F. G. Heal, Esq.....	5	5	0	1000	1478	58.20	...
D Simonsbath.....	Rev. H. F. Ramsay	5	1	3	1080	1784	70.25	223
6.—AXE. 42 sq. mi.								
D Chard (Tatworth Vicarage)	Rev. H. Stuart King.....	5	1	3	345	1192	46.94	176
D „ „ Vicarage.....	Rev. Preb. Walter Farrer	5	1	0	380	1224	48.18	187
D Cricket St. Thomas (Cricket Ho.)	Mr. H. M. Harvey.....	5	1	0	444	1227	48.29	195
D Otterhead	W. Black, Esq.	9	4	0	700	1093	43.01	201
7.—STOUR. 35 sq. mi.								
D Henstridge (Inwood Ho. Gardens)	Mr. W. Hester	5	1	0	350	1035	40.74	159
D Temple Combe Rectory	Rev. J. C. Fox	5	0	6	215	1122	44.17	185
D „ „ (Cheriton House)	Rev. H. A. Boys .....	...	...	...	...	1080	42.51	179
D Wincanton (Roundhill Grange)	General C. H. P. Ducat... ..	5	1	9	380	1083	42.64	201
Pen Selwood Rectory.....	Rev. Newton Parsons.....	5	0	10	680	1143	45.01	...

DIVISION VI.—WEST MIDLAND COUNTIES.

GLOUCESTERSHIRE. (Area, 1243 sq. mi.)

1.—WYE. 50 sq. mi.								
D Castleford [Chepstow]	Mrs. W. R. Lysaght	5	0	8	146	880	34.64	167
D Pen Moel [„]	W. R. Price, Esq.	5	1	0	240	965	38.00	168
D Forest of Dean (Mailscot Lodge)	C. O. Hanson, Esq.	8	1	0	630	954	37.54	177
D „ „ „ (Ruardean Hill Lo.)	„ „ „ „	8	1	0	932	976	38.42	163
D Lydbrook (Viaduct House)	G. S. Damsell, Esq.	5	1	0	95	906	35.65	181
2.—SEVERN—Right Bank Tributaries. 176 sq. mi.								
Sedbury Park [Chepstow]	Col. P. S. Marling, V.C., C.B.	8	1	0	175	878	34.55	...
D Lydney (Clanna)	Captain W. B. Marling	5	1	0	260	986	38.84	168
D Forest of Dean (Whitemead Park)	C. O. Hanson, Esq.	8	1	0	200	951	37.43	158
D „ „ „ (Blakeney Hill Lo.)	„ „ „ „	8	1	0	500	866	34.03	161
D „ „ „ (Worcester Lodge)	„ „ „ „	8	0	11	712	855	33.65	150
D „ „ „ (Edgehills Lodge)	„ „ „ „	8	1	0	914	897	35.33	171
D Cinderford (Belle Vue Road)	Dr. J. N. Beadles	5	1	1	780	969	38.14	170
D Westbury-on-Severn (Chaxhill)	Mrs. Grant	5	3	0	122	866	34.11	154
Mitcheldean (Blaisdon)	Colin MacIver, Esq.	5	1	6	117	902	35.53	...
D Tewkesbury (Forthampton Court)	Mr. H. French	5	1	0	48	906	35.66	151
D „ „ (Upper Lode)	E. J. Bradley, Esq.	5	1	0	41	856	33.69	167
D Bromsberrow Pumping Station	W. Osborne Thorp, Esq. C.E.	5	1	0	181	741	29.19	151
3.—SEVERN—Left Bank Tributaries. 372 sq. mi.								
D Wickwar	F. G. Ansell, Esq.	5	1	0	260	872	34.35	153
Thornbury (Thornbury House)	H. V. Gillett, Esq.	5	2	1	125	848	33.37	...
Tortworth Court	The Earl of Ducie	8	1	0	264	906	35.69	178
„ „ School	E. A. Smith, Esq.	5	2	0	264	902	35.52	178
„ „ (Marsten)	G. W. Blanchard, Esq.	5	0	9	264	906	35.69	178
Dursley (Woodmancote)	E. Fryer Smith, Esq. per MO	5	1	0	257	901	35.49	...
Berkeley Castle Gardens	Mr. S. Wathen	5	1	6	62	855	33.67	...
D „ „ (Sharpness Docks)	F. A. Jones, Esq., C.E.	5	3	6	50	815	32.09	178
D Nailsworth (Dunkirk Manor)	Miss M. C. Meade-King	5	1	3	400	1050	41.34	181
Minchinhampton (Rowan Cottage)	E. Metcalfe Day, Esq.	5	1	0	630	957	37.67	186

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above Ground. SeaLevel			1915		
		in.	ft.	in.	feet.	mm.	inches.	
GLOUCESTERSHIRE—(con.)								
3.—SEVERN—Left Bank Tributaries—(con.)								
D Minchinhampton (Camp Field).....	Piers F. Legh, Esq.	5	1	6	650	1008	39·69	159
Chalford (Hyde Grange)	late C. J. Bowstead, Esq.	5	2	6	527	1002	39·46	...
D Stroud (Stanley Park)	Sir W. H. Marling, Bart.	8	1	0	365	954	37·56	159
D „ (Upfield).....	A. W. Stanton, Esq.....	5	1	0	226	824	32·46	170
D Stonehouse (Wycliffe College)...	W. A. Sibly, Esq.	5	1	0	130	848	33·39	154
„ (Parklands) No. 1 (R) ..	W. Grey Robinson, Esq...	8	2	6	103	790	31·10	178
„ („) ... No. 2 „ „ „ „	„ „ „ „ „ „	5	2	6	103	791	31·15	180
Stroud (Park Farm, Lypiatt) ...	E. Armitage, Esq.	5	0	6	720	958	37·70	...
D Whitminster (Junction Lane) ..	F. A. Jones, Esq., C.E.	5	1	0	32	896	35·29	190
Haresfield Court	R. I. Tidswell, Esq.	5	1	0	100	904	35·61	202
D Harescombe Grange	Stamford Hutton, Esq....	5	1	0	557	846	33·30	181
D Brookthorpe (Chambers Farm)...	Mr. H. C. Prinsep.....	8	1	0	157	755	29·74	159
Quedgeley House	Col. T. Curtis Hayward...	5	1	0	65	833	32·80	157
D Witcombe Reservoir	R. Read, Esq., C.E.	8	3	0	297	911	35·88	153
D Gloucester (The Park)	G. Embrey, Esq.	8	1	3	56	796	31·36	193
„ (Denmark Road).....	A. J. Stephens, Esq.....	5	1	0	80	784	30·87	...
„ („ „)	Harley Butt, Esq.	5	1	5	79	792	31·17	187
D „ (Barnwood Vicarage)	Rev. F. H. Fowler.....	5	1	0	80	901	35·49	186
D „ (Llanthony Lock) ..	E. J. Bradley, Esq.	5	1	2	39	798	31·40	178
D „ (Wotton Asylum) ..	Dr. E. F. Kough	8	0	9	93	889	35·01	168
D „ (Maisemore Lock) ...	E. J. Bradley, Esq.	5	1	1	39	784	30·88	170
D Churchdown (Barrow Hill)	Mrs. J. H. Jones	5	1	0	225	846	33·32	171
D Dowdeswell Reservoir	J. S. Pickering, Esq., C.E.	5	1	3	357	922	36·31	155
Cheltenham (Thirlestane Hall (R))	J. Player, Esq.	8	2	6	240	842	33·17	170
D† Charlton Kings (The Grange) ..	Miss E. M. Heberden.....	5	0	9	300	918	36·15	176
D Cheltenham (Hewletts Reservoir)	J. S. Pickering, Esq., C.E.	8	1	6	419	839	33·02	176
D† „ (Sandford Mead) ...	„ „ „ „	5	2	6	210	838	33·00	168
† „ (Kemerton Lodge)...	Rev. Percy Burd	5	1	0	211	828	32·62	177
† „ (Elmfield)	Major F. Fawkes	5	1	2	220	829	32·64	168
„ (High Street).....	A. C. Saxby, Esq., per M.O.	5	1	0	214	828	32·62	154
D „ (Oxford Lawn)	Miss G. Jones	5	1	4	230	798	31·42	161
D „ (Prestbury)	J. W. Guy, Esq.	5	0	10	258	866	34·11	174
D „ (Brookville, Swindon) ..	J. C. M. Stanton, Esq. ...	8	1	2	137	807	31·78	181
D Tewkesbury Pumping Station ...	J. S. Pickering, Esq.	5	0	9	47	792	31·19	179
Beckford Hall	Capt. A. H. Case per M.O.	...	...	...	130	738	29·06	...
4.—SEVERN—Upper Avon. 99 sq. mi.								
D Winchcombe	Dr. J. Halliwell	5	1	2	295	794	31·27	189
D Childswyckham Vicarage.....	Rev. J. E. Tompson	5	1	9	180	661	26·02	174
D† Chipping Campden (Hidcote) ...	Major W. Wright	5	1	0	525	646	25·45	151
D† Mickleton (Bank House)	M. J. Salter, Esq.	5	1	0	233	644	25·34	167
5.—LOWER AVON & C. 198 sq. mi.								
D Monkswood Reservoir [Bath] ...	J. Dent Young Esq., C.E.	5	2	0	365	971	38·24	194
D Bristol Docks (Underfall Yard) ..	Engineer, Bristol Docks...	8	19	6	45	801	31·53	170
„ (Telephone Avenue)	J. A. McPherson, Esq., C.E.	5	50	0	80	919	36·19	178
Clifton (Oakfield Road).....	„ „ „ „	5	1	0	200	922	36·32	152
D „ (Harley Place)	Miss Hooper	5	1	5	260	982	38·67	200
D „ (Pembroke Road)	Miss A. M. Sturge.....	8	0	10	215	990	38·97	196
D „ College	D. Rintoul, Esq.	8	1	2	230	960	37·78	173
D „ (Stoke Bishop)	H. L. P. Lowe, Esq.	8	1	3	230	958	37·70	175

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
GLOUCESTERSHIRE—(con.)								
5.—LOWER AVON & C—(con.)								
D Stapleton (Milton Cottage)	R. C. Sikes, Esq., C.E.	5	1	0	114	868	34.19	184
D Horfield (Gloucester Road)	F. H. Robbins, Esq.	8	1	6	310	941	37.04	175
Westbury-on-Trym (Cote House)	Mrs. H. St. V. Ames.	8	1	3	243	916	36.08	168
D Filton	F. W. Gayner, Esq.	5	2	0	202	767	30.19	159
D Winterbourne (Kendleshire) ...	J. Marsh, Esq.	5	1	0	170	861	33.88	167
D „ Down (Elm Croft)	Hugh T. Coles, Esq.	5	1	0	250	885	34.84	191
D Frampton Cotterell (Park House) ..	H. H. Harding, Esq.	5	1	0	158	844	33.21	175
D Chipping Sodbury (The Ridge) ..	Lt.-Col. P. Burges.	5	1	4	375	853	33.58	169
Almondsbury (Over Court, Field) ..	R. C. C. Lippincott, Esq. ..	5	1	0	260	797	31.39	...
D „ („ „ Park)	„ „ „	5	1	0	147	841	33.12	186
„ („ „ „ M)	„ „ „	5	1	0	240	826	32.51	...
D „ („ „ Garden)	„ „ „	8	1	0	137	837	32.96	186
Badminton Gardens	Mr. J. Pearce	5	1	0	407	1092	42.98	177
6.—THAMES—Right Bank Tributaries. 15 sq. mi.								
7.—THAMES—Windrush & c. 333 sq. mi.								
D Fairford (Dunfield, Kempsford) ..	A. T. Iles, Esq.	5	0	8	260	876	34.48	188
D „ (The Close)	late W. C. Arkell, Esq.	5	1	9	...	892	35.13	155
D „ (Draycott)	C. W. Edmonds, Esq.	5	2	0	200	939	36.96	161
D Lechlade (St. John's Lock)	R. A. Swarbrick, Esq.	5	2	0	239	714	28.11	165
D „ (Claydon House)	T. T. S. Metcalfe, Esq.	5	1	0	250	844	33.23	181
D „ (Southrop)	Thomas Arkell, Esq. ....	...	1	0	...	820	32.30	...
D† Cirencester (Cripps Mead)	Mrs. Wilfred Cripps	5	0	8	366	968	38.10	179
D† „ (Dollarward House) ..	C. P. Hooker, Esq.	5	1	6	366	1008	39.69	177
D† „ („ „ „)	„ „ „	8	1	6	366	986	38.84	177
D Colesborne Park	H. J. Elwes, Esq.	6	3	0	500	1025	40.36	156
D Great Barrington	H. J. Barrett, Esq.	5	1	6	430	859	33.83	164
D Northleach (Sherborne House) ...	Mr. A. Mitchell	5	1	0	420	934	36.78	155
D „ (The Vicarage)	Rev. R. C. S. Jones	5	0	9	545	913	35.94	171
D „ (Leygore Manor) ...	Arthur E. Moss, Esq.	5	1	0	650	900	35.44	189
D Bourton-on-the-Water (Eastfield) ..	E. W. Kendall, Esq.	5	1	6	434	889	35.00	162
D „ „ „ (Chardwar)	G. F. Moore, Esq.	5	2	6	430	887	34.91	179
D „ „ „ Rectory ...	Rev. W. E. White	5	0	10	433	902	35.52	164
D Wyck Rissington Rectory	Rev. P. H. Kempthorne ...	5	1	0	500	869	34.20	161
D Stow-on-the-Wold (Icomb Place) ..	G. H. Simpson-Hayward Esq. ..	8	1	3	500	903	35.56	153
D „ „ „ (Quar Wood) ...	Mrs. Bryant	5	1	0	690	862	33.93	170
D „ „ „ (Maugersbury) ...	D. W. Horner, Esq.	5	1	0	590	900	35.42	172
D „ „ „ (Duncomb House) ..	R. I. Arkell, Esq.	5	0	9	700	783	30.83	...
HEREFORDSHIRE. (Area, 840 sq. mi.)								
1.—WYE. 685 sq. mi.								
D† Walford-on-Wye Vicarage	late Rev. Kentish Bache ..	5	3	0	112	845	33.27	193
D Weston-under-Penyard	Dr. G. W. Prevost	5	0	6	290	812	31.96	159
D Ross (Chasedale Observatory) ...	F. J. Parsons, Esq.	5	1	0	202	782	30.78	156
D† „ (The Graig)	late H. Southall, Esq. ...	5	1	0	213	812	31.98	163
D Kentchurch Rectory	Rev. R. P. Dansey	5	1	0	215	1032	40.62	181
† Ross (Perrystone Court)	late General E. H. Clive ..	5	1	3	450	710	27.97	148
Brockhampton Court	Capt. A. W. Foster	8	4	0	...	883	34.75	...
D Fownhope (Lower House)	Miss F. Cresswell	5	1	5	200	858	33.79	171

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.		Days with "01 in. or more	
		Diam	Height Above		1915			
			Ground	Sea Level				
		in.	ft.	in.	feet.	mm.	inches	
HEREFORDSHIRE—(con.)								
1.—WYE—(con.)								
Woolhope (The Hyde)	J. A. Thompson, Esq.	5	1	0	440	815	32·08	166
Vowchurch (Whitehouse)	Arthur S. Wood, Esq.	5	5	0	450	999	39·33	181
Bullingham Manor	M. G. Hewins, Esq.	5	1	0	166	833	32·78	165
Hereford (Belmont Priory)	Rev. E. C. Williams, O.S.B.	8	1	0	291	808	31·79	166
" (Breinton Court)	H. A. Wadworth, Esq.	5	3	0	238	764	30·10	164
" (Richmond Place)	W. Cooke, Esq.	8	0	8	184	781	30·75	166
" (Broomy Hill)	W. R. Bufton, Esq.	5	1	0	200	751	29·55	163
" (Broadlands)	Miss Ida M. Lea.	5	1	0	280	755	29·73	164
" (Hinton Court)	A. Battiscombe, Esq.	5	1	0	185	815	32·09	162
" (Holmer Hall)	Rev. Preb. M. Hopton.	8	1	3	241	772	30·38	179
Credenhill (Stretton Sugwas)	S. H. Armitage, Esq.	5	1	0	226	820	32·28	167
"	F. E. Whiting, Esq.	5	1	5	275	862	33·92	170
Yarkhill Vicarage	Rev. A. G. Jones	8	1	0	200	796	31·34	172
Burghill Court	Miss E. D. Woodhouse.	5	1	2	293	777	30·60	175
Ocle Pychard (Ocle Court)	G. Cresswell, Esq.	8	1	2	298	813	32·00	188
Whitney-on-Wye	Mr. W. Burgess.	8	1	0	428	1063	41·84	192
Brilley Vicarage	Rev. W. Head	5	1	0	590	1050	41·35	190
Sarnesfield Rectory	Rev. W. Marshall	5	0	11	400	848	33·38	158
Weobley School	A. J. Dean, Esq.	5	1	0	320	911	35·86	181
Bodenham (Pigeon House)	R. C. Bailey, Esq.	5	1	0	215	803	31·60	163
Pencombe Rectory	Rev. J. Seymour St. John	5	1	0	520	892	35·13	171
Huntington Court	E. Radclyffe Crump, Esq.	5	1	1	833	1179	46·43	217
Pembridge (Dilwyn)	Dr. T. Lambert Hall	5	0	8	290	886	34·89	176
" (Burton Court)	Lieut.-Col. P. L. Clowes	5	1	0	400	919	36·18	167
Bromyard (Dumbleton Cottage)	T. V. Philpott, Esq.	5	1	0	393	902	35·50	165
" (The Royal Oak, Norton)	C. Day, Esq.	5	1	0	630	930	36·62	140
" (Rowden Abbey)	H. J. Bailey, Esq.	5	1	0	450	930	36·63	173
" (Buckenhill)	Mrs. Phipps	8	1	6	410	893	35·17	156
Kington (Lynhales)	late S. Robinson, Esq.	5	1	0	566	996	39·21	163
" (Gravel Hill)	Col. G. F. Pearson.	5	0	8	535	1030	40·54	194
Pembridge (Marston)	H. Langston, Esq.	5	1	5	347	922	36·30	176
" (Byletts)	Gen. Sir E. Wood, K.C.B.	5	1	5	350	851	33·51	173
Kimbolton (Grantsfield)	Miss E. Hutchinson	5	1	0	424	822	32·36	176
Eyton Hall	G. H. Evans, Esq.	5	0	6	300	820	32·28	...
" (The Old Hall)	R. M. Thornely, Esq.	5	1	0	300	773	30·43	150
2.—SEVERN—Right Bank Tributaries. 155 sq. mi.								
Much Marcle (The Mount)	Miss A. M. Charles	5	0	8	240	783	30·82	150
Ledbury (Orchardleigh)	Miles A. Wood, Esq.	5	3	6	180	835	32·89	167
" (Underdown)	S. H. Bickham, Esq.	5	1	0	307	875	34·46	168
" (")	" " " "	5	1	0	306	865	34·07	...
" (Putley Court)	J. Riley, Esq.	5	1	0	290	860	33·87	168
" (Wellington Heath Vic.)	Rev. F. S. Stooke-Vaughan	5	1	2	505	940	37·02	182
Old Colwall	T. W. Binyon, Esq.	5	0	6	450	875	34·44	180
Cradley School	B. G. Abel, Esq.	5	0	9	302	879	34·61	165
Leintwardine	Mrs. Charnock	5	1	6	430	1061	41·77	189

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above Ground. SeaLevel			1915		
		in.	ft.	in.	feet.	mm.	inches.	
SHROPSHIRE. (Area, 1343 sq. mi.)								
1.—MERSEY—Weaver. 27 sq. mi.								
2.—DEE. 30 sq. mi.								
D Whitchurch (Fenns Bank)	M. W. Sowden, Esq., C.E.	8	1	0	271	828	32·58	167
D Sodylt Hall.....	W. H. Horsfall, Esq.	5	1	0	267	869	34·21	152
3.—SEVERN—Right Bank Tributaries. 722 sq. mi.								
D† Ashford House	W. Downes Hall, Esq....	5	0	5	315	960	37·79	229
D† „ (The Weir)	Mrs. Dansey	5	1	0	240	890	35·04	190
D Bromfield (Oakley Park)	Mr. J. R. Francis	5	1	0	300	931	36·66	190
D „ (Warwick House) ...	F. Brayshaw, Esq.....	5	1	0	320	928	36·53	190
D Bitterley Rectory	Rev. Preb. J. R. Burton...	5	1	3	509	915	36·03	213
D Clun (Trinity Hospital)	Rev. H. J. Scott.....	5	1	0	606	1083	42·63	183
D† Wistanstow Rectory ...	Rev. W. M. D. La Touche	5	1	0	480	980	38·59	163
D Lydbury North (The Lodge) ...	Richard Parry, Esq.	5	1	0	662	963	37·92	159
D Munslow Rectory	Miss Joan Powell	5	1	3	475	893	35·17	177
D Bishops Castle (Totterton)	W. H. Whitaker, Esq. ...	5	1	0	750	856	33·72	...
D „ „ (Castle Street) ...	E. Griffiths, Esq.	5	2	0	720	923	36·33	174
D „ „ Vicarage	Rev. C. E. Warner	5	1	6	596	1015	39·95	212
D „ „ (More Rectory) ...	Rev. Ridley Relton	6	0	11	600	959	37·76	186
D Church Stretton (Sewage Works)	E. J. Marsh, Esq.	5	1	0	582	1028	40·49	192
D „ „ (Westover).....	H. Constantine, Esq. ..	5	0	8	660	981	38·61	163
D Bridgnorth (Cantreyn)	W. Bayliss, Esq.	5	3	0	290	797	31·39	162
D „ „ „ „	„ „ „ „	5	0	3	287	839	33·02	162
D „ „ (Aldenham Park) ...	Mr. T. Canning.....	5	3	9	430	768	30·24	146
D Church Preen (Preen Manor) ...	Mr. J. Hopkins	5	1	0	700	994	39·12	165
D Church Stretton (Wolstaston) ...	Mrs. E. D. Carr	5	1	5	800	1005	39·55	175
D Much Wenlock (Willey Park)...	Lord Forester	5	3	0	492	829	32·63	172
D Dorrington (Netley Hall)	Miss Hope-Edwardes.....	5	1	7	351	968	38·10	213
D Minsterley (Wallop)	late Mrs. Severne	8	1	8	700	1119	44·06	182
D† Shrewsbury (Ordnance Surv.Off.)	Col. H. L. Jessop, per M.O.	8	1	0	191	729	28·69	148
D† „ (The Abbey House)	Miss F. H. Rouse Boughton	8	1	3	181	752	29·62	161
D „ „ (Highfield).....	T. M. Howells, Esq.	5	4	6	250	782	30·77	177
4.—SEVERN—Left Bank Tributaries. 564 sq. mi.								
D Bridgnorth (Coton Hall)	Lt.-Col. E. M. Wakeman	5	1	6	460	883	34·75	152
D Worfield (School House)	Frank Turner, Esq.	5	1	0	200	795	31·31	169
D Shifnal (Hatton Grange)	Mr. G. Risebrow	5	4	4	262	766	30·15	188
D „ (National Schools)	F. W. Haswell, Esq.....	5	1	1	279	792	31·18	180
D „ (Haughton Hall)	Capt. W. J. Brooke	5	3	0	320	787	31·00	167
D Wellington (Public Baths)	G. Riley, Esq., C.E.	8	1	9	300	762	30·01	177
D Shrewsbury (Roden)	J. W. Nowell, Esq.	8	1	3	208	744	29·29	151
D „ (Fitz Rectory)	Rev. W. Brewster.....	5	1	2	238	782	30·80	188
D „ „ „ „ Manor).....	Major J. F. Ll. Horner...	5	1	4	253	783	30·83	178
D Newport (Aston Hall)	Col. R. Leeke.....	5	1	4	280	787	30·97	172
D „ (Agricultural College)..	P. Hedworth Foulkes, Esq.	5	1	0	220	730	28·76	170
D „ (Edgmond).....	J. Bodenham, Esq.	8	1	0	261	781	30·76	193
D „								

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with '01 in. or more
		Diam.	Height Above Ground		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
SHROPSHIRE—(con.)								
4.—SEVERN—Left Bank Tributaries—(con.)								
D Ellesmere (The Grange)	Mrs. Ashton	5	0	10	340	831	32·70	153
Norton-in-Hales (School House)	C. Chadwick, Esq.....	5	1	3	350	871	34·28	190
STAFFORDSHIRE. (Area, 1165 sq. mi.)								
1.—MERSEY—Weaver. 50 sq. mi.								
Betley Hall.....	Graham C. Lawson, Esq.	5	0	8	270	775	30·50	187
D Biddulph Grange	Robert Heath, Esq.	5	0	7	325	918	36·15	204
2.—SEVERN—Left Bank Tributaries. 160 sq. mi.								
D Dudley (Shavers End)	H. A. Hill, Esq., C.E.	5	1	0	744	804	31·64	174
D Wombourne (The Bratch)	Baldwin Latham, Esq. C.E.	5	0	9	271	796	31·33	173
† Wolverhampton (Town Hall) ...	G. Green, Esq., C.E.....	5	15	6	481	754	29·68	165
† " (West Park) ...	" " " "	5	1	4	432	794	31·28	159
D Patshull Park.....	The Earl of Dartmouth...	8	1	3	273	757	29·82	151
D Weston Park [Shifnal].....	Julius White, Esq.	5	1	6	400	727	28·62	180
D Norbury Junction	G. R. Jebb, Esq., C.E....	8	1	0	332	795	31·31	173
Loynton Hall.....	Col. S. T. H. Burne	5	0	10	390	815	32·08	144
D Market Drayton (Old Springs)...	F. E. Harding, Esq.	5	1	0	423	822	32·37	185
Maer Hall Gardens	Mrs. F. J. Harrison	8	1	6	390	896	35·28	154
3.—TRENT—Right Bank Tributaries. 512 sq. mi.								
D West Bromwich	(R) D. Ellison, Esq., C.E.	8	1	7	546	703	27·66	158
D Wednesbury (Ocker Hill).....	A. W. Willet, Esq., C.E.	5	0	8	474	746	29·38	163
D Walsall (Brockhurst Sew. Farm)	J. Taylor, Esq.	8	0	11	376	784	30·87	167
D " (Wednesbury Sewage Wks.)	T. Wicks, Esq.	5	2	8	381	721	28·39	170
D Bilston (The Lunt Outfall)	Vincent Turner, Esq., C.E.	8	1	0	422	762	30·02	159
† Wolverhampton (Graiseley)	E. E. W. Berrington, Esq.	6	0	9	506	797	31·38	163
D " (Wrottesley) ...	Mr. E. Simpson	8	1	0	500	767	30·20	154
D Bloxwich (Sneyd Reservoir)	A. W. Willet, Esq., C.E.	5	1	0	507	728	28·66	167
D Hammerwich (Cannock Chase Res)	" " " "	5	1	0	475	748	29·43	188
D Brewood (Belvide Reservoir) ...	G. R. Jebb, Esq., C.E....	5	1	0	367	710	27·95	162
D Lichfield (St. John Street)	Dr. F. M. Rowland	5	0	10	269	757	29·79	183
" (Maple Hayes)	A. O. Worthington, Esq.	5	0	11	380	683	26·90	...
D Penkridge (Rodbaston).....	G. E. Ward, Esq.	5	0	9	324	760	29·92	169
D Hednesford (Scout House)	H. A. Hill, Esq., C.E....	5	1	0	750	671	26·41	169
D Rugeley (Beau Desert)	Marquis of Anglesey	8	1	0	680	782	30·78	202
D Milford Waterworks.....	W. Plant, Esq., C.E.....	5	1	0	246	693	27·30	156
Shugborough	The Earl of Lichfield.....	5	1	0	260	748	29·44	196
D Stafford (Rising Brook).....	W. Fred. Wright, Esq....	5	1	0	273	728	28·68	180
D " (Corporation Dépôt) ...	W. Plant, Esq., C.E.....	5	1	6	249	756	29·77	168
D Little Ingestre	Major Cecil Gardner.....	8	1	6	...	705	27·77	181
Ingestre Park (Birch Hall) ...	M H. H. Goddard, Esq.....	5	1	8	320	639	25·15	...
D Eccleshall (Walton Hall)	Sir H. A. Wiggin, Bart....	5	1	0	344	800	31·51	177
" " " " Weekly g.	" " " "	5	1	3	362	796	31·33	...
D " (Johnson Hall)	W. Moat, Esq.	5	1	1	400	787	30·97	188
D Stone (Meece House).....	E. J. W. Wood, Esq.	5	1	6	331	813	32·00	168
D Standon (Hatton W.W.)	R. C. Frain, Esq., C.E....	5	1	8	355	831	32·70	181
4.—TRENT—Left Bank Tributaries. 193 sq. mi.								
D Burton (Hoar Cross)	F. W. Lycett, Esq.	8	1	0	400	743	29·25	170
" (Rangemore)	Mr. H. Barson	5	5	6	424	645	25·39	...

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
STAFFORDSHIRE—(con.)								
4.—TRENT—Left Bank Tributaries—(con.)								
Burton (Shobnall)	Messrs. Bass & Co., Ltd.	5	5	6	156	728	28.66	154
Longton (The Meir)	R. C. Frain, Esq., C.E....	5	1	0	618	782	30.77	172
„ High School	H. O. Smith, Esq.	5	0	8	500	835	32.86	177
5.—TRENT—Dove. 250 sq. mi.								
Uttoxeter (Greenfields)	W. Ellaway Smith, Esq....	5	1	0	387	778	30.65	172
Tean (Oak Hill)	Vincent H. Jackson, Esq. ...	...	...	...	600	818	32.20	...
„ (The Heath House)	Lt.-Col. B. H. Philips ...	5	0	6	647	852	33.55	166
Oakamoor (Woodbank)	M. A. Bolton, Esq.	5	1	6	550	873	34.37	185
Mayfield House [Ashbourne] ...	Graham C. Lawson, Esq....	8	1	0	374	879	34.59	172
„ (Doveside)	Mr. T. Bridge	8	1	0	421	868	34.19	168
Ipstones (Sharplecliffe Hall)	A. S. Boucher, Esq.	5	0	4	925	951	37.44	...
Leek (Wall Grange)	R. C. Frain, Esq., C.E....	5	1	0	458	956	37.62	171
„ (Hillesdon)	J. Wilson, Esq.	5	1	0	750	1096	43.15	201
„ (Haregate)	Mr. G. Sweetmore	5	0	9	680	1056	41.59	188
WORCESTERSHIRE. (Area, 717 sq. mi.)								
1.—SEVERN—Right Bank Tributaries. 231 sq. mi.								
Redmarley (Haselden)	Miss F. L. Newbury	5	0	5	280	784	30.87	162
Upton-on-Severn (Willow Bank) ...	J. Selwyn Cowley, Esq....	5	1	3	42	832	32.77	168
„ „ „ (The Eades) ...	Major E. W. Tennant....	5	0	9	100	855	33.66	191
Hill Croome (Glebe House)	Henry Arkell, Esq.	5	1	0	46	837	32.97	177
Malvern (British Camp Res.) ...	W. Osborne Thorp, Esq. C.E.	5	0	11	677	892	35.12	165
„ (Church Street)	„ „ „	5	1	0	350	912	35.91	162
„ (Belle Vue House)	A. Mander, Esq.	5	4	0	520	934	36.77	162
„ (High School)	E. W. Harris, Esq.	5	1	0	377	887	34.91	166
„ (Clarence Road)	S. Bottomley, Esq.	5	1	0	300	888	34.96	171
„ (Hornyard Road)	Rev. T. Wolseley Lewis...	5	1	0	492	899	35.41	172
„ (Madresfield Court) ...	Mr. W. Crump	8	2	6	125	875	34.45	162
Knightwick Sanatorium	H. Gordon Smith, Esq....	5	1	0	300	844	33.24	145
Worcester (Diglis Lock)	E. J. Bradley, Esq.	5	1	0	49	853	33.59	188
„ (Bromwich House) ...	Rev. Manley Power	5	1	3	200	848	33.39	163
Martley Rectory	Rev. J. F. Hastings	5	1	0	220	890	35.05	165
Ombersley (Holt Lock)	E. J. Bradley, Esq.	5	1	1	55	775	30.50	139
Clifton-on-Teme	Mrs. H. Tayleur	5	0	10	640	849	33.44	...
Shelsley Grange	Lady Hughes	5	1	0	270	861	33.88	138
Tenbury (St. Michael's)	Miss Hewitt	5	0	8	329	865	34.04	164
„ „ „ (Roseland Cott.) ...	Frederick Lowe, Esq....	5	1	0	313	890	35.05	176
„ „ „ (Rochford Rectory) ...	Rev. J. Tomson	5	1	0	317	858	33.76	157
Stockton-on-Teme (Eardiston)...	Miss M. Wallace	5	0	8	200	884	34.80	156
Bewdley (Winterdyne)	Miss K. M. Sturt	5	1	0	100	804	31.67	162
2.—SEVERN—Left Bank Tributaries. 194 sq. mi.								
Kempsey (The Lodge) ...	Mrs. Isaac	5	0	9	80	812	31.95	170
Worcester (Belmont Road)	G. B. Wetherall, Esq....	5	2	0	180	777	30.58	164
„ „ „ (Water Works)	T. Caink, Esq., C.E.	5	0	9	56	803	31.60	169
„ „ „ (Barbourne)	B. Brotherton, Esq.	5	1	0	92	795	31.31	166
„ „ „ (Bevere Lock)	E. J. Bradley, Esq.	5	1	1	52	813	32.00	159
„ „ „ (Hawford Lodge)	F. Ames, Esq.	5	1	1	70	889	34.99	...
Droitwich (Friar Street Dépôt)...	H. Hulse, Esq., C.E....	12	2	9	98	802	31.57	175

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0·1 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
WORCESTERSHIRE—(con.)								
2.—SEVERN—Left Bank Tributaries—(con.)								
D Bromsgrove (Tardebigge Res.)	F. A. Jones, Esq. C.E.	5	4	6	455	868	34·17	163
D „ (Burcot)	W. J. Skinner, Esq.	8	1	4	440	954	37·58	188
D Barnt Green (Blackwell)	W. H. Wynn, Esq.	8	2	10	625	731	28·79	161
D „ (Upwood)	Miss M. Gibbins	5	0	9	650	806	31·75	160
D Stourport (Lincombe Lock)	E. J. Bradley, Esq.	5	1	0	62	821	32·33	138
D† Kidderminster (Brinton Park)	Mr. J. T. Cowderoy	5	1	0	160	755	29·72	166
Pedmore (The Dene)	T. Grazebrook, Esq.	5	0	6	340	784	30·88	173
D Stourbridge	W. Fiddian, Esq.	8	0	11	210	823	32·41	168
D Netherton (Lodge Farm Res.)	A. W. Willet, Esq., C.E.	5	1	0	445	740	29·14	161
Dudley (Borough Cemetery)	J. Gammage, Esq., C.E.	5	1	3	591	787	30·99	167
„ (Trindle House)	S. Staffs Drainage Comm.	8	1	0	575	863	33·96	161
3.—SEVERN—Upper Avon. 260 sq. mi.								
D Blockley (Upton Wold)	E. W. Arkell, Esq.	5	1	0	800	815	32·10	174
D† Evesham (Bengeworth)	Messrs. Ross Bros., Ltd.	5	1	0	128	680	26·78	164
D† „ (Lansdowne)	R. Burlingham, Esq.	5	5	0	108	693	27·30	169
† „ (Sewage Works)	H. S. Harvey, Esq.	8	3	0	86	644	25·36	159
D „ (Great Hampton)	H. C. Boutflower	5	1	0	150	636	25·06	162
D „ (Abbey Gate)	A. Fowler, Esq.	5	1	6	110	628	24·71	161
D Shipston (Armscote)	W. L. Stanton, Esq.	5	1	1	241	668	26·29	172
D „ (Talton)	Capt. G. Lainson Field	8	1	0	160	608	23·93	154
† „ (Cookhill Co. School)	T. Barber, Esq.	5	1	0	400	776	30·54	157
D Redditch (Hewell Gardens)	Mr. J. J. Graham	5	1	0	469	870	34·24	169
D Alvechurch (Bordesley Hall)	A. H. Wiggin, Esq.	...	4	0	490	861	33·88	164
D „ (High Croft)	D. B. Grubb, Esq.	5	1	0	580	859	33·81	176
D „ (Fairfield)	D. McMichael, Esq.	8	1	0	400	858	33·77	156
D Bromsgrove (Lower Bittal Res.)	F. A. Jones, Esq., C.E.	5	3	0	457	845	33·28	152
4.—THAMES—Windrush & c. 10 sq. mi.								
5.—TRENT—Right Bank Tributaries. 22 sq. mi.								
D Halesowen (Frankley)	E. Antony Lees, Esq.	5	0	10	570	892	35·12	170
WARWICKSHIRE. (Area, 942 sq. mi.)								
1.—SEVERN—Upper Avon. 603 sq. mi.								
Long Compton (Weston Park)	H. A. Warriner, Esq.	8	3	0	510	673	26·51	155
Shipston (Honington Vicarage)	Rev. E. H. Boddington	5	0	10	215	631	24·85	153
D Bidford (Moor Hall)	E. H. Cubberley, Esq.	5	1	0	125	667	26·26	168
D Wormleighton Hall	F. W. Burnett, Esq.	5	4	9	515	705	27·76	165
† Stratford-on-Avon (Avonfield)	G. W. Everard, Esq.	5	0	10	120	706	27·79	164
D† „ „ „ (K. Ed. VI. Sch.)	E. T. Hirons	5	1	0	132	680	26·76	156
D „ „ „ (High Street)	F. J. Spencer, Esq.	8	1	2	134	731	28·78	157
D† „ „ „ (Shottery Hall)	R. C. Carter, Esq.	5	0	8	140	726	28·60	149
Alcester (Ragley Hall)	Mr. C. Harding	5	1	0	270	708	27·89	...
D Wellesbourne School	A. A. Dencer, Esq.	5	1	0	185	683	26·89	189
Ashorne	Mr. G. T. Osborn	5	1	0	160	659	25·93	...
„ „ „ weekly gauge	„ „ „	5	1	3	160	654	25·73	...
Snitterfield	J. F. Burke, Esq.	8	1	6	274	791	31·14	...
D Studley College	Miss E. H. Ekins	5	0	9	235	809	31·84	175
D Warwick (Castle Gardens)	Mr. H. F. Smale	8	1	2	197	694	27·34	152
D Leamington (Pump Room Gardens)	A. M. Harrison, Esq.	8	1	0	166	689	27·14	175
D „ „ „	Rev. A. Corbet	5	0	9	...	695	27·37	164

DIVISION VI.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground. Sea Level			1915		
		in.	ft.	in.	feet.	mm	inches.	
WARWICKSHIRE—(con.)								
1.—SEVERN—Upper Avon—(con.)								
D Leamington (West Hill, Cubbington)	Mrs. Robins	5	1	0	282	624	24.57	144
D Hatton House	(R) Mrs. J. P. Arkwright	10	5	0	380	740	29.12	172
Willoughby Vicarage	Rev. H. Trethewy	5	1	0	300	703	27.69	158
Lapworth (Ardenhill)	(R) A. R. Walker, Esq.	8	4	8	420	694	27.32	142
„ Croft	T. Birkett Barker, Esq. ..	5	2	0	410	862	33.94	171
„	E. P. Currall, Esq., C.E.	5	1	0	450	774	30.49	...
Tanworth-in-Arden	F. Davies, Esq.	6	4	0	508	854	33.64	...
D Rugby (Bilton Grange)	W. H. G. Southcomb, Esq.	5	1	0	400	643	25.31	154
D „ (Temple Observatory) ..	B. B. Dickinson, Esq. ...	5	1	1	383	664	26.15	160
D Stretton-on-Dunsmore	Mrs. Lister-Kaye	5	0	9	245	734	28.90	151
D Ryton-on-Dunsmore (Ryton Ho.)	Charles Browett, Esq.	5	1	2	260	746	29.37	146
D Kings Newnham	J. Brierly, Esq.	5	1	0	300	649	25.54	150
D Solihull Cemetery	E. P. Currall, Esq., C.E.	5	1	0	502	830	32.68	163
D Coventry (City Hospital)	E. H. Snell, Esq., M.D. ...	8	1	0	269	735	28.95	173
D „ (St. Paul's Road)	J. B. Morris, Esq.	5	1	0	341	750	29.53	179
D „ (Kingswood)	R. B. Caldicott, Esq.	5	1	0	340	722	28.42	166
D Foleshill (Foxford School)	A. F. Smith, Esq.	5	10	9	311	751	29.56	157
D Coventry (Keresley Grange) ..	Miss H. Rotherham	5	0	10	413	800	31.49	198
D Bedworth Cemetery	Mr. G. O. Bosworth	5	1	0	385	726	28.58	140
2.—THAMES—Windrush & c. 2 sq. mi.								
3.—THAMES—Cherwell. 15 sq. mi.								
D Farnborough	Miss C. A. Prater	5	1	0	515	808	31.83	183
4.—TRENT—Right Bank Tributaries. 322 sq. mi.								
D Hockley Heath (Packwood)	E. S. Fry, Esq.	5	1	2	400	811	31.94	151
D Hampton-in-Arden (Estcote) ...	E. P. Currall, Esq., C.E. ...	5	1	0	340	764	30.07	168
D Solihull (Marsh Cottage)	„ „ „ „ „ „ „ „ „ „	5	1	0	420	795	31.31	150
D Northfield (West Heath House)	Prof. A. J. Brown, F.R.S.	5	1	0	590	830	32.69	178
D Hampton-in-Arden (Hampton Manor)	Mr. W. R. Cooper	8	0	7	345	871	34.28	184
D Selly Oak (Bournville)	Messrs. Cadbury Bros., Ltd.	5	1	0	434	877	34.52	170
„ „ (Lodge Hill Cemetery)	Mr. W. Garden	5	1	4	540	847	33.36	145
D „ „ (South Hill)	W. Littleboy, Esq.	5	0	9	450	799	31.44	166
Moseley (Prospect Road)	Rev. F. Oscar Lane	5	1	0	550	789	31.07	163
D „ (Highfield Road)	J. Newland Brown, Esq. ...	8	1	9	550	815	32.09	178
D „ (Chantry Road)	G. F. Lyndon, Esq.	5	1	0	472	814	32.03	172
D Birmingham (Sparkhill)	D. H. Owen, Esq.	5	1	0	426	800	31.49	185
D „ (Edgbaston)	A. Cresswell, Esq.	8	1	0	515	748	29.47	166
D „ „ (Highfield Rd.)	R. Priestman, Esq.	5	0	2	450	808	31.82	149
D „ (Hagley Road)	H. E. Stilgoe, Esq., C.E. ...	5	0	9	612	833	32.78	166
„ „ (The Crescent)	M. J. J. Gilbert, Esq.	5	7	0	480	808	31.83	...
D „ (Sewage Works, Saltley) ..	J. D. Watson, Esq., C.E. ...	5	1	5	293	652	25.68	163
D „ (Gravelly Hill)	W. L. Mold, Esq.	5	3	0	470	769	30.27	154
D „ (Erdington)	E. Antony Lees, Esq.	5	1	3	472	689	27.14	164
D Minworth	J. D. Watson, Esq., C.E. ...	8	0	6	286	729	28.71	168
D Nuneaton (Chilvers Coton Vic.) ..	Rev. M. A. Dodds	5	0	10	283	735	28.95	142
D Whitacre (Birmingham W.W.) ..	E. Antony Lees, Esq.	5	1	5	269	725	28.55	176
D Sutton Coldfield (The Park)	Mr. H. Harland	5	1	0	371	742	29.22	160

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.		Days with 0·1 in. or more.	
		Diam. in.	Height Above Ground SeaLevel		1915			
			ft.	in.	feet.	mm.	inches.	
LEICESTERSHIRE. (Area, 824 sq. mi.)								
1.— SEVERN —Upper Avon. 41 sq. mi.								
Bitteswell School Gardens	M. Smith, Esq.	5	0	9	401	755	29·74	181
2.— WELLAND. 96 sq. mi.								
Market Harborough (Rose Hill).....	G. O. Nicholson, Esq.....	5	1	0	350	669	26·33	161
East Langton Grange	J. W. Logan, Esq., M.P.	5	1	0	300	689	27·12	...
Kibworth Beauchamp	E. V. Phillips, Esq.	9	2	6	390	718	28·28	161
Hallaton Hall.....	S. N. Bankart, Esq.	8	1	3	366	686	27·01	...
Horninghold House <i>Snowdong</i> , M.....	Mr. B. Inchley	5	1	6	380	647	25·47	...
" " <i>Floot g.</i> M.....	" " "	6	2	0	380	584	23·00	...
Withcote Hall Gardens.....	Mr. W. Rouse	5	0	9	500	819	32·24	...
3.— WITHAM. 7 sq. mi.								
4.— TRENT —Right Bank Tributaries. 680 sq. mi.								
Wistow Hall Gardens	Hon. T. F. Fremantle.....	5	1	0	307	748	29·44	143
Countesthorpe(WigstonSew.Fm.).....	W. G. J. Clark, Esq., C.E.	8	0	9	257	758	29·86	172
Blaby (Whetstone Road)...No. 1.....	G. F. Shoults, Esq.	5	0	6	239	792	31·17	174
" (" ")...No. 2.....	A. F. Shoults, Esq.	5	0	6	239	782	30·77	172
Leicester (Stoneygate Road) ...	T. Spencer Smithson, Esq.	5	0	6	258	739	29·10	165
" (Springfield Road).....	His Honour Judge Cann	5	1	6	300	786	30·96	184
" (De Montfort Street)....	Dr. Bernard Stracey ...	5	1	0	240	767	30·21	161
" (Town Hall Square)....	E. G. Mawbey, Esq., C.E.	5	0	6	211	749	29·47	156
" (" " ")(R).....	" " "	7	2	0	213	748	29·43	155
Market Bosworth (Osbaston Hall).....	Thomas Cope, Esq.	8	1	0	393	789	31·08	217
Desford (Industrial School)	C. Oxley, Esq.	5	1	0	370	911	35·85	...
Scraptoft (Nether Hall)	W. R. Kendall, Esq.	5	2	0	350	748	29·43	...
Humberstone Asylum	S. C. Leak, Esq.....	8	1	0	266	802	31·59	170
Leicester (Gilroes Cemetery) ...	E. G. Mawbey, Esq., C.E.	5	1	0	285	734	28·89	175
" (Anstey Pastures).....	W. P. Viccars, Esq.	5	1	1	280	733	28·87	...
Thornton Reservoir	G. T. Edwards, Esq., C.E.	8	1	2	371	840	33·06	169
Cropstone (Bradgate Reservoir)..	" " "	8	1	0	246	878	34·58	172
Barkby Hall	Victor R. Pochin, Esq.....	5	0	6	217	802	31·59	161
Syston	S. K. Daniels, Esq.	5	1	6	180	777	30·58	158
Swithland (The Brand)	G. T. Edwards, Esq., C.E.	8	1	0	172	771	30·37	169
Ratcliffe-on-Wreake College ...	Rev. J. Cremonini	5	1	0	288	786	30·96	175
Ashby-de-la-Zouch(ColeOrtonHall).....	Mr. H. T. Wilson.....	5	2	0	540	853	33·60	173
Barrow-upon-Soar.....	G. Fellows, Esq.	220	722	28·42	166
" " " (The Mount). ..	Mrs. C. Stuart Thomson... ..	5	1	6	...	756	29·75	157
Melton Mowbray	Gerald Walsh, Esq.	5	0	11	345	686	26·99	176
Charnwood Forest (Blackbrook Res.).....	A. H. Walker, Esq., C.E.	8	1	0	367	808	31·83	167
Loughborough (Nan PantanRes.).....	" " "	8	1	0	269	809	31·86	166
" (Burleigh Road).....	T. Sidney Nash, Esq. ...	5	0	7	120	810	31·87	...
" (The Widening).....	Adrian Young, Esq.	5	0	7	197	743	29·25	165
" (Sewage Farm)....	A. H. Walker, Esq , C.E.	8	1	0	134	792	31·16	165
Burton-on-the-Wolds (BurtonHall).....	Lord Ernest St. Maur.....	5	1	0	270	724	28·50	169
Prestwold Hall	E. H. Packe, Esq.	8	1	0	209	737	29·02	168
Waltham-on-the-Wolds	G. Higgins, Esq.	5	1	0	568	795	31·32	160
Croxton Kerrial	C. J. Prowse, Esq.	5	1	0	480	806	31·75	201
Belvoir Castle Gardens	W. H. Divers, Esq.	8	1	0	260	742	29·21	

DIVISION VII.—NORTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ≥ 0.1 in. or more
		Diam.	Height Above		Ground. SeaLevel	1915		
		in.	ft.	in.	feet.	mm.	inches.	
RUTLAND. (Area, 152 sq. mi.)								
1.—WELLAND. 125 sq. mi.								
Liddington (Uppingham W.W.)	Messrs. G. & F.W.Hodson	5	1	0	152	601	23.67	...
Uppingham (Ridlington)	N. W. Wortley, Esq.....	5	4	7	527	737	29.01	179
Wing (The Cottage)	J. P. W. Lightfoot, Esq...	5	1	1	370	700	27.58	151
Oakham (Fritham House).....	Mrs. Chapman	5	1	0	300	794	31.27	153
Great Casterton Rectory	Rev. J. Scott Ramsay.....	8	1	0	126	668	26.29	147
„ „ (Walk Farm) ...	H. Goodyear, Esq.....	5	1	8	330	661	26.02	...
2.—WITHAM. 5 sq. mi.								
3.—TRENT—Right Bank Tributaries. 22 sq. mi.								
Market Overton	late Miss Grace Wingfield	8	0	11	475	821	32.31	188
LINCOLNSHIRE. (Area, 2646 sq. mi.)								
1.—NENE. 100 sq. mi.								
Tydd (North Level Sluice)	Mr. S. Fovargne.....	5	3	6	10	665	26.17	148
2.—WELLAND. 341 sq. mi.								
Stamford (St. George's Square) ..	T. Booth, Esq.	5	4	0	88	632	24.88	142
Crowland (Bank House)	W. J. Hardy, Esq.....	5	6	0	10	599	23.60	...
Market Deeping (Wilsthorpe) ...	late J. C. Gill, Esq., C.E.	8	3	10	55	605	23.83	152
Holywell Hall	Col. C. Birch Reynardson	5	0	6	190	755	29.73	168
Bourne (Council School)	J. Langsford, Esq.	5	1	0	23	769	30.27	139
„ „ (Guthram)	F. S. Robins, Esq., C.E....	8	1	6	19	616	24.27	138
Spalding (Pode Hole)	H. Bain, Esq.....	8	1	3	13	654	25.74	164
3.—WITHAM & C. 1085 sq. mi.								
Stainby Rectory	Rev.W. L. de B.Thorold...	4	0	9	496	675	26.59	137
Stroxton Rectory	Rev. S. C. Wood	5	0	10	350	704	27.71	...
Little Ponton Rectory	Rev. P. R. Worsley	5	1	0	250	815	32.08	182
Denton Manor	Sir C.G.E.Welby,Bt.,C.B.	5	3	0	310	712	28.03	180
Grantham (Saltersford).....	H. Preston, Esq.	5	0	6	188	699	27.52	153
„ „ (Guildhall)	W. Wright, Esq., C.E....	5	13	6	202	619	24.37	143
„ „ (High Street)	Messrs. R. & W. Bird.....	5	1	0	202	670	26.36	137
Boston (Black Sluice, Skirbeck) ..	F. S. Robins, Esq., C.E....	8	1	3	11	684	26.92	192
„ „ (Sleaford Road)	J. Shaw, Esq.	5	1	2	9	713	28.08	168
„ „	G. E. Clarke, Esq., C.E....	8	1	0	13	679	26.75	176
„ „ (Grand Sluice)	J. H. Johnson, Esq., C.E. ...	8	8	0	18	661	26.03	162
„ „ (Bargate End)	A. O. Scrivener, Esq.....	8	1	0	9	649	25.56	168
Carlton Scroop	Capt. J. H. D. Rennie .....	...	...	...	175	703	27.69	...
Sleaford(KestevenCountyAsylum.)	Dr. J. A. Ewan	5	0	9	100	644	25.35	169
„ „ (Rauceby Hall)	Rev. Vere F. Willson	5	1	0	125	699	27.52	170
Claypole Rectory	Rev. F. R. A. Hamilton...	8	2	0	70	640	25.18	170
Fulbeck Hall ..	Col.W.V.R.Fane,perM.O.	5	0	8	180	705	27.78	213
Welbourn	Miss M. Burtt	5	3	0	120	735	28.95	161
Temple Bruer.....	Miss A. S. Morley	5	1	0	300	714	28.11	197
New Leake (Lade Bank Engines)	J. H. Johnson, Esq., C.E.	8	1	0	10	645	25.38	...
Carrington Grange	Mr. T. J. Ward	5	6	0	15	645	25.38	153
Navenby Rectory	Mr. J. Thompson ..	5	1	0	218	729	28.70	161
Carlton-le-Moorland	J. Brocklebank, Esq.....	5	1	2	49	684	26.94	157
Mareham-le-Fen	Lincoln Mercury	5	3	0	11	690	27.15	...
Revesby	J. Shaw, Esq.....	5	2	0	124	700	27.56	141
Woodhall Spa (Petwood)	Mr. T. Williams.....	5	11	0	50	667	26.26	153

DIVISION VII.—NORTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
LINCOLNSHIRE—(con.)								
3.—WITHAM & C—(con.)								
D Woodhall Spa (Galm House) ...	J. Collins, Esq.	5	1	6	72	675	26·59	183
D Spilsby (Hagnaby Priory)	Miss Pocklington	8	1	8	47	805	31·68	185
D Bardney Railway Station	A. Burridge, Esq.	8	7	6	25	574	22·59	160
D Bucknall	Mr. Joshua Bint	5	1	0	33	623	24·54	187
D Horncastle	H. R. Maynard, Esq.	5	1	6	110	688	27·07	183
Lincoln (Boultham Pumping Sta.)	C. Horobin, Esq., C.E.	5	1	0	19	642	25·28	...
„ (Skellingthorpe Hall) ...	A. H. B. Coupland, Esq.	5	1	0	40	718	28·26	153
„ (Station)	Great Central Rly. Co. *	9	3	6	26	629	24·77	...
„ (Sessions House)	M. Herring, Esq.	5	1	0	59	651	25·62	151
„ (D'Isney Place)	A. H. Leslie Melville, Esq.	4	1	0	215	686	27·00	176
D „ (Cottesford Place)	F. A. Peacock, Esq.	5	0	9	220	706	27·81	168
D „ (Monks Tower)	Miss Allanby	5	1	6	100	656	25·82	152
Scampton House	Mrs. G. E. Sandars	5	1	11	80	618	24·34	...
D Hackthorn Hall	E. W. Cracroft, Esq.	5	4	6	105	639	25·17	171
Willingham-by-Stow	R. C. Bacon, Esq.	8	2	0	70	679	26·74	177
Springthorpe Rectory	Rev. B. Davies	5	1	0	75	696	27·38	154
4.—GREAT EAU & C. 443 sq. mi.								
D Wainfleet (Bridge House) ...	G. Booth Walker, Esq.	5	1	0	17	730	28·75	187
D Skegness (Estate Offices)	R. H. Jenkins, Esq.	8	1	0	13	685	26·97	170
D East Keal Rectory	Rev. R. H. Simpson	5	0	7	180	677	26·67	177
D Halton Holgate	G. Rattenbury, Esq.	5	1	0	89	785	30·90	189
D Spilsby	Dr. L. Thompson Dean ...	5	1	0	150	778	30·65	168
D „ (Ashby Road)	J. Jarvis Rainey	5	1	0	160	739	29·09	166
D Hagworthingham	Mr. R. Wright	5	1	1	252	838	33·00	171
D Harrington Hall	Mr. E. Burgess	5	0	4	163	782	30·78	143
D Mablethorpe (Trusthorpe Hall) ..	I. N. Woodiwiss, Esq.	8	1	3	10	782	30·80	190
D Louth (Westgate)	Dr. F. Fawcett	5	0	9	120	736	28·97	179
D Kirmond	C. Fieldsend, Esq.	5	1	2	309	810	31·91	196
5.—HUMBER—Right Bank Tributaries. 428 sq. mi.								
Market Rasen	F. C. Burrell, Esq.	5	0	8	84	633	24·93	...
„ „	Great Central Rly. Co.	9	3	6	100	599	23·60	152
Brigg Station	„ „ „	9	3	6	16	611	24·04	170
„ (Grammar School)	H. E. Bryant, Esq.	5	1	0	32	615	24·21	...
D „	A. Atkinson, Esq., C.E.	8	1	2	11	671	26·41	188
D Grimsby (Abbey Road)	W. J. Wood, Esq., C.E.	5	3	0	23	717	28·22	157
„	Great Central Rly. Co.	9	15	0	42	578	22·76	...
Barnetby	„ „ „	9	3	6	51	616	24·26	135
D Brocklesby Park	Mr. F. C. Stainsby	5	2	0	108	776	30·54	185
D Burton-upon-Stather (Normanby)	A. G. Wilkes, Esq.	5	0	10	185	661	26·04	161
D Thornton Curtis Vicarage	Rev. C. B. Goodacre	8	1	4	66	678	26·71	172
D „ „ School	J. A. Warburton, Esq.	5	4	0	70	721	28·40	164
D Horkstow	E. J. Turton, Esq.	5	0	10	75	668	26·30	147
Ferriby Sluice	A. Atkinson, Esq., C.E.	5	1	0	18	725	28·53	170
New Holland	Great Central Rly. Co.	9	3	6	18	664	26·14	154
6.—TRENT—Right Bank Tributaries. 172 sq. mi.								
Woolsthorpe	A. Brown, Esq., C.E. ....	...	1	3	182	687	27·05	143
D Swinderby (Ling Moor)	Cecil H. Wray, Esq.	5	0	9	50	771	30·34	147
D Lincoln (Doddington Hall)	A. L. Jarvis, Esq.	8	1	2	92	720	28·33	165

* Kept for the Canal Department of the Great Central Railway Company. Returns supplied by T. Chappell, Esq.

DIVISION VII.—NORTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground. SeaLevel			1915		
		in.	ft.	in.	feet.	mm.	inches.	
LINCOLNSHIRE—(con.)								
6.—TRENT—Right Bank Tributaries—(con.)	J. D. Sandars, Esq.	5	2	0	97	608	23.94	...
Gate Burton Hall	Great Central Rly. Co.....	9	...		76	600	23.64	144
Gainsborough	Rev. Canon F. A. Jarvis..	5	1	6	212	649	25.56	171
D Burton-upon-Stather Vicarage...	s. 77 sq. mi.							
7.—TRENT—Left Bank Tributaries	Mr. F. S. Trafford.....	10	5	0	13	540	21.27	...
Wroot (S.Level PumpingStation)	Rev. Allan Ellison.....	5	1	0	0	636	25.05	176
D Althorpe Rectory	Mr. H. G. Trafford.....	5	2	6	10	597	23.50	...
Crowle(N.Level PumpingStation)	Great Central Rly. Co....	9	3	6	17	614	24.18	164
„ (Keadby)								
NOTTINGHAMSHIRE. (Area, 843 sq. mi.)								
1.—WITHAM. 10 sq. mi.								
2.—TRENT—Right Bank Tributaries. 218 sq. mi.	Mr. W. H. Cooke	5	1	0	130	760	29.91	175
D Kingston Hall	P.W.Bailey, Esq., per M.O.	5	1	0	125	650	25.59	158
„ (Midland Agric.College)	T. A. Hill, Esq.	8	1	0	170	719	28.29	186
D Plumtree(Normanton-on-Wolds)	F. W. Davies, Esq.	8	0	11	296	666	26.23	161
Nottingham (Wilford Hill Res.)	H. Smith, Esq., jun.....	5	1	1	160	690	27.16	...
Cropwell Bishop (CropwellGrove)	Mr. W. York	5	0	8	63	655	25.80	153
D Newark Castle Gardens.....	The Misses Turton.....	5	1	0	38	690	27.16	177
D North Collingham (MarkhamHo.)								
3.—TRENT—Derwent. 2 sq. mi.								
4.—TRENT—Erewash. 42 sq. mi.								
D Beeston (West End)	Dr. F. Rothera	5	1	0	104	807	31.76	178
D Nottingham (Strelley)	T. L. K. Edge, Esq.	8	1	0	396	740	29.12	172
D „ („ Hall)	„ „ „	5	1	0	378	734	28.89	158
„ („ „)	„ „ „	5	1	0	379	748	29.47	...
Bulwell (Watnall Reservoir) ...	F. W. Davies, Esq.....	8	0	11	472	813	32.01	187
D Eastwood Colliery	Mssrs.Barber, Walker&Co	5	1	0	245	805	31.68	194
D „ (Moorgreen Reservoir)...	Great Northern Ry. Co....	5	6	0	301	716	28.21	182
Annesley (Selston W.W.).....	S. Maylan, Esq.....	5	1	0	475	676	26.60	...
5.—TRENT—Left Bank Tributaries. 569 sq. mi.	M. A. Hingston, Esq. ...	5	0	7	188	726	28.57	...
Nottingham (Lenton Hall)	A. Brown, Esq., C.E.....	8	0	10	85	680	26.78	156
„ (Trent Lane) ... (R)	„ „ „	8	1	2	192	677	26.67	174
D „ (The Castle)	„ „ „	8	76	0	268	620	24.43	148
„ („ „)	W. Bradshaw, Esq.	5	2	0	247	608	23.95	163
D „ (CarisbrookHo.,ThePark)	A. Brown, Esq., C.E.....	8	1	0	66	737	29.00	179
„ (Stoke Bardolph) ...	E. Powell, Esq.....	8	1	0	400	690	27.17	165
D „ (Mapperley Hill) ...	P. Boobbyer, Esq., M.D...	8	2	0	189	755	29.72	164
Bagthorpe (Isolation Hospital)...	F. W. Davies, Esq.	8	1	0	169	729	28.70	150
Nottingham (Basford W.W.) ...	„ „ „	8	0	9	64	778	30.61	153
Burton Joyce Water Works.....	A. Brown, Esq., C.E.....	10	1	3	65	758	29.83	169
Bulcote (Corporation Farm).....	Mr. J. D. Pearson	5	1	7	90	663	26.09	...
Lowdham (Chilwell Nurseries)...	F. W. Davies, Esq.	8	1	2	317	742	29.23	150
Bulwell (Bestwood W.W.)	„ „ „	8	0	11	407	789	31.05	173
Daybrook (Red Hill Reservoir)...	„ „ „	8	0	10	495	820	32.28	178
„ (Ramsdale Hill Res.)	A. Dale, Esq.	8	1	0	252	740	29.14	160
Bulwell Hall Park.....	J. D. Walker, Esq.....	5	4	3	200	714	28.12	...
Hucknall Torkard (Forge Mills)	F. W. Davies, Esq.	8	0	10	317	792	31.17	171
Papplewick (Water Works)	Dr. H. Handford	5	1	0	132	685	26.96	169
D Southwell (Elmfield)								

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0·1 in. or more
		Diam.	Height Above Ground Sea Level			1915		
		in.	ft.	in.	feet.	mm.	inches.	
NOTTINGHAMSHIRE—(con.)								
5.—TRENT—Left Bank Tributaries—(con.)								
Southwell (Elmfield)..... M	Dr. H. Handford	5	1	0	132	672	26·44	...
"	Rev. Canon J. Singleton..	5	1	0	133	714	28·11	146
+ Farnsfield	Dr. C. Wills	5	1	0	210	729	28·69	15
+ Sutton-in-Ashfield W.W.	Messrs. G. & F. W. Hodson	5	1	1	462	758	29·86	145
"	F. J. Grierson, Esq.	5	1	0	453	760	29·92	159
+ Mansfield (W.W. Rainworth) ...	Messrs. G. & F. W. Hodson	5	1	0	360	774	30·46	143
"	W. Hollins, Esq.	8	1	0	528	812	31·98	187
"	P. J. Shacklock, Esq.	5	1	0	425	849	33·41	187
+ "	W. Pickard, Esq.	8	1	0	405	735	28·95	168
Clipstone Water Works	Messrs. G. & F. W. Hodson	5	1	0	236	724	28·51	142
Ollerton (Boughton W.W.)	F. W. Davies, Esq.	8	0	7	141	712	28·05	156
"	Mr. A. Simmons	8	0	9	125	817	32·16	160
Elkesley Pumping Station	C. Horobin, Esq., C.E.	5	1	0	118	684	26·91	192
Rampton Manor.....	C. E. Ellis, Esq.	6	1	3	26	699	27·51	176
+ Worksop (Carlton Road)	J. Edeson, Esq.	5	1	1	154	666	26·20	151
"	Great Central Rly. Co.	9	3	6	127	619	24·37	135
"	Mr. J. B. Allan	5	3	6	70	673	26·48	165
Retford	Great Central Rly. Co.	9	3	6	52	638	25·11	151
"	G. R. Davies, Esq.	8	0	11	53	716	28·21	184
"	W. H. Mason, Esq.	5	1	0	140	623	24·53	144
"	J. D. Kennedy, Esq.	5	1	0	74	753	29·63	194
Sturton-le-Steeple	S. Ingham, Esq.	5	1	6	40	687	27·04	146
+ Worksop (Wigthorpe Hill)	R. C. Ramsden, Esq.	5	1	0	100	681	26·80	150
+ "	Lt.-Col. H. Mellish	8	1	0	56	654	25·74	166
+ "	" " "	5	1	0	56	645	25·41	...
+ "	" " "	11	1	6	56	646	25·43	162
Scrooby	Mr. J. Mallender	5	1	0	44	602	23·69	174
The Gardens [Bawtry Hall].....	Mr. F. E. Hogbin	5	1	3	31	603	23·74	157
Stockwith	Great Central Rly. Co.	9	3	6	21	650	25·59	170
Bawtry (Hesley Hall)	B. I. Whitaker, Esq.	8	0	11	61	602	23·72	150
6.—OUSE—Don. 2 sq. mi.								
DERBYSHIRE. (Area, 1029 sq. mi.)								
1.—MERSEY, UPPER. 93 sq. mi.								
Comb's Reservoir	Great Central Rly. Co.	9	3	6	710	1023	40·28	226
Chapel-en-le-Frith	" " "	9	3	6	965	936	36·85	189
+ Whaley Bridge (Mosley Hall)...	S. Arrowsmith, Esq.	9	1	2	760	1046	41·18	192
"	" " "	5	1	0	760	1058	41·66	195
Mellor (Manor House)	W. Jowett, Esq.	5	1	0	544	869	34·23	...
+ Glossop W.W. (Swineshaw)	Mr. J. Garner	12	3	0	733	1123	44·22	203
Woodhead Station.....	Great Central Rly. Co.	9	3	6	878	1274	50·16	185
2.—MERSEY—Weaver. 2 sq. mi.								
3.—TRENT. Right Bank Tributaries. 68 sq. mi.								
Repton (The Croft)	H. C. Hayward, Esq.	5	1	4	170	834	32·82	188
+ Stanton-by-Bridge	F. Worrall, Esq., C.E.	8	1	2	144	729	28·70	149
4.—TRENT—Dove. 156 sq. mi.								
+ Ashbourne Water Works.....	Mr. J. W. Twigg	5	1	0	582	896	35·29	174

DIVISION VII.—NORTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above Ground Sea Level			1915		
		in.	ft.	in.	feet.	mm.	inches.	
DERBYSHIRE—(con.)								
5.—TRENT—Left Bank Tributaries 84 sq. mi.								
Willington W.W. (Milton)	Messrs. G. & F. W. Hodson	5	1	0	134	672	26·47	...
d Chellaston	H. Chambers, Esq.	5	1	0	170	735	28·94	176
Findern (The Longlands)	Mrs. B. W. Spilsbury	5	0	9	186	669	26·35	157
d Etwall (Blakeley Lodge)	Mr. R. Giles	5	1	0	190	722	28·41	139
d „ (Sewage Farm)	Mr. B. Hydes	5	13	0	201	704	27·70	140
d Mickleover (County Asylum) ...	M. L. Rowan, Esq., M.D.	5	3	0	300	714	28·09	157
d „ Manor	Mr. J. Campbell	5	2	0	280	810	31·88	169
Littleover (The Knoll)	W. B. Robotham, Esq.	5	2	6	315	794	31·27	173
„ Old Hall	E. McInnes, Esq.	5	2	6	346	786	30·94	163
6.—TRENT—Derwent. 428 sq. mi.								
d Spondon (Derby Sewage Works) ..	J. Ward, Esq., C.E.	5	1	3	135	732	28·83	176
d Derby (Wild Street)	Messrs. J. Davis & Son .	5	1	0	174	733	28·85	173
d† „ (Midland Railway)	J. Sayers, Esq.	5	1	5	156	752	29·61	176
d „ (Royal Infirmary)	E. Forster, Esq.	5	1	0	195	712	28·05	187
d „ (The Arboretum)	J. Ward, Esq., C.E.	8	1	0	196	769	30·29	159
„ (Duffield Road)	Dr. W. G. Copestake	5	6	0	183	707	27·83	...
Kirk Langley (Langley Hall) ...	G. W. Peach, Esq.	5	1	10	396	777	30·60	180
d Breadsall Lodge	Col. W. B. Woodforde	5	1	3	280	730	28·74	158
d „ Priory	Miss H. A. Haslam	5	1	6	360	666	26·22	148
d Duffield (Castle Hill House)	Messrs. J. Davis & Son ...	...	...	...	...	757	29·81	179
Belper (Herbert Strutt School) ...	W. W. Tunncliffe Esq. per Mo	8	1	0	223	792	31·16	...
d „ (Quarry Bank)	J. Hunter, Esq., C.E.	5	0	8	281	812	31·96	159
Ambergate Reservoir	S. B. Winser, Esq., C.E.	5	1	0	700	726	28·60	...
d Wirksworth (Manor House)	T. Atkinson, Esq.	5	1	0	498	929	36·58	178
Alderwasley	Rev. C. E. B. Deacon	5	1	0	540	914	35·98	175
d Whatstandwell (Meerbrook Sough) ..	Messrs. G. & F. W. Hodson	5	1	0	246	880	34·64	171
d Brackenfield (Lindway Reservoir) ..	J. Spencer, Esq.	5	1	0	595	844	33·22	155
Matlock Bath	Miss E. Chadwick	5	1	1	500	877	34·52	...
d „ (The Gables)	Mrs. R. Wildgoose	5	1	0	450	920	36·24	181
d „ (Rockside)	J. D. Evans, Esq.	5	1	0	637	881	34·68	184
d Darley Dale (Whitworth Inst.) ..	G. Evans, Esq.	5	1	6	361	865	34·07	164
d „ Hall	A. Clay, Esq.	5	1	0	400	910	35·84	184
d Clay Cross (Press Reservoir)	G. Frith, Esq., C.E.	8	1	0	810	778	30·64	155
d Bakewell (Catcliff)	Dr. T. Fentem	12	3	1	411	991	39·01	160
d† Chatsworth Gardens	Mr. F. Jennings	5	1	0	436	1028	40·49	191
d Buxton (Portobello Bar)	F. Langley, Esq., C.E.	8	1	0	1600	1445	56·89	221
d „ (Stanley Moor)	„ „ „	8	1	0	1310	1355	53·36	218
d „ (Burbage Edge)	„ „ „	8	1	0	1400	1402	55·19	220
d „ (Devonshire Hospital) ...	W. Pilkington, Esq.	5	1	0	988	1324	52·11	200
d† Holmesfield (Barbrook Reservoir) ..	Gilbert Frith, Esq., C.E.	8	1	0	1080	939	36·98	206
d† Eyam (The Rectory)	Rev. F. L. Shaw	5	1	0	856	1014	39·92	191
„ (The School)	R. Owen, Esq.	8	1	6	856	1018	40·07	182
d „ (Eyam View)	Mr. P. Thorpe	5	1	0	945	998	39·29	197
d Froggatt Edge (Moorlands)	Rev. W. Vale Bagshawe	5	1	0	530	966	38·05	173
d† Grindleford (Grouse Inn) No. 58	S. B. Winser, Esq., C.E.	5	1	0	990	1027	40·44	173
d Hope (Killhill Bridge) ... No. 56	„ „ „	5	1	0	555	1131	44·52	197
d Bamford (Engineer's Office) No. 60	„ „ „	8	2	0	510	1046	41·16	222
„ (Yorkshire Br. Weir) 59	„ „ „	5	1	0	540	1023	40·26	179
Derwent Vicarage No. 67	„ „ „	8	1	0	675	1163	45·79	...

DIVISION VII.—NORTH MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above Ground		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
DERBYSHIRE—(con.)								
6.—TRENT—Derwent—(con.)								
Derwent Dam.....No. 26	S. B. Winsor, Esq., C.E....	8	1	0	790	1073	42.23	208
„ (Lockerbrook Plant.) 68	„ „ „ ...	5	1	0	755	1148	45.21	...
Woodland Dale (Woodlands, S.) 48	„ „ „ ...	5	1	0	1044	1028	40.47	...
„ „ „ („ „ „ N.) 47	„ „ „ ...	5	1	0	1063	1064	41.90	...
Hayfield (Ashop Head) .. No. 43	„ „ „ ...	5	1	0	1650	988	38.90	...
Derwent Dale (Walker Ho.) No. 22	„ „ „ ...	8	1	0	758	1122	44.17	...
„ „ (Shire Owlers) 69	„ „ „ ...	5	1	0	825	1094	43.06	...
„ „ (Birchinlee) No. 23	„ „ „ ...	8	1	0	870	1240	48.80	...
Westend Bridge .....No. 66	„ „ „ ...	5	1	0	878	1239	48.78	...
Lady Clough Moor .....No. 41	„ „ „ ...	5	1	0	1720	1092	43.00	...
Coldharbour Moor (Summit) No. 39	„ „ „ ...	8	1	0	1670	1099	43.28	...
Derwent Dale (Howden Dam) 17	„ „ „ ...	8	1	0	829	1274	50.15	212
„ „ (Ridge Farm)...13	„ „ „ ...	5	1	0	1175	1096	43.13	...
Alport Moor (Glethering Clough)..40	„ „ „ ...	5	1	0	1640	1087	42.80	...
Westend Moor (Blacklow Cote) 15	„ „ „ ...	5	1	0	970	1338	52.68	...
„ „No. 10	„ „ „ ...	5	1	0	1560	1156	45.50	...
Alport Moor.....No. 38	„ „ „ ...	5	1	0	1790	1115	43.90	...
Broadhead Clough .....No. 63	„ „ „ ...	5	1	0	1005	1418	55.81	...
Derwent Dale (Slippery Stones) 62	„ „ „ ...	5	1	0	903	1326	52.22	...
Ridgewalk Moor No. 9	„ „ „ ...	5	1	0	1650	1181	46.50	...
7.—TRENT—Erewash. 50 sq. mi.								
D Trowell (Ilkeston Sew. Wks.) (R)	H. J. Kilford, Esq., C.E.	6	1	11	134	669	26.34	143
D Codnor (Cross Hill)	A. F. Pine, Esq.....	5	1	0	372	772	30.41	153
D „ „ Park	Midland Railway Co.....	5	1	0	243	839	33.03	208
8.—OUSE—Don. 148 sq. mi.								
Hardwick Hall	Mr. E. Wilson	8	2	6	594	884	34.81	169
Grassmoor Colliery	Mr. J. Norman	5	19	10	370	573	22.56	...
† Chesterfield (Gas Works).....	Chesterfield Water Board	5	1	0	279	641	25.22	...
„ „	Great Central Rly. Co.....	9	3	6	250	663	26.09	...
D „ „ (Sewage Works) ..	Mr. W. Tomlinson.....	5	2	0	222	650	25.59	142
D† „ „ (Linacre Reservoir)	Chesterfield Water Board	8	1	0	460	868	34.16	169
D† „ „ („ „ „)	„ „ „ „ „	5	1	0	490	784	30.85	169
„ „ (Tapton Grove).....	Mr. W. R. Bloxham	5	4	3	400	709	27.90	...
D Totley Hall.....	W. A. Milner, Esq.	5	1	0	700	873	34.37	155
D Eckington (Mosbrough C.E. Sch.)	W. H. Holmes, Esq.....	5	1	0	330	728	28.67	180
Killamarsh (Norwood) ...	Great Central Rly. Co.....	9	3	6	226	693	27.30	180
D† Norton.....	Col. Sir N. Creswick, K.C.B.	5	0	8	700	864	34.03	164

DIVISION VIII.—NORTH WESTERN COUNTIES.

CHESHIRE. (Area, 1027 sq. mi.)

1.—MERSEY, UPPER. 269 sq. mi.								
D† Macclesfield (West Park)	Mr. S. H. Moss	5	1	0	501	866	34.08	166
„	Great Central Rly. Co.	9	3	6	539	686	26.99	175
D† „ (Swanscoe Park) ...	T. C. Horsfall, Esq.	5	1	0	676	916	36.05	204
Bollington (Sponds Hill)	Great Central Rly. Co.	9	3	6	1279	798	31.41?	...
D „ Cross (Turner Heath) J. A. Wanklyn, Esq.	„ „ „ „ „	5	1	6	500	865	34.05	159

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with '01 in. or more
		Diam.	Height Above			1915		
			Ground.	Sea Level		mm.	inches.	
CHESHIRE—(con.)		in.	ft.	in.	feet.			
1.—MERSEY, UPPER—(con.)								
Wilmslow (Parkside)	Miss H. M. Pearson	8	1	0	255	758	29.83	167
Kettleshulme (Glebe House)	A. Y. Barker, Esq.	5	1	6	850	1036	40.78	180
Whaley Bridge	Great Central Rly. Co.	9	3	6	602	1026	40.38	183
Poynton (Waterloo)	C. F. Butterworth, Esq.	5	1	0	397	806	31.75	175
Handforth	Dr. A. J. P. Nowell	5	1	8	256	903	35.56	...
Rostherne Vicarage	Rev. C. H. Coneybeare	5	1	0	163	824	32.45	170
Disley (Lyme Park)	T. Molyneux, Esq.	5	1	0	674	814	32.04	174
" " "	" " "	5	1	0	720	787	30.98	174
Runcorn (Weston Point)	J. A. Saner, Esq., C.E.	8	1	4	17	644	25.36	174
Thelwall (The Clough)	E. W. Reynolds, Esq.	5	1	0	95	784	30.88	174
" " "	" " "	5	1	0	95	778	30.65	...
Altrincham (Norman's Place)	Miss G. A. Griffiths	5	8	0	150	904	35.58	157
" (Barrington House)	C. E. Newton, Esq., C.E.	8	2	6	103	817	32.16	...
Cheadle (Adswold)	R. W. Wright, Esq.	5	0	6	186	809	31.85	...
Northenden (Wythenshawe Hall)	T. E. Tatton, Esq.	5	1	0	114	751	29.58	173
" " "	" " "	8	1	0	114	752	29.59	...
Marple Top Lock	Great Central Rly. Co.	9	3	6	523	826	32.54	161
Stockport (Cale Green Park)	F. Taylor, Esq.	5	1	0	247	813	32.00	168
" " "	Dr. A. G. Jenner	5	1	0	186	855	33.68	180
Godley Reservoir	G. H. Hill, Esq., C.E.	12	2	0	500	841	33.12	...
Newton	Great Central Rly. Co.	9	3	6	396	841	33.11	181
Mottram Station	" " "	9	3	6	452	863	33.96	156
Broadbottom (Harewood Lodge)	Col. Sidebottom	5	1	0	440	843	33.20	155
Dukinfield (Higher Reservoir)	F. J. Dixon, Esq., C.E.	8	1	6	495	776	30.57	169
" (Lower ")	" " "	5	1	0	435	811	31.94	169
Arnfield Reservoir	G. H. Hill, Esq., C.E.	12	2	6	550	1027	40.42	...
Rhodes Wood Reservoir	" " "	12	1	0	520	1170	46.07	...
Torrside Reservoir	" " "	12	1	6	680	1230	48.41	...
Stalybridge (Market Ground Yard)	F. J. Dixon, Esq., C.E.	5	1	0	373	938	36.94	178
" (Brushes Filter House)	" " "	8	1	0	615	1056	41.58	187
" " " " (R)	" " "	6	3	0	615	1002	39.46	188
Swineshaw Moor (Lees Hill)	" " "	5	1	0	1168	1005	39.57	...
Woodhead Reservoir	G. H. Hill, Esq., C.E.	12	0	10	660	1259	49.56	...
2.—MERSEY—Weaver. 489 sq. mi.								
Baddiley (Nantwich W. W.)	Baldwin Latham Esq., C.E.	5	1	0	231	805	31.69	180
Nantwich (Dorfold Hall)	J. A. Saner, Esq., C.E.	8	1	0	190	798	31.40	186
" (Reaseheath Hall)	" " "	8	1	0	130	806	31.72	209
Sandbach (Malkins Bank)	Messrs. Brunner Mond & Co.	5	3	8	138	600	23.61	167
Congleton (Sewerage Works)	J. H. Walters, Esq., C.E.	5	1	0	248	818	32.19	175
" (Buglawton Vicarage)	J. A. Saner, Esq., C.E.	8	5	0	347	830	32.69	201
Bosley Reservoir	Great Central Rly. Co.	9	3	6	590	754	29.68	193
" Minns	" " "	9	3	6	1210	721	28.40	187
Middlewich	Messrs. Brunner Mond & Co.	5	3	10	138	673	26.48	157
" (Bostock Hall)	Mr. A. H. Hall	5	2	6	157	768	30.23	...
Chelford (Astle Hall)	G. Dixon, Esq.	5	1	0	250	734	28.88	155
" " "	" " "	8	1	0	250	736	28.98	...
Northwich	Great Central Rly. Co.	9	3	6	76	661	26.03	154
" (Hunts Lock)	J. A. Saner, Esq., C.E.	8	1	0	47	745	29.33	174
" (Winnington)	Messrs. Brunner Mond & Co.	5	1	0	64	755	29.73	173

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above Ground. Sea Level			1915		
		in.	ft.	in.	feet.	mm.	inches.	
CHESHIRE—(con.)								
2.—MERSEY—Weaver—(con.)								
D Northwich (Lostock Gralam) ...	Messrs. Brunner Mond & Co.	5	3	6	75	755	29.74	166
3.—MERSEY, LOWER & C. 142 sq. mi.								
Duddon School	Miss L. E. Line	5	5	3	130	769	30.28	...
Helsby (Highfield)	C. MacIvor, Esq. ....	...	...	...	...	729	28.70	...
Ince Hall	Mrs. Park-Yates	5	1	0	110	744	29.30	154
D Hooton Water Works	P. H. Bettie, Esq.	5	1	0	97	769	30.27	180
D Eastham (Mill Hey)	Roger P. Sing, Esq.	5	1	7	125	825	32.48	185
„ House	J. H. Vernon, Esq.	5	1	0	100	790	31.12	182
D Wirral W.W. (Prenton)	P. H. Bettie, Esq.	5	1	0	91	726	28.60	182
D Rock Ferry (Elmhurst)	Miss Shepherd	8	6	0	110	805	31.70	172
Birkenhead (Bidston Observatory)	W. E. Plummer, Esq.	8	1	0	189	682	26.83	177
D Hoylake (District Council Office)	R. W. Fraser, Esq.	5	1	0	33	777	30.60	197
D Wallasey (Marine Park)	Dr. T. W. N. Barlow	5	1	0	35	732	28.80	164
4.—DEE. 127 sq. mi.								
D Aldford	Miss M. Meredith	5	1	1	46	795	31.30	190
D Eaton Hall Gardens	Mr. N. F. Barnes	5	3	0	72	740	29.14	174
Eccleston	E. Wells, Esq.	5	1	1	94	690	27.15	152
D Rowton (Holly Bank)	R. J. Salmon, Esq.	5	1	5	123	693	27.28	153
D Chester (Sewage Works)	W. D. Scouller, Esq.	5	1	0	34	672	26.44	183
D „ (Curzon House)	J. H. Howell, Esq.	5	1	1	78	713	28.07	168
D „ (Christleton Lodge)	Mr. C. R. Heywood, junr. ....	...	9	6	120	618	24.31	154
D „ („ Hall)	Mr. J. Weaver	5	1	2	142	716	28.21	183
D „ (Water Works)	C. Wilfrid Bennett, Esq.	5	0	10	85	651	25.64	173
D „ („ „)	„ „ „	8	2	3	85	657	25.88	182
D „ (Northgate Station)	Great Central Rly. Co.	9	3	6	84	666	26.24	157
D Capenhurst Hall	R. T. Richardson, Esq.	5	5	10	125	807	31.77	173
D Neston (Vine House)	H. F. Russell, Esq.	5	1	0	111	699	27.53	179
West Kirby (Hilbre House)	Egerton Macdonald, Esq.	5	0	9	25	719	28.31	...
„ „ („ Road)	R. Dempster, Esq.	5	1	0	30	703	27.69	...
„ „ (The Abbey Manor)	Cedric R. Boulton, Esq.	5	0	10	200	698	27.46	164
SOUTH LANCASHIRE. (Area, 687 sq. mi.)								
1.—ALT & C. 103 sq. mi.								
D Liverpool (Huyton Vicarage) ...	Mrs. E. M. Sanderson	5	0	11	116	845	33.27	185
D „ (Knotty Ash)	W. M. Reade, Esq.	5	1	0	100	795	31.31	206
D West Derby (Basil Grange)	Mr. G. Harris	8	1	3	100	866	34.10	174
D Great Crosby (Alexandra Park) ..	S. Wilson, Esq.	5	1	0	34	716	28.19	165
D Blundellsands (Myra)	H. Montgomery, Esq.	5	1	0	35	701	27.59	171
D Ormskirk (Bickerstaffe Pump Sta.)	G. H. Abbott, Esq.	5	1	2	128	779	30.67	166
D „ (Springfield Pumping Sta.)	„ „ „	5	0	11	70	786	30.94	169
2.—MERSEY, LOWER. 240 sq. mi.								
D Garston	J. A. Brodie, Esq., C.E.	10	1	10	84	907	35.70	180
D „ (Grassendale Park)	Miss E. C. Abraham	5	1	0	35	768	30.22	179
D Aigburth (Holmfield)	Miss Maxwell	5	1	0	100	773	30.42	189
D Woolton (Roseleigh Gardens) ...	Mr. J. Stoney	8	1	0	180	821	32.32	180
D Warrington (Howley Yard)	A. M. Ker, Esq.	10	0	10	19	724	28.51	164
„ (Central Station) ...	Great Central Rly. Co.	9	3	6	59	659	25.95	144

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
SOUTH LANCASHIRE—(con.)								
2.—MERSEY, LOWER—(con.)								
† Liverpool (Monument Place) ...	J. A. Brodie, Esq., C.E....	5	1	3	126	760	29.93	173
d† " (" ") (R) ...	" " " " ...	10	4	6	129	748	29.45	173
" (Smithdown Road) ...	" " " " ...	10	0	9	135	802	31.57	188
" (Rathbone Road)	" " " " ...	10	1	0	199	967	38.08	182
" (Lank Lane)	" " " " ...	10	10	8	101	807	31.77	180
" (Newsham Park)	" " " " ...	10	1	0	140	868	34.16	186
" (Huskisson Station) ...	Great Central Rly. Co....	9	3	6	42	713	28.07	164
" (Breeze Lane)	J. A. Brodie, Esq., C.E....	5	0	9	135	888	34.96	175
St. Helen's (Eccleston Hill).....	J. J. Lackland, Esq., C.E.	12	2	9	268	828	32.59	176
d Earlestown (Newton Cemetery)...	A. Bowes, Esq.	5	1	0	75	946	37.26	146
d Leigh (Leesrigg)	Major T. Hunter, C.E....	5	1	0	71	714	28.11	169
d Tyldesley Gas Works	H. Hoy, Esq.	5	1	0	150	874	34.41	154
3.—MERSEY—Irwell. 299 sq. mi.								
Urmston (Sew. Wks., Davyhulme)	G. F. Walter, Esq.	8	2	3	72	681	26.83	...
d Manchester (Godlee Observatory)	W. C. Jenkins, Esq.	8	1	3	140	802	31.57	173
d " (" ") (R) ...	" " " " ...	11	1	6	140	801	31.52	179
" (Piccadilly)	Great Central Rly. Co....	9	10	0	194	758	29.83	163
" (Fairfield)	" " " " ...	9	6	0	312	865	34.04	185
† " (Oldham Road)	Dr. J. Niven	5	1	0	191	859	33.81	182
† " (Whitworth Park) ...	Manchester Univ. per M.O.	8	1	5	126	827	32.59	185
Eccles (Worsley New Hall)	Mr. W. B. Upjohn	8	10	0	80	916	36.06	169
" (" Old Hall)	" " " " ...	6	1	6	150	947	37.30	157
d Ashton-under-Lyne (Knott Hill Res.)	F. J. Dixon, Esq., C.E....	8	1	3	605	980	38.59	183
Prestwich Reservoir	G. H. Hill, Esq., C.E....	12	2	0	356	866	34.09	...
d " (Heaton Park)	Bertram Meek, Esq., C.E.	8	1	0	312	944	37.17	163
d† Oldham (Alexandra Park)	Dr. J. B. Wilkinson	5	1	0	600	1062	41.80	187
" (Honeywell Lane)	Great Central Rly. Co....	8	3	6	553	1038	40.85	199
" (Brushes Clough) old g.	C. J. Batley, Esq., C.E. ..	5	4	0	930	1162	45.74	207
" (" ") new g.	" " " " ...	5	5	0	955	1146	45.13	207
d† Bolton (Queen's Park)	T. Midgley, Esq.	5	1	0	342	1110	43.71	197
d† " (Heaton Reservoir)	Lewis Mitchell, Esq., C.E.	5	1	0	500	1114	43.86	189
d " (Bloomfield, Heaton) ...	Mrs. F. Taylor	5	1	0	530	1100	43.31	206
" (Smithills)	R. E. Proffitt, Esq.	5	6	0	492	1161	45.71	195
d† " (" Hall) ...	Col. R. H. Ainsworth.....	8	1	2	510	1184	46.61	155
" (" Moor)	" " " " ...	8	1	2	1375	1165	45.88	...
d Bury (Parsons Lane).....	R. B. Rigby, Esq.	8	9	8	316	1082	42.62	186
" (Bridge Hall)	Mr. E. Rogers.....	8	1	0	...	1053	41.46	179
d New Hey (Sewage Works)	Mr. J. B. Ogden.....	5	1	0	514	1059	41.70	156
d† Milnrow (Piethorne, Kitchliffe)...	C. J. Batley, Esq., C.E....	5	4	6	769	1088	42.84	213
† " (" Coldgreave) ...	" " " " ...	5	4	6	894	1053	41.47	199
† " (" Norman Hill) ...	" " " " ...	5	4	6	1076	937	36.88	198
† " (" Rooden Res.) ...	" " " " ...	5	4	6	1131	893	35.17	198
d Rochdale (Roch Mills Sew. Wks.)	S. S. Platt, Esq., C.E. ...	8	1	1	363	1125	44.28	196
d† " (Broadfield Park Obsy.)	Dr. A. G. Anderson	8	0	6	472	1153	45.41	211
d " (Fieldhead Yard)	S. S. Platt, Esq., C.E....	8	12	0	484	1032	40.61	189
d " (" ") (R) ...	" " " " ...	8	12	0	484	1038	40.87	189
d† " (Ashworth Moor Res.)	J. S. Diggle, Esq., C.E....	5	1	2	957	1116	43.93	185
d Bury (Gin Hall)	No. 1 J. Woodhead Smith, Esq. CE	8	1	0	475	1135	44.67	187
d " (" ")	No. 2 " " " " ...	8	1	0	475	1150	45.29	187

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above		Sea Level	1915		
		in.	ft.	in.		feet.	mm.	inches.
SOUTH LANCASHIRE—(con.)								
3.—MERSEY—Irwell—(con.)								
D† Bolton (Belmont Reservoir)	Lewis Mitchell, Esq., C.E.	5	1	0	800	1351	53·19	207
D Rochdale (Hamer Pasture Res.)..	F. H. Brunt, Esq.	8	1	0	760	1289	50·75	198
D „ (Naden Filters).....	J. S. Diggle, Esq., C.E....	5	1	8	761	1167	45·95	184
Norden (Higher Red Lumb)... M	„ „ „	5	1	6	1125	1135	44·70	...
„ (Far Knowl)..... M	„ „ „	5	1	2	...	1195	47·03	...
D Rochdale (Naden Dean)...old g. M	„ „ „	5	1	7	961	1182	46·55	184
„ („ „) new g. M	„ „ „	5	1	4	948	1088	42·82	...
† Ramsbottom (Killgate Brook) M	„ „ „	5	1	0	978	1164	45·83	...
† „ (Cheesden Barn) M	„ „ „	5	1	0	997	1117	43·99	...
† „ (Shuttleworth Moss) M	„ „ „	5	0	11	1076	1142	44·94	...
„ (Gt. Lodge, Higher Hill) M	„ „ „	5	1	0	1495	1086	42·77	...
D Edenfield (Scout Moor Res.) No.1	J. Woodhead Smith, Esq. C.E.	8	1	0	1275	980	38·60	196
D „ („ „ „) No.2	„ „ „	8	1	0	1275	1038	40·86	196
Waterfoot (Cragg Holes Res.)...	W. H. Elce, Esq., C.E....	5	1	0	1426	1210	47·65	...
D „ (Cowpe Reservoir) ...	„ „ „	5	1	0	1026	1244	48·98	197
D Rochdale (Spring Mill Whitworth)	F. H. Brunt, Esq.	5	1	7	720	1290	50·78	183
D „ (Cowm, „ „)	„ „ „	8	1	7	760	1258	49·54	173
D† Entwistle Reservoir	Lewis Mitchell, Esq., C.E.	5	1	0	700	1260	49·60	191
Littleborough (Hollingworth Lake)	Rochdale Canal Co.* ...	8	1	5	600	999	39·34	...
„ (Windy Bank) ...	„ „ „	8	2	0	605	1009	39·74	...
„ (Blackstone Edge)	„ „ „	8	2	0	1225	938	36·94	...
„ (Canal Summit) ...	„ „ „	8	2	0	700	985	38·78	...
„ (Chelburn)	„ „ „	8	2	0	800	1014	39·92	...
„ (Byron Edge Drain)	„ „ „	8	1	5	1250	936	36·84	...
„ (Lenches).....	„ „ „	8	2	0	806	1019	40·11	...
Walsden (Calf Lee)	„ „ „	10	1	6	960	920	36·22	...
„ (Warland Drain)	„ „ „	8	1	5	1250	904	35·59	...
„ (Whiteholme Drain) ...	„ „ „	8	1	5	1250	954	37·56	...
„ (Rishworth Drain).....	„ „ „	8	1	5	1200	864	34·01	...
Bacup (Thorn House)	J. Holt, Esq.	5	1	0	...	1243	48·92	...
D† Haslingden (Holden Wood) No.1	J. Woodhead Smith, Esq. C.E.	8	1	0	670	1362	53·64	189
D „ („ „ „) No.2	„ „ „	8	1	0	670	1199	47·20	189
D† „ (Calf Hey) No.1	„ „ „	8	1	0	800	1270	50·01	189
D „ („ „ „) No.2	„ „ „	8	1	0	800	1052	41·41	189
Rawtenstall Cemetery	Rawtenstall Free Press ..	8	1	0	572	1131	44·51	...
D† „ (Cloughbottom Res.) No.1	J. Woodhead Smith, Esq. C.E.	8	1	0	1025	1073	42·25	174
D „ („ „ „ „) No.2	„ „ „	8	1	0	1025	1004	39·52	174
D† „ (Hapton Reservoir) No.1	„ „ „	8	1	0	930	1210	47·64	205
D „ („ „ „ „) No.2	„ „ „	8	1	0	930	1225	48·23	205
4.—MERSEY, UPPER. 45 sq. mi.								
D Didsbury (Linden Road)	L. G. King, Esq.	8	1	6	110	768	30·22	174
D Heaton Mersey [Stockport]	W. B. Leigh, Esq.	5	3	11	218	756	29·75	173
D Chorlton-cum-Hardy Sew. Works	G. F. Walter, Esq.	8	4	0	76	751	29·56	180
D „ „ „ „ „	J. H. Casartelli, Esq.	5	2	0	75	759	29·89	156
D Fallowfield (Platt Field Park)...	Bertram Meek, Esq., C.E.	8	3	3	124	757	29·81	169
Denton Reservoir	G. H. Hill, Esq., C.E....	12	2	0	324	730	28·75	...
Gorton „	„ „ „	12	2	0	263	744	29·31	...
D Ashton-under-Lyne (Henrietta St. Yard)	F. J. Dixon, Esq., C.E....	7	1	0	394	975	38·37	190

* Returns supplied by W. A. M'Grath, Esq.

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 01 in. or more
		Diam.	Height Above			1915		
			Ground.	Sea Level		mm.	inches.	
		in.	ft.	in.	feet.			
SOUTH LANCASHIRE—(con.)								
4.—MERSEY, UPPER—(con.)								
Ashton-und.-Lyne(Waterhouses)	Great Central Rly. Co.....	9	3	6	345	893	35.15	193
d Lower Swineshaw Reservoir.....	F. J. Dixon, Esq., C.E....	8	1	0	886	1080	42.50	206
Swineshaw Moor	" " " ..	5	1	0	1340	1060	41.72	...
d Mossley (Manor House Yard) ...	" " " ..	5	1	0	636	1027	40.45	184
CENTRAL LANCASHIRE.								
(Area, 536 sq. mi.)								
1.—RIBBLE & C. 326 sq. mi.								
†Rivington (Higher Hill)	J. Parry, Esq., C.E.	8	1	4	733	976	38.43	...
d Haslingden(MitchellsHouseRes.)	C. Harrison, Esq.	5	1	6	990	1151	45.33	154
d Darwen (Sunnyhurst Hey Res.)..	E. Marsden, Esq., C.E....	8	1	8	915	1180	46.45	188
d " (Earnsdale Reservoir)...	" " " ..	8	1	8	705	1195	47.03	188
d " (Sewage Works)	" " " ..	5	1	6	460	1137	44.78	148
d " (Bold Venture Park) ...	Dr. F. G. Haworth	8	2	4	722	1313	51.69	211
" (Hoddlesden) .....No.1	J. T. Shield, Esq., C.E....	8	4	0	680	1114	43.86	177
" (")No.2	" " " ..	8	1	0	675	1133	44.59	177
† " (Daisy Green) .....No.1	" " " ..	8	1	0	969	1275	50.19	181
" (")No.2	" " " ..	8	1	0	969	1288	50.70	181
" (Pickup Bank) .....No.1	" " " ..	8	1	0	720	1094	43.05	180
" (")No.2	" " " ..	8	1	0	720	1097	43.18	180
d Brindle (Whiteholme)	Victor H. Gatty, Esq....	5	1	8	315	920	36.23	168
†Blackburn (Guide Reservoir) ...	J. T. Shield, Esq., C.E....	8	1	0	650	1029	40.51	177
" (Witton)	" " " ..	8	2	6	315	1182	46.53	176
" (Store Yard)	" " " ..	8	1	6	373	873	34.36	160
† " (Corporation Park) ...	" " " ..	8	0	6	584	1086	42.74	190
† " (Pumping Station) ...	" " " ..	8	6	0	600	974	38.33	153
d Accrington (St. James'sVicarage)	Rev. A. Spencer.....	8	1	6	475	1123	44.22	173
" (Milnshaw Park).....	Accrington Corporation...	5	1	6	464	1024	40.31	157
d Hutton (Lancs C.C. Hortie. Stat.)	Dr. H. Lloyd Snape	5	1	0	82	881	34.69	177
d Penwortham Hall	Rev. T. R. Finch	5	0	9	100	945	37.22	170
Higher Walton (Bannister Hall)	A. A. Gatty, Esq.	5	0	7	75	940	37.02	...
d Preston (Corporation Offices) ...	J. H. Smethurst, Esq., C.E.	8	18	7	148	913	35.93	168
Samlesbury Sewage Works	J. T. Shield, Esq., C.E....	8	...	...	240	1014	39.91	181
†Causeway Side (Burnley W.W.)	W. Williamson, Esq.....	8	2	0	1116	1017	40.05	...
†Sheddin (" ")	" " " ..	8	2	0	960	1025	40.37	...
†CantClough,S.Side(" ")	" " " ..	8	2	0	900	1081	42.56	210
† " " N.Side(" ")	" " " ..	8	2	0	900	1027	40.45	210
RamsCloughHead(" ")	" " " ..	8	2	0	1260	1065	41.92	...
d Huncoat (Burnley Road Res.)...	C. Harrison, Esq.	9	1	6	620	1141	44.91	182
Great Harwood (Parsonage Res.)	J. T. Shield, Esq., C.E....	...	1	6	631	954	37.57	176
d " " (Dean Clough)...	C. Harrison, Esq.	12	1	6	540	1141	44.91	202
d Burnley (Queen's Park)	Dr. Thomas Holt	8	1	0	459	1022	40.23	192
" (Yorkshire Street)	W. Williamson, Esq.....	8	30	0	420	907	35.72	184
† " (Swinden)..... Upper g.	" " " ..	8	12	0	820	1114	43.86	208
† " (")..... Lower g.	" " " ..	8	2	0	745	1137	44.75	208
† " (Extwistle Moor Top)...	" " " ..	8	2	0	1310	1116	43.92	...
d " (Gawthorpe Hall)	Lord Shuttleworth.....	8	0	9	316	1094	43.06	186
d " (Huntroyde).....	N. G. Howsin, Esq.	5	1	0	423	1092	42.99	186
d Fulwood (Haighton).....	A. E. Coupe, Esq., C.E....	5	1	2	255	805	31.69	164

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
CENTRAL LANCASHIRE—(con.)								
1.—RIBBLE & C—(con.)								
Alston Reservoir	J. H. Smethurst, Esq., C.E.	8	1	2	320	978	38·49	...
† Stonyhurst College	Rev. W. Sidgreaves, S.J.	8	1	10	377	1113	43·84	173
D† „ „ „ (R)	„ „ „	11	1	10	377	1114	43·87	173
† „ „ „ M	„ „ „	11	1	0	376	1093	43·02	...
Knowle Green (Preston W. W.) M	J. H. Smethurst, Esq., C.E.	8	1	2	400	1032	40·64	...
Loud Scales („ „) M	„ „ „	8	1	2	400	1089	42·87	...
Spade Mill („ „) M	„ „ „	8	1	2	400	981	38·62	...
Jeffrey Hill („ „) M	„ „ „	8	1	2	900	1173	46·18	...
D Beacon Fell (Barnsfold Reservoir)	A. E. Coupe, Esq., C.E....	5	1	6	506	1022	40·24	169
„ „ „ („ „) M	„ „ „	5	1	6	506	1027	40·42	...
D† Colne (Cemetery Grounds) ... (R)	T. H. Hartley, Esq.	8	2	11	619	886	34·90	180
Barrowford Reservoir	Leeds & L'pool Canal Co.	8	1	0	473	974	38·35	...
Foulridge (Upper Reservoir) ...	„ „ „	8	1	0	582	891	35·09	...
† Clitheroe (Downham Hall)	R. C. Assheton, Esq.	10	1	6	464	974	38·35	...
D† Chatburn (Middlewood)	W. King Wilkinson, Esq.	5	1	3	363	977	38·45	162
2.—RIBBLE—Douglas. 156 sq. mi.								
D Upholland Grammar School	C. H. Cox, Esq.	5	1	0	310	859	33·83	179
D Wigan W.W. (Worthington) ...	T. L. Hughes, Esq.	8	1	6	225	941	37·05	191
D† Horwich (Lower Rivington) ...	J. R. Davidson, Esq., C.E.	8	1	0	440	989	38·93	201
† „ „ (Lower Knoll)	„ „ „	8	1	4	742	1082	42·62	...
D Rivington (Grammar School) ...	Percy R. Bristow, Esq....	5	1	3	510	1082	42·61	185
† „ „ (Brown Hill)	J. R. Davidson, Esq., C.E.	8	1	4	843	1068	42·06	...
D† „ „ (Stoneshouse) ... No. 1	„ „ „	8	1	4	623	1018	40·06	188
† „ „ „ „ „ No. 2	„ „ „	8	1	4	623	999	39·32	...
† „ „ (Hurst Hill)	„ „ „	8	1	10	1029	1050	41·36	...
† „ „ (Great Hill)	„ „ „	8	1	8	1240	1108	43·64	...
† „ „ (Coppice Stile)	„ „ „	8	1	8	879	982	38·68	...
† „ „ (Gamekeeper's)	„ „ „	8	0	8	850	1100	43·30	...
Rufford Park	J. G. Heggie, Esq.	5	1	0	41	801	31·52	...
Leyland (Worden Hall)	H. Nowell Harrington, Esq.	5	1	0	125	879	34·61	190
„ „ „ „ „ M	„ „ „	5	1	0	125	876	34·49	...
Wheulton	Herbert Chadwick, Esq....	5	1	3	425	993	39·10	...
D Bamber Bridge (Cuerden Hall) ..	R. A. Tatton, Esq.	5	1	0	230	920	36·21	188
3.—COAST STREAMS. 52 sq. mi.								
Southport (Birkdale)	J. Baxendell, Esq.	5	1	0	27	798	31·43	...
D† „ „ (Hesketh Park)	„ „ „	5	1	0	38	812	31·95	175
D† „ „ „ „ „ M.O.g.	„ „ „	8	1	0	38	814	32·05	172
D† „ „ „ „ „ (R)	„ „ „	11	1	5	39	810	31·89	174
† „ „ (Lord Street Station) ..	Great Central Rly. Co.	9	3	6	21	740	29·13	149
D „ „ (Forest Road)	J. H. Bonny, Esq.	5	1	6	25	789	31·08	180
4.—OUSE—Aire. 2 sq. mi.								
D Worthdale (Watersheddles Res.)	M. R. Barnett, Esq., C.E.	5	1	0	1115	1207	47·53	200
Foulridge (Canal Office)	Leeds & L'pool Canal Co.	8	1	0	497	1022	40·22	...
„ „ (Cragg Nook Hill) ...	„ „ „	8	1	0	690	921	36·27	...
NORTH LANCASHIRE. (Area, 609 sq. mi.)								
1.—DUDDON & C. 77 sq. mi.								
D Barrow-in-Furness (Gas Works)	F. Chadderton, Esq.	11	1	6	36	895	35·23	153
D „ „ „ „ (Sewage Works)	W. C. Persey, Esq., C.E.	5	1	0	21	980	38·57	160

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ≥ 1 in. or more
		Diam.	Height Above		Sea Level	1915		
			Ground.	Sea Level		mm.	inches.	
NORTH LANCASHIRE—(con.)		in.	ft.	in.	feet.	mm.	inches.	
1.—DUDDON & C—(con.)								
Urswick School House	J. Dobson, Esq.	5	1	3	140	1103	43·42	165
Bardsea School	Arthur Fox, Esq.	5	1	0	84	1017	40·03	176
Lindal (Moor Mines).....	Pennington Mining Co....	5	7	0	400	1058	41·67	...
Duddon Valley (Seathwaite Vic.)	Rev. C. W. Wakefield...	5	1	0	330	1814	71·43	193
„ „ („ Tarn)	W. C. Persey, Esq., C.E.	11	1	0	1200	2074	81·66	...
2.—LEVEN & C. 135 sq. mi.								
† Cartmel (Carke).....	W. R. Nash, Esq.	5	1	0	76	973	38·29	177
„ „ (Holker Hall)	Lord Richard Cavendish	5	0	9	85	1008	39·69	187
Ulverston (Poaka Beck)	F. Chadderton, Esq.	11	1	6	512	1160	45·69	181
† Cartmel (Aynsome)	J. Stewart Remington, Esq.	8	2	0	132	1048	41·24	202
„ „ W.W. (Newton Res.) (R)	T. Huddleston, Esq., C.E.	10	1	0	586	1206	47·49	216
Blawith Vicarage	Rev. J. B. Ditchfield.....	5	0	10	185	1430	56·32	182
Rusland Hall	Mrs. Archibald	5	14	0	45	1102	43·38	182
„ „ (Crosslands House).....	Miss K. F. Brothers	5	1	6	82	1328	52·28	171
Greenodd (Pennybridge School)..	W. White, Esq.....	5	1	0	118	1188	46·77	181
„ „ (Summerhill).....	J. L. Altham, Esq.....	5	4	6	241	1301	51·22	165
Finsthwaite School	J. W. Mitchell, Esq.....	5	1	8	250	1315	51·76	168
Graythwaite	H. T. Gnosspelius Esq. per mo	8	1	0	185	1268	49·92	181
Coniston (Water Park).....	Miss C. Marshall	6	1	0	165	1605	63·18	180
„ „ (Holywath).....	Mrs. Barratt	8	0	8	170	2055	80·89	180
† Hawkshead (Tower Bank, Sawrey)	Miss Alcock-Beck	5	2	0	342	1457	57·36	192
† Coniston	Miss C. Marshall	5	1	2	305	1766	69·53	169
† Skelwith Fold [Ambleside]	„ „ „	5	1	0	333	1707	67·19	180
† „ „ „ [„ „]	„ „ „	5	1	0	333	1712	67·42	...
3.—KENT & C. 45 sq. mi.								
Heysham Harbour.....	Midland Railway Co.....	5	1	6	28	805	31·71	160
„ „ House.....	Miss Tomlinson	5	1	6	80	1018	40·06	211
Morecambe	Mr. T. B. Lamb	8	1	0	24	818	32·21	163
Bolton-le-Sands Vicarage.....	Rev. A. R. Tomlinson....	5	1	2	70	897	35·32	...
Carnforth (Over Kellet)	W. Farrer, Esq.	8	1	0	192	907	35·70	177
Yealand Conyers (Beechfield) ...	W. E. Roper, Esq.....	5	1	0	250	871	34·30	172
„ „ „ (Morecambe Lodge)	J. Rawlinson Ford, Esq...	5	1	0	278	996	39·23	195
† Grange-over-Sands (Nutwood)	Miss S. M. Arkwright	5	1	0	...	913	35·94	165
† Cartmel Fell (The Schoolhouse)..	R. J. Cragghill, Esq.....	5	5	0	220	1224	48·19	189
4.—LUNE. 135 sq. mi.								
† Hampson-in-Ellel	W. G. Welch, Esq.	5	1	6	145	901	35·48	179
† Lancaster (Bailrigg) ..	H. L. Storey, Esq.....	5	1	3	200	952	37·48	186
† Quernmore (Brow Top).....	A. G. Bradshaw, Esq.....	8	1	0	552	1104	43·48	173
† Bowland Forest (Higher Salter)	J. T. Sanderson, Esq.....	5	1	0	1014	1020	40·16?	...
„ „ „ (Whiteray).....	„ „ „ „ „	5	1	0	1139	1373	54·06	...
† Lancaster (Strathspey)	A. B. S. Welch, Esq.....	5	1	0	87	899	35·40	186
„ „ (Blea Tarn Reservoir)	A. G. Bradshaw, Esq.....	8	1	0	330	779	30·66	176
„ „ (Greg Observatory) ...	Neville Holden, Esq.....	8	1	0	312	971	38·23	180
„ „ (Robert Street).....	A. G. Bradshaw, Esq... ..	8	1	0	62	958	37·72	180
Caton (School House)	W. Shaw, Esq.	5	1	0	170	1105	43·51	166
Halton Park	J. G. Wright, Esq.	5	1	1	434	943	37·14	159
† Wray Vicarage	Rev. C. L. Reynolds.....	5	1	0	165	1046	41·16	190
Leck Vicarage	Rev. J. Turner	5	1	1	400	864	34·01	179
5.—WYRE & C. 213 sq. mi.								
St. Anne's-on-the-Sea (Whitehall)	M. B. Copland, Esq.	8	1	8	20	875	34·44	179

DIVISION VIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.		Days with 0.1 in. or more	
		Diam.	Height Above Ground, SeaLevel		1915			
		in.	ft.	in.	feet.	mm.	inches.	
NORTH LANCASHIRE—(con.)								
5.—WYRE & C—(con.)								
D St. Anne's-on-the-Sea	Mr. W. E. Procter	5	1	0	25	842	33.17	172
D „ „ „ „ (Lawrence Ho.)	C. G. D. Hoare, Esq.	5	1	0	30	868	34.18	151
D† Weeton Reservoir	No. 1 J. Cook, Esq., C.E.	5	1	0	133	950	37.39	161
D† „ „ „ „ No. 3 „ „ „ „	„ „ „ „ „ „ „ „	5	1	0	108	954	37.55	160
D† Blackpool (Met. Observatory) ...	E. W. Rees Jones, Esq., M.D.	5	1	0	67	792	31.19	168
D Kirkham (Elswick Lodge)	L. G. King, Esq.	5	1	4	52	965	37.99	183
D Poulton-le-Fylde (Singleton Pk.)	Mr. R. Southworth	8	0	11	50	1038	40.87	176
D St. Michael's-on-Wyre (Rose Cot.)	J. Moss, Esq.	5	1	0	27	885	34.85	166
D† „ „ „ „ Vicarage	Ven. Archdeacon Hornby	5	1	0	26	890	35.06	173
D† Fleetwood	(R) E. Frobisher, Esq.	8	1	8	29	716	28.18	173
D† Garstang (Bruna Hill)	A. Wilson, Esq.	5	1	0	90	997	39.24	192
† „ „ (Holme Ho., Bleasdale)	„ „ „ „ „ „ „ „	5	1	0	650	1359	53.50	...
„ „ (Fair Snape Fell)	„ „ „ „ „ „ „ „	5	1	0	1630	1583	62.34	...
D† „ „ (Barnacre Reservoir)...	J. Cook, Esq., C.E.	5	1	0	616	1139	44.85	192
D† „ „ (Grizedale Reservoir) ..	„ „ „ „ „ „ „ „	5	1	0	517	1102	43.39	192
„ „ (Calder Intake)	„ „ „ „ „ „ „ „	5	1	0	632	1164	45.83	...
† Wyresdale (Abbeystead Res.) ...	A. G. Bradshaw, Esq.	8	1	0	366	1255	49.42	158
D† „ „ „ „ „ „ „ „	Mr. T. Wyton	8	1	0	440	1244	48.98	177
Quernmore (Old Gauge Basin) M	A. G. Bradshaw, Esq.	8	1	0	963	942	37.07	...
Wyresdale (Wardstone)	M „ „ „ „ „ „ „ „	8	1	0	1440	1233	48.54	...
6.—INSULAR. 4 sq. mi.								

DIVISION IX.—YORKSHIRE.

WEST RIDING. (Area, 2791 sq. mi.)

1.—LUNE. 178 sq. mi.								
D High Bentham	Mr. Bryan Holmes	5	1	0	412	853	33.60	173
Ingletton (Kingsdale Head)	Mr. L. Pye	5	0	10	994	1580	62.22	...
D Hawes Junction	Mr. W. H. Bunce	5	1	0	1130	1304	51.34	204
Sedbergh (Dent Post Office)	Mr. J. Mason	5	1	0	484	1600	63.01	182
D „ „ (Akay)	C. E. Taylor, Esq.	5	1	0	400	1286	50.63	170
D „ „ (Cemetery)	Mr. J. Anderson	5	1	0	374	1297	51.05	187
D „ „ (Bynac)	Mrs. B. Wilson	5	1	0	480	1278	50.30	174
D „ „ (Howgill School)	W. Woodhead, Esq.	5	1	0	550	1226	48.27	173
2.—RIBBLE. 225 sq. mi.								
D Laneshaw Reservoir [Colne]	J. F. Bedford, Esq.	5	1	0	842	847	33.34	177
D Barnoldswick (Rainhall Road) ...	Asa Burniston, Esq.	5	0	10	549	929	36.56	164
† Slaidburn (Knowlmore Manor) ...	W. Peel, Esq.	5	1	0	417	1271	50.04	...
„ „ (Thorneyholme)	R. A. Tatton, Esq.	5	1	6	380	1307	51.47	...
† „ „ (Hareden Brook) ... M	J. H. Smethurst, Esq., C.E.	8	1	2	540	1539	60.60	...
† „ „ (Langden Brook) ... M	„ „ „ „ „ „ „ „	8	1	2	556	1552	61.10	...
† „ „ (Whiteholme)	W. King Wilkinson, Esq.	5	1	3	475	1196	47.07	...
† „ „ (Dunsop Houses)	J. T. Shield, Esq., C.E. ...	8	1	0	450	1464	57.64	156
† „ „ (Middle Knoll)	M „ „ „ „ „ „ „ „	8	2	6	1298	1162	45.74	...
„ „ (Brennand)	„ „ „ „ „ „ „ „	8	1	0	820	1446	56.92	155
† „ „ (Whitendale)	„ „ „ „ „ „ „ „	8	1	0	830	1567	61.68	153
„ „ (Cabin Hill)	M „ „ „ „ „ „ „ „	8	3	1	1559	1334	52.53	...

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground.			1915		
		in.	ft.	in.	feet.	mm.	inches.	
WEST RIDING—(con.)								
2.—RIBBLE—(con.)								
†Slaidburn (Baxton Fell)	J. T. Shield, Esq., C.E....	8	2	6	1540	1236	48.66	...
†Settle (Gas Works)	J. W. Shepherd, Esq.....	8	1	2	450	1061	41.77	184
† „ (Giggleswick School).....	P. Haswell, Esq.	8	1	0	500	975	38.40	175
Horton-in-Ribblesdale	Nathaniel Hunt, Esq.....	...	1	0	800	1304	51.35	...
3.—MERSEY—Irwell. 2 sq. mi.								
4.—MERSEY, UPPER. 35 sq. mi.								
Greenfield (Upperwood Moor) ...	F. J. Dixon, Esq., C.E....	5	1	0	1518	1199	47.21	...
„ (Chew Mount)	„ „ „	5	1	0	1621	1126	44.31	191
„ („ Reservoir).....	„ „ „	5	1	0	1650	1188	46.77	...
„ (Yeoman Hey).....	„ „ „	5	1	0	784	1331	52.40	181
„ (Ashway Moss).....	„ „ „	5	1	0	1581	989	38.92?	...
„ (Birchen Clough).....	„ „ „	5	1	0	1017	1372	54.02	...
Saddleworth Station	E. Prebble, Esq., C.E....	5	4	2	630	956	37.65	...
Strinesdale [Oldham]	C. J. Batley, Esq., C.E....	5	4	0	815	1054	41.51	210
„ Standedge(Castleshaw,Broadhead)	„ „ „	8	4	6	876	1057	41.63	199
„ („ Cudworth)	„ „ „	5	4	6	1410	933	36.74?	199
„ (Redbrook Reservoir).....	E. Prebble, Esq., C.E....	8	1	6	1150	1080	42.54	...
†Denshaw (Ox Hey)	C. J. Batley, Esq , C.E....	8	4	6	1030	1026	40.40	195
† „ (New Year's Bridge)...	„ „ „	8	4	0	1012	1126	44.35	195
† „ (Ready Con Dean).....	„ „ „	8	4	0	1414	1032	40.65	195
5.—TRENT—Derwent. 7 sq. mi.								
Derwent Dale (Abbey Brook) 65	S. B. Winsor, Esq., C.E.	5	1	0	825	1200	47.26	...
„ „ (Howden Clough)64	„ „ „	5	1	0	1030	1142	44.97	...
„ „ („ Ho.) 19	„ „ „	8	1	0	890	1147	45.14	...
„ „ (Sandy Lee) No. 7	„ „ „	5	1	0	1340	1189	46.81	...
6.—TRENT—Left Bank Tributaries. 143 sq. mi.								
„ Tickhill (Sandbeck Park)	Mr. A. Heald	8	1	0	150	663	26.12	146
„ Doncaster (Wadworth Hall).....	Rev. J. C. Ross	8	1	0	190	687	27.03	154
7.—OUSE—Don. 564 sq. mi.								
„ Sheffield (Millhouses)	T. Firth, Esq.....	5	1	6	355	867	34.14	175
„ „ (Stumperlow Hall).....	J. Dixon, Esq.	5	1	0	730	825	32.48	175
„ „ („ „ „).....	„ „ „	5	1	0	770	882	34.74	178
„ „ W.W.(RedmiresRes.)(R)	L. S. M. Marsh, Esq.,C.E.	10	5	0	1110	1070	42.11	205
„ „ („ „ „)weekly	„ „ „	8	4	0	1110	1063	41.83	...
„ „ „ (Rivelin)	„ „ „	10	4	0	564	983	38.70	189
„ „ „ („ „ „)weekly	„ „ „	8	4	0	564	979	38.53	...
„ „ „ (Crookes)	„ „ „	10	2	0	629	780	30.72	174
„ „ „ („ „ „)weekly	„ „ „	8	2	0	629	785	30.92	...
„ „ (Weston Park)	E. Howarth, Esq.	8	1	0	430	836	32.90	169
„ „ Darnall (High Hazels)	„ „ „	8	1	0	275	756	29.77	166
„ „ Sheffield (Victoria Station)	Great Central Rly. Co.....	9	3	6	188	760	29.94	151
„ „ W.W. (Broadcar) No.1	L. S. M. Marsh, Esq.,C.E.	5	1	0	1004	1178	46.39	...
„ „ „ (OaksFm.,Damflask)	„ „ „	5	1	0	650	1029	40.50	...
„ „ Loxley Valley (Loftshaw,Strines)	„ „ „	5	1	0	1011	1181	46.48	...
„ „ „ (DaleDykeRes.)(R)	„ „ „	10	3	0	715	1155	45.46	198
„ „ „ („ „ „)weekly	„ „ „	8	3	0	715	1137	44.76	...
„ „ „ (Thornseat)	„ „ „	5	1	0	1326	1107	43.60	...
„ „ „ (Rocher Flat).....	„ „ „	5	1	0	1106	1054	41.49	...
„ „ „ (Mortimer House)	„ „ „	5	1	0	1036	1053	41.45	...

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above Ground, SeaLevel			1915		
		in.	ft.	in.	feet.	mm.	inches.	
WEST RIDING—(con.)								
7.—OUSE—Don—(con.)								
Rotherham (Ulley Reservoir) ...	T. P. Collinge, Esq., C.E.	5	1	0	184	629	24·75	...
Sheffield (Tinsley Locks)	Great Central Rly. Co.....	9	...		117	730	28·72	167
D Wincobank (Sewage Works) (R)	J. Haworth, Esq.	6	2	0	99	679	26·73	153
D Rotherham (Sitwell Vale).....	Mr. G. Howard	5	1	0	300	739	29·11	163
D „ (Moorgate Grange)...	F. M. Watson, Esq.	5	1	0	262	776	30·56	142
D „ (AldwarkeSew. Wks.)	James H. Kershaw, Esq.	5	1	4	71	672	26·47	...
D „ (Thrybergh)	F. Oscar Kirby, Esq., C.E.	8	1	0	184	688	27·09	167
D Chapeltown (Potter Hill).....	Mr. C. W. Frost	8	5	0	581	831	32·71	154
D Broomhead Hall Gardens.....(R)	Mr. W. Harrison	8	4	6	950	1135	44·68	193
D Conisborough (Firsby Reservoir)	F. Oscar Kirby, Esq., C.E.	8	1	4	189	714	28·11	166
Wentworth Woodhouse	Mr. A. Third	5	0	10	360	760	29·91	...
D „ (High Hoyland)	Miss I. Wintour	5	1	4	610	753	29·64	163
D Mexborough	G. FenwickCarterEsq. C.E.	5	1	6	77	639	25·14	165
D „	John Thompson, Esq.....	5	1	6	76	643	25·33	149
Wortley	Great Central Rly. Co.....	9	3	6	548	798	31·43	145
Elsecar	„ „ „ „	9	3	6	181	638	25·10	146
Langsett Moor (Cateleugh) <i>wkly</i>	L. S. M. Marsh, Esq., C.E.	8	1	6	1516	1167	45·96	...
„ „ (Mickleden) <i>wkly</i>	„ „ „ „	5	1	6	1217	1190	46·83	...
D „ „ (Upper Midhope)	„ „ „ „	8	1	6	925	1131	44·51	182
D „ „ (Midhope).....	J. H. Taylor, Esq., C.E....	5	1	0	830	1045	41·13	188
D Little Don Val. (Underbank Res.)	L. S. M. Marsh, Esq., C.E.	8	1	6	604	1002	39·46	178
„ „ (Brockholes) <i>wkly</i>	„ „ „ „	5	1	6	934	991	39·03	...
„ „ (Sheep House) <i>wkly</i>	„ „ „ „	5	1	6	974	969	38·16	...
D† Little Don Valley (Bridge Lane)	„ „ „ „	8	4	9	761	1071	42·17	187
D† Langsett Moor (Flouch Road) ...	„ „ „ „	8	4	3	960	1135	44·70	185
„ „ (FiddlersGreen) <i>wkly</i>	„ „ „ „	8	1	6	1493	1170	46·08	...
„ „ (Border Hill) <i>wkly</i>	„ „ „ „	5	1	6	1148	1123	44·23	...
D „ „ (Swinden Lodge) ..	„ „ „ „	8	1	6	1037	1186	46·69	174
D Wath-upon-Dearne (Chapel St.)	Dr. F. J. Burman	8	2	2	188	650	25·58	150
Bolton-upon-Dearne	T. Washington, Esq.....	5	1	0	130	631	24·84	143
Worsborough	Great Central Rly. Co.....	9	3	6	225	707	27·82	161
Stainborough (Wentworth Castle)	W. J. Fisher, Esq.....	8	2	6	520	812	31·95	...
D Doncaster (Littlemoor Terrace) ..	R. F. Moate, Esq.	5	1	6	50	588	23·15	141
„	Great Central Rly. Co.....	9	3	6	32	608	23·95	150
D† „ (Pumping Station) ...	F. Oscar Kirby, Esq., C.E.	5	1	6	30	563	22·15	143
D† „ (Avenue Road).....	M. H. Stiles, Esq.	5	4	0	60	631	24·83	165
Dunford Bridge (Windleden) ...	H. Dearden, Esq., C.E....	12	2	2	1100	1166	45·89	...
„ „ (Dearden Res.) ..	„ „ „ „	12	1	6	1244	1117	43·98	...
„ „ Station	Great Central Rly. Co.....	9	3	6	954	1167	45·93	172
D „ „ Reservoir	H. Dearden, Esq., C.E....	12	2	0	1111	1122	44·19	193
Penistone	Great Central Rly. Co.....	9	3	6	717	874	34·43	143
„ „ (Hazlehead)	„ „ „ „	9	3	9	868	1153	45·41	196
D „ „ (Ingbirchworth Res.) ..	J. H. Taylor, Esq. C.E....	8	1	3	853	1009	39·71	202
Barnsley (Jordan Hill)	„ „ „ „	8	1	0	460	724	28·52	146
„	Great Central Rly. Co.....	9	3	6	317	588	23·14	149
D Cawthorne (Cannon Hall).....	J. H. Pardoe, Esq.....	5	0	11	418	825	32·47	166
D Brodsworth Hall Gardens.....	Mr. F. W. Larnier	5	1	0	175	638	25·12	158
D Burntwood Hall	J. Dymond, Esq.	5	1	0	378	727	28·62	171
Doncaster (Wyndthorpe)	Viscountess Chetwynd....	5	0	11	13	633	24·91	...

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above Ground. SeaLevel		1915			
		in.	ft	in.	feet.	mm.	inches.	
WEST RIDING—(con.)								
7.—OUSE—Don—(con.)								
D Kirk Bramwith	H. A. Brundell, Esq. C.E.	5	1	0	17	625	24·62	153
D Hemsworth Hall	Mr. E. T. Bendall	5	1	0	250	645	25·41	150
D „ Collieries	C. P. Finn, Esq.	5	1	3	246	609	23·97	158
Badsworth Grange	Miss C. Heywood-Jones... ..	5	0	8	350	608	23·95	...
D Ackworth School	E. Priestman, Esq.	8	1	0	125	635	24·99	171
D „ (Hillthorpe)	Mrs. F. Hatchard	5	1	5	175	606	23·87	149
D „ (Nostell Priory)	Mr. T. L. Allison	5	4	0	200	684	26·95	...
D Stapleton Gardens	Mr. W. H. Dobson	5	1	6	50	565	22·23	145
†Goole (Swinefleet)	Mr. G. Harrison	5	5	6	10	714	28·13	...
† „	A. W. Wright, Esq.	5	2	0	18	730	28·74	...
8.—OUSE—Aire—Calder. 361 sq. mi.								
D†Holmbridge (Yateholme Res.) ...	J. C. Barrowclough, Esq. C.E.	5	1	0	...	1573	61·92	204
D† „ („ Farm) ...	„ „ „ „	5	1	0	861	1462	57·54	205
† „ (Holme Styes Res.)	Mr. B. T. Woodcock	7	2	0	830	1080	42·50	...
† „ (Boshaw Whams Res.)	„ „ „ „	7	2	0	930	1275	50·20	...
† „ (Bilberry Reservoir)	„ „ „ „	7	2	0	820	1369	53·90	...
†Meltham (Harden Moss)	J. W. Armitage, Esq., C.E.	8	1	2	1212	1188	46·77	...
† „ („ „) <i>new g.</i>	„ „ „ „	8	1	0	1212	1192	46·91	...
†Wessenden Head	„ „ „ „	8	1	0	1270	1188	46·78	...
† „ (Hollin Bank Moss) ...	„ „ „ „	8	1	0	1360	934	36·79?	...
† „ Old Reservoir	„ „ „ „	8	1	0	940	1193	46·96	...
† „ (Butterley Moss)	„ „ „ „	8	1	0	1110	1174	46·22	...
† „ (Bobus)	„ „ „ „	8	1	0	1200	1051	41·39	...
†Meltham (Brow Grains)	„ „ „ „	8	1	0	900	1148	45·18	...
„ (Royd Edge) <i>Glaisher g.</i>	C. L. Brook, Esq.	8	1	0	585	1286	50·62	...
„ („ „) <i>M. O. g.</i>	„ „ „ „	8	1	0	585	1272	50·09	...
D „ (Harewood Lodge)	„ „ „ „	8	1	0	514	1163	45·78	183
† „ Grange	J. W. Armitage, Esq., C.E.	8	1	2	850	1106	43·53	...
†Marsden (Deer Hill)	„ „ „ „	8	1	0	1149	1036	40·80	...
† „ („ „) <i>new g.</i>	„ „ „ „	8	1	0	1149	1061	41·78	...
Wakefield (Woolley Park Gardns.)	Mr. T. Wells	5	1	0	400	708	27·88	...
D†Slaithwaite (Blackmoorfoot)	J. W. Armitage, Esq., C.E.	8	1	0	800	1136	44·71	225
D „ (Inglewood)	J. Woodhead, Esq.	5	1	0	546	908	35·74	191
D Huddersfield (Carr End, Dalton)	J. W. Robson, Esq.	8	1	0	350	868	34·19	166
„ (Bank Field, Golcar)	J. R. Sykes, Esq.	5	1	0	400	994	39·15	166
D „ (Cemetery)	Mr. J. Firth	8	1	0	410	888	34·96	169
D†Rishworth Moor (Gt. Walden Edge)	C. Clemesha Smith Esq., C.E.	5	0	10	1135	1147	45·17	194
D „ (Stott Hall)	„ „ „ „	5	1	0	935	1033	40·67	212
D† „ (Ringstone Res.)	„ „ „ „	5	1	0	990	1080	42·53	180
„ Moor (Greystones) ...	„ „ „ „	5	1	0	1175	1163	45·77	...
Soyland Moor (Summit)	„ „ „ „	5	1	0	1290	1116	43·95	...
D „ „ (Baitings Gate) ...	„ „ „ „	5	1	0	935	1275	50·18	211
„ „ (Manshead)	„ „ „ „	5	1	0	1240	1125	44·30	...
D Horbury (Sewage Works)	W. Sugars, Esq., C.E.	8	0	6	93	697	27·43	174
D „ (Durkar)	H. J. Wells, Esq.	5	1	0	140	679	26·72	153
„ (Highfields)	J. H. Green, Esq.	5	1	0	226	744	29·31	...
D „ (Addingford Hospital)	J. H. Horsfall, Esq.	8	2	0	200	712	28·03	169
D Mirfield (Cote Wall)	J. Watson-Kaye, Esq.	8	1	2	200	1086	42·75	180
D Wakefield	Dr. H. Maclean Wilson...	8	1	0	174	655	25·79	160

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above Ground. Sea Level			1915		
			in.	ft.	in.	feet.	mm.		inches.
WEST RIDING—(con.)								
8.—OUSE—Aire—Calder—(con.)								
Wakefield (Clarence Park)	C. Clemesha Smith Esq., C.E.	5	1	0	124	707	27·82	160
† „ (Field Head Reservoir)	„ „ „ „	5	1	0	250	599	23·58	...
Elland	P. H. Whitwam, Esq.	8	1	0	307	893	35·14	...
Sowerby Bridge (Brockwell, Triangle)	Mrs. MacDougall Rawson	8	1	0	500	1110	43·68	...
„ „ (Millhouse) .....	„ „ „ „	...	...	...	...	1109	43·67	184
† „ „ (Haugh End) No. 4	J. Selwyn Rawson, Esq.	5	0	8	450	1098	43·23	190
Walsden (Ramsden Reservoir) ...	F. H. Brunt, Esq., C.E.	8	1	0	993	1312	51·66	170
„ „ („ Hill)	„ „ „ „	5	1	0	1326	1280	50·40	...
„ „	J. P. Cockcroft, Esq.	5	1	0	550	1342	52·85	206
Todmorden (Fielden Hospital) ...	Mr. F. Rogers	5	1	0	650	1036	40·80	167
„ „ (Sourhall Hospital) ..	„ „ „ „	5	1	0	1020	1352	53·24	178
Halifax (Hall Ings, S. Otram) ..	Rev. G. E. Aspinall	5	0	7	750	728	28·66	185
† Sowerby Bridge (Thorpe) No. 1 M	J. Selwyn Rawson, Esq.	8	0	8	345	1140	44·90	...
† „ „ („) No. 2 ...	„ „ „ „	5	0	8	345	1166	45·91	183
† Halifax (Public Library)	E. Green, Esq.	8	1	0	625	912	35·90	175
Batley (Staincliffe Reservoir) ...	J. C. Barrowclough Esq. C.E.	5	1	0	492	770	30·30	153
„ „ (Woodwell Dépôt)	O. J. Kirby, Esq., C.E.	8	1	0	301	798	31·40	157
† Ardsley Reservoir	No. 1 C. Clemesha Smith, Esq. C.E.	5	1	2	395	697	27·44	165
„ „ „ „ No. 2	„ „ „ „	5	1	2	326	715	28·15	165
† „ „ (Jaw Hill Filters)	„ „ „ „	5	1	0	315	678	26·70	146
Halifax W.W. (Albert)	R. J. Hartley, Esq., C.E.	5	1	0	795	908	35·74	...
„ „ (Gibbet)	„ „ „ „	5	3	9	568	939	36·97	...
„ „ (Ramsden Wood)	„ „ „ „	8	1	2	816	873	34·38	...
Hebden Bridge (Falling Royd) ..	A. R. Crossley, Esq.	4	1	0	479	1185	46·64	187
„ „ (Summerfield) ...	J. Hoyle, Esq.	5	1	0	800	1084	42·68	201
Halifax W.W. (Castle Carr Lodge)	R. J. Hartley, Esq., C.E.	5	0	6	1060	1005	39·58	...
„ „ (Midgley Moor) M	„ „ „ „	8	0	9	1350	1041	41·00	...
„ „ (Warley Moor) M	„ „ „ „	8	1	2	1325	1025	40·35	...
„ „ (Ogden)	M „ „ „	5	0	10	990	1041	40·97	...
„ „ (Ovenden Moor) M	„ „ „ „	8	0	9	1375	1117	43·99	...
„ „ (Widdop)	M „ „ „	5	1	3	1050	1068	42·04	...
„ „ (Walshaw Dean Lodge)	„ „ „ „	5	1	0	1040	1145	45·09	...
„ „ („ „) ... M	„ „ „ „	8	1	0	1380	1117	43·99	...
9.—OUSE—Aire. 504 sq. mi.								
Pontefract (Tanshelf Drive)	T. K. Heseltine, Esq.	5	1	0	180	598	23·56	...
Pudsey (Fulneck)	Miss E. C. Lawford	5	1	0	490	833	32·81	...
Selby (Brayton W.W.)	Bruce McG. Gray, Esq. C.E.	...	...	...	...	525	20·66	153
Garforth (Manor Farm)	Prof. R. S. Seton	8	1	2	194	641	25·22	171
Bradford (Grange Road, Horton)	Mr. A. E. Chilton	5	3	0	450	963	37·91	189
„ „ (Queensbury)	R. J. Foster, Esq.	8	2	2	1050	903	35·54	183
„ „ (Brayshaw Reservoir) ..	J. Watson, Esq., C.E.	5	1	0	982	876	34·50	158
„ „ (Lister Park)	Mr. H. Lander	8	1	0	440	932	36·71	167
„ „ (Thornton Moor Filters)	J. Watson, Esq., C.E.	5	1	0	1218	1118	44·02	243
„ „ (Stubden Res.)	A „ „ „ „	8	1	0	1075	1158	45·57	197
„ „ („ „)	B „ „ „ „	8	1	0	1075	1137	44·77	197
„ „ („ „)	„ „ „ „	5	1	0	1071	1106	43·56	196
„ „ (Nan Scar, Oxenhope) M	„ „ „ „	5	1	0	1101	1157	45·56	...
„ „ (Stairs Top, „) M	„ „ „ „	5	1	0	1401	994	39·12	...

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ≥ 0.1 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
WEST RIDING—(con.)								
9.—OUSE—Aire—(con.)								
Bradford (Leeming Reservoir) M	J. Watson, Esq., C.E. ...	5	1	0	850	856	33.72	191
„ (Doe Park Reservoir) ...	„ „ „ ...	8	1	0	810	1144	45.03	191
„ („ „ „) ...	„ „ „ „ ...	5	1	0	811	1092	43.01	191
„ (Leeshaw Res.) M	„ „ „ „ ...	5	1	0	875	1192	46.95	...
„ (Chellow Dean Res.) ...	„ „ „ „ ...	5	1	0	645	983	38.69	189
„ („ Heights Res.) ...	„ „ „ „ ...	5	1	0	848	973	38.29	195
„ (Hewenden Res.) <i>old g.</i>	„ „ „ „ ...	5	1	0	700	1100	43.29	180
„ („ „ „) <i>new g.</i>	„ „ „ „ ...	5	1	0	701	1065	41.93	179
„ (Heaton Reservoir) ...	„ „ „ „ ...	8	1	0	530	936	36.87	166
„ („ „ „) ...	„ „ „ „ ...	5	1	0	531	906	35.68	166
Leeds (Wortley Reservoir)	C. G. Henzell, Esq., C.E.	8	0	9	307	780	30.70	169
„ (Knoctrop)	„ „ „ „	8	0	9	72	601	23.67	...
„ (Holbeck W.W. Depot)...	„ „ „ „	8	0	9	93	692	27.26	189
„ (Great George Street).....	„ „ „ „	5	1	2	180	659	25.93	173
„ (Museum).....	H. Crowther, Esq.	10	46	0	177	674	26.53	141
„ (Woodhouse Moor)	C. G. Henzell, Esq., C.E.	8	0	9	307	724	28.52	169
„ (Weetwood Reservoir) No.1	„ „ „ „	8	0	9	328	727	28.61	181
„ („ „ „) No.2	„ „ „ „	8	0	9	328	727	28.63	181
„ („ „ „)	Frank Gott, Esq.	5	0	10	300	710	27.97	196
„ (Gledhow Grove).....	F. J. Kitson, Esq.	5	2	0	290	715	28.14	...
„ (Allerton Hill)	T. Harding Churton, Esq.	5	0	7	418	731	28.79	...
Shipley (Cragg End)	Leeds & L'pool Canal Co.	8	1	0	304	857	33.74	...
„ (Glenholme)	M. E. Burton, Esq.	8	0	9	370	878	34.57	187
„ (Harbour Lodge)	M. R. Barnett, Esq., C.E.	8	1	0	1187	1215	47.84	197
„ (Lower Laithe Res.) ...	„ „ „ „	5	0	10	772	1145	45.09	203
„ („ „ „ „) (R)	„ „ „ „	6	1	7	772	1154	45.44	202
„ (Oakworth Oldfield Filters).....	„ „ „ „	5	1	0	1008	1082	42.60	196
Bingley (Gilstead Filters)	J. Watson, Esq., C.E.	5	1	0	572	832	32.77	167
„ (Adel Lawns Wood Cemetery)...	Mr. S. R. Dyson.....	5	1	0	475	816	32.12	192
„ (Keighley The Knowle)	P. Clough, Esq.	5	1	0	385	889	35.00	170
„ (Victoria Park)	Mr. R. Butterfield.....	5	1	0	305	869	34.21	175
Bingley (East Morton)	Keighley News .....	...	...	...	...	840	33.09	...
„ (Sunnydale Reservoir)...	J. Watson, Esq., C.E.	5	1	0	825	891	35.08	203
Salterforth (Barnoldswick W.W.)	J. W. Thompson, Esq. ...	8	1	4	832	1003	39.50	...
„ (Earby Sewage Works).....	J. E. Aldersley, Esq.	8	1	0	425	920	36.20	170
„ (Silsden Bolton Road)	Mr. A. Elder	5	1	0	432	912	35.89	176
„ (Gill Grange)	J. Watson, Esq., C.E.	5	1	0	883	813	32.00	...
„ (Reservoir)	„ „ „ „	5	1	0	560	778	30.64	165
„ (Cringles Reservoir Site)...	„ „ „ „	5	1	0	760	812	31.99	165
„ (Elsack Moorside Farm)	J. W. Thompson, Esq. ...	5	0	7	835	946	37.24	178
„ (Carleton Beech Hill).....	W. Cyril Empson, Esq.	8	5	3	425	932	36.69	...
„ (Skipton Sewage Works)	F. Morrison, Esq.	8	0	9	315	875	34.46	163
„ (Town Hall)	A. E. W. Aldridge, Esq. ..	6	1	6	367	834	32.85	168
„ (Surveyor's Office)	„ „ „ „	8	1	3	670	834	32.85	190
„ (Hawthorne Cottage) ...	Leeds & L'pool Canal Co.	8	1	0	380	788	31.01	...
Gargrave (Banks Hill Bank Newton)	„ „ „ „	8	1	0	545	839	33.04	...
„ (Ray Bridge Hill)	„ „ „ „	8	0	10	459	847	33.34	...
Skipton (Embsay Moor Reservoir)	A. E. W. Aldridge, Esq.	8	1	3	670	840	33.07	190

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above		1915			
			Ground.	Sea Level				
		in.	ft.	in.	feet.	mm.	inches.	
WEST RIDING—(con.)								
9.—OUSE—Aire—(con.)								
Gargrave (Great Scarnber Hill)...	Leeds & L'pool Canal Co.	8	0	9	676	856	33·69	...
Winterburn (Long Hill)	" " "	8	0	9	705	911	35·85	...
" (Brown Hill)	" " "	8	1	0	961	945	37·21	...
† Malham Tarn	Mr. John Winskill	8	1	0	1296	1227	48·30	198
† " "	" " "	5	1	0	1296	1254	49·38	198
10.—OUSE—Wharfe. 408 sq. mi.								
D Aberford (Lotherton Hall) ... (R)	Mrs. Trench Gascoigne...	8	1	0	200	618	24·34	171
Barwick (Potterton Hall)	<i>Skyrack Courier</i>				250	645	25·40	...
D Saxton Vicarage	Rev. C. D. Ash	5	1	6	95	623	24·54	153
Adel (Eccup, South)	C. G. Henzell, Esq., C.E.	8	0	9	390	788	31·04	177
" (" East)	" " " "	8	0	9	375	849	33·43	176
Tadcaster (Oxton Hall)	Mr. J. Roberts				60	538	21·20	...
" (Grammar School) ..	S. Hurst, Esq.	5	0	9	50	608	23·94	...
Harewood (Arthington)	C. G. Henzell, Esq., C.E.	8	0	9	139	923	36·34	153
D " House	Countess of Harewood...	5	0	10	300	817	32·15	151
D Otley (Sewage Works)	C. F. Hodgson, Esq.	5	1	0	172	684	26·95	153
† Ilkley (Glen Rosa)	F. A. Aykroyd, Esq.	8	1	1	450	975	38·38	201
† " (St. James' Road)	Miss F. Brown	5	1	0	325	894	35·21	168
D " (Spence's Garden)	H. West, Esq.	5	1	0	314	894	35·20	188
Wetherby (The Vicarage)	Rev. C. A. Durrant				100	710	27·94	156
Leathley (Lindley Wood, S.) ...	C. G. Henzell, Esq., C.E.	8	0	9	312	799	31·47	204
" (" " N.) ...	" " " "	8	0	9	320	798	31·42	204
D Ilkley (March Gill Reservoir) ...	C. F. Hodgson, Esq.	5	0	9	665	898	35·35	155
† York (Mount Villas)	Mrs. Rowntree	5	1	0	70	722	28·43	205
† " (Cherry Hill)	Messrs. H. Richardson & Co.	5	1	6	50	641	25·25	171
† " (Museum Gardens)	O. Grabham, Esq., per M.O.	9	1	0	57	625	24·59	182
D " (The Retreat)	Dr. H. J. Mackenzie	5	1	0	74	642	25·26	183
" (Acomb Landing)	W. H. Humphreys, Esq. ...	5	1	0	40	613	24·12	152
Skipton (Counter Hill)	J. Watson, Esq., C.E.	5	1	0	951	799	31·45	...
" (Chelker Reservoir) ... M	" " " "	5	1	0	730	768	30·25	...
Fewston (Timble Ings)	C. G. Henzell, Esq., C.E.	8	0	9	912	830	32·67	195
" (")	" " " "	8	0	9	720	775	30·51	176
" (Swinsty, E.)	" " " "	8	0	9	460	844	33·23	196
" (" W.)	" " " "	8	0	9	425	856	33·72	196
" South	" " " "	8	0	9	525	907	35·71	191
" North	" " " "	8	0	9	525	869	34·22	191
" (Blubberhouses)	" " " "	8	0	9	575	874	34·39	186
Bolton Abbey Estate Office	A. Downs, Esq.	5	1	2	368	893	35·14	189
Barden Reservoir	J. Watson, Esq., C.E.	8	1	0	746	927	36·48	217
" "	" " " "	5	1	0	746	944	37·18	217
" " Upper	" " " "	5	1	0	1250	884	34·80	198
Burnsall (Thorpe Fell)	M " " " "	5	1	0	1661	877	34·54	...
" (Sandbed Beck)	M " " " "	5	1	0	676	889	34·99	...
D " Rectory	Rev. W. J. Stavert	8	4	7	503	1005	39·55	192
Grimwith Reservoir	J. Watson, Esq., C.E.	8	1	0	890	1060	41·75	188
" "	" " " "	5	1	0	893	1040	40·94	188
Hawkswick	M Harold Wager, Esq. F.R.S.	5	1	6	650	1115	43·90	...
† Arncliffe Vicarage	Rev. Canon W. A. Shuffrey	5	1	6	732	1341	52·81	193
D Wharfedale (Oughtershaw Hall)	Miss Woodd	5	1	6	1175	1519	59·81	159

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground. SeaLevel			1915		
		in.	ft.	in.	feet.	mm.	inches.	
WEST RIDING—(con.)								
11.—OUSE—Nidd. 254 sq. mi.								
Spofforth (Sewage Works)	C. E. Rivers, Esq., C.E....	5	1	0	184	694	27.34	178
Wetherby (Ribston Hall)	Mr. W. Simpson.....	5	1	2	130	702	27.63	...
Harrogate W.W. (Ling Cottage)	A. S. West, Esq., C.E....	5	1	0	740	704	27.70	...
„ „ (Broad Dubb) ..	„ „ „ ..	5	1	0	725	744	29.27	...
„ „ (Cobblers Cottage) M	„ „ „ ..	5	1	0	730	689	27.11	...
„ „ (Ten Acres Res.) ..	„ „ „ ..	8	1	6	620	732	28.84	171
„ „ (Scargill Res.) ...	„ „ „ ..	8	1	0	646	818	32.20	173
„ „ (Beaver Dyke Res.) ..	„ „ „ ..	8	0	11	575	813	32.01	173
„ „ (John o' Gaunts) M	„ „ „ ..	5	1	0	600	732	28.81	...
„ „ (Long Stoop) ... M	„ „ „ ..	5	1	0	700	755	29.73	...
„ „ (Knab's Moor) M	„ „ „ ..	5	1	0	700	714	28.10	...
„ „ (Harlow Moor Obsy.) ..	C. E. Rivers, Esq., C.E....	5	1	0	480	744	29.29	184
„ „ („ Hill Res.) ...	A. S. West, Esq., C.E....	8	1	0	589	704	27.70	163
„ „ (Irongate Bridge Res.) ..	„ „ „ ..	8	1	6	455	784	30.87	163
„ „ (The Stray)	Mr. G. W. Gledhill	5	1	0	380	744	29.28	175
„ „ (Park Parade)	„ „ „ ..	5	1	0	400	743	29.26	175
„ Goldsborough Hall	Mr. R. Goodall	5	1	0	118	726	28.58	158
„ Knaresborough (Water Tower) ..	A. S. West, Esq., C.E....	8	1	0	240	725	28.53	175
„ „ (Grammar School) ..	C. W. H. Greaves, Esq....	5	1	0	230	694	27.32	181
„ Harrogate (Bilton Sewage Works) ..	C. E. Rivers, Esq., C.E....	5	1	0	208	738	29.04	164
„ Birstwith (Swardcliffe)	Capt. C. S. Greenwood....	5	1	0	510	857	33.73	153
„ Ramsgill (Holme Ho. Gouthwaite) ..	J. Watson, Esq., C.E....	5	1	0	464	1024	40.30	162
„ „ (Raygill House)	„ „ „ ..	5	1	0	925	1064	41.87	157
„ „	„ „ „ ..	5	1	0	450	851	33.49	148
„ Nidderdale (High Riggs)	„ „ „ ..	5	1	0	1010	1101	43.35	147
„ „ (East Gill Head) ... M	„ „ „ ..	5	1	0	1710	1496	58.90	...
„ „ (Rain Stang)	„ „ „ ..	5	1	0	1470	1159	45.63	...
„ „ (New Houses)	„ „ „ ..	5	1	0	755	1192	46.92	...
„ „ (West Houses)	„ „ „ ..	5	1	0	1150	1167	45.96	170
12.—OUSE—Ure. 110 sq. mi.								
† Dallow Moor (Harper Hill)	C. G. Henzell, Esq., C.E. .	5	0	9	858	810	31.89	176
„ Ripon (Studley Royal Gardens) ..	O. H. Wade, Esq.	5	1	6	250	840	33.08	188
„ „ (The Red House)	F. D. Wise, Esq.	5	1	0	120	761	29.97	152
† Kirkby Malzeard (Drovers' Inn) ..	C. G. Henzell, Esq., C.E.	8	0	9	576	941	37.04	196
† „ „ (Hawset)	„ „ „ ..	8	0	9	820	940	36.99	191
„ „ „ (Hambleton Hill) ..	„ „ „ ..	8	0	9	1106	916	36.05	...
† „ „ „ (Bagwith Brae) ..	„ „ „ ..	5	0	9	703	925	36.42	189
„ „ „ (Stone & Ears Wham) ..	„ „ „ ..	8	0	9	1118	1005	39.58	...
„ Ripon (High Bank, Mickley) ...	Miss Harrison	5	1	6	225	744	29.28	168
EAST RIDING. (Area, 1176 sq. mi.)								
1.—OUSE—Left Bank Tributaries. 82 sq. mi.								
Deighton Grove [York]	Miss M. L. Whitehead....	5	2	0	47	566	22.28	149
„ Heslington [„]	Hon. L. de Yarburgh-Bateson..	8	0	7	35	679	26.73	186
„ Dunnington Hall [„]	Miss Hildyard	8	1	2	110	660	25.99	188
2.—OUSE—Derwent. 248 sq. mi.								
„ Elvington (The Glennie)	Dr. C. A. Lower.....	5	1	3	35	650	25.58	195
„ Warter	Mrs. J. Coxon	5	1	10	230	792	31.16	186

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
EAST RIDING—(con.)								
2.—OUSE—Derwent—(con.)								
D Birdsall Gardens	Mr. J. Anderson.....	5	1	3	303	792	31·18	193
D Malton (The Leat House).....	W. R. Innes Hopkins, Esq.....	5	0	10	60	680	26·76	184
D Rillington (Scampston Hall)	Mr. F. C. Puddle	5	1	6	102	724	28·52	189
Hunmanby (Holly Bank).....	Miss Ackland.....	5	1	2	...	699	27·51	...
3.—HUMBER—Left Bank Tributaries. 675 sq. mi.								
Patrington (Spurn Head)	Meteorological Office	8	1	0	27	664	26·17	188
"	Miss H. Kirman.....	5	2	6	46	691	27·21	...
D Hull (Pearson Park).....	H. B. Witty, Esq.....	5	0	10	12	708	27·87	191
D " (Springhead).....	C. B. Newton, Esq., C.E.....	5	1	0	16	707	27·84	227
D Cottingham (Water Works)	"	5	1	1	26	668	26·29	180
D Holme-upon-Spalding-Moor.....	C. J. Pybus, Esq.	8	1	0	35	631	24·84	160
Beverley (East Riding Asylum) ..	Dr. E. S. Simpson ...	5	1	0	175	756	29·75	184
" (New Walk)	W. Evans, Esq., C.E.....	5	3	0	38	749	29·49	212
" (Hull Bridge).....	"	5	2	6	11	703	27·68	170
D Market Weighton (Dalton Holme) ..	Mr. J. P. Jobling	8	6	0	150	730	28·73	191
" (Cleaving Grange)	George Cobb, Esq.	5	1	6	150	705	27·74	197
Brandesburton (Hempholm Lock) ..	W. Evans, Esq., C.E.....	5	2	6	11	739	29·09	199
Driffield (York Road)	W. F. Lovel, Esq.	5	1	0	76	759	29·87	144
" (Highfield)	Mr. R. Marson	5	1	0	80	757	29·82	...
D Lowthorpe (The Elms)	F. K. Hawes, Esq.....	5	1	0	63	784	30·86	196
4.—EAST COAST STREAMS. 171 sq. mi.								
D Hornsea (Public Gardens)	F. Lord, Esq.....	8	1	0	40	708	27·89	205
D Bridlington.....	S. R. Crofts, Esq.	5	1	0	59	755	29·72	180
D Helperthorpe (West Farm)	H. D. Birdsall, Esq.	5	1	0	250	842	33·14	195
D Filey (Deepdene)	A. V. Machin, Esq.	5	0	8	44	729	28·71	200
NORTH RIDING. (Area, 2155 sq. mi.)								
1.—OUSE—Ure. 273 sq. mi.								
† Masham Moor (Somerside)	C. G. Henzell, Esq., C.E.....	5	0	9	928	1025	40·35	167
" (Autherlands)	"	5	0	9	1237	1076	42·37	...
† " (High Sour Mire)	"	5	0	9	884	864	34·03	...
" (Spruce Gill).....	"	5	0	9	1187	1142	44·98	...
" (Leighton Res.).....	"	5	0	9	634	995	39·16	193
" (Thorney Grange).....	"	5	0	9	1175	1165	45·85	...
" (Bracken Hill)	"	5	0	9	1450	1073	42·26	...
" (Towler Hill).....	"	8	0	9	820	998	39·30	185
" (Spruce Gill, East)	"	5	0	9	915	1015	39·96	...
" (" , North)	"	5	0	9	883	974	38·33	...
† " (Breary Bank)	"	5	0	9	600	1001	39·40	187
" (Healey).....	"	5	0	9	542	957	37·69	187
† " (Low Houses).....	"	5	0	9	693	1035	40·74	200
" (Black Brunt)	"	5	0	9	1160	1120	44·08	...
" (Brown Beck)	"	5	0	9	1150	1039	40·91	...
D " (Roundhill Res.).....	A. S. West, Esq., C.E.....	8	1	0	743	974	38·34	181
D Clifton Castle Gardens	Lady Cowell	5	0	10	380	808	31·83	149
Bedale (Charlcot)	Yorkshire Post	5	1	0	329	762	30·01	...
Middleham (Cotescue)	Alfred Rowntree, Esq....	4	1	0	500	730	28·75?	...
D " (Castle Hill)	Col. P. H. Hammond.....	5	1	0	447	849	33·44	179

DIVISION IX.—YORKSHIRE—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above Ground. Sea Level.			1915		
		in.	ft.	in.	feet.	mm.	inches.	
NORTH RIDING—(con.)								
1.—OUSE—Ure—(con.)								
D Middleham (The Deanery)	Rev. H. G. Topham	5	1	0	430	840	33·09	165
D West Witton (Ivy House)	J. B. Espiner, Esq.	5	1	0	606	888	34·96	202
D Leyburn (Bolton Hall)	Mr. F. Scrivener	8	1	0	420	847	33·33	190
Hawes (The Stone House)	H. Arden Crallan, Esq....	5	1	6	845	1108	43·62	168
2.—OUSE—Swale. 569 sq. mi.								
D Husthwaite Vicarage	Rev. G. Gill	5	1	0	282	676	26·61	164
Sessay Rectory	Rev. F. Payne Gallwey...	5	1	0	113	609	23·96	153
D Dalton Parsonage	Rev. G. H. Chilman	5	1	0	79	577	22·71	161
D Carlton Husthwaite	W. R. Bagley, Esq.	5	1	0	190	652	25·68	218
D Coxwold (The Old Hall)	H. Geipel, Esq.	5	1	6	260	762	30·00	150
D Baldersby (Baldersby Park) ...	Mr. J. E. Hathaway	10	2	0	100	628	24·73	173
Carlton Miniott (Carlton Grange)	Major W. Pollard	5	1	0	93	616	24·27	142
D Thirsk (Spital Hill)	C. H. Gill, Esq.	5	1	0	117	643	25·30	183
„ (Sowerby)	William Brown, Esq.	5	1	0	110	671	26·42	...
D „ (Brynkellhow)	A. B. Hall, Esq.	8	1	0	115	689	27·14	181
D „ (The Hall)	Reginald Bell, Esq.	5	1	10	121	612	24·11	174
D Sutton (Brook House)	F. R. Hansell, Esq.	5	1	0	246	659	25·95	164
D „ Hall Gardens	Mr. J. H. Clements	5	1	0	245	742	29·21	205
D Thirsk (Stoneybrough)	T. J. Foggitt, Esq.	5	1	2	122	646	25·44	179
Felixkirk (Thirlby)	A. J. Walker, Esq.	5	1	0	339	722	28·41	...
D „ (Mount St. John)	„ „ „	5	1	0	523	662	26·05	189
D „ { „ „ „ }	„ „ „	5	1	10	542	692	27·25	191
„ { „ „ „ }	„ „ „	5	1	10	542	669	26·33	...
D Bolthby (Ravensthorpe Manor) ...	F. E. Walker, Esq.	5	1	7	661	741	29·16	193
„ West	A. J. Walker, Esq.	5	1	0	484	756	29·75	...
„ East	„ „ „	5	1	0	480	788	31·04	...
„ (Cliff Head)..... No. 2 M	„ „ „	5	1	4	772	731	28·78	...
„ (High Paradise) M	„ „ „	5	1	3	1144	801	31·54	...
D Kirkby Knowle Rectory	Rev. J. C. Hanson	5	1	0	436	722	28·43	187
D „ „ (Newbuilding) ..	G. S. Thompson, Esq. . .	8	1	3	611	716	28·18	168
D Bedale (Burneston Vicarage) ...	Rev. Canon J. T. Hartley	5	1	0	110	726	28·58	169
„ (Thorpe Perrow)	Mr. W. Pattison	5	1	0	140	649	25·56	162
Maunby Hall	Maj. A. Hill-Walker.....	5	1	0	90	570	22·42	...
Bedale (Park House)	Miss M. Greenwood ...	5	1	1	180	714	28·13	210
Newby Wiske	H. Rutson, Esq.	5	0	10	105	658	25·92	145
D Thornton-le-Moor	Lt.-Col. R. W. Peckitt...	5	1	0	136	666	26·24	174
D „ „ „ (Pasture Ho.)	Col. B. A. Satterthwaite...	5	1	0	225	651	25·64	179
Kepwick Vicarage	Rev. T. E. Parkinson ...	5	1	0	530	791	31·14	181
Scruton Hall	Rev. A. T. Coore	5	1	6	110	692	27·23	180
Northallerton (Brompton)	J. P. Yeoman, Esq.	5	0	6	160	588	23·14	...
D „ (Osmotherley) ..	T. Yeoman, Esq.	8	0	8	660	750	29·54	170
D „ (Harlsey Hall) ...	J. Constantine, Esq.	5	1	0	370	648	25·53	160
D Rounton Grange	Mr. J. Hanagan	8	1	0	249	669	26·33	202
D Richmond (Sedbury Park)	G. Gilpin Brown, Esq....	5	1	0	450	759	29·87	185
D „ (Gilling West)	G. Roper, Esq.	5	1	3	303	872	34·34	155
Middleton Tyas	J. F. B. Baker, Esq.	5	0	10	380	682	26·86	...
3.—OUSE—Left Bank Tributaries. 153 sq. mi.								
Haxby (Moorlands)	E. G. Tew, Esq.	8	0	8	58	688	27·07	162
Alne	E. N. Weighell, Esq.	5	0	10	80	691	27·21	163

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0·1 in. or more
		Diam. in.	Height Above Ground.		Sea Level	1915		
			ft.	in.	feet.	mm.	inches.	
NORTH RIDING—(con.)								
4.—OUSE—Derwent. 509 sq. mi.								
Huttons Ambo (Minster Hill) ...	J. W. Procter, Esq.	5	1	3	75	606	23·86	...
Terrington Hall.....	Mr. T. Suffield	5	1	5	300	673	26·49	212
" (The Cliff)	Sir Alfred Lascelles	5	0	10	333	737	29·01	197
Malton (Broughton Rise).....	C. C. Laverack, Esq.	5	1	0	164	683	26·88	177
Hovingham Hall	Sir W. H. A. Worsley, Bt.	5	0	6	120	776	30·57	191
Ampleforth Abbey	Rev. H. de Normanville, O.S.B.	8	1	0	351	739	29·11	188
Helmsley (Duncombe Park Gdns.) ..	Mr. D. Williams	5	3	0	176	739	29·10	149
Thornton-le-Dale (Beckside) ...	Miss E. M. Priestman.....	5	0	8	125	749	29·50	197
Pickering (Hungate Hall).....	Dr. J. L. Kirk	5	1	0	90	779	30·66	230
Seamer (Irtton Pumping Station)	W. Millhouse, Esq. C.E.	8	1	0	94	968	38·13	223
Scarborough (Osgodby).....	" " "	8	1	0	166	779	30·67	159
East Ayton Lodge.....	Rev. R. Walker.....	5	0	6	175	923	36·34	210
Hawnby Rectory	Rev. W. Hughes	5	1	0	497	949	37·35	205
Bilsdale Priory	Rev. J. Powell Parry.....	5	0	6	638	964	37·95	210
5.—ESK & C. 278 sq. mi.								
Scarborough	W. W. Larkin, Esq. per MO ..	5	1	0	56	716	28·20	166
" (Scalby Road) ...	Rev. J. G. B. Knight.....	5	0	9	...	641	25·22	191
" (")	Mrs. J. W. Rowntree.....	5	0	11	300	997	39·25	186
" (" St. Philips)	Rev. W. E. Stewart	5	1	0	130	855	33·67	201
Glaidsdale (The Gables Gardens)..	Mr. H. Hope	5	0	9	400	1069	42·08	197
Fylingdales Vicarage	Rev. R. Jermyn Cooper... ..	6	0	10	125	770	30·31	...
Sleights (Brook Park)	E. Isle Hubbard, Esq.....	5	1	0	80	833	32·79	197
Whitby (Park Hall, Aislaby) ...	Rev. J. H. Richardson.....	5	1	0	500	863	33·99	216
" (Ocean Road)	T. W. Parkinson, Esq....	8	1	0	125	731	28·77	202
" (Mulgrave Castle)	Mr. J. Corbett	5	1	0	410	868	34·17	222
Guisborough (Lockwood Beck Res.)	W. M. P'Anson, Esq., C.E.	8	1	0	632	942	37·09	200
" " " " "M	" " " " " " " " " " " " " "	8	1	0	632	922	36·31	...
Skelton-in-Cleveland Rectory ...	Rev. H. Mackworth Drake ..	5	1	0	300	743	29·24	188
Saltburn-by-the-Sea (Skelton Castle)	W. H. A. Wharton, Esq....	5	0	9	272	756	29·78	177
6.—TEES. 373 sq. mi.								
Ingleby Manor	Lord De L'Isle	5	0	11	460	892	35·11	191
" Greenhow Vicarage	Rev. M. A. Horsfall	5	1	6	420	864	34·02	183
" " (The School House)	P. Huntington, Esq.....	5	1	0	430	864	34·00	199
Croft (Dalton-on-Tees).....	Mr. W. Wrather	8	2	0	170	635	25·00	177
Yarm (Kirklevington Hall).....	A. J. Walker, Esq.	8	0	4	130	642	25·27	...
Hutton Magna Vicarage	Rev. A. W. M. Close.....	5	0	4	450	825	32·48	160
Kildale Hall	Major R. B. Turton	5	1	2	600	951	37·45	213
Stokesley (Seamer).....	J. Pounder, Esq.	5	1	4	315	676	26·63	...
Middlesbrough (Ormesby)	W. Stewart Tailyour, Esq.	5	1	0	100	720	28·33	201
" (Albert Park) ...	J. M. Parnaby, Esq.	8	1	0	30	678	26·71	173
Baldersdale (Blackton Reservoir)	Hugh Wilson, Esq.	5	1	0	935	831	32·70	...
" (Balderhead) M	" " " " " " " " " " " " " "	5	1	0	1360	993	39·10	...
" (Hury Reservoir) ..	" " " " " " " " " " " " " "	5	1	0	866	680	26·79	174
Lunedale (Lunehead)..... M	" " " " " " " " " " " " " "	5	1	0	1450	1090	42·90	...
" (Selset) M	" " " " " " " " " " " " " "	5	1	0	924	841	33·10	...
" (Grassholme Reservoir)	" " " " " " " " " " " " " "	5	1	0	936	834	32·83	160
† Mickleton (Lime Kiln Pasture) M	Mr. J. Harvey	8	1	0	1175	754	29·70	...

DIVISION X.—NORTHERN COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0·1 in. or more
		Diam. in.	Height Above Ground, SeaLevel			1915		
		in.	ft.	in.	feet	mm.	inches.	
DURHAM. (Area, 1011 sq. mi.)								
1.—TEES & C. 396 sq. mi.								
Darlington (Public Park).....	North Star	5	1	0	150	645	25·39	169
D " (Cleveland Parade)..	W. W. Willmott, Esq. .	5	1	3	160	624	24·55	177
D " (Hummersknott) ...	Mr. J. Short	5	1	0	200	638	25·10	...
Piercebridge (Carlbury Hall) ...	J. H. Pease, Esq.	5	1	0	235	682	26·83	...
D " " " " " " " " " "	" " " " " " " " " "	5	1	0	222	669	26·35	...
D†Barnard Castle (County School)..	R. C. Hitchcock, Esq.....	5	1	6	540	665	26·18	165
D Stockton (Ropner Park)	W. A. Jenkins, Esq.	5	1	9	61	610	24·01	166
D Sedgefield (Hardwick Hall).....	Viscountess Boyne.....	5	0	3	400	779	30·68	204
D Hurworth Burn (Crookfoot Res.)	A. W. Branson, Esq., C.E.	10	1	6	293	710	27·95	204
D West Hartlepool (Lynn Street)..	Mr. H. Lamb.....	5	65	0	84	574	22·60	168
D " " (Water Works)	A. W. Branson, Esq., C.E.	10	1	0	35	630	24·80	...
D Hurworth Burn Reservoir	" " " " " " " " " "	10	1	0	357	683	26·89	187
D Hartlepool (Hart Reservoir).....	" " " " " " " " " "	10	1	0	172	640	25·21	183
Seaham (Dalton Pumping Sta.)..	A. B. E. Blackburn, Esq.	8	1	0	345	713	28·07	198
2.—WEAR. 464 sq. mi.								
Wolsingham (Dryderdale)	Mr. G. Cranston.....	5	1	0	700	753	29·63	172
D Willington Rectory	Rev. T. Urmson	5	1	0	285	688	27·07	178
D Wolsingham (Croft House)	H. Stobbs, Esq.	5	1	0	464	792	31·17	165
D Stanhope (Parson Byer's Quarry)	Messrs. Bell, Bros., Ltd....	5	6	8	846	808	31·82	147
D Wearhead Station	Mr. R. Rust	5	0	6	1104	1047	41·22	157
Durham Observatory.....	FCH Carpenter Esq. per mo	12	4	0	336	658	25·98	191
D Ushaw (St. Cuthbert's College)..	Rev. T. L. Baines	5	0	9	596	805	31·71	204
Pittington (Elemore Hall)	Miss Baker Baker	8	0	6	323	757	29·80	...
D Weardale W.W. (Tunstall Res.)	R. Askwith, Esq., C.E....	8	1	2	724	772	30·40	169
D " " (Waskerley 6)	" " " " " " " " " "	8	4	2	1229	637	25·09	...
D " " (" 3)	" " " " " " " " " "	8	4	6	1433	715	28·16	...
D " " (" 4)	" " " " " " " " " "	8	4	7	1321	642	25·29	...
D " " (" 5)	" " " " " " " " " "	8	4	2	1244	715	28·15	...
D " " (")	" " " " " " " " " "	8	0	11	1179	800	31·50	198
D " " (" 2)	" " " " " " " " " "	8	4	5	1367	679	26·75	...
D " " (" 1)	" " " " " " " " " "	8	4	4	1317	666	26·22	...
Fence Houses (Chilton Moor) ...	V. W. Corbett, Esq.	5	1	4	186	593	23·36	142
Chester-le-Street (Biddick Hall)	Mr. A. Bentley	5	1	0	150	711	28·00	176
Ryhope Pumping Station	A.B.E.Blackburn, Esq....	8	1	1	228	645	25·38	190
D†Sunderland (W.Hendon Ho.) No.5	T. W. Backhouse, Esq....	5	1	0	130	662	26·08	198
D " " (" " " " " " " " " ") No.6	" " " " " " " " " "	5	1	0	130	664	26·15	198
D " " (Mowbray Park)	H. Renney, Esq., M.D....	5	1	0	105	647	25·48	165
D " " (Claxheugh Grove) ...	J. P. Cornett, Esq.....	5	2	6	90	685	26·96	207
D " " (The Cedars)	W. F. Vint, Esq.	5	1	0	115	623	24·54	168
D " " (Southwick Cemetery)	Mr. J. R. Hodgson.....	8	1	0	171	721	28·40	183
3.—TYNE, LOWER. 151 sq. mi.								
D Weardale W.W. (Smiddy Shaw)	R. Askwith, Esq., C.E....	8	1	3	1128	805	31·69	200
Consett Park Farm	J. D. Brown, Esq.	5	4	3	641	702	27·63	158
D Rowlands Gill (Armstrong College)	J. F. Annand, Esq.	8	1	0	446	709	27·93	183
D†Washington (Usworth School)...	H. W. Walbank, Esq.....	5	1	0	284	608	23·94	208
Gateshead (Low Fell)	Newcastle Chronicle	5	1	0	...	724	28·50	...
Sunderland (Cleaton Pumpg.Sta.)	A. B. E. Blackburn, Esq.	8	1	0	216	676	26·60	219
D Ryton-on-Tyne (Balgonie House)	J. W. Smith, Esq., M.D.	5	1	6	258	648	25·50	158
D South Shields (Bent's Park).....	Dr. D. M. Mathieson.....	5	1	0	36	641	25·25	195

DIVISION X.—NORTHERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
NORTHUMBERLAND. (Area, 2015 sq. mi.)								
1.—EDEN. 20 sq. mi.								
2.—SOUTH TYNE. 232 sq. mi.								
D Haltwhistle (Bellister Castle) ...	J. M. Clark, Esq.	5	1	0	380	771	30·36	174
3.—TYNE, LOWER. 227 sq. mi.								
D Corbridge (Howden Dene)	J. H. Straker, Esq.	5	0	9	200	630	24·80	182
D „ (Monksholme)	H. Palmer, Esq.	5	1	0	127	631	24·83	170
D Hexham (St. Eilan's)	Mr. W. C. Oliver	5	1	0	250	624	24·57	168
D „ (Beaufront Castle)	Capt. J. H. Cuthbert, D.S.O.	8	1	0	400	623	24·52	162
Newcastle (Lit. and Phil. Soc.)..	H. Richardson, Esq.	8	55	0	160	643	25·32	...
„ (Westgate Street) ...	Newcastle Chronicle	8	30	0	148	626	24·64	...
„ (Northumberland Rd.) ..	N. H. Martin, Esq.	8	45	0	200	600	23·63	157
„ (Leazes Park)	W. J. Steele, Esq., C.E.	5	1	0	255	652	25·67	...
D „ (Town Moor)	D. C. Baldie, Esq.	5	2	0	201	670	26·37	203
D „ (Wellburn, Jesmond). ..	J. H. Holmes, Esq.	5	1	6	163	640	25·21	166
D Gosforth (Woodbine Road)	L. J. Nicholson, Esq.	5	...	...	...	666	26·22	171
D Tynemouth (Tyne Pier Works)..	R. F. Hindmarsh, Esq.	5	1	8	65	708	27·86	189
„ (Coastguard Station) ..	Meteorological Office	8	1	0	71	600	23·59	171
Whittle Dean (Newcastle W.W.)	A. L. Forster, Esq., C.E.	5	0	6	380	622	24·50	197
„ „ Filters(„ „)	„ „ „	5	1	1	353	654	25·75	188
4.—NORTH TYNE. 433 sq. mi.								
Humshaugh (Wester Hall)	Miss Gandy	5	1	3	268	630	24·79	...
N. Tyne (Green Crag) (Newcastle W.W.)	A. L. Forster, Esq., C.E.	5	1	6	896	619	24·36	...
Hallington Village („ „)	„ „ „	5	1	0	467	704	27·70	...
„ Reservoirs(„ „)	„ „ „	5	1	0	470	686	27·02	185
„ (Fawcett) („ „)	„ „ „	5	1	2	537	661	26·04	...
„ (Cheviot) („ „)	„ „ „	5	1	2	576	664	26·13	...
Gunnerton Burn (Campbill) („ „)	„ „ „	5	1	1	650	608	23·94	...
Colt Crag („ „)	„ „ „	5	1	0	654	557	21·93	176
D Bellingham (High Green Manor)	Sir C. Morrison-Bell, Bt.	5	1	0	849	789	31·05	226
D Otterburn Tower	Howard Pease, Esq.	5	0	11	550	728	28·67	160
D „ (Horsley Vicarage) ...	Miss M. Stephens	5	1	2	700	716	28·20	187
Redewater (Catcleugh)	A. L. Forster, Esq., C.E.	5	1	0	819	933	36·72	209
5.—COQUET & C. 840 sq. mi.								
Whittington (Newcastle W.W.)	A. L. Forster, Esq., C.E.	8	0	9	528	626	24·63	...
Burnside („ „)	„ „ „	5	0	9	419	591	23·26	...
Ryal Cottage („ „)	„ „ „	10	0	9	463	669	26·33	...
D Scots Gap (Wallington Gardens)	Mr. E. Keith	8	2	9	446	922	36·31?	194
† Morpeth	T. Matheson, Esq.	8	1	6	100	694	27·32	...
D† „ (Bothalhaugh Garden)..	Hon. & Rev. W. C. Ellis	5	1	10	35	718	28·25	213
† „ („ „) M	„ „ „	5	1	10	35	712	28·05	...
D† „ („ „ Lawn)....	„ „ „	5	1	10	137	712	28·02	214
† „ („ „) M	„ „ „	5	1	10	137	721	28·38	...
D „ (Longwitton Hall)	E. A. Perceval, Esq.	5	1	2	569	809	31·84	206
„ (Ashington)	W. Wilson, Esq.	5	1	0	110	650	25·60	185
„ (Cockle Park)	DBJohnstone-Wallace Esq	8	1	0	325	711	27·98	200
D† Font Res. (Tynemouth W.W.)..	J. W. McKerrow, Esq.	10	1	0	614	690	27·18	199
D† Acklington (Broomhill Colliery)	Broomhill Collieries, Ltd.	5	7	0	92	709	27·91	184
† Rothbury (Brinkburn Priory) ...	Mrs. Hugh Fenwick	8	1	2	257	788	31·02	...
D† „ (Cragside)	W. Bertram, Esq.	8	1	0	405	818	32·20	182
D Felton (Newton-on-the-Moor) ...	J. A. Charlton, Esq.	5	1	6	500	813	32·02	176

DIVISION X.—NORTHERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
NORTHUMBERLAND—(con.)								
5.—COQUET & C—(con.)								
Alnwick Castle	Mr. R. Kyle, <i>per</i> M.O.	5	0	4	210	829	32.55	210
D Howick Hall	Earl Grey, G.C.B., G.C.V.O.	8	0	10	120	769	30.26	191
Bamburgh	T. W. Little, Esq.	5	1	0	75	544	21.40	...
6.—TWEED. 262 sq. mi.								
D Glanton (Glanton Pyke Gardens)	Mr. J. Henderson	8	4	2	521	784	30.85	198
D Ilderton (Lilburn Tower)	A. B. Collingwood, Esq.	10	6	0	300	737	29.00	192
D „ („ Cottage)	N. D. Cowans, Esq.	5	1	0	340	767	30.18	207
Wooler (Victoria House)	Miss E. M. Dodds	5	1	0	176	703	27.67	...
„ (The Thirlings)	Col. J. M. W. Anderson... ..	5	1	6	...	772	30.39	...
D Pawston [Coldstream]	B. P. Selby, Esq.	5	1	0	327	712	28.03	176
Ford Castle Gardens	Mr. J. Jackson	5	3	0	220	697	27.44	164
D Berwick-on-Tweed (Church St.)	Lt.-Col. A. W. Pennyman ..	5	1	0	95	636	25.05	185
7.—INSULAR. 1 sq. mi.								
CUMBERLAND. (Area, 1516 sq. mi.)								
1.—EDEN & SOLWAY. 887 sq. mi.								
Ullswater (Hallsteads)	Miss C. Marshall	5	2	0	497	1118	44.01	164
Watermillock (Mell Fell House)	Mrs. Spring-Rice	5	1	0	980	1037	40.83	160
D Penrith (Fell Lane)	H. Lester, Esq.	5	1	0	575	705	27.76	160
„ (Nandana)	J. C. Varty Smith, Esq.	5	1	0	650	672	26.45	249
D „ (Benson House)	A. B. Sinclair, Esq.	5	0	8	480	753	29.65	162
„ (Newton Rigg)	W. T. Lawrence, Esq.	8	1	0	559	760	29.94	177
„ (Greystoke Castle)	H. Walker, Esq.	5	1	3	650	808	31.83	...
„ (Ennim)	Mrs. Hamlet Riley	8	0	6	660	854	33.63	...
Uldale (Chapel House Reservoir)	J. Smith Hill, Esq. <i>per</i> M.O.	8	1	0	600	1005	39.55	164
D Penrith (Nunwick Hall)	Mrs. Heywood Thompson ..	5	1	0	278	679	26.74	154
Aspatria (Agricultural College)..	J. Smith Hill, Esq. <i>per</i> M.O.	8	1	0	251	899	35.38	160
D Renwick (Ravenwood)	W. Salkeld, Esq.	5	2	0	680	853	33.60	166
Kirkoswald (Staffield Hall)	Mrs. A. L. Payne	5	0	9	368	542	21.33?	...
D Wigton (Brookfield)	J. Ransom Marsh, Esq.	5	1	6	124	700	27.56	175
D „ (Dacre House)	J. H. Walker, Esq.	5	4	6	134	712	28.03	175
D Wreay Vicarage	Rev. Canon A. R. Hall	5	2	0	310	660	25.97	168
D Geltsdale	H. C. Marks, Esq., C.E.	5	1	2	778	835	32.89	202
D Carlisle (Spital Cemetery)	J. T. Charlton, Esq.	8	1	6	115	718	28.28	183
„ (Denton Holme)	W. Eggleston, Esq.	5	2	0	57	696	27.40	...
„ (Stanwix)	Sir Benjamin Scott	8	1	6	100	712	28.04	...
D „ (Newby Grange)	T. H. Hodgson, Esq.	5	0	8	64	648	25.52	183
D „ (Brunstock)	late M. T. Scott, Esq.	5	1	6	86	733	28.85	171
„ (Scaleby Hall)	Sir R. A. Allison	5	1	0	112	831	32.71	200
D Bewcastle Rectory	Rev. M. H. Banister	5	1	0	500	914	35.99	195
D Penton (Warwickland School)..	W. Roden, Esq.	5	1	0	360	926	36.44	167
2.—DERWENT. 257 sq. mi.								
Sprinkling Tarn	Dr. H. R. Mill	5	1	6	1985	2950	116.14	...
Styehead Tarn	„ „ „	4	0	6	1472	2900	114.18	...
† The Stye B	„ „ „	4	1	0	1077	3390	133.48	...
„ B ... <i>Seathwaite g.M.</i>	„ „ „	5	1	6	1070	3530	138.97	...
† „ C	„ „ „	4	1	0	1077	3452	135.89	...
† „ D	„ „ „	4	1	0	1077	2690	105.91	...
† Borrowdale (Seathwaite)	„ „ „	4	0	6	422	2677	105.39	...

DIVISION X.—NORTHERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground. SeaLevel			1915		
		in.	ft.	in.	feet.	mm.	inches.	
CUMBERLAND—(con.)								
2.—DERWENT—(con.)								
†Borrowdale (Seathwaite) <i>weekly</i>	Dr. H. R. Mill	5	1	0	422	2630	103.56	...
D† " (")	" " " "	5	1	0	423	2629	103.50	187
Ullscarf	M G. H. Hill, Esq., C.E.	7	1	8	2100	2395	94.30	...
Helvellyn (Birkside)	M " " "	7	1	3	1900	1895	74.60	...
Wythburn	M " " "	7	1	4	580	1791	70.50	...
†Borrowdale (Rosthwaite)	J. Reay, Esq.	5	0	9	...	1934	76.13	...
Buttermere (Hassness)	Miss C. Marshall	5	1	0	355	2123	83.60	183
†Borrowdale (Grange)	Mr. J. Threlkeld	5	0	9	271	1648	64.89	...
Armboth Fells (The Pewitts)	G. H. Hill, Esq., C.E.	7	1	6	1650	1422	56.00	...
Helvellyn (Whiteside)	" " "	7	1	6	2100	1560	61.40	...
Thirlmere (Dale Head Hall)	" " "	7	1	5	620	1709	67.30	...
D Keswick (Derwent Island) <i>old g.</i>	Miss C. Marshall	5	0	7	280	1167	45.94	198
D " (") <i>new g.</i>	" " "	5	0	6	290	1120	44.09	198
D " (Castlerigg Manor)	" " "	7	1	11	675	1213	47.76	191
D† " (The Bank)	Mr. A. Campbell	5	1	6	265	1139	44.86	180
D† " (Crosthwaite School)	H. Swinburn, Esq.	5	1	0	254	1165	45.87	187
D " (Mirehouse)	Miss Spedding	5	1	1	320	1102	43.39	192
Dean School	A. McClellan, Esq.	5	1	6	360	1021	40.20	159
Cockermouth (Whinfell Hall)	W. Peile, Esq.	5	0	1	255	1234	48.60	...
D " (Lorton Hall)	Sir J. T. Hutchinson	5	1	0	270	1152	45.34	181
" (Brandlingill)	Mrs. Sewell	5	1	0	320	1182	46.55	...
Threlkeld (Blencathra Sanatorium)	Dr. W. Goodchild	5	1	0	885	1264	49.77	200
D Brigham (Ellerbank)	R. M. Lidbetter, Esq.	5	0	8	250	740	29.14	157
Camerton Vicarage	Rev. E. C. Bennett	5	1	0	200	872	34.33	...
Bassenthwaite (Higham)	Joseph Fisher, Esq.	5	0	9	500	922	36.29	172
3.—WEST COAST STREAMS. 235 sq. mi.								
D Ravenglass (Newtown)	G. L. McKelvie, Esq.	5	1	6	130	1050	41.33	161
" (The Grove)	A. Watt, Esq.	5	2	8	77	1040	40.96	158
D Eskdale Green (Gatehouse)	J. W. Rainbow, Esq.	5	0	10	150	1492	58.73	181
Beckfoot	Miss C. Marshall	5	1	0	180	1440	56.71	154
Seascale (Whinthwaite)	Dr. R. Hellon	5	1	0	52	978	38.50	...
Netherwasdale Vicarage	Rev. J. Hodgson	5	1	0	182	1361	53.57	...
Braystones	H. H. Watson, Esq.	10	3	6	36	864	34.00	...
D Egremont (The Grange)	J. Sherwen, Esq.	8	1	0	351	1261	49.64	188
" (Ringingstone)	Harold Adair, Esq.	5	1	0	260	1014	39.93	178
D Cleator Moor W.W. (Dent Res.)	R. Robertson, Esq., C.E.	5	1	0	395	1265	49.80	156
D Whitehaven (Scragill Reservoir)	E. E. Stiven, Esq., C.E.	8	1	0	188	986	38.82	177
D " (Irish Street)	Dr. Eldon Pratt	5	1	1	21	1087	42.80	172
Distington (Gilgarran)	Mr. A. Kydd	5	4	9	470	947	37.27	151
D Workington (Winscales House)	J. A. Trench, Esq.	5	1	6	440	856	33.72	150
4.—DUDDON & C. 50 sq. mi.								
5.—SOUTH TYNE. 87 sq. mi.								
D Alston (Nenthead)	Caldwell Harpur, Esq.	8	2	6	1463	1352	53.23	194
D " (Samuel King's School)	J. G. McIntosh, Esq.	5	1	0	1060	989	38.94	222
WESTMORLAND. (Area, 783 sq. mi.)								
1.—EDEN. 373 sq. mi.								
Ravenstonedale (The Chantry)	J. R. Highmoor, Esq.	5	1	11	900	992	39.06	...
D Kirkby Stephen (Redman House)	Mrs. T. Mason	5	1	0	574	927	36.48	164

DIVISION X.—NORTHERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
WESTMORLAND—(con.)								
1.—EDEN—(con.)								
Hayes Water.....No. 3	Baldwin Latham, Esq., C.E.	5	1	0	2600	2019	79.50	...
„ „ (High Street) No. 2	„ „ „	5	1	0	2000	2009	79.10	...
„ „ No. 1	„ „ „	5	1	0	1750	2162	85.10	...
Grizedale (Ruthwaite Lodge) ...	Miss C. Marshall	8	1	6	1750	2237	88.06	...
† Patterdale Hall	W. H. Marshall, Esq.	5	1	3	490	1866	73.46	188
„ (Greenside Mine)	W. H. Borlase, Esq.	7	1	6	1000	1644	64.71	...
† Appleby (Castle Bank)	C. R. Rivington, Esq.	5	1	2	440	832	32.76	177
Ullswater (Sharrow Bay)	Mr. G. Robinson	5	0	7	600	933	36.72	...
† Great Strickland (Greeneroft) ...	Mrs. Whiteside	5	2	0	648	931	36.65	184
† Morland [Penrith].....	Miss M. F. Markham.....	5	1	0	456	830	32.68	184
2.—LEVEN. 60 sq. mi.								
† Bowness (Lindeth Howe)	Captain F. G. Senior.....	5	1	0	250	1405	55.31	184
† „ (Dawstone)	A. M. Sing, Esq.	5	1	2	550	1418	55.83	189
† „ (Fallbarrow)	Miss E. F. Rawson	8	1	0	155	1352	53.21	172
† Windermere	C. E. Hines, Esq.	5	1	0	364	1402	55.21	179
† „ (Hammar Bank) ...	H. Coutts, Esq.	5	1	0	290	1359	53.52	198
† Bowness (Fellside)	T. D. Lingard, Esq.	5	0	6	310	1380	54.35	183
† Windermere (Holebird)	W. G. Groves, Esq.	5	1	0	483	1534	60.39	190
† „ (Brockhole)	W. Gaddum, Esq.	5	1	6	145	1508	59.38	187
† Ambleside (Wansfell)	Miss C. Marshall	8	1	0	150	1589	62.55	192
† „ (Skelwith Bridge) ...	A. J. Adams, Esq.	5	1	9	190	1864	73.39	174
Little Langdale (Fell Foot) ...	Miss C. Marshall	5	2	2	380	2331	91.77	...
† Ambleside (White Craggs)	C. H. Hough, Esq.	5	2	4	252	1520	59.83	195
„ (Gale House)	G. A. Johnston, Esq., M.D.	5	1	0	180	1686	66.38	179
„ (Loughrigg Brow) ...	I. H. Storey, Esq.	5	1	0	279	1655	65.15	190
„ (Lesketh How).....	Miss Benson	5	2	6	175	1715	67.53	206
„ (Tweenway House) ..	A. E. Huddleston, Esq.	5	1	0	175	1592	62.66	181
Elterwater Hall	Miss C. Marshall	5	1	1	200	1927	75.86	...
† Rydal (The Stepping Stones) ...	Gordon Wordsworth, Esq.	5	1	0	190	1723	67.82	198
† „ („ „ „) M	„ „ „	5	1	3	190	1657	65.25	...
† Loughrigg Fell ... Gauge A. M	„ „ „	5	1	3	690	1444	56.87	...
† „ „ „ Gauge B. M	„ „ „	8	1	3	690	1548	60.96	...
† Rydal	Miss M. Yates	5	0	7	390	1747	68.79	193
„ (High Close)	F. E. T. Jones Balme, Esq.	8	0	9	553	1806	71.12	177
„ (Silverthwaite)..... No. 1	Miss A. Sharp	5	1	0	292	1629	64.14	181
Ambleside (Rydal Farm)	late Ralph Fletcher, Esq.	5	1	4	160	1668	65.67	185
† Dungeon Ghyll	Miss C. Marshall	5	1	0	310	2416	95.10	200
† „ „ „ M	„ „ „	5	1	0	311	2432	95.74	...
† Mickleden	„ „ „	5	1	6	490	3184	125.31	...
† Grasmere (The Wray)	Miss G. M. Simpson	5	1	0	221	1974	77.70	223
„ (Michael's Fold)	Miss E. F. Paley	5	0	6	300	1940	76.37	184
3.—KENT. 188 sq. mi.								
† Milnthorpe (St. Anthony's House)	G. E. Clayton, Esq.	5	3	0	121	925	36.41	161
† Heversham (Plumtree Hall).....	T. Carrick Watson, Esq.	5	0	8	115	1041	40.98	186
„ (Leasgill)	T. A. Argles, Esq.	5	0	8	130	965	37.98	176
† Kendal (Crosthwaite Vicarage)...	Rev. T. Heelis	5	1	0	200	1226	48.26	178
„ (Vicarage Terrace)	Mrs. Braithwaite	8	0	6	160	1115	43.89	180
† „ (Holmeroft)	R. Rhodes, Esq.	5	1	3	210	1165	45.86	198
† „ (Birchfield)	H. W. Baron, Esq.	5	1	6	175	1194	47.02	188

DIVISION X.—NORTHERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above Ground.		SeaLevel	1915		
		in.	ft.	in.	feet.	mm.	inches.	
WESTMORLAND—(con.)								
3.—KENT—(con.)								
D† „ (Low Slack).....	A. W. Wilson, Esq.	5	1	0	350	1138	44·80	175
† „ (Ellergreen).....	C. J. Cropper, Esq.	5	1	6	270	1342	52·83	181
„ (Potter Fell).....	Messrs.J.Cropper&Co.Ltd.	...	0	4	800	1492	58·76	...
Long Sleddale (Low House)... M	A. Wilson, Esq.	5	1	0	550	1459	57·45	...
4.—LUNE. 122 sq. mi.								
Kirkby Lonsdale	J. R. Picard, Esq.	7	0	8	215	1039	40·92	...
D „ „ {Casterton).....	R. A. Clarke, Esq.	8	1	0	305	1040	40·93	201
D „ „ { „).....	Miss Williams	8	2	0	320	978	38·49?	174
Barbon (Underfell)	Miss C. E. Wilson	5	1	5	405	998	39·30	175
D „ Manor	Lord Shuttleworth	5	1	3	650	1074	42·29	158
„	W. Wilkinson, Esq.	5	1	0	310	1076	42·35	...
D Orton	Michael Scott, Esq.	5	1	0	770	1170	46·06	185
5. TEES. 40 sq. mi.								

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS.

MONMOUTH. (Area, 534 sq. mi.)

1.—RHYMNEY. 39 sq. mi.								
Rumney (Witla Court).....	Mr. J. F. Matthyssens.....	5	1	3	168	963	37·93	...
D Marshfield Vicarage	Rev. H. G. Stanley	5	1	1	50	950	37·42	169
Coedkernew (Cefnlllogell)	T. Hillier, Esq.	5	3	6	225	1064	41·87	...
2.—EBBW. 88 sq. mi.								
D Newport (Tredegar Park).....	Mr. J. Bone	5	0	10	0	1061	41·76	150
D Rogerstone (Rhiwderin)	L. Forestier-Walker, Esq.	5	1	3	259	1029	40·51	162
Blackwood	H. Caldwell, Esq., C.E....	8	1	6	620	1039	40·91	...
D Abertillery (The Park)	Dr. T. B. Smith.....	5	1	0	700	1512	59·54	186
D „ (Cwmtilillery)	W. Y. Hobkirk, Esq.....	5	1	0	970	1583	62·34	177
D Tredegar Laboratory.....	W. Morgan, Esq.	5	1	3	950	1498	58·99	188
D „ (Redesdale).....	D. W. Davies, Esq.	5	1	6	963	1122	44·17	185
D Ebbw Vale (Iron Works)	D. S. Whitehead, Esq.	8	1	0	902	1468	57·78	181
D Nant-y-bwch (Shon Sheffrey's Well)	D. W. Davies, Esq.	5	1	5	1204	1306	51·40	179
3.—USK & C. 290 sq. mi.								
Goldcliff (Porton)	Blethyn T. Rees, Esq., C.E.	5	1	3	27	721	28·40	156
Portskewett (Sudbrook)	H. V. Woodward, Esq. C.E.	8	0	10	22	774	30·49	...
D Newport (Friar Street Yard) ...	Newport Corporation.....	5	6	0	32	1012	39·86	176
D „ (Ynis-y-fro Reservoir)..	„ „	5	1	0	130	1044	41·11	192
D „ (Pant-y-reos Res.).....	„ „	5	1	0	435	1336	52·62?	205
D „ W.W. (Llanvaches)...	„ „	5	0	10	456	954	37·55	192
D „ (Nantyridd, Wentwood)	„ „	5	1	0	500	1047	41·21	185
D Chepstow (Itton Court).....	E. Curre, Esq.	5	1	0	390	899	35·39	169
D Llanfrechfa Grange	Brig.-Gen. W. F. Cleeve	5	4	0	326	1117	43·98	177
D Newport W.W. (Newchurch) ...	Newport Corporation	5	1	0	525	1076	42·37	184
Panteg Rectory	Monmouth Evening Post	5	3	5	300	1241	48·86	...
Usk (Castle Parade House)	J. Maitland Watkins, Esq.	5	1	0	75	1078	42·46	153
D Devauden (Tredean)	W. W. Hood, Esq., C.E....	5	3	6	700	960	37·78	160
Griffithstown (Shirley)	T. P. Holmes Watkins, Esq.	5	1	0	473	1387	54·60	157
Abersychan (Glansychan).....	W. P. James, Esq., per M.O.	5	1	0	699	1456	57·34	205

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.		Days with ·01 in. or more	
		Diam. in.	Height Above Ground. Sea Level		1915			
			ft.	in.	feet.	mm.	inches.	
MONMOUTH—(con.)								
3.—USK & C—(con.)								
Usk (Brynderwen).....	E. H. M. Luckock, Esq....	5	1	0	136	1075	42·34	155
Blaenavon	H. G. Steel, Esq.	8	4	6	1150	1542	60·69	...
Abergavenny	F. Mansfield, Esq.	5	1	0	194	1219	47·99	...
" (Larchfield)	Dr. N. R. Phillips	5	1	0	240	1103	43·42	165
" (The Chain).....	W. Baker Gabb, Esq.....	5	1	3	300	1187	46·73	184
Grwyne Fawr (Coed Dias)	" " " "	5	1	0	900	1243	48·94	184
" (Pfwydd Fwthog)	Baldwin Latham, Esq., C.E.	5	0	8	1380	1312	51·67	274
4.—WYE. 117 sq. mi.								
Chepstow (The Cedars).....	J. E. G. Lawrence, Esq.	5	2	0	150	910	35·81	158
" (Piercefield Park).....	H. Clay, Esq.....	5	1	6	310	918	36·16	159
Tintern	J. Roberts, Esq., per M.O.	99	1074	42·32	183
Monmouth (The Elms)	Mrs. Hall	5	1	1	91	821	32·33	...
" (The Hendre)	Mr. T. Coomber	8	1	0	176	819	32·26	171
" (Pentwyn)	Rev. Canon J. Harding...	5	1	0	191	894	35·18	162
Llantilio Court	Sir H. Mather-Jackson, Bt.	5	0	11	231	903	35·55	...
Llanthony Abbey	Baldwin Latham, Esq., C.E.	5	1	0	792	1349	53·11	180
GLAMORGAN. (Area, 808 sq. mi.)								
1.—LOUGHOR. 55 sq. mi.								
Gorseinon (Penllergaer).....	Sir J. T. D. Llewelyn, Bt.	5	3	0	240	1224	48·18	217
Felindre (Lower Lliw Reservoir)	R. H. Wyrill, Esq., C.E.	8	1	3	426	1362	53·63	198
" (Upper " ")	" " "	8	1	0	610	1539	60·58	216
2.—GOWER PENINSULA. 62 sq. mi.								
Penmaen (Cefn Mor).....	R. A. Bostock, Esq.	5	1	5	300	1091	42·94	184
Mumbles (Bristol Ch. Yacht Club)	A. Whitman, Esq.	5	1	0	20	1033	40·67	184
Swansea (Killay House)	Mrs. M. B. Williams.....	5	0	6	265	1192	46·95	190
3.—TAWE. 47 sq. mi.								
Swansea (Victoria Park)	Mr. D. Bliss	8	1	0	26	1241	48·85	197
" (The Knoll)	E. H. Perkins, Esq.	5	1	0	150	1268	49·93	198
Morrison (The Vicarage).....	Dr. E. Rice Morgan	5	1	0	236	1380	54·31	186
Pontardawe (Plas Cilybebyll) ...	J. H. B. Lloyd, Esq.....	5	3	0	510	1513	59·58	175
Ystalyfera (Wern School)	J. Williams, Esq.	5	1	3	240	1653	65·09	200
4.—NEATH. 82 sq. mi.								
Briton Ferry (Brynsiriol).....	H. A. Clarke, Esq. C.E....	5	1	0	33	1248	49·13	175
" " (Cefn Court)	" " "	5	1	0	503	1336	52·59	187
Neath	D. M. Jenkins, Esq., C.E.	5	1	0	204	1577	62·09	187
" (Maesmelyn)	Major E. Ll. Green	5	1	6	115	1356	53·39	199
" (Glynfeln)	T. Gibbins, Esq.....	5	1	4	180	1422	55·97	164
5.—OGMORE & C. 350 sq. mi.								
Cowbridge (Fonmon Castle).. ...	O. H. Jones, Esq.	8	1	2	130	843	33·19	174
Barry W. W. (Biglis)	T. E. Franklin, Esq., C.E.	5	1	0	20	896	35·28	171
" " (Merthyr Dyfan Res.)	" " "	5	1	0	300	945	37·20	...
" " (Pencoedtre Res.)... ..	" " "	5	1	0	200	791	31·14	...
" " (Dinas Powis Res.)... ..	" " "	5	1	0	165	899	35·38	...
Lower Penarth	E. I. Evans, Esq., C.E....	5	1	0	67	874	34·43	166
Penarth	" " "	5	5	0	160	946	37·24	187
Cardiff (Cogan Pill, Llandough). ..	C. H. Priestley, Esq., C.E.	5	1	0	121	950	37·42	171
" (Ely Pumping Station)... ..	" " "	5	1	0	53	1028	40·47	238

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0·1 in. or more
		Diam.	Height Above Ground. Sea Level			1915		
		in.	ft.	in.	feet.	mm.	inches.	
GLAMORGAN—(con.)								
5.—OGMORE & C—(con.)								
D Cardiff (St. Fagans)	Mr. H. A. Pettigrew	5	0	11	100	1265	49·81	184
Cowbridge (Ash Hall)	E. Tudor Owen, Esq.	8	3	0	315	1164	45·83	151
Merthyr Mawr	Lt.-Col.J.D.Nicholl per MO ...	...	...	...	74	1084	42·68	159
D Bridgend	H. J. Randall, Esq.	5	1	0	116	1144	45·04	178
D Llantrisant (Talygarn).....	G. L. Clark, Esq.	5	4	3	250	1415	55·72	194
" (S.Rhondda Colliery)	W. W. Hood, Esq., C.E....	5	15	0	480	1658	65·27	...
" (Llanilid Reservoir)	T. Saunders, Esq.	8	1	3	582	1396	54·96	...
D Port Talbot (Gwyn-yr-hydd, Margam)	G. Lipscomb, Esq.	5	1	0	180	1215	47·85	200
D Glyncorrwg Colliery	Mr. C. Stephens	5	4	6	725	1941	76·40	180
6.—TAFF. 157 sq. mi.								
D Cardiff (Trade Street Depot) ..	C. H. Priestley, Esq., C.E.	5	1	0	45	995	39·18	183
D Llandaff (Howell's School)	Miss A. G. Winny	5	1	4	86	1007	39·65	178
D " (West Hill)	J. E. Gladstone, Esq.	5	1	0	110	1064	41·88	195
Pontypridd (Maesderwen, Graig)	T. Bowen, Esq.	5	10	0	425	1417	55·80	171
D " (Lan Wood Reservoir)	T. W. Coates, Esq., C.E.	5	1	0	300	1384	54·47	197
D† Ystradyfodwg (Tyntyla Hospital)	J. D. Jenkins, Esq., M.D.	5	1	0	590	1599	62·94	186
D Treharris Service Reservoir	T. F. Harvey, Esq., C.E.	5	1	0	865	1329	52·34	177
Rhondda (Ferndale)	G. Childs, Esq.	7	1	0	830	1850	72·82	...
D† Mountain Ash (Maesydderwen)..	M. Morgan, Esq.	5	1	0	483	1455	57·27	188
D† " (Darranlas Res.)..	W. G. Thomas, Esq.	5	0	11	540	1635	64·38	203
D† Treherbert (Tyn-y-waun).....	O. Thomas, Esq.	5	1	0	801	2313	91·08	216
† " " ").....M	" " " " " " " " " " " "	5	1	0	801	2308	90·87	...
D Cwmaman Colliery	W. H. Heppell, Esq.	5	2	2	930	1899	74·76	184
D Rhondda (Pont Lluest Wen Res.) 3	T. W. Coates, Esq., C.E.	5	1	6	1200	2070	81·48	181
D† " { " " " " } 2	" " " " " " " " " " " "	5	1	6	1225	1653	65·08	181
D " { " " " " } 1	" " " " " " " " " " " "	5	1	6	1250	2213	87·12	183
D " W.W. (Llyn Fawr Res.)	Mr. J. B. Hughes	8	1	0	1220	2304	90·69	185
D Merthyr Tydfil (Penbryn Filters)	T. F. Harvey, Esq., C.E.	5	1	0	936	1391	54·76	199
" " " " " " " " " " " "	" " " " " " " " " " " "	5	1	0	936	1382	54·41	...
D Dowlais (Gwernllwyn)	R. C. Harrison, Esq.	5	1	6	1071	1233	48·53	178
7.—RHYMNEY. 55 sq. mi.								
D Cardiff (Roath Park).....	Mr. A. A. Pettigrew	5	0	9	49	988	38·90	169
D† " (Penylan)	E. Walford, Esq., M.D.	5	1	0	204	1039	40·89	187
D " (New Filters, Heath) ...	C. H. Priestley, Esq., C.E.	5	1	0	132	1022	40·25	191
D Llanishen Reservoir	" " " " " " " " " " " "	5	1	0	155	960	37·79	177
D Lisvane Reservoir	" " " " " " " " " " " "	5	1	0	150	932	36·71	174
D Caerphilly (Ruperra Castle).....	Mr. A. McKinnon	5	1	0	382	1194	46·99	163
D " " " " " " " " " " " "	J. Prosser-Jones, Esq., C.E.	8	1	0	400	1288	50·70	176
Rhymer Bridge Reservoir ... M	" " " " " " " " " " " "	5	1	0	1098	1531	60·26	...
CARMARTHEN. (Area, 918 sq. mi.)								
1.—TEIFI. 87 sq. mi.								
2.—TOWY & C. 715 sq. mi.								
D Laugharne (Broadway).....	H. Eccles, Esq.	5	2	0	174	1114	43·86	176
Llanddarog (Lletherllestry)	H. L. Puxley, Esq.	4	1	0	242	1297	51·05	198
D Carmarthen (The Friary).....	L. M. Bowen-Jones, Esq.	5	1	5	62	1184	46·61	223
† Llandilo (Golden Grove Gardens)	Mr. F. Surman	6	1	6	125	1430	56·28	190
D† " (Caeglas)	Mrs. J. Lewes Thomas ...	5	3	0	170	1297	51·05	177

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ≥ 0.1 in. or more
		Diam.	Height Above Ground. Sea Level			1915		
		in.	ft.	in.	feet.	mm.	inches.	
CARMARTHEN—(con.)								
2.—TOWY & C—(con.)								
† Llandilo (Dynevor Castle)	Lord Dynevor	8	1	0	202	1343	52.88	221
n† „ (Cwmifor School)	T. I. Griffiths, Esq.	5	1	0	210	1316	51.83	210
n Llanddeusant (Ponterynfe)	J. Thomas, Esq.	5	1	0	323	1529	60.19	210
n Llanwrda (Dolaucothy).....	Gen. Sir J. Hills-Johnes VC	5	2	6	498	1501	59.08	241
3.—LOUGHOR & C. 104 sq. mi.								
n Llanelly (Old Market Yard) ...	G. Watkeys, Esq., C.E. .	5	10	0	35	1112	43.78	192
n „ (Cwmlliedi W.W.).....	„ „ „ ..	5	3	0	240	1278	50.30	216
4.—TAWE. 7 sq. mi.								
5.—USK. 5 sq. mi.								
6.—WYE.								
PEMBROKE. (Area, 617 sq. mi.)								
1.—TEIFI. 37 sq. mi.								
2.—NEVERN & C. 91 sq. mi.								
n Fishguard (Goodwick Station)...	G. Lambert Gibson, Esq.	5	7	4	57	1050	41.36	181
n Newport (Llwyrgwair).....	G. B. Bowen, Esq.....	8	1	1	40	1300	51.19	184
3.—WEST COAST STREAMS. 82 sq. mi.								
n St. Davids	D. P. Williams, Esq.	5	1	0	216	1060	41.75	170
4.—CLEDDAU & C. 407 sq. mi.								
Pembroke (Stackpole Court).....	Mr. W. B. Fisher ...	6	1	6	60	1025	40.34	188
Tenby (Glendower)	J. T. C. Burgess, Esq.....	5	1	6	20	1176	46.29	180
St. Ann's Head	Meteorological Office	8	0	8	150	1022	40.24	201
n Pembroke (Bangeston)	Comm. P. C. Pearson, R.N.	5	1	0	40	1273	50.12	189
n „ Dock (Admiralty Res.)	H. F. Bowen, Esq.....	8	1	0	90	1049	41.30	171
n „ „ (County School)	G. H. West, Esq.	5	1	0	85	1223	48.14	180
n Saundersfoot (Hean Castle)	Lord Merthyr.....	5	1	0	206	1041	40.97	175
n Templeton (Hill)	Mrs. E. L. B. Allen	5	1	0	545	1458	57.39	210
Haverfordwest (Picton Castle)...	Sir C. E. G. Philipps, Bt.	5	0	10	138	1380	54.35	204
n „ (Portfield)	J. W. Phillips, Esq.	5	1	0	220	1248	49.12	206
n „	„ „ „ ..	5	1	0	95	1251	49.27	182
Penfford Council School	Thomas H. Davies, Esq.....	5	1	0	310	1209	47.59	...
n Treffgarne Hall	Col. R. O. Lloyd, R.E.....	5	1	1	286	1264	49.75	203
n Fishguard (Langton, Dwrbach)...	J. C. Yorke, Esq.	5	1	0	320	1099	43.26	206
CARDIGAN. (Area, 688 sq. mi.)								
1.—DOVEY. 20 sq. mi.								
2.—YSTWYTH & C. 347 sq. mi.								
n Lampeter (Llanlear)	Miss Lewes	5	1	1	226	1058	41.65	180
n Strata Florida (Hafod)	T. J. Waddingham, Esq.	5	1	0	580	1494	58.80	230
Aberystwyth (N. Parade).....	Dr. A. Thomas	8	2	6	15	867	34.14	196
n „ (Gogerddan)	Mr. W. Penwill.....	5	1	1	83	1150	45.27	204
3.—TEIFI. 260 sq. mi.								
n Lampeter (Falcondale)	Mr. W. Taylor	5	1	0	498	1225	48.24	204
4.—TOWY. 46 sq. mi.								
n Nantneuadd [Abergwesyn]	Mr. W. Roberts	5	1	0	1290	1718	67.64	166
Tregaron (Maes-y-bettws) ...	Dr. H. R. Mill	5	1	0	910	1778	70.00	...
Strata Florida (Towy-fechan) M	„ „ „ ..	5	1	0	1330	1806	71.10	...

DIVISION XI.—MONMOUTH, WALES AND THE ISLANDS—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with "01 in. or more
		Diam.	Height Above Ground. Sea Level			1915		
		in.	ft.	in.	feet.	mm.	inches.	
CARDIGAN—(con.)								
5.—WYE. 15 sq. mi.								
Birmingham W.W. (Llyn Gynon)	M E. Antony Lees, Esq.....	5	1	0	1500	1732	68.20	...
† " " (Bwlchyrhendre)	M " " "	5	1	0	1585	1669	65.70	...
" " (Claerddu) ...	M " " "	5	1	0	1500	1880	74.00	...
" " (Gwngu)	M " " "	5	1	0	1650	1687	66.41	...
D " " (Abergwngu)...	" " " "	5	1	0	1200	1631	64.20	174
Plynlimon	M Dr. H. R. Mill	5	1	0	1740	2291	90.20	...
BRECON. (Area, 733 sq. mi.)								
1.—TOWY. 17 sq. mi.								
2.—TAWE. 41 sq. mi.								
D Swansea W.W. (Nantyrwydd)...	R. H. Wyrill, Esq., C.E.	5	1	0	920	1878	73.92	205
3.—NEATH. 48 sq. mi.								
† Pont Neath Vaughan [Glyn Neath]	W. N. Hogben, Esq.	5	1	5	297	1663	65.49	190
4.—TAFF. 48 sq. mi.								
D Nanthir Reservoir [Aberdare] ..	O. Williams, Esq., C.E. ...	5	1	0	860	1611	63.43	209
" " ["] M	" " " "	5	1	0	860	1617	63.66	...
Penderyn	F. W. La T. Bateman Esq. CE	5	1	0	1003	1330	52.36	...
D Taff Fechan (Pontsticill) .. No. 12	T. F. Harvey, Esq., C.E.	5	1	0	1031	1474	58.04	201
" " (") No. 12 M	" " " "	5	1	0	1031	1459	57.43	...
" " (") West .. 14	" " " "	5	1	0	1254	1516	59.67	...
" " (") East .. 13	" " " "	5	1	0	1763	1478	58.17	...
D † Cardiff W.W. (Llwynon Res.) ...	C. H. Priestley, Esq., C.E.	5	1	0	860	1503	59.19	210
D " " (Pont-ar-daf) ...	" " " "	5	1	0	850	1651	64.99	208
" " (Garw-nant)	" " " "	5	1	0	1100	1710	67.34	...
" " (Nant Gwineu) ...	" " " "	5	1	0	1275	1355	53.33	...
" " (Nant-y-gou-garn) ..	" " " "	5	1	0	...	1889	74.38	...
D † Taff Fechan (Pentwyn Res.) ...	T. F. Harvey, Esq., C.E.	5	1	0	1120	1738	68.42	225
† " " (") ... M	" " " "	5	1	0	1120	1726	67.97	...
Cardiff W.W. (Nant Goch)	C. H. Priestley, Esq., C.E.	5	1	0	...	1514	59.60	...
" " (Nant Ddu)	" " " "	5	1	0	1560	1718	67.64	...
† " " (Pentwyn Uchaf, No. 5)	" " " "	5	1	0	1143	1566	61.64	...
† " " (Storey Arms, No. 4)	" " " "	5	1	0	1430	1925	75.80	...
" " (Tyle Brith, No. 1) ...	" " " "	5	1	0	2350	1863	73.36	...
D † " " (Cantref Res., No. 2)	" " " "	5	1	0	1120	1775	69.88	211
D † " " (Beacons Res., No. 6)	" " " "	5	1	0	1340	1980	77.95	218
" " (Nant Penig, No. 3) ..	" " " "	5	1	0	2000	1936	76.21	...
D † Taff Fechan (Neuadd Res.) No. 1	T. F. Harvey, Esq., C.E.	5	1	0	1462	1909	75.14	226
† " " (") No. 1 M	" " " "	5	1	0	1462	1848	72.74	...
D † " " (") No. 4	" " " "	5	1	0	1487	2086	82.13	226
D † " " (") No. 4A	" " " "	5	1	0	1487	2056	80.96	226
† " " (") No. 2 M	" " " "	5	1	0	1993	1644	64.71	...
† " " (") No. 5 M	" " " "	5	1	0	1515	2082	81.99	...
† " " (") No. 10 M	" " " "	5	1	0	1700	1858	73.13	...
D † " " (") No. 11	" " " "	5	1	0	1524	1790	70.46	226
† " " (") No. 7 M	" " " "	5	1	0	2017	2064	81.28	...
† " " (") No. 8 M	" " " "	5	1	0	1723	2157	84.93	...
† " " (") No. 3 M	" " " "	5	1	0	1843	1677	66.02	...
" " (") No. 3A M	" " " "	5	1	0	1843	1705	67.14	...

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground. Sea Level		1915		
		in.	ft. in.	feet.	mm.	inches.	
BRECON—(con.)							
4.—TAFF—(con.)							
†Taff Fechan (Neuadd Res.) No.9M	T. F. Harvey, Esq., C.E.	5	1 0	1997	1471	57.93	...
† " " " " No.6M	" " " "	5	1 0	1515	2254	88.75	...
5.—RHYMNEY. 2 sq. mi.							
6.—EBBW. 7 sq. mi.							
d†Ebbw Vale W.W. (Llangunider Res.) 1	T. J. Thomas, Esq., C.E.	5	1 0	1413	1512	59.54	196
† " " " " (") W.3	" " " "	5	1 0	1468	1615	63.59	196
† " " " " (") N. W.2	" " " "	5	1 0	1471	1549	61.00	195
" " " " (Carno, S.)	" " " "	5	1 0	1236	1680	66.14	210
† " " " " (") E.)	" " " "	5	1 0	1391	1587	62.47	210
† " " " " (") W.)	" " " "	5	1 0	1412	1656	65.19	210
† " " " " (") N.)	" " " "	5	1 0	1533	1586	62.46	210
7.—USK. 299 sq. mi.							
Crickhowell (Glanusk Park).....	Lord Glanusk.....	5	1 0	290	1202	47.34	156
d† " " (Gwernvale)	E. Pirie Gordon, Esq.....	5	1 0	393	1108	43.61	186
d " " (") Garden)	" " " "	5	1 3	443	1187	46.72	186
" " (Penmyarth)	J. H. Furnedge, Esq.....	5	1 0	330	1092	42.99	...
Llanbedr (Wernbystack)	Dr. H. R. Mill	5	1 0	...	1021	40.20	...
d Swansea W.W. (Bwlch)	R. H. Wyrill, Esq., C.E....	8	1 0	1246	2385	93.90	219
d " " (Cray Res.) No.1	" " " "	5	1 0	1032	1625	63.99	214
" " (" ")...(R)	" " " "	11	2 0	1030	1623	63.90	218
" " (" ") No.2	" " " "	5	1 0	1015	2172	85.50	...
Talybont (Cui)	Lt.-Col. H. Jones Williams	5	1 0	490	1388	54.65	...
d†Brecon (New Inn)	Mr. W. Williams	5	1 0	810	1315	51.78	151
†Cray Station	Mr. J. Jones	5	1 0	930	1956	77.00	...
†Crickhowell (Cwmdu)	Mr. J. P. Edwards.....	5	1 0	430	1072	42.20	...
d " " (Ffordlas Farm) ...	Dr. H. R. Mill	5	1 0	1170	1119	44.06	151
†Llanfrynach (Tymawr).....	Miss D. de Winton	5	1 0	450	1162	45.75	177
†Crickhowell (Tal-y-maes).....	Dr. H. R. Mill	5	1 0	1250	1351	53.20	...
d Treacastle (Blaenau-hydfer)	" " " "	5	1 0	1070	1778	69.99	171
Brecon (Ffrwdgrech)	Capt. J. D. D. Evans.....	8	1 0	570	1289	50.74	...
d " " (The Laurels)	C. J. E. Large, Esq.	5	1 0	492	1126	44.32	219
" " (" ").....M	" " " "	8	1 0	492	1126	44.34	...
d†Black Mountains (Blaen-y-cwm)	J. R. Gethin Jones, Esq....	5	1 0	...	1586	62.44	193
d† " " (" ")	Baldwin Latham, Esq. C.E.	5	1 0	1423	1644	64.74	196
† " " (Waun Fach)	(The Referees, Aber-)	5	1 0	2650	1506	59.30	...
† " " (" ")unfenced	tillery Water Bd. Act)	5	1 0	2650	1547	60.89	...
d† " " (Cwm Grigus Uchaf)	" " " "	5	1 0	1980	1632	64.27	203
d† " " (" ")unfenced	" " " "	5	1 0	1980	1642	64.63	203
d† " " (Dam Site, Grwyne Fawr)	" " " "	5	1 0	1620	1704	67.10	198
d† " " (Aber Clyd)	" " " "	5	1 0	1880	1506	59.29	199
d† " " (" ")unfenced	" " " "	5	1 0	1880	1528	60.15	199
† " " (Pen-y-Manllwyn)	" " " "	5	1 0	2512	1352	53.23	...
† " " (" ")unfenced	" " " "	5	1 0	2512	1352	53.22	...
d† " " (Taren-yr-Esgob)..	" " " "	5	1 0	2039	1436	56.52	196
d† " " (" ")unfenced	" " " "	5	1 0	2039	1475	58.08	196
d† " " (" ") Top) ...	" " " "	5	1 0	2100	1494	58.80	196
d† " " (Twyn Tal-y-Cefn)	" " " "	5	1 0	2130	1434	56.46	195
d† " " (" ")unfenced	" " " "	5	1 0	2130	1388	54.65	195
d† " " (Blaen Grwyne Fawr)	" " " "	5	1 0	2150	1427	56.17	197
d† " " (" ")unfenced	" " " "	5	1 0	2150	1484	58.42	197

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
BRECON—(con.)								
7.—USK—(con.)								
D† Llanfihangel Nant-Bran (Cwmcyonog)	Dr. H. R. Mill	5	1	0	790	1371	53.99	189
† Upper Chapel (Tymawr)	Mrs. Probert	5	1	0	945	1153	45.40	...
8.—WYE. 271 sq. mi.								
D† Cathedine Rectory	Rev. D. H. Picton	5	1	0	660	1027	40.42	176
† Capel-y-ffin (Monastery)	{ The Referees, Aber- tillery Water Bd. Act }	5	1	0	1047	1515	59.66	...
„ „ „ (Waun Goch)		5	1	0	1260	1512	59.51	...
D Talgarth (Dan-y-garth)	F. Morgan, Esq.	5	4	0	404	918	36.14	156
D Gwernyfed Park [Glasbury]	Mrs. Glen Kidston	5	1	0	375	913	35.95	197
Hay (Waunderwen)	Mrs. Garnons-Williams	5	1	4	400	922	36.28	165
D Llanwrtyd Wells (Brynonen)	Rhys D. Jones, Esq.	5	1	0	702	1433	56.43	201
D† Llangammarch Wells	Dr. W. Black Jones	8	1	0	551	1412	55.59	203
D Builth Wells (Tyn-y-berllan)	„ „ „	8	1	0	430	1130	44.47	178
† Abergwesyn (Trallwn)	Dr. H. R. Mill	5	1	0	1000	1860	73.25	...
† Pen-graig [Newbridge]	„ „ „	5	1	0	960	1486	58.50	...
† Llysdyham [„]	Col. C. Venables Llewelyn	5	1	3	646	1317	51.84	218
Birmingham W.W. (Cors-yr-hwch) M	E. Antony Lees, Esq.	5	1	0	1775	2196	86.45	...
„ „ (Esgair Ceiliog) M	„ „ „	5	1	0	1525	1810	71.25	...
„ „ (Llyn-Carw) M	„ „ „	5	1	0	1775	1996	78.58	...
† „ „ (Nant-y-car) ... M	„ „ „	5	1	0	1545	1865	73.44	...
† „ „ (Esgair Garthen) M	„ „ „	5	1	0	1600	1707	67.20	...
D† „ „ (Elan Village) ...	„ „ „	5	1	0	...	1515	59.66	199
RADNOR. (Area, 474 sq. mi.)								
1.—WYE. 424 sq. mi.								
D Boughrood Castle	Hon. F. J. Morgan	8	1	0	400	1166	45.92	193
D Glasbury-on-Wye	Rev. D. C. Lloyd	5	1	0	274	959	37.76	169
Builth Road (St. John's Vicarage)	Rev. J. L. Bryans	5	0	11	550	1170	46.06	202
D Llandrindod Wells (Kimberley) ..	W.B. de Winton Esq., C.I.E.	5	1	0	699	1082	42.60	209
New Radnor (Ednol) ... M	Dr. H. R. Mill	5	1	10	951	1074	42.27?	...
Radnor Forest (Great Rhos) ... M	H. Langston, Esq.	5	1	6	2150	1326	52.21	...
D Presteign (St. Davids)	Dr. N. Y. Lower	5	1	0	500	1063	41.86	196
D „ (Norton Manor Gdns.)	Mr. Wilson Palliser	5	1	6	617	1227	48.30	148
D† Birmingham W.W. (Tyrmynydd)	E. Antony Lees, Esq.	5	1	0	832	1659	65.31	225
D† „ „ (Nantgwillt) ..	„ „ „	5	1	0	845	1697	66.81	225
† „ „ (Dwfnant) ...	„ „ „	5	1	0	...	1711	67.37	...
† „ „ (Esgair Gader) No 1 M	„ „ „	5	1	0	1500	1633	64.30	...
„ „ („ „) No 2 M	„ „ „	5	1	0	1500	1695	66.75	...
D† „ „ (Claerwen) ...	„ „ „	5	1	0	1250	1753	69.00	206
D† „ „ (Tynant) ...	„ „ „	5	1	0	1250	1698	66.84	220
Rhayader	„ „ „	5	1	0	...	1279	50.35	...
D „ (Vicarage)	Rev. George Roberts	5	1	0	740	1458	57.40	162
† Birmingham W.W. (Cerrigllwydion) M	E. Antony Lees, Esq.	5	1	0	1700	1764	69.43	...
† „ „ (Pen-y-gareg) M	„ „ „	5	1	0	1500	1496	58.90	...
† „ „ (Calettwr) ... M	„ „ „	5	1	0	1500	1725	67.90	...
„ „ (Figin) No. 1 M	„ „ „	5	1	0	1700	1927	75.87	...
„ „ („ „) No. 2 M	„ „ „	5	1	0	1700	2027	79.80	...
„ „ (Aberhenllan) M	„ „ „	5	1	0	1250	1524	60.00	...
D Abbey Cwmhir	Rev. W. F. B. Ward	5	1	0	912	1136	44.74	198

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(continued.)

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
RADNOR—(con.)								
1.—WYE—(con.)								
Llanbister (Llananno)	Dr. H. R. Mill	5	1	0	900	1247	49.10	...
2.—SEVERN—Right Bank Tributaries. 50 sq. mi.								
MONTGOMERY. (Area, 797 sq. mi.)								
1.—DOVEY. 120 sq. mi.								
D Machynlleth (The Plas).....	Mr. A. Gribble	5	1	0	41	1444	56.84	202
2.—YSTWYTH. 7 sq. mi.								
3.—WYE. 37 sq. mi.								
D Llangurig (Dernol)	Dr. H. R. Mill	5	1	0	870	1474	58.02	179
4.—SEVERN—Right Bank Tributaries. 154 sq. mi.								
D Llandinam (Plas Dinam)	Mr. D. Bowen	5	3	0	504	968	38.12	176
D Newtown (Penarth Weir)	G. R. Jebb, Esq., C.E....	8	1	0	321	1022	40.22	212
Welshpool (Edderton)	Miss A. M. Howell Evans	5	1	0	500	865	34.07	...
5.—SEVERN—Left Bank Tributaries. 479 sq. mi.								
D Berriew (Rhiewport Gardens) ...	Mr. E. Jones	5	1	0	370	1065	41.92	169
D Welshpool (Llwynderw)	<i>The County Times</i>	8	1	0	243	907	35.70	173
D „ (County School)	P. W. Carter, Esq.	5	1	0	263	955	37.59	190
D „ (Fron Llwyd)	<i>The County Times</i>	5	1	0	540	994	39.13	177
Garthbibio (Bwlch Tomlyd) ... M	Dr. H. R. Mill	5	1	0	1370	1295	51.00	...
D Llandysilio Rectory	Rev H.G. Dickinson per MO	5	1	0	225	869	34.21	162
D Carreghofa Sch. [Llanymynech]	R. T. Pritchard, Esq. ...	5	1	6	287	837	32.94	177
D Lake Vyrnwy	E. J. Bradley, Esq.	5	0	7	770	1199	47.19	169
„ „ (Bryn Gwyn)	J. R. Davidson, Esq., C.E.	8	1	0	1311	1362	53.62	...
D „ „ (Bank Cynon Isaf) ..	„ „ „ ..	8	1	0	750	1374	54.10	186
„ „ (Ty Uchaf)	„ „ „ ..	8	1	0	860	1373	54.06	...
„ „ (Heol-y-ffridd) No.1 ..	„ „ „ ..	8	1	0	912	1827	71.92	...
„ „ („ „ „) No.2 ..	„ „ „ ..	8	1	0	912	1698	66.84	...
„ „ (Tyn-y-ffridd) ...	„ „ „ ..	8	1	0	1010	1359	53.52	...
„ „ (Lluestwen).....	„ „ „ ..	8	1	0	1667	1539	60.59	...
„ „ (Llwynrhiw)	„ „ „ ..	8	1	0	1428	1834	72.20	...
„ „ (Craig-y-Gribbin)..	„ „ „ ..	8	1	0	1100	1523	59.97	...
„ „ (Eunant Bridge)...	„ „ „ ..	8	1	0	830	1742	68.57	...
„ „ (Carreg Goch).....	„ „ „ ..	8	1	0	1750	1895	74.59	...
„ „ (Fawnog).....	„ „ „ ..	8	1	0	1315	1357	53.43	...
FLINT. (Area, 256 sq. mi.)								
1.—DEE. 198 sq. mi.								
D Hanmer (Gredington)	Lord Kenyon, K.C.V.O....	5	0	10	300	906	35.68	183
D Overton (Fairleigh)	B. J. E. Wright, Esq.....	5	1	8	220	767	30.18	172
D The Elms [Gresford].....	P. L. Rooper, Esq.....	8	1	0	250	782	30.79	185
Buckley	W. Simmons, Esq.....	5	1	0	555	843	33.18	...
Cilcain	„ „ „ ..	5	1	0	790	644	25.37	185
Hawarden	Great Central Rly. Co....	9	3	6	35	682	26.84	163
Northop (Soughton Hall)	Sir John E. Bankes	5	1	0	418	869	34.21	167
D Hawarden Bridge	J. E. Griffiths, Esq.	9	1	0	15	613	24.13	168
D Mostyn Vicarage	Rev. W. Vaughan-Jones	5	1	0	100	931	36.65	204

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with at least 1 in. or more
		Diam.	Height Above Ground. Sea Level			1915		
		in.	ft.	in.	feet.	mm.	inches.	
FLINT—(con.)								
2.—CLWYD. 51 sq. mi.								
D Bodfari (Nantlys)	D. F. Pennant, Esq.	5	1	4	200	694	27.32	171
D „ (Cae Gwyn)	Mrs. Morgan	5	0	5	542	746	29.39	184
St. Asaph (St. Beuno's College)	St. Beuno's College	8	1	0	480	696	27.39	160
Dyserth Castle	J. B. Price, Esq.	5	0	6	350	658	25.89	...
Rhyl (Sewage Works)	Dr. A. Eyton Lloyd	8	1	0	31	652	25.69	184
D Prestatyn (Victoria Avenue) ...	F. Wilkinson, Esq.	5	1	6	150	739	29.11	148
3.—SEVERN—Left Bank Tributaries. 7 sq. mi.								
DENBIGH. (Area, 668 sq. mi.)								
1.—DEE 270 sq. mi.								
D Chirk Castle Gardens	Mr. James Vert	6	1	2	625	1061	41.77	167
D Ruabon (Whitehurst)	„ „ „	5	1	1	327	957	37.67	182
D Cerrig-y-Druidion (Garthmeilio)	Col. S. Parr Lynes	5	1	0	925	1114	43.87	174
D† „ „ (Bwlch-y-beudy) No. 2	Col. C. S. Mainwaring	5	1	0	1050	1194	47.02	184
Wrexham (Ty Mawr Reservoir)	F. Storr, Esq., C.E.	5	0	9	805	995	39.17	179
„ (Pack Saddle Res.) ...	„ „ „	5	0	9	370	839	33.04	171
„ (Cae Llwyd Res.) ...	„ „ „	8	0	9	918	1024	40.32	180
„ „ „ „ „ „ „	„ „ „	5	0	9	918	1007	39.66	180
D „ (Broughton)	J. Hall, Esq.	5	1	0	500	960	37.80	188
„ (Gwersyllt)	S. H. V. Simmons, Esq.	5	1	0	283	712	28.05	...
D† Cerrig-y-Druidion (Hafod-llan-isaf) 1	J. H. Parkin, Esq.	5	1	0	1200	996	39.22	186
D† „ „ „ „ „ „ „ 2	„ „ „	5	1	2	1200	1040	40.96	185
† Pentre Voelas (Nant Heilyn) ...	„ „ „	5	1	0	1225	1242	48.88	...
D† Cerrig-y-Druidion (Hafod-yr-Onen)	„ „ „	5	1	0	1175	1105	43.49	192
† Nantglyn (Pant-y-maen)	M „ „ „	8	1	0	1320	1281	50.43	...
† Llyn Bran	M „ „ „	8	1	0	1428	1325	52.16	...
2.—CLWYD & C. 267 sq. mi.								
D Gyffyllog (Fachlwyd Hall)	Elliott S. Currey, Esq.	5	1	0	640	1035	40.76	216
D Ruthin (Tymawr)	Maj.-Gen. C. L. Cary	5	1	0	400	828	32.59	197
D „ (Llanbedr Hall)	Dr. G. A. Crace-Calvert	5	1	0	451	815	32.07	168
D Llangerniew (Hafodunos)	Lt.-Col. T. Gee	5	2	6	512	1174	46.23	156
Llanefydd (Rhyl W.W., S.) ... M	L. G. Hall, Esq., C.E.	5	1	0	600	839	33.04	...
„ „ „ „ „ „ „ W.) ... M	„ „ „	5	1	0	580	757	29.80	...
D „ (Plas Uchaf Res.) ...	„ „ „	5	1	0	485	726	28.60	159
D „ (Glascoed Reservoir) ..	„ „ „	5	1	0	360	756	29.78	163
D Llangynhafal (Plas Drâw)	Col. C. J. Bromhead, C.B.	5	1	0	419	889	34.99	220
D† Denbigh (Asylum)	W. Barker, Esq.	5	0	10	316	836	32.92	184
D „ (Garn)	W. D. W. Griffith, Esq.	5	1	0	447	840	33.06	198
Trefnant (Maes Elwy)	Major R. F. Birch	5	1	3	150	650	25.60	...
Wylfair [St. Asaph]	Col. H. R. L. Howard, C.B.	8	2	6	250	786	30.94	...
Colwyn Bay (Council Offices) ...	W. Jones, Esq., C.E.	8	1	0	82	856	33.69	...
3.—CONWAY. 84 sq. mi.								
D Pentre Foelas (Voelas Hall)	Mr. T. Dickie	5	1	3	640	1355	53.34	183
D† Llanrwst (County School)	Rev. J. I. Farr	5	1	4	55	1186	46.69	184
D Tal-y-cafn (Bodnant Hall)	Mr. George Gurney	8	1	6	120	982	38.67	191
4.—SEVERN—Left Bank Tributaries. 47 sq. mi.								
D Llangadwaladr (Penygwely Res.)	G. W. Lacey, Esq., C.E.	5	1	0	1094	1012	39.83	186

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0·1 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
MERIONETH. (Area, 661 sq. mi.)								
1.—DEE. 218 sq. mi.								
† Bala (Eryl Aran)	Mrs. Burton	8	1	0	600	1487	58·53	201
† Llanderfel (Palé Gardens)	Mr. E. J. Edwards	8	1	0	606	1421	55·96	210
Llandrillo (Tyddysillan)	Hon. R. Henley Eden.....	8	1	6	515	1247	49·11	198
Corwen (Rûg Gardens).....	Mr. W. B. Burchill	8	1	2	500	989	38·95	...
2.—CLWYD. 7 sq. mi.								
3.—GLASLYN. 92 sq. mi.								
† Tan-y-bwlch (The Gardens) ...	Mr. J. Roberts	5	1	0	50	1751	68·94	213
† Festiniog (Morwynion Lake)..(R)	E. Lewis Evans, Esq.....	4	10	0	1320	1716	67·58	190
† Blaenau Festiniog (Oakley Quarries)	R. H. Jones, Esq.	5	10	0	1100	2421	95·32	...
„ „ (Llechwedd „)	Messrs J. W. Greaves & Sons	5	1	0	770	2564	100·93	227
4.—MAWDDACH & C. 262 sq. mi.								
† Towyn (Peniarth)	Mrs. Wynne	8	1	0	25	1234	48·57	207
† Dolgelly (Dr. Williams' School) ..	Miss F. A. Anstey.....	5	2	0	30	1699	66·90	...
„ „ (Bryntirion)	E. P. Beale, Esq.	5	0	10	50	1552	61·11	187
„ „ (Hafod Fawr).....	T. Hyett, Esq., per M.O.	8	1	0	800	1995	78·54	189
5.—DOVEY. 82 sq. mi.								
† Aberdovey	W. J. Eves, Esq.	5	1	0	22	1032	40·63	204
„ „ (Plas Penhelig)	J. M. Howell, Esq.....	5	1	6	130	1047	41·23	183
„ „ (Ffroneithyn)	G. M. S. Farmer, Esq.	5	1	0	200	994	39·14	...
Pennal (Talgarth Hall).....	Frank Gott, Esq.	5	0	5	125	1516	59·68	166
6.—SEVERN—Left Bank Tributaries.								
CARNARVON. (Area, 572 sq. mi.)								
1.—[BARDSEY ISLAND.]								
2.—CONWAY & C. 146 sq. mi.								
† Penmachno (Nant-y-Crogwyn) ..	Mr. Idwal Pritchard	5	1	0	750	1901	74·84	182
† Snowdon (Pen-y-Gwryd) ..No. 13	A. Lockwood, Esq.	5	1	0	916	3026	119·12	231
† Bettws-y-Coed (Tyn-y-bryn) ...	Percivale Bouch, Esq.	8	31	6	125	1304	51·36	216
† Lake Cowlyd (Llethyr Gwyn) C	C. F. Farrington, Esq.	5	1	0	1700	1773	69·81	203
† „ „ (Gors-y-Llithrig) D	„ „ „ „	5	1	0	1900	1797	70·74	202
† „ „ (Ffrith Fawr) ... B	„ „ „ „	5	1	0	1700	1881	74·07	202
† „ „ („ Carreg Wen) A	„ „ „ „	5	1	0	1168	1925	75·79	205
† Lake Eigiau (Dam Site)	H. J. Jack, Esq.	5	1	0	1245	1930	75·97	176
Llanbedr-y-Cennin (Plasdulyn) ..	W. T. Ward, Esq.	8	1	0	509	1466	57·72	...
„ „ „ (Llyndulyn)	„ „ „ „	8	1	6	1632	1567	61·70	166
Deganwy (Y Berlfa).....(R)	Willoughby Gardner, Esq.	8	1	0	30	831	32·73	...
„ „ (Bryn Estyn)	Miss A. M. Simpson	5	1	0	100	794	31·27	...
† Llandudno	W. Little, Esq.	5	1	0	72	855	33·66	176
3.—MENAI STRAITS. 221 sq. mi.								
† Madryn Castle (Farm School) ...	A. Turner, Esq.	5	1	0	285	1070	42·13	188
Nantlle (Dorothea Quarries) ... M	W. J. Griffith, Esq.	8	2	0	450	1460	57·50	...
† Llandwrog (Glynllivon Park) ...	Hon. F. G. Wynn.....	5	1	0	100	1078	42·46	...
† „ „ („ Nursery)	„ „ „ „	5	1	0	180	1123	44·20	190
† „ „ („ Garden)	„ „ „ „	5	1	0	100	1048	41·25	...
† „ „ („ Fort) ...	„ „ „ „	5	1	0	180	1090	42·93	197
Carnarvon (Belan Fort).....	„ „ „ „	5	1	0	12	851	33·50	...
† Llanberis (Bryntirion)	Mr. H. J. Jones	5	3	0	900	1802	70·93	214
„ „ (Brynrefail School) ...	J. Rees Foster, Esq.	5	1	0	356	1440	56·68	207

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above Ground, Sea Level			1915		
		in.	ft.	in.	feet.	mm.	inches.	
CARNARVON—(con.)								
3.—MENAI STRAITS—(con.)								
Llanberis (Llandinorwig School)	John Roberts, Esq.	5	1	0	850	1387	54·61	221
D Llanrug (Llys Eiddon)	J. Rees Foster, Esq.	5	1	0	400	1110	43·71	197
D Bethesda (St. Ann's Vicarage)	Rev. W. Morgan	5	2	6	400	1576	62·03	208
D „ (Penrhyn Quarries)	W. D. Hobson, Esq.	8	1	0	528	1723	67·82	218
D Bangor (Penrhyn Castle Gdns.)	Mr. W. Speed	5	1	0	150	966	38·05	167
D Llanfairfechan	Mr. W. Timmins	5	1	0	144	1126	44·33	162
Penmaenmawr (Mountain Res.)	R. J. Hughes, Esq.	5	1	6	1200	1444	56·85	...
D „ (Council Offices)	„ „ „	5	1	6	100	916	36·07	156
4.—ERCH & C. 155 sq. mi.								
D Abersoch	W.H. Winterbotham, Esq.	8	1	0	100	1114	43·85	187
„ (Nanhoron)	C. H. Lloyd Edwards, Esq.	8	1	0	150	1048	41·27	...
D Bryncreos (Schoolhouse)	E. R. Williams, Esq.	5	0	11	320	1168	45·98	199
Pwllheli (Bodfean Hall)	Hon. F. G. Wynn	5	1	0	200	1096	43·13	...
5.—GLASLYN. 50 sq. mi.								
† Portmadoc (Wern Gardens)	R. M. Greaves, Esq.	5	1	0	90	1274	50·14	...
Beddgelert (Council School)	David Jones, Esq.	5	1	0	133	2320	91·36	172
Snowdon (Wenallt) No. 6	A. Lockwood, Esq.	5	1	2	1050	3023	119·02	...
„ (Cwm Dyli) No. 11	„ „ „	5	1	0	310	2757	108·54	...
„ (Old Road) No. 14	„ „ „	5	0	10	325	2537	99·88	...
„ (Lliwedd) No. 2	„ „ „	5	1	3	1485	3205	126·18	...
„ (Delta) No. 7	„ „ „	5	1	0	1435	3530	138·99	...
„ (Glaslyn) No. 3	„ „ „	5	0	8	2050	2909	114·53	...
„ (Teyrn) No. 1	„ „ „	5	1	0	1080	2959	116·49	...
„ (Llyn Llydaw Intake) No. 10	„ „ „	5	1	0	1480	2988	117·65	...
„ („ „ Copper Mill) No. 9B	„ „ „	5	1	5	1480	3408	134·16	...
„ (Llyn Llydaw, N.) No. 5	„ „ „	5	1	0	1470	2916	114·82	...
ANGLESEY. (Area, 275 sq. mi.)								
Llanddwyn Island	Hon. F. G. Wynn	5	1	0	24	777	30·60	...
D Dwyran (Menaifron)	W. E. Sotheby, Esq.	8	1	0	17	791	31·13	166
D Llanddaniel-Fab (Porthamel)	Hon. Cecil S. Irby	5	0	9	70	914	36·00	185
D† Llangadwaladr (Bodorgan)	Mr. W. Pilgrim	5	1	0	100	903	35·55	195
D Llangwilog (Trescawen)	J.H. Pritchard-Rayner Esq.	5	1	0	239	1033	40·68	183
† Holyhead (Sailors' Home)	Meteorological Office	5	1	0	15	887	34·93	181
D Bodedern (Pressaddfed)	Lt.-Col. W. A. Fox-Pitt	5	0	11	150	965	37·99	151
D Llantrisant Rectory	Rev. Daniel Morgan	5	1	6	300	935	36·80	213
D Llanerchymedd Llwydiarth Esgob	T. Prichard, Esq.	5	1	0	175	934	36·76	211
D Lligwy	Lord Boston	5	1	0	170	854	33·63	175
Amlwch (Dyffryn Adda)	T. Fanning Evans, Esq.	5	1	2	178	852	33·55	188
ISLE OF MAN. (Area, 227 sq. mi.)								
Castletown (Langness)	Board of Northern Lights	8	1	0	75	752	29·61	164
Santon Vicarage	Rev. R. Jones	5	0	10	245	902	35·52	198
Douglashead	Board of Northern Lights	...	...	...	...	814	32·05	...
D† Douglas (Borough Cemetery)	A. D. Barron, Esq.	8	1	0	284	1042	41·03	195
D† „ (Clype Res., Onchan)	Mr. W. Crebbin	8	1	0	420	1168	46·00	202

DIVISION XI.—MONMOUTH, WALES, AND THE ISLANDS—(*continued*).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
ISLE OF MAN—(con.)		in.	ft.	in.	feet.	mm.	inches.	
Maughold Head.....	Board of Northern Lights	...	...	...	...	835	32.86	...
† Ramsey (Town Hall).....	G. W. Kewin, Esq.	8	15	0	18	1149	45.22	170
† „ (North Promenade).....	„ „ „ „	5	2	0	5	1156	45.53	187
Point of Ayre.....	Board of Northern Lights	3	4	6	116	940	36.99	...
CHANNEL ISLANDS. (Area, 76 sq. mi.)								
JERSEY. (45 sq. mi.)								
† St. Helier W.W. (Millbrook Valley)	A. J. Jenkins, Esq., C.E.	5	0	11	52	958	37.71	166
† St. Saviours (Clifton)	C. V. Hawksford, Esq.	5	2	2	215	999	39.33	189
† St. Helier (St. Louis Obsy.)... (R)	Rev. M. Dechevrens, S.J.	8	5	9	180	876	34.50	169
† St. Aubins (Railway Station) ...	Meteorological Office	8	1	9	25	913	35.93	175
† „ (Belle Vue)	C. V. Hawksford, Esq.	5	1	0	220	901	35.47	161
Grouville (Gouray Lodge).....	„ „ „ „	5	...	...	100	904	35.61	...
St. Ouen's Manor	R. Malet de Carteret, Esq.	5	2	0	270	944	37.16	175
Trinity Rectory	C. V. Hawksford, Esq.	5	...	...	410	1034	40.71	183
GUERNSEY. (25 sq. mi.)								
† St. Martins (Les Blanchés)	B. T. Rowswell, Esq.	5	1	0	310	1062	41.82	189
† „ (Hautnez)	A. Collenette, Esq.	5	0	8	343	1080	42.54	197
† Villiaze	„ „ „ „	5	0	6	337	1009	39.74	198
† St. Saviours (Le Mont Saint) ...	S. Carey Curtis, Esq.	5	1	0	105	907	35.71	157
† St. Peter Port (St. Martin's Rd.)	A. Collenette, Esq.	5	1	0	295	1102	43.39	188
† „ „ (Market Street)...	B. T. Rowswell, Esq.	5	52	8	100	1116	43.93	188
† „ „ (Villa Carey).....	Dr. F. E. Carey	8	1	6	180	1088	42.85	180
† „ „ (Rohais).....	T. J. Guilbert, Esq.	5	1	0	124	1066	41.98	216
† Castel (St. George)	Rev. H. G. de C. S. Guille	5	0	10	120	987	38.85	210
SARK. (2 sq. mi.)								
HERM. (1 sq. mi.)								
ALDERNEY. (3 sq. mi.)								
† Le Huret	B. T. Rowswell, Esq.	5	1	0	245	1065	41.94	160

SCOTLAND.

DIVISION XII.—SOUTHERN COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with '01 in. or more
		Diam.	Height Above Ground. SeaLevel			1915		
		in.	ft.	in.	feet.	mm.	inches.	
WIGTOWN. (Area, 488 sq. mi.)								
1.—LOCH RYAN. 46 sq. mi.								
Loch Ryan Lighthouse	Board of Northern Lights	...	...		46	893	35·15	...
2.—WESTERN GALLOWAY. 44 sq. mi.								
Mull of Galloway	Board of Northern Lights	...	...		327	684	26·94	...
D Logan House	K. McDouall, Esq.....	7	0	8	80	793	31·23	201
Corsewall	Board of Northern Lights	...	3	4	112	921	36·27	...
3.—LUCE BAY. 186 sq. mi.								
D Stoneykirk (Ardwell House).....	Sir M. McT. Stewart, Bt.	8	2	4	65	887	34·93	177
D Glenluce (Crews)	Peter Taylor, Esq.....	5	1	9	218	938	36·93	173
4.—CREE & WIGTOWN BAY. 212 sq. mi.								
D Whithorn (Cutroach)	J. G. Martin, Esq.....	5	0	6	120	927	36·48	176
D „	Dr. J. F. Smith	5	0	8	207	956	37·63	176
Garliestown (Galloway House)...	Mr. J. R. Crosbie	5	3	9	20	761	29·97	...
KIRKCUDBRIGHT. (Area, 902 sq. mi.)								
1.—DOON. 16 sq. mi.								
2.—CREE & WIGTOWN BAY. 222 sq. mi.								
Gatehouse (Cally)	Col.F.M.Baillie, <i>per</i> M.O.S.	5	1	0	120	1135	44·69	154
Creetown (Cassencary)	J.A. Henryson-Caird, Esq.	5	0	8	50	1057	41·62	180
D Palnure (Bargaly)	Mrs. Colvin Stewart	8	3	5	50	1279	50·34	155
Glenhead of Trool.....	J. McMillan, Esq.	5	0	11	320	1565	61·63	...
3.—DEE. 377 sq. mi.								
Little Ross Lighthouse.....	Board of Northern Lights	...	3	3	175	735	28·95	152
Kirkcudbright (Balmae)	The Countess of Selkirk	5	0	8	150	887	34·92	...
D Dalry (Glendarroch)	Miss M. Barbour	5	0	11	192	1348	53·08	199
D Carsphairn (Shiel)	Mr. S. Wilson	5	1	0	850	1658	65·28	200
D „ (Knockgray)	The Misses Clark Kennedy	8	0	11	641	1356	53·38	195
4.—URR & C. 196 sq. mi.								
Auchencairn (Torr House)	W. Ovens, Esq.	5	0	8	50	1167	45·95	...
D Dalbeattie (Kirkennan)....	Wellwood Maxwell, Esq.	5	0	9	30	1158	45·61	200

DIVISION XII.—SOUTHERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
KIRKCUDBRIGHT—(con.)								
4.—URR & C—(con.)								
Dalbeattie (Little Richorn)	Mr. W. Kerr	5	0	9	54	1131	44·52	159
D Kirkpatrick Durham (Glenlair)..	Major J. A. W. Maxwell	5	0	6	250	1252	49·30	169
5.—NITH & C. 91 sq. mi.								
D Cargen [Dumfries]	Col. R. F. Dudgeon	5	0	10	80	1160	45·65	176
D Lochrutton (Dumfries W.W.)...	J. Smellie, Esq.	5	1	0	273	1126	44·34	206
D Lincluden House [Dumfries] ...	Miss Young.....	5	1	0	60	992	39·05	176
D Jardington [Dumfries].....	J. Rutherford, Esq.	5	1	0	50	932	36·69	172
DUMFRIES. (Area, 1074 sq. mi.)								
1.—CLYDE—Right Bank Tributaries. 5 sq. mi.								
2.—URR. 6 sq. mi.								
3.—NITH & C. 421 sq. mi.								
D Ruthwell (Comlongan Castle) ...	Mr. W. Brown	5	1	0	74	820	32·30	162
D Dumfries (Crichton Roy. Inst.)..	Mr. E. Joss.....	5	1	0	155	834	32·82	173
Moniaive (Glencrosh)	Miss Macmillan	5	1	2	350	1276	50·24	174
D „ (Maxwelton House) ...	Rev. Sir E. Laurie, Bart.	5	1	6	400	1232	48·52	196
D „ (Jarbruck).....	Cecil E. Laurie, Esq.....	8	1	2	350	1416	55·73	190
D Durrisdeer (Drumlanrig Gardens)	Mr. D. Inglis	5	0	9	191	1139	44·85	162
4.—ANNAN. 367 sq. mi.								
D Dalton (Whitecroft)	W. Maitland-Heriot, Esq.	5	0	6	240	1002	39·45	188
D Hoddam Castle	E. J. Brook, Esq., per S.M.S.	5	1	4	150	925	36·42	164
Ecclefechan (Knockhill)	ED Johnson-Fergusson, Esq.	5	0	9	150	901	35·46	...
D „ (Burnfoot)	Major H. C. Irving	5	0	10	160	968	38·12	185
D Dalton (School House)	P. C. Copland, Esq.	5	1	0	175	984	38·75	184
D „ (Kirkwood)	Arthur J. Steel, Esq.....	5	0	8	245	1145	45·08	197
D Lockerbie (Castle Milk)	Mr. J. T. Jeffrey	5	1	6	199	983	38·71	166
D Lochmaben (Esthwaite)	W. J. Halliday, Esq.....	5	1	0	166	972	38·27	183
Amisfield (Glenae).....	H. Sharpe Gordon, Esq...	5	0	11	300	972	38·25	153
Beattock (Kinnelhead)	J. Bartholomew, Esq.....	5	1	0	820	1191	46·90	...
„ (Road Exper. Station)	R. Paterson, Esq.	5	1	0	345	1076	42·35	...
Moffat (Craigielands).....	Bertram Smith, Esq.....	5	1	0	334	1144	45·05	...
D „ (Auchen Castle).....	Mr. J. Macgregor	5	0	6	500	1141	44·92	182
5.—ESK. 275 sq. mi.								
Rigg	Mr. W. Brown	5	1	0	65	899	35·40	183
Canonbie (Byreburnfoot)	Mr. David Crabbe	3	0	9	160	867	34·13	...
D „ (Irvine House)	J. H. Milne Home, Esq....	5	0	6	200	989	38·92	174
D Langholm (Drove Road)	Mrs. Jackson	5	0	9	270	1172	46·13	152
„ (Craig)	J. Little, Esq.	10	1	0	450	1068	42·06	...
„ (Ewes, Burnfoot).....	Miss H. C. Little	5	0	6	541	1129	44·44	...
„ „ („ School).....	Mrs. Lyall	5	1	0	445	1197	47·11	...
Eskdalemuir Observatory.....	Meteorological Office	11	2	0	799	1197	47·11	198
D „ „ „	„ „	8	1	0	798	1224	48·17	203
ROXBURGH. (Area, 666 sq. mi.)								
1.—NORTH TYNE. 6 sq. mi.								
2.—TWEED, LOWER—Right Bank Tributaries. 57 sq. mi.								
Kelso (Springwood Nurseries) ...	Messrs. Laing & Mather...	5	1	0	200	668	26·30	171

DIVISION XII.—SOUTHERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ≥ 0.1 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
ROXBURGH—(con.)								
	3.—TWEED—Teviot & c. 431 sq. mi.							
	Hawick (Wolfelee)	5	0	10	587	853	33.57	219
D	„ (Bransholme)	5	0	6	457	778	30.65	194
	Ancrum Bridge	5	2	0	229	660	26.00	...
D	Jedburgh (Ploughlands)	5	1	0	301	602	23.69	192
	Roxburgh (Sunlaws).....	5	0	9	251	709	27.93	...
	St. Boswells (Monksford)	5	0	11	320	607	23.88	...
D	„ „ (The Fens)	5	1	6	260	704	27.72	167
	Kelso (Springwood Park)	5	1	3	130	674	26.53	181
	4.—TWEED—Ettrick & c. 10 sq. mi.							
D	Melrose (Asylum)	5	0	6	480	786	30.94	225
D	„ „ „ „	5	1	0	480	730	28.72	225
	5.—TWEED—Gala. 6 sq. mi.							
	6.—TWEED—Leader & c. 25 sq. mi.							
	Melrose (Drygrange).....	5	1	0	360	654	25.74	...
	7.—TWEED, LOWER—Left Bank Tributaries. 25 sq. mi.							
D	Kelso (Broomlands)	5	1	0	193	641	25.25	190
	Smailholm (Sandyknowe).....	5	1	2	500	608	23.92	...
	8.—ESK. 106 sq. mi.							

DIVISION XIII.—SOUTH EASTERN COUNTIES.

SELKIRK. (Area, 268 sq. mi.)

1.— TWEED —Teviot & c. 34 sq. mi.								
^D Selkirk (Whitmuir Hall)	C. W. Dunlop, Esq.	5	1	0	800	765	30.11	160
2.— TWEED —Ettrick & c. 192 sq. mi.								
Edinburgh W. W. (Meggat Head) No 1	Messrs. Leslie & Reid, C.E.	5	1	3	1496	1332	52.44	...
Meggat Water (Cramilt Lodge) ...	Mr. C. S. Allan	5	0	4	1005	887	34.93	187
^D Selkirk (The Hangingshaw)	Miss Johnstone of Alva ...	6	0	6	670	809	31.84	150
3.— TWEED, UPPER —Right Bank Tributaries. 17 sq. mi.								
4.— TWEED, UPPER —Left Bank Tributaries. 19 sq. mi. ...								
^D Caddonfoot (Fairnilee)	Mr. T. Brown	5	1	0	450	760	29.94	157
Galashiels (The Peel, Clovenfords)	W. R. Ovens, Esq.	6	1	6	500	858	33.79	...
5.— TWEED —Gala. 6 sq. mi.								
^D Galashiels (Abbotsford Rd.)	Dr. J. W. Somerville	5	0	8	416	677	26.64	173
„ (Stantling Craigs) ...	Mr. J. Murray	12	1	3	800	806	31.72	...

PEEBLES. (Area, 348 sq. mi.)

1.— TWEED, UPPER —Right Bank Tributaries. 127 sq. mi.								
Edinburgh W. W. (Ravenscraig) 3 M	Messrs. Leslie & Reid, C.E.	5	1	3	2258	1535	60.45	...
„ „ (Gameshope Loch) 4 M	„ „ „ „	5	1	3	1860	1531	60.29	...
„ „ (Loch Craig Head) 2 M	„ „ „ „	5	1	0	2627	1465	57.67	...
^D „ „ (Gameshope Farm) 5a	„ „ „ „	5	1	3	1538	1364	53.71	234
„ „ „ „ „ „ No. 5 M	„ „ „ „	8	1	3	1538	1371	53.96	...
^D „ „ „ „ „ „ No. 6a	„ „ „ „	5	1	3	966	1390	54.72	229
„ „ „ „ „ „ „ „ No. 6 M	„ „ „ „	8	1	3	966	1376	54.17	...
^D „ „ „ „ „ „ „ „ No. 7a	„ „ „ „	5	1	3	1196	981	38.63	189

DIVISION XIII.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with '01 in. or more	
		Diam.	Height Above			1915			
			Ground	Sea Level		mm.	inches.		
PEEBLES —(con.)		in.	ft.	in.	feet.				
1.—TWEED, UPPER—Right Bank									
	Edinburgh W.W. (Quarter Hill) 7 M	Messrs. Leslie & Reid, C.E.	8	1	3	1196	1017	40·03	...
D	„ „(Victoria Lodge) No. 8	„ „ „	5	1	3	904	1050	41·34	203
	„ „(„ „) 8A M	„ „ „	8	1	3	904	1035	40·74	...
D	Stobo (Dawyck Gardens)	Mr. J. Simpson	5	1	1	600	867	34·13	166
2.—TWEED, UPPER—Left Bank									
	Stobo Castle	Tributaries. 192 sq. mi. J. Ainslie, Esq., per S.M.S.	3	1	0	600	874	34·42	...
	Innerleithen (Glen)	Mr. A. Black, per M.O.S.	...	...	...	750	984	38·76	182
D	Castlecraig [Dolphinton]	James Mann Esq. per S.M.S.	...	...	...	820	838	33·01	179
D	West Linton (Woodlee Cottage)	Messrs. Leslie & Reid, C.E.	5	1	0	801	791	31·15	198
D	„ „ (Dalziel House) ...	Dr. J. R. Jeffrey	5	1	0	770	874	34·42	199
3.—ESK. 23 sq. mi.									
D	Eddlestone (Portmore Reservoir)	Messrs. Leslie & Reid, C.E.	11	1	0	1000	868	34·16	188
	„ „(„ „) M	„ „ „	11	1	0	1007	855	33·65	...
	N. Esk Reservoir [Penicuik] ...	Mr. W. Tod	11	0	6	1150	865	34·05	...
4.—CLYDE—Right Bank Tributaries. 6 sq. mi.									
BERWICK. (Area, 457 sq. mi.)									
1.—TWEED—Gala. 6 sq. mi.									
2.—TWEED—Leader. 92 sq. mi.									
D	Earlston (Cowdenknowes)	Mr. J. Smith	5	0	10	360	660	25·97	154
3.—TWEED, LOWER—Left Bank									
	Coldstream (Lochton)	Tributaries. 115 sq. mi. J. Aitchison, Esq.	5	1	0	151	659	25·96	...
D	„ (The Hirsell)	Mr. P. MacAndrew	5	1	0	94	652	25·66	171
D	Swinton House	Snowdon A. E. Swinton, Esq.	5	1	0	200	643	25·31	181
D	„ „	„ „ „	5	0	10	200	650	25·59	186
4.—TWEED—Whiteadder. 164 sq. mi.									
D	Marchmont House	Mr. J. A. Wood	5	1	0	498	853	33·57	181
D	Duns Castle	Mr. P. Smith	5	1	0	500	834	32·83	164
D	„ (Manderston)	Mr. F. J. Marshall	5	1	6	356	897	35·33	183
	West Foulden	J. Hewat Craw, Esq.	5	1	0	240	658	25·92	...
5.—EAST COAST STREAMS. 80 sq. mi.									
	St. Abb's (Northfield)	J. A. Morrison, Esq.	5	0	8	130	666	26·20	...
	„ „ Head	Board of Northern Lights	8	4	3	224	831	32·73	...
HADDINGTON. (Area, 267 sq. mi.)									
1.—TWEED—Leader. 1 sq. mi.									
2.—TWEED—Whiteadder. 35 sq. mi.									
3.—EAST COAST STREAMS. 69 sq. mi.									
	Garvald (Donolly Reservoir) ...	A. G. Merriles, Esq., C.E.	5	1	6	600	797	31·38	...
	„ (Thorster Reservoir)	„ „ „	5	1	6	700	640	25·18	...
	Prestonkirk (Beil)	W. S. Curr, Esq., per S.M.S.	5	1	6	180	714	28·12	...
	Barnsness Lighthouse	Board of Northern Lights	...	...	...	120	658	25·89	...
4.—TYNE & C. 114 sq. mi.									
D	East Linton (Knowes Farm) ...	Peter Clarke, Esq.	5	1	0	80	799	31·44	169
	Prestonkirk (Smeaton)	Sir A. Buchan-Hepburn Bt per SMS	7	7	10	100	726	28·57	...
5.—FIRTH OF FORTH. 48 sq. mi.									
	Drummore [Musselburgh]	Miss Aitchison, per S.M.S.	5	1	0	75	615	24·21	...
D	Gullane (The Warren)	H. E. Meek, Esq.	8	1	0	115	713	28·07	199
D	North Berwick Reservoir ...	A. G. Merriles, Esq., C.E.	5	1	6	150	691	27·22	161
6.—INSULAR.									

DIVISION XIII.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
MIDLOTHIAN. (Area, 369 sq. mi.)								
1.—TWEED—Gala. 68 sq. mi.								
2.—TYNE. 28 sq. mi.								
3.—FIRTH OF FORTH. 3 sq. mi.								
D Oxenford Castle Gardens	Mr. A. C. Scott	5	1	2	450	673	26.48	152
4.—ESK. 129 sq. mi.								
Moorfoot Hills (Bowbate)..... M	Messrs. Leslie & Reid, C.E.	11	0	6	1260	1243	48.93	...
D " " (Gladhouse Res.)	" " " "	5	0	8	915	917	36.10	226
D " " (" ") M	" " " "	8	1	0	915	885	34.84	...
D " " (Rosebery)	" " " "	4	0	9	750	799	31.47	212
D " " (" ") M	" " " "	11	0	9	750	756	29.75	...
D " " (Edgelaw)	" " " "	4	0	10	654	819	32.23	212
D " " (" ") M	" " " "	11	0	10	654	785	30.90	...
D Penicuik (Brunstane Cottage)...	" " " "	5	1	0	800	851	33.49	203
Pentland Hills (Harehill)	" " " "	11	1	7	1297	976	38.41	...
D " " (Martyrs Cross)...	" " " "	5	1	0	750	803	31.63	218
D " " (Loganlea)	" " " "	5	1	0	811	898	35.36	204
D " " (" ") M	" " " "	8	1	4	813	811	31.93	...
D " " (Glencorse Filters)	" " " "	5	1	0	639	863	33.97	210
D " " (" ") M	" " " "	11	1	0	639	881	34.70	...
D " " (Glen Cottage) ...	" " " "	5	1	2	739	882	34.72	210
D " " (" ") M	" " " "	8	1	2	738	858	33.80	...
D " " (Swanston)	" " " "	5	0	6	550	725	28.55	185
D " " (" ") M	" " " "	11	0	6	550	773	30.42	...
D " " (Fairmilehead)...	" " " "	5	1	0	590	816	32.12	172
D Dalkeith Gardens	Mr. J. Whytock	5	1	0	144	610	24.01	153
D Liberton (Alnwick Hill)	Messrs. Leslie & Reid, C.E.	5	1	0	407	674	26.52	173
D " " (" ") M	" " " "	8	1	0	407	661	26.03	...
D " " (College Garden)	Mr. J. Harris	5	1	0	190	714	28.10	181
5.—ALMOND & C. 140 sq. mi.								
D Pentland Hills (Crosswood)	Messrs. Leslie & Reid, C.E.	5	1	0	950	910	35.84	172
D " " (" ") M	" " " "	8	1	0	950	911	35.86	...
D " " (Harperrig)	" " " "	5	1	0	900	925	36.42	216
D " " (" ") M	" " " "	8	1	0	900	908	35.76	...
D " " (Morton)	" " " "	5	1	0	749	870	34.27	210
West Calder (Addiewell)	T. W. Steven, Esq.	5	0	6	600	785	30.92	...
D Balerno (Cockburn Hill)	R. Cross, Esq.	5	1	0	767	878	34.56	167
D Pentland Hills (Harlaw Res.) ...	Messrs. Leslie & Reid, C.E.	5	1	0	800	796	31.36	201
D " " (" ") M	" " " "	11	0	9	800	806	31.75	...
D " " (Bonally Res.*) ..	" " " "	11	0	6	1112	785	30.92	...
D " " (Clubbiedean Res.) ..	" " " "	4	0	6	773	678	26.70	...
D " " (" ") M	" " " "	11	0	9	773	762	30.00	...
D " " (Firhill Tank) ...	" " " "	5	0	6	412	830	32.67	187
D Liberton (The Inch)	Gen. R. Gordon Gilmour, CB	...	2	9	60	702	27.65	151
D† Edinburgh (Royal Observatory)	Prof. R. A. Sampson, F.R.S.	8	1	0	442	684	26.95	171
D " (The Academy)	M. Fairgrieve, Esq. per SMS	...	...	...	...	642	25.27	...
D† " (Univ. Engin. Lab.) ..	Prof. T. Hudson Beare ...	5	1	0	227	760	29.91	174
D " (" ") M	" " " "	5	1	0	227	739	29.11	...
D " (St. Roque)	H. B. Waugh, Esq. per SMS	...	...	...	...	747	29.40	...
D " (City Observatory) ...	W. Peck, Esq.	8	1	0	349	723	28.47	170

* Formerly called Harbour Hill.

DIVISION XIII.—SOUTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with '01 in. or more
		Diam.	Height Above Ground.			1915		
		in.	ft.	in.	feet.	mm.	inches.	
MIDLOTHIAN—(con.)								
5.—ALMOND & C—(con.)								
+Edinburgh (Charlotte Square)...	Messrs. Leslie & Reid, c.E.	11	1	6	190	688	27·09	...
" " " " "	" " " "	12	63	0	300	523	20·59	...
Leith	Meteorological Office	8	1	8	18	657	25·87	156
" (Navigation School).....	J. Bolam, Esq., per S.M.S.	5	0	5	76	668	26·32	...
d Davidson's Mains (Broomfield)...	Mr. C. Comfort	5	0	10	42	615	24·21	157
6.—CLYDE—Right Bank Tributari	es. 1 sq. mi.							
LINLITHGOW. (Area,	120 sq. mi.)							
1.—ALMOND & C. 60 sq. mi.								
Uphall (near Bangour) No. 7 M	Messrs. Leslie & Reid, c.E.	8	1	4	790	765	30·11	...
" { " " } No. 8 M	" " "	8	1	5	577	791	31·13	...
" { " " } No. 6 M	" " "	8	1	4	680	711	27·99	...
" { " " } No. 3 M	" " "	8	1	2	711	744	29·30	...
d " (Bangour Asylum)	Dr. J. Keay	5	1	0	586	688	27·07	185
"	T. W. Steven, Esq.	5	0	10	380	751	29·57	...
Kirkliston (Newliston)	S. B. Hog, Esq., per S.M.S.	...			140	689	27·11	...
d Dalmeny House	Mr. D. T. Johnston	5	0	8	55	632	24·89	170
2.—FORTH—Right Bank Tributa	ries. 59 sq. mi.							
d Bathgate (Boghead House)	Mr. A. Ferguson	5	2	0	500	794	31·25	166
d " (Filters) No. 1	A. L. Reid, Esq.	5	0	9	640	746	29·35	178
" (Petershill Res.) No. 2	" " "	5	0	9	710	705	27·77	...
" (Ballencrieff Res.)No. 3	" " "	5	0	9	730	687	27·06	...
Torphichen (Lochcote)	M John Louden, Esq.	5	0	4	550	762	29·99	...
Carribber Reservoir	M " " "	5	0	4	400	713	28·08	...
d Linlithgow (Grange).....	H. M. Cadell, Esq.	5	0	6	430	787	30·99	155
d " (Preston House).....	Mr. C. Blair	5	0	8	380	794	31·28	163
d " Academy	J. Beveridge, Esq.....	5	1	0	170	938	36·93	220
" " " " "M	" " " "	5	1	0	170	943	37·14	...
" (Avontoun House) ...	C. C. Maconochie, Esq....	5	0	6	117	801	31·52	...
Queensferry (Hopetoun)	T. W. Steven, Esq.	8	7	10	304	619	24·38	...
Bo'ness (Neidpath Cottage)	Mr. J. Grant	5	3	0	200	648	25·50	...
3.—CLYDE—Right Bank Tributari	es. 1 sq. mi.							

DIVISION XIV.—SOUTH WESTERN COUNTIES.

LANARK. (Area, 881 sq. mi.)

[illegible]

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.		Days with 0·1 in. or more	
		Diam.	Height Above Ground Sea Level		1915			
		in.	ft.	in.	feet.	mm.	inches.	
LANARK—(con.)								
4.—CLYDE—Right Bank Tributaries—(con.)								
D Lamington Gardens	Mr. A. Milne, <i>per</i> S.M.S.	5	1	4	800	770	30·32	156
Biggar (Shieldhill)	Miss Dunlop	5	1	2	850	716	28·19	...
D " " "	" " "	5	<i>on roof</i>		850	677	26·64	193
Lanark (Rhyber Lodge)	R. Swann, Esq.	6	3	0	650	663	26·10	...
D Cleghorn Gardens	Mrs. Elliott Lockhart	5	0	6	720	712	28·03	152
Carlukie (Coldstream Reservoir) ..	W. Ross, Esq., C.E.	11	1	0	800	814	32·05	...
D " (Mauldslie Castle)	Mr. D. Bryson	5	1	0	140	699	27·51	152
D Motherwell (Dalzell Gardens) ..	Mr. W. Mackie	6	5	6	170	689	27·12	174
D Glasgow (Belvedere Hospital) ..	Dr. T. Archibald	5	1	1	60	688	27·09	189
" (Tollcross Park)	J. Whitton, Esq.	5	0	6	85	765	30·13	...
" Green	" " "	5	0	6	35	725	28·55	...
" (Alexandra Park)	" " "	5	0	6	141	786	30·95	...
D " Observatory	(R) Prof. L. Becker	11	2	0	182	786	30·93	190
† " (Botanic Gardens)	J. Whitton, Esq.	5	0	6	110	776	30·55	...
" (Kelvingrove Park) ..	" " "	5	0	6	48	762	30·00	...
" (Victoria Park)	" " "	5	0	6	...	779	30·67	...
" (Ruchill Park)	" " "	5	0	6	220	739	29·11	...
" (Springburn Park)	" " "	5	0	6	352	797	31·38	...
" " " "	Meteorological Office	8	1	0	351	805	31·68	...
† Airdrie (Broomknoll Street)	J. Chisholm, Esq., C.E.	5	1	0	402	806	31·73	...
D " (Rosemount)	A. B. Motherwell, Esq.	5	1	6	570	869	34·23	174
D " (Hillend Reservoir)	Mr. W. A. Ritchie	5	3	6	620	854	33·62	169
† Clarkston (Roughrigg Reservoir) ..	J. Chisholm, Esq., C.E.	5	1	0	661	835	32·89	...
D Gartcosh (Gartloch Hospital) ..	Mr. James McEwen	5	1	1	291	827	32·57	193
5.—CLYDE—Left Bank Tributaries. 448 sq. mi.								
† Leadhills	J. McFarlane Esq. <i>per</i> MOS	5	1	1	1310	1648	64·87	189
† Strathaven (Glengavel Reservoir) ..	J. McMillan, Esq., C.E.	5	1	0	880	971	38·22	197
" (Dungavel)	J. D. Wallace, Esq. <i>per</i> SMS	5	1	0	800	1055	41·55	190
† " (Kype Reservoir) ..	W. H. Purdie, Esq.	11	3	0	941	1018	40·10	166
" (Dunside Reservoir) ..	J. McMillan, Esq., C.E.	5	...		1010	909	35·80	173
D " (East Overton House) ..	H. Lee Dykes, Esq.	5	1	0	700	845	33·28	142
D Stonehouse (Road Exper. Stat.) ..	J. Watson, Esq.	5	1	0	525	777	30·60	178
" (Glassford Filters) ..	J. McMillan, Esq., C.E.	5	...		750	831	32·70	185
Hamilton W.W. (Townhill)	W. H. Purdie, Esq.	7	1	0	436	789	31·07	...
D " (Laighstone Hall)	Rev. T. M. B. Paterson	5	1	9	260	784	30·87	167
" Palace	J. Macaulay, Esq. <i>per</i> MOS		140	689	27·11	157
Busby (Thornton Hall)	A. Henderson Bishop, Esq.	5	1	0	441	795	31·30	...
D Carmunnock (Carnbooth)	R. Robertson, Esq., C.E.	5	1	0	365	853	33·57	198
Cambuslang (Greenlees Filters) ..	J. McMillan, Esq., C.E.	8	...		322	714	28·11	...
Glasgow (Bellahouston Park) ..	J. Whitton, Esq.	5	0	6	160	671	26·43	...
" (Elder Park)	" " "	5	0	6	..	760	29·91	...
6.—IRVINE. 2 sq. mi.								
7.—AYR. 1 sq. mi.								
8.—NITH. 2 sq. mi.								
9.—ANNAN. 7 sq. mi.								
AYR. (Area, 1135 sq. mi.)								
1.—CLYDE—Left Bank Tributaries. 20 sq. mi.								
D Glengarnock (Chemical Works) ..	G. Harrower, Esq.	8	1	6	100	1120	44·08	166

DIVISION XIV.—SOUTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
AYR—(con.)								
2.—FIRTH OF CLYDE. 60 sq. mi.								
Largs (Curling Hall).....	J. Clark-Neill, Esq. ....	...	...	...	...	880	34.66	...
Shaws Water Works (Kelly Dam)	D. Macalister, Esq., C.E.	6	1	0	640	1306	51.40	...
„ „ (Knockencorsan)	„ „ „	6	1	0	1040	1407	55.40	...
3.—IRVINE & C. 283 sq. mi.								
d Ayr (Collier Row, St. Quinox)...	Allan Stevenson, Esq. ...	5	1	6	93	719	28.30	181
d Kilmarnock (Agricultural College)	Prof. R. A. Berry	8	1	2	80	826	32.53	189
„ (North Craig Res.)...	R. Blackwood, Esq.	12	1	0	319	848	33.40	...
Kilwinning (Eglinton Castle) ...	Mr. W. Priest.....	5	1	0	50	852	33.53	...
d Stevenston (Greenhead Filters)...	Gilbert Christie, Esq., C.E.	5	1	0	186	876	34.47	167
Dalry (Blair Gardens)	Mr. J. Fairley.....	5	1	3	155	1068	42.06	154
d „ (Munnock Reservoir)	Gilbert Christie, Esq., C.E.	5	1	0	325	1002	39.43	167
d „ (Caaf Reservoir).....	„ „ „	5	1	3	515	1078	42.46	168
„ (Camphill Reservoir)	James Lee, Esq., C.E.....	12	1	6	611	1242	48.90	...
Beith (Filter Station)	W.C. Dale, Esq., per S.M.S.	5	6	0	384	902	35.51	...
4.—AYR. 222 sq. mi.								
Ayr (Glendrishaig)	Miss Jean Murdoch	10	3	0	42	704	27.70	...
d „ Cemetery	J. Young, Esq., C.E.....	5	1	0	40	764	30.09	155
5.—DOON. 119 sq. mi.								
Loch Finlas.....	J. Young, Esq., C.E.....	5	1	0	849	1258	49.52	...
d Dalmellington (Benwhat).....	A. Gillespie, Esq.	5	...	...	1177	1302	51.26	160
Maybole (Knockdon Farm) ... M	Mr. W. Muir	5	1	6	352	796	31.35	...
„ („ „ „) ... M	„ „ „	8	1	6	352	731	28.78	...
Patna (County Filters).....	Mssrs J & H V Eaglesham & Co	11	1	0	743	941	37.05	...
d Ayr (Doonholm).....	J. Kennedy, Esq.	5	1	0	90	821	32.31	...
6.—CULZEAN BAY & C. 32 sq. mi.								
Turnberry (Lighthouse)	Board of Northern Lights	...	...	...	...	781	30.76	149
„ (Hotel)	Mr. J. Richards	5	1	0	97	660	25.99	162
d Maybole (Culzean Gardens)	Mr. R. G. Hepburn	8	2	8	150	735	28.93	157
7.—GIRVAN. 105 sq. mi.								
Girvan (Glendoune Gardens) ...	Mr. J. Simons	5	1	0	100	982	38.66	152
d „ (Sunnyside, Golf Course)	D. Macdonald, Esq.	5	1	0	27	896	35.29	180
Loch Bradan	Mssrs J & H V Eaglesham & Co	11	1	0	991	1293	50.91	...
8.—STINCHAR & C. 155 sq. mi.								
Barrhill (Dochroyle)	Mr. J. Scott	6	1	0	548	868	34.19	...
Colmonell (Knockdolian)	Mr. A. Ogg, per M.O.S. ...	5	1	0	170	970	38.19	193
d Girvan (Pinmore) ..	Miss Hamilton	5	0	5	207	1121	44.12	193
Barr Manse	Rev. G. Dods.....	5	1	0	330	1152	45.34	183
9.—LOCH RYAN. 12 sq. mi.								
10.—LUCE BAY. 15 sq. mi.								
Ballantrae (Lagafater Lodge) ...	C. R. Boulton, Esq.	5	0	11	792	1373	54.06	172
11.—CREE. 40 sq. mi.								
12.—DEE. 9 sq. mi.								
13.—NITH. 62 sq. mi.								
d New Cumnock (Ayr Sanatorium)	Dr. E. E. Prest	5	1	0	850	1299	51.14	195
„ „ (Power Station)...	James Jack, Esq.	5	1	0	764	1407	55.38	...
14.—INSULAR. 1 sq. mi.								
Ailsa Crag.....	Board of Northern Lights	3	5	0	...	633	24.93	...

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.		Days with 01 in. or more	
		Diam.	Height Above Ground SeaLevel		1915			
		in.	ft.	in.	feet.	mm.	inches.	
RENFREW. (Area, 241 sq. mi.)								
1.—CLYDE—Right Bank Tributaries. 3 sq. mi.								
2.—CLYDE—Left Bank Tributaries. 194 sq. mi.								
Lochwinnoch (Garthland).....	H. Macdowall, Esq.	5	0	11	150	1361	53·60	196
Gorbals Dist. W.W. (Ryat Lynn)	J.R. Sutherland, Esq., C.E.	8	0	5	310	925	36·40	...
" " " (Waulk Glen)	" " "	12	0	5	280	893	35·15	...
" " " (Middleton)	" " "	12	0	5	550	1020	40·15	...
" " " (NetherCairn)	" " "	12	0	5	700	1090	42·90	...
Paisley W.W. (Stanely)	James Lee, Esq., C.E.....	12	1	0	190	871	34·30	...
" " (BackThornleymuir)	" " "	12	1	0	646	1036	40·78	...
" " (Muirhead).....	" " "	12	1	0	482	1218	47·94	...
" " (Springside)	" " "	12	1	0	532	1353	53·26	...
Pollokshaws (Pollok House).....	Sir J. Stirling-Maxwell, Bt.	5	1	0	45	759	29·87	169
Glasgow (Queen's Park)	J. Whitton, Esq.	8	0	9	144	729	28·70	172
" (Maxwell Park)	" " "	5	0	6	69	678	26·70	...
Kilbarchan (Milliken Park)	M. Douglas Anderson, Esq.	6	1	6	75	815	32·10	...
" (Glentyan)..... (R)	R. H. Hunter, Esq.	8	3	9	285	1112	43·80	194
Paisley (The Coats Observatory)	J. Woodrow, Esq.	8	1	0	107	869	34·22	188
Crookston (Road Exper. Stat.)...	R. Drummond, Esq.	5	1	0	65	1021	40·20	159
Kilmalcolm Water Works	D. S. Carson, Esq.....	5	1	0	500	1510	59·45	...
Shaws W.W. (Duchall Moor) ...	D. Macalister, Esq., C.E.	6	1	0	1150	1529	60·20	...
" " (Creuch Hill)	" " "	6	1	0	1350	1270	50·00	...
" " (Green Water) ...	" " "	6	1	0	788	1402	55·20	...
Kilmalcolm	Mr. R. Blackwood	5	1	0	300	1165	45·85	151
" (St. Oswald's) ... (R)	D. S. Carson, Esq.	5	1	0	350	1148	45·21	...
Shaws W.W. (Gryfe Reservoir)...	D. Macalister, Esq., C.E.	6	1	0	640	1346	52·98	198
" " (Mansfield)	" " "	5	1	0	573	1334	52·54	198
" " (Darndaff Moor)....	" " "	5	1	0	850	1315	51·76	...
Bishopton (Ingliston)	D. Cross, Esq.....	5	1	0	195	934	36·77	...
3.—FIRTH OF CLYDE. 34 sq. mi.								
Shaws W.W. (Largs Road)	D. Macalister, Esq., C.E.	5	1	0	910	1076	42·35	...
Douglichill Filters (Pt. Glasgow WW)	James Murray, Esq.	8	1	6	540	1157	45·55	...
Parkhill " " " " " " " " " " " "	" " " " " " " " " " " "	8	1	6	275	999	39·32	...
Shaws W.W. (Compensation Res.)	D. Macalister, Esq., C.E.	5	1	0	600	1459	57·43	217
" " (Loch Thom)	" " "	5	1	0	643	1433	56·42	217
" " (Shielhill)	" " "	6	1	0	962	1389	51·70	...
" " (Spango Burn) ...	" " "	6	1	0	757	1509	59·40	...
" " (Hole Glen).....	" " "	5	1	0	603	1338	52·67	222
" " (New Yetts Dam)...	" " "	5	1	0	800	1369	53·90	222
Port Glasgow (Broadfield)	J. P. Harrington, Esq....	8	1	0	250	1161	45·72	195
" " (Elmworth)	A. F. Gray, Esq.....	5	1	3	107	1199	47·21	195
Greenock (Prospect Hill)	D. Macalister, Esq., C.E.	5	1	0	200	1254	49·38	189
Langbank (East Bank Gardens)	A. Cross, Esq.....	5	2	6	150	943	37·11	...
4.—IRVINE. 10 sq. mi.								

DIVISION XV.—WEST MIDLAND COUNTIES.

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more
		Diam.	Height Above Ground Sea Level			1915		
		in.	ft.	in.	feet.	mm.	inches.	
DUMBARTON. (Area, 270 sq. mi.)								
1.—FORTH—Right Bank Tributaries. 10 sq. mi.								
2.—FIRTH OF CLYDE & COWAL. 52 sq. mi.								
D Cardross (Kilmahew).....	Claud A. Allan, Esq.....	5	1	0	130	984	38·76	191
D „ (Darleith)	Mr. J. Wilson.....	8	1	0	400	1109	43·66	194
D Helensburgh (Fernigair)	R. D. Brown, Esq., C.E.	8	1	0	22	1081	42·56	192
D „ (Valve House).....	„ „ „ „	8	1	0	293	1211	47·69	205
D Roseneath (Achnashie)	R S Campbell, Esq. per SMS	6	1	0	25	1260	49·60	163
Garelochhead (Aikenshaw)	Mr. W. S. Turnbull	6	1	0	32	1293	50·90	...
3.—CLYDE—Leven. 149 sq. mi.								
Dumbarton (Leven Shipyard) ...	Messrs. W. Denny & Bros.	5	1	0	9	1031	40·59	183
Kilpatrick Hills (Burncrooks Res.) No.1	T. L. Rae, Esq., C.E.....	5	1	0	835	994	39·14	...
„ „ („ „) No.2	„ „ „ „	5	1	0	959	1236	48·65	...
„ „ („ „) No.3	„ „ „ „	5	1	0	920	1159	45·62	...
D Renton (Carman Filters)	Mr. Chas. Brown	8	4	0	292	973	38·29	186
D Alexandria (The Rectory)	Rev. J. Eldon Ellison	5	1	0	58	1034	40·69	186
Loch Finlas	No. 1 Mr. D. Murray	5	1	0	820	1748	68·83	...
„ „	No. 2 „ „ „ „	5	1	0	1200	1403	55·25	...
„ „	No. 3 „ „ „ „	5	1	0	1600	1573	61·93	...
„ „	No. 4 „ „ „ „	5	1	0	2000	1593	62·73	...
„ „	No. 5 „ „ „ „	5	1	0	1600	1488	58·60	...
„ „	No. 6 „ „ „ „	5	1	0	1200	1414	55·68	...
D „ „ Reservoir	No. 7 „ „ „ „	12	1	6	820	1702	67·00	165
4.—CLYDE—Right Bank Tributaries. 59 sq. mi.								
D Drumchapel (Wasdale).....	F. C. Thomson, Esq.	5	1	0	68	758	29·86	193
D Duntocher (Cochno Filters)	T. L. Rae, Esq., C.E.....	5	1	0	400	1019	40·12	176
Kilpatrick Hills (Greenside Res.)	„ „ „ „	5	1	0	876	1107	43·59	...
„ „ (Loch Cochno)...	„ „ „ „	5	1	0	909	1131	44·54	...
„ „ (Jaw Reservoir)	„ „ „ „	5	1	0	912	1155	45·49	...
STIRLING. (Area, 463 sq. mi.)								
1.—FORTH—Right Bank Tributaries. 263 sq. mi.								
Muiravonside Ho. [Linlithgow].	Mr. C. Leeder.....	5	4	8	175	877	34·52	...
D Polmont (Vellore).....(R)	W. Brown, Esq.....	8	4	6	320	704	27·71	188
D Falkirk (Inglewood, Laurieston)	W. Ballantine, Esq.	5	1	3	133	819	32·24	150
D „ (Westbank)	A. Nimmo, Esq.....	5	0	9	75	847	33·34	171
„ (Ardenlea)	J. Aitken, Esq., F.R.S....	5	1	0	105	845	33·29	163
„ (Kerse)	No. 1 C. Brown, Esq.	8	1	0	18	742	29·20	...
Little Denny Reservoir	C. Massie, Esq.	8	1	0	326	950	37·42	...
„ „ Filters.....	„ „ „ „	8	1	0	268	966	38·03	...
Kilsyth (Faughlin Res.)	„ „ „ „	8	1	0	707	1420	55·91	...
Earlsburn Reservoir	„ „ „ „	8	1	0	1202	1325	52·17	...
D Stirling (Touch Reservoir) No. 3	A. H. Goudie, Esq.	8	1	9	759	1233	48·55	192
D „ („ „) No. 2	„ „ „ „	8	1	4	707	1200	47·24	192
D „ („ „) No. 1	„ „ „ „	8	1	0	455	1228	48·33	191
„ (Polmaise Castle).....	C. Stirling, Esq.....	6	1	3	220	1018	40·10	144
„ (Touch House).....	„ „ „ „	5	1	0	35	1097	43·19	...
„ (Victoria Place)	R. Kidston, Esq., F.R.S.	5	2	10	100	954	37·56	...
D† Buchlyvie (The Manse).....	Rev. J. A. Macdonald.....	5	1	3	118	1001	39·40	231
Gargunnoch House	Mr. D. McNeill	5	1	6	85	954	37·55	...

DIVISION XV.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above		Sea Level	1915		
		in.	ft.	in.		feet.	mm.	inches.
STIRLING—(con.)								
1.—FORTH—Right Bank Tributaries—(con.)								
Kippen (Arngomery)	Mr. P. McCowan	5	4	2	150	1143	44.99	...
Duchray Valley (Ben Lomond) ..	J. R. Sutherland, Esq., C.E.	8	0	6	1800	1692	66.60	...
D† „ „ (Glen Dhu) ...	„ „ „	8	1	0	500	1736	68.35	161
D† „ „ (Comer)	„ „ „	8	1	0	600	1918	75.50	166
„ „ (Achaidh Burn)	„ „ „	8	1	0	1200	1974	77.70	...
„ „ (Head of Main Stream) ..	„ „ „	8	1	0	950	1887	74.30	...
2.—FORTH—Teith. 5 sq. mi.								
D† Stronachlachlar (Invergyle)	J. R. Sutherland, Esq., C.E.	8	1	0	376	1676	66.00	166
3.—FORTH—Left Bank Tributaries. 15 sq. mi.								
† Bridge of Allan (The Lea)	Laurence Pullar, Esq.	5	1	0	80	983	38.71	188
4.—CLYDE—Leven. 128 sq. mi.								
D Strathblane (The Manse)	Rev. W. B. Moyes	5	0	6	235	1192	46.91	167
† „ „ (Blane field)	J. R. Sutherland, Esq., C.E.	8	1	0	250	1171	46.10	...
Kilpatrick Hills (Burncrooks Res.) No. 7	T. L. Rae, Esq., C.E.	5	1	0	955	1192	46.91	...
D Kilsyth (Achnagowan)	Miss Guthrie-Smith	5	0	10	332	1344	52.90	169
Loch Arklet (Corrie hichon)	J. R. Sutherland, Esq., C.E.	8	0	6	870	1768	69.60	...
„ „ (Corrie arklet)	„ „ „	8	0	6	950	1786	70.30	...
5.—CLYDE—Right Bank Tributaries. 52 sq. mi.								
D Torrance (Glenorchard)	Miss Bartholomew	5	1	6	200	929	36.57	175
Strathblane (Mugdock Reservoir) ..	J. R. Sutherland, Esq., C.E.	8	0	6	320	938	36.95	...
„ „ (Craigend Castle) ...	Mr. A. Davidson	5	0	9	665	1046	41.20	...
„ „ (Craigbarnet)	Capt. Miller Stirling, R.N.	5	0	6	300	1174	46.20	...
D Kilsyth (Innsbridge)	J. I. Little, Esq.	5	11	0	202	1069	42.09	179
„ „ (Corrie Reservoir)	„ „ „ per S.M.S. ....	...	...	...	...	1119	44.05	...
BUTE. (Area, 218 sq. mi.)								
1.—ISLE OF BUTE. 50 sq. mi.								
D Rothesay (Crichton Road)	H. Lauder, Esq., jun.	5	4	0	97	1236	48.64	220
D „ „ (Ardencraig)	J. Davidson, Esq.	5	1	0	201	1115	43.88	219
Port Bannatyne (Ettrickdale) ...	Col. M. R. Gray Buchanan	5	1	0	190	1140	44.90	228
2.—CUMBRAES. 4 sq. mi.								
D Great Cumbrae (Millport)	J. Peden, Esq.	5	1	0	15	876	34.48	184
3.—ARRAN. 164 sq. mi.								
Pladda	Board of Northern Lights	...	...	...	130	888	34.94	169
Holy Island (Pillar Rock)	„ „ „	3	0	3	46	816	32.13	...
ARGYLL. (Area, 3181 sq. mi.)								
1.—TAY—Tummel. 38 sq. mi.								
2.—SOUND OF ARISAIG, SOUND OF MULL & C. 317 sq. mi.								
D Morvern (Ardtornish)	G. C. Sellar, Esq.	5	1	0	48	1731	68.15	224
D „ „ (Drimnin)	Mrs. Gordon	5	1	0	225	1382	54.42	222
D Loch Sunart (Glenborrodale) ...	C. D. Rudd, Esq.	5	0	2	60	1566	61.65	224
Ardnamurchan	Board of Northern Lights	8	4	3	180	897	35.30	...
3.—LOCH LINNHE—Right Bank Tributaries. 139 sq. mi.								
D Morvern (Kingairloch)	G. Herbert Strutt, Esq.	5	1	0	40	1889	74.38	192
Ardgour House	Capt. A. J. N. Maclean ...	5	0	10	60	1849	72.79	221

DIVISION XV.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above		1915			
			Ground	Sea Level				
		in.	ft.	in.	feet.	mm.	inches.	
ARGYLL—(con.)								
4.—LOCH LINNHE—Left Bank Tributaries. 165 sq. mi.								
Duror (The Rectory).....	Rev. E. J. Benwell	5	1	0	120	1480	58.27	176
D Ballachulish House	Mr. W. D. Stewart	5	1	0	56	1686	66.39	181
„ (Glencoe Gardens).....	J. D. Sutherland, Esq....	8	1	0	20	1582	62.30	...
Glenleven (Blackwater Ho.) No. 4	British Aluminium Co....	8	1	0	1069	1346	53.01	...
D „ („ Dam, S.) 2	„ „ „	8	1	0	1072	1542	60.73	225
„ (Invercann)..... No. 6	„ „ „	8	1	0	1070	1496	58.89	...
D „ (Kinlochleven)..... No. 1	„ „ „	8	1	0	140	1662	65.42	220
Loch Eil (Corran)	Board of Northern Lights	3	1	6	38	1602	63.08	194
5.—LOCH ETIVE. 197 sq. mi.								
D Taynuilt (Barguilean)	T. M. Macdonald Esq. per SMS	...	...	...	230	1442	56.76	151
D Connel Ferry (Ach-na-cloich) .	T. A. Nelson, Esq. per S.M.S.	...	...	...	...	1308	51.49	174
D Glen Etive	Ian T. Nelson Esq. per S.M.S.	...	...	...	50	1993	78.47	190
6.—LOCH ETIVE—Loch Awe. 319 sq. mi.								
D Loch Awe (Ford)	J. Boyd, Esq.	8	1	0	148	1553	61.14	217
D „ „ (Dalavich*)	„ „ „	8	1	0	283	1728	68.01	201
D Dalmally (Manse of Glenorchy)	Rev. Farquhar MacRae...	5	1	0	150	1687	66.42	184
7.—FIRTH OF LORNE. 112 sq. mi.								
D Kilmelfort (Arduaine)	J. A. Campbell, Esq.	5	0	10	23	1152	45.37	188
D† Oban	Dr. E. Baily	8	1	0	17	1146	45.12	196
8.—SOUND OF JURA. 163 sq. mi.								
D Lochgilphead (Poltalloch).....	Mr. D. S. Melville	5	1	2	135	1309	51.55	212
D Ardfern (Innisaeg).....	Mr. James Strang	5	3	7	100	979	38.53	171
9.—KINTYRE, WEST. 146 sq. mi.								
Mull of Kintyre	Board of Northern Lights	...	...	...	279	887	34.92	154
D Muasdale (Killeen Manse)	Rev. D. J. Macdonald	5	1	0	30	975	38.40	207
D Carse	J. Birkmyre, Esq., jun....	6	1	6	20	859	33.82	210
10.—KINTYRE, EAST. 177 sq. mi.								
D† Campbelltown (South Park)	J. A. Gardiner, Esq.	8	0	10	20	1061	41.78	204
D† „ (Witchburn)	Mr. John Giffen	5	1	6	75	1033	40.68	190
„ (Devaar)	Board of Northern Lights	...	3	4	120	951	37.45	...
D Skipness Castle	R. F. Graham, Esq.	5	1	6	14	998	39.28	193
11.—LOCH FYNE. 264 sq. mi.								
Kilbride (Craig Cottage)	Philip Barne, Esq.	5	1	0	9	1020	40.14	...
D Otter Ferry (School House)	Mrs. Stewart	5	1	0	37	1093	43.04	195
D Ardrishaig (Canal Office)	L. J. Groves, Esq., C.E....	5	1	0	48	1395	54.91	201
D Loch Fyne (Furnace).....	W. Nicol, Esq.	5	3	0	15	1490	58.65	208
„ „ („ Brenchoillie)	A. E. Lewis, Esq.	5	1	0	240	1583	62.33	...
D† Inveraray (Newtown)	Mrs. Little	5	1	0	17	1406	55.34	207
D† „ (Castle Gardens)	A. E. Lewis, Esq.	5	1	0	40	1646	64.82	215
„ (Stronshira)	Rev. Gillespie Campbell...	5	1	0	10	1515	59.64	...
D Ardkinglas	Mr. J. Payne	8	1	6	37	1634	64.31	212
D Glen Aray (Ladyfield)	A. E. Lewis, Esq.	5	0	9	400	1717	67.61	165
Glen Shira (Drimlie)	Mr. Dugald McIntyre	5	1	6	400	1555	61.23	...
12.—FIRTH OF CLYDE & COWAL. 242 sq. mi.								
Innellan	Miss Mair	6	0	8	15	1172	46.16	...
D Tighnabruaich (Wellpark)	R. Paton, Esq.	12	5	0	50	1144	45.04	185
D Dunoon (Castle Gardens)	W. Rodger, Esq., C.E....	12	35	0	56	1378	54.25	175
D „ (Reservoir)	„ „ „	12	3	6	245	1635	64.37	187

* Formerly called Cruachan.

DIVISION XV.—WEST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground.		Sea Level.	1915		
		in.	ft.	in.	feet.	mm.	inches.	
ARGYLL—(con.)								
12.—FIRTH OF CLYDE & COWAL—(con.)								
D Dunoon (Redhurst)	Dr. J. Banks	5	1	6	60	1425	56.09	172
D Holy Loch (Ardnadam)	Rev. J. Cairns Mitchell	5	1	0	66	1615	63.59	190
D Loch Eck (Benmore).....	Mr. R. Greenlaw	5	1	3	40	1894	74.58	160
D† Lochgoilhead (Nuthill)	G. Murray Knox, Esq.	5	1	0	15	1611	63.41	234
13.—CLYDE—Leven. 4 sq. mi.								
14.—INSULAR—900 sq. mi.								
D Islay (Ardbeg)	Colin E. Hay, Esq.	5	7	0	46	924	36.37	248
„ (Rhinn)	Board of Northern Lights	7	3	6	150	700	27.57	...
„ (Lochindaal).....	„ „ „	3	0	6	52	911	35.88	157
„ (McArthur's Head)	„ „ „	3	0	4	128	1168	45.97	...
D „ (Eallabus)	J. Forbes, Esq.	5	1	0	68	1033	40.66	199
„ (Rhuvaal)	Board of Northern Lights	3	1	3	147	790	31.11	...
D Jura (Ardfin).....	Colin Campbell, Esq.	5	1	0	160	1117	43.97	213
„ (Fladda)	Board of Northern Lights	3	1	0	42	1165	45.87	158
Lismore (Mousedale).....	„ „ „	7	3	10	105	951	37.43	173
D Eriska (Ledaig)	Mr. J. B. Trotter, per S.M.S.	5	1	6	30	1242	48.90	191
D† Mull (Iona Manse)	Rev. A. Macmillan	5	1	2	45	961	37.82	190
D† „ (Bunessan)	Duncan Cameron, Esq.	5	1	4	50	1129	44.45	197
„ (Lochbuie Castle)	Mr. E. Lovesey	8	1	4	20	1945	76.57	216
D „ (Ulva)	F. W. Clark, Esq.	5	1	0	30	1393	54.84	222
D† „ (Knock)	John Cameron, Esq.	5	1	4	50	1768	69.59	180
D „ (Glencannel)	W. Jackson, Esq.	5	1	3	140	2254	88.72	181
D† „ (Gruline)	J. W. Melles, Esq.	8	1	0	101	1682	66.22	243
D „ (Quinish)	J. N. Forsyth, Esq.	5	1	3	35	1148	45.20	224
„ (Glengorm Castle)	Miss M. Lithgow	5	1	0	350	901	35.46	...
„ Sound of	Board of Northern Lights	3	1	4	55	1218	47.96	...
D† Tiree (Cornaigmore)	A. M. Ewan, Esq.	5	1	0	25	963	37.92	223
Sanda	Board of Northern Lights	...	...	...	165	784	30.85	193

DIVISION XVI.—EAST MIDLAND COUNTIES.

CLACKMANNAN. (Area, 55 sq. mi.)

1.—FORTH, LOWER—Left Bank Tributaries. 55 sq. mi.

D Alloa House Gardens	Earl of Mar & Kellie, K.T.	5	2	6	40	915	36.01	155
„ W.W. (Gartmorn Res.)...	Andrew Mackie, Esq., C.E.	11	1	0	172	882	34.73	...
D Tillicoultry (Westbourne)	J. Patterson, Esq., per SMS	...	...	...	...	879	34.59	174
D Dollar (Wellhall, Dollarbeg) ..	James Bleloch, Esq.	5	0	9	265	981	38.62	200
D „ Academy	Mr. T. Aitken	9	1	0	178	1046	41.18	162

KINROSS. (Area, 87 sq. mi.)

1.—FORTH, LOWER—Left Bank Tributaries. 15 sq. mi.

Blairingone Manse [Dollar]	Rev. J. F. Cameron	5	1	6	296	1028	40.47	179
2.—LEVEN & C. 67 sq. mi.								
Blairadam Wood [Kelty]	D. Mackenzie, Esq., C.E.	8	0	5	761	1075	42.31	...
D Loch Leven Sluice	Mr. W. Hay	8	0	9	360	918	36.15	154
Milnathort (Ledlanet)	Mr. H. Young	5	1	0	750	1130	44.48	...

3.—EDEN. 2 sq. mi.

4.—TAY—Earn. 3 sq. mi.

DIVISION XVI.—EAST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
FIFE. (Area, 505 sq. mi.)								
1.—FORTH, LOWER—Left Bank Tributaries. 66 sq. mi.								
D Rosyth (H.M. Dockyard)	The Supt. Engineer	8	1	0	53	633	24.94	155
D Kincardine (Tulliallan)	J. C. Wilson, Esq.	5	1	0	80	830	32.69	154
Dunfermline (Broomhall Gardens)	Mr. J. Mitchell	5	1	0	15	731	28.77	...
D „ (Keavil)	J. J. Dalgleish, Esq.	5	0	2	150	744	29.30	150
D „ (Victoria Place) ..	J. Blyth, Esq.	5	1	2	365	898	35.36	175
D Culross (Westgrange)	J. J. Dalgleish, Esq.	5	0	2	116	855	33.66	169
D Carnock (Craigluscar)	P.C. Smith, Esq., per S.M.S.	12	0	4	280	952	37.50	...
2.—LEVEN & C. 208 sq. mi.								
D Dunfermline (Fordell House) ..	Earl of Buckinghamshire ..	5	1	0	250	786	30.96	142
D Kirkcaldy (St. Peter's Rectory) ..	Rev. John S. Begg	5	1	0	85	780	30.69	176
D „ (Muttonhall Farm) ..	G. Donaldson, Esq.	5	1	0	300	783	30.82	194
D Cowdenbeath (Northbank)	J. S. Rae, Esq.	5	1	0	473	1101	43.35	188
Cleish Hills (Deanhead Farm) ..	„ „ „	5	1	0	725	888	34.98	163
„ „ (Craigaverral) .. M	„ „ „	5	1	0	760	1000	39.38	...
„ „ (Roscobie Reservoir) ..	„ „ „	5	1	0	660	977	38.45	...
„ „ (Loch Glow Res.) ..	D. Mackenzie, Esq., C.E.	8	0	7	897	1087	42.80	...
Leslie (Lothrie Reservoir)	Mr. R. Ritchie, per S.M.S.	5	0	5	702	956	37.62	...
D Elie House (The Gardens)	Mr. A. A. Law	5	0	10	55	652	25.67	160
D „ (The Castle)	Miss E. E. Scott Moncrieff ..	5	0	9	...	645	25.39	172
Largo (Carlton)	Mr. E. Tate	5	1	6	150	808	31.82	184
D Colinsburgh (Balcarres)	Mr. J. M. Paul	5	1	0	300	800	31.49	166
„ (Lathallan)	Dr. W. H. Bryce	5	1	0	505	804	31.66	152
Carnbee (Ovenstone W.W.)	A. P. Watson, Esq.	5	1	0	168	691	27.19	...
3.—EDEN & C. 205 sq. mi.								
Ceres (Woodburn)	Ralph Richardson, Esq.	3	1	0	300	878	34.57	...
D „ (Castlebank)	J. Melville, Esq.	5	2	0	280	964	37.96	177
„ (St. Helens)	Rev. Robert Dick	5	1	6	265	951	37.45	188
Cupar (Bankeillour)	Mr. J. McLaren, per S.M.S. ....	...	...	...	240	772	30.39	...
D „ (Fife & Kinross Asylum) ..	Mr. J. Ness	5	1	0	210	911	35.86	207
D St. Andrews (Water Works)	W. Watson, Esq.	5	1	0	217	830	32.68	175
D „ „ (Queen's Gardens) ..	Miss Macadam	5	1	0	55	824	32.43	163
„ „ „ ..	W. Watson, Esq. per M.O.S. ....	...	...	...	20	799	31.47	148
Kilmany (Lochmalony)	W. Marshall, Esq.	5	0	6	260	859	33.81	...
4.—FIRTH OF TAY. 25 sq. mi.								
D Newport (Tayfield)	W. Berry, Esq.	5	0	7	100	853	33.58	148
D Tayport (Lighthouse)	J. H. Thompson, Esq., C.E.	5	1	0	27	787	30.97	174
5.—TAY—Earn. 1 sq. mi.								
6.—INSULAR.								
Inchkeith	Board of Northern Lights ..	...	...	...	160	572	22.53	...
Isle of May	„ „ „ ..	6	3	0	...	544	21.41	153
PERTH. (Area, 2535 sq. mi.)								
1.—FORTH—Right Bank Tributaries. 17 sq. mi.								
2.—FORTH, UPPER—Left Bank Tributaries. 64 sq. mi.								
D Doune (Gartincaber)	Dr. T. Burn Murdoch	5	1	0	200	1017	40.05	178
D Port of Menteith (Manse)	Rev. T. Burnett Peter ..	4	0	8	75	1099	43.27	198
D† Aberfoyle (The Inn)	J.R. Sutherland, Esq., C.E.	8	0	6	60	1233	48.55	158
D† Loch Dhu	„ „ „ ..	8	0	6	325	1713	67.45	157
Ledard	„ „ „ ..	8	0	6	1500	1335	52.55	...

DIVISION XVI.—EAST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.		Days with '01 in. or more	
		Diam.	Height Above Ground.		1915			
		in.	ft.	in.	feet.	mm.	inches.	
PERTH—(con.)								
3.—FORTH—Teith. 221 sq. mi.								
Ochertyre [Stirling].....	Mr. H. Montgomerie	5	1	0	18	1031	40·60	...
Loch Drunkie	J.R. Sutherland, Esq., C.E.	8	0	6	420	1223	48·15	...
Ben Venue (Glasahoile)	„ „ „	8	1	0	1150	1692	66·60	...
†Loch Venachar	„ „ „	8	0	6	275	1185	46·65	...
†Bridge of Turk	„ „ „	8	0	6	275	1377	54·20	...
—Doune (Cauldhame)	J. Forbes, Esq.	5	1	0	830	1193	46·96	...
†Loch Katrine (Tunnel Hill Top)	J.R. Sutherland, Esq., C.E.	8	0	6	830	1593	62·70	...
Ben Ledi	No. 2 „ „ „	8	0	6	1400	1382	54·40	...
†Achnahard	„ „ „	8	1	0	500	1506	59·30	151
Callander (Leny House)	J. H. Buchanan, Esq.....	5	0	6	340	1204	47·40	...
†Strone Bridge.....	J.R. Sutherland, Esq., C.E.	8	1	0	380	1554	61·16	...
†Glen Meann	„ „ „	8	1	0	800	1626	64·00	...
Glen Finglas	„ „ „	8	1	0	1200	1600	63·00	...
†Glenogle	„ „ „	8	0	6	380	1915	75·40	...
† „ Upper	„ „ „	8	1	0	750	1882	74·10	...
—Allt a' Choin	„ „ „	8	1	0	1250	1860	73·25	...
†Balquhiddie (Blaircreach)	J. Carnegie, Esq.	5	1	0	460	1864	73·40	...
† „ (Stronvar)	„ „ „	5	1	0	422	1405	55·32	...
4.—FORTH, LOWER—Left Bank Tributaries. 107 sq. mi.								
D Dunblane (Kippenross)	A. H. Anderson, Esq.....	8	1	3	237	1007	39·64	205
„ (Kippendavie)	„ „ per S.M.S.	8	2	9	300	1058	41·64	...
Glendevon (Glenquey Reservoir)	D. Mackenzie, Esq., C.E.	11	0	11	945	1331	52·40	...
D „ (Tormaukin)	Mr. W. Phillips	5	1	6	770	1335	52·56	163
„ (Glensherup)	P.C. Smith, Esq., per S.M.S.	12	0	4	945	1441	56·74	...
5.—LEVEN. 1 sq. mi.								
6.—EDEN. 4 sq. mi.								
7.—TAY—Earn. 376 sq. mi.								
Slateford Burn (Shire End)	Messrs. Leslie & Reid, C.E.	8	...	...	930	1049	41·29	...
„ „ (Whitehill)	„ „ „	8	...	...	810	1023	40·28	...
Upper Farg (Plains)	„ „ „	8	...	...	900	945	37·19	...
„ „ (Heatherieleys Quarry)	„ „ „	8	...	...	715	966	38·05	...
„ „ (Main Bank).....	„ „ „	5	...	...	...	769	30·27	...
Auchterarder (Belhie)	Miss D. Cairns	5	0	10	100	798	31·43	...
D Dunning (Duncrub Park).....	Mr. R. Matthews	8	1	0	165	1032	40·65	189
Abernethy (Ayton House)	Mr. J. Leslie, per S.M.S.	5	0	11	120	1037	40·81	...
D Bridge of Earn (Ballendrick) ..	Capt. O. A. Taylor	5	1	2	50	886	34·89	149
„ „ (Gateside)	John Ellis, Esq.....	5	1	0	26	796	31·34	...
†Lochearnhead (Edinchip)	Capt Sir M MacGregor BtRN	5	1	0	542	1427	56·17	198
—Crieff (Strathearn Hydro.)	Mr. G. Reid	5	1	0	436	990	38·99	179
8.—TAY—Almond & c. 149sq. mi.								
D Perth (Craigie Road).....	Sydney Wilson, Esq.....	5	1	0	56	849	33·42	191
9.—TAY—Strathay below Dunkeld. 33 sq. mi.								
Murthly (Douglasfield).....	W. A. Rae, Esq.....	5	0	6	237	952	37·48	...
„ (Glendelvine)	Alex. P. Lyle, Esq., per SMS	5	0	9	240	830	32·66?	...
†Dunkeld (Snaigow)	W. H. Cox, Esq.	5	1	0	370	1013	39·88	195
10.—TAY—Bran. 81 sq. mi.								
D Dunkeld (Inver).....	Charles McIntosh, Esq....	5	1	0	183	1152	45·37	189
11.—TAY—Strathay above Dunkeld. 95 sq. mi.								
†Aberfeldy (Dall Avon)	Dr. N. D. Mackay	5	1	0	320	1083	42·63	186
† „ (Dunros)	H. W. Johnston, Esq.....	5	1	0	400	1058	41·65	191

DIVISION XVI.—EAST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with '01 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
PERTH—(con.)								
12.—TAY—Loch Tay. 241 sq. mi.								
n Killin (The Manse)	Rev. G. W. Mackay	5	1	0	400	1271	50·05	166
„ (Morenish Lodge)	Mr. J. Stewart, <i>per</i> S.M.S.	5	1	0	200	1154	45·43	...
D† Kenmore (The Manse)	Rev. W. A. Gillies	5	1	0	550	1151	45·32	167
13.—TAY—Lyon. 142 sq. mi.								
D Glenlyon (Meggernie Castle) ...	Mr. W. Taylor	5	1	0	760	1375	54·12	192
14.—TAY—Tummel. 587 sq. mi.								
D Loch Rannoch (Dall)	Mr. D. Robertson	5	1	0	700	1131	44·53	178
Pitlochry (Torrdarach)	W. Briggs, Esq.	5	0	10	480	982	38·65	...
D „ (Bonskeid)	G. F. Barbour, Esq.	5	1	0	540	915	36·02	184
D Fincastle House	C. R. Barbour, Esq.	5	1	0	980	1025	40·35	189
D Trinafour (Druimchruaidh)	A. D. Cameron, Esq.	5	1	0	850	1188	46·79	195
D† Blair Atholl	Mr. D. McLachlan	5	1	0	420	997	39·24	150
15.—TAY—Isla. 282 sq. mi.								
D† Coupar Angus	Mr. J. Robertson	5	1	3	183	890	35·05	187
D Blairgowrie (Kinloch Manse) ...	Ian Milne, Esq.	5	1	0	280	839	33·03	185
D† Kirkmichael (Ballintuim House)	Miss M. A. Macdonald ...	5	1	4	700	1184	46·60	199
16.—TAY—Left Bank Tributaries. 51 sq. mi.								
D Perth (Laurelbank)	H. Coates, Esq.	5	1	0	77	835	32·89	163
Dunsinnan	J. Mackay Bernard, Esq. ...	...	...	...	400	801	31·53	...
17.—FIRTH OF TAY. 45 sq. mi.								
18.—SPEY. Right Bank Tributaries. 1 sq. mi.								
19.—LOCH LINNHE. Left Bank Tributaries. 2 sq. mi.								
20.—CLYDE—Leven. 36 sq. mi.								
FORFAR. (Area, 875 sq. mi.)								
1.—TAY—Isla. 211 sq. mi.								
D Kettins School	W. Andrew, Esq.	5	1	0	218	1054	41·50	186
Glamis Castle	Mr. T. Wilson	5	1	6	250	810	31·90	...
D Forfar (Lilyfield)	D. M. Mackie, Esq.	5	0	5	225	921	36·25	174
„ (Orchardbank Sew. Farm)	A Watterston, Esq. <i>per</i> SMS ..	4	0	9	214	829	32·65	...
D Kirriemuir (Lintrathen)	G. Baxter, Esq., C.E.	8	1	0	700	929	36·58	186
„ („ „ „)	M „ „ „ „	8	1	0	700	917	36·10	...
„ („ „ „ „)	M „ „ „ „	8	1	0	700	925	36·40	...
„ („ „ „ „)	M „ „ „ „	8	1	0	1482	935	36·80	...
„ („ „ „ „)	M „ „ „ „	8	1	0	1500	808	31·80	...
„ („ „ „ „)	M „ „ „ „	8	1	0	1491	952	37·50	...
2.—FIRTH OF TAY. 80 sq. mi.								
D Buddonness (Low Light)	J. H. Thompson, Esq., C.E.	5	1	0	27	832	32·75	190
D Dundee (Harbour)	„ „ „ „	5	0	10	14	808	31·82	174
„ (Eastern Necropolis) ...	Mr. A. Macrae	3	1	0	199	752	29·60	...
D „ („ „ „)	„ „ „ „	5	1	0	199	762	29·99	175
„ (Dens Works) ... <i>roof g.</i>	Messrs. Baxter Bros., Ltd.	5	...	...	119	906	35·68	217
„ (Camperdown Works) ...	Messrs. Cox, Bros., Ltd.	5	1	2	290	957	37·67	182
„ (Inniscarra)	H.G. Walker, Esq. <i>per</i> SMS ..	...	...	...	130	796	31·36	...
D „ (Balruddery)	J. Martin White, Esq.	5	1	0	266	795	31·31	163
D „ (Kirkton of Mains)	Alex. Duncan, Esq.	8	1	0	244	843	33·19	171
— Murroes Schoolhouse	H. A. Forsyth, Esq.	5	1	0	425	807	31·78	...
„ (Craig Mills)	John Grant, Esq.	5	1	6	310	892	35·12	...

DIVISION XVI.—EAST MIDLAND COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with "01 in. or more
		Diam.	Height Above		Sea Level	1915		
			Ground.	feet.		mm.	inches.	
FORFAR—(con.)		in.	ft.	in.	feet.	mm.	inches.	
3.—SOUTH ESK & C. 371 sq. mi.								
D Carnoustie	D. Maxwell, Esq., C.E....	8	1	0	39	770	30.30	200
D Craigton	G. Baxter, Esq., C.E....	8	1	0	484	855	33.67	167
„	„ „ „	11	3	0	484	800	31.51	...
„ (Hillhead)	„ „ „	11	3	0	570	840	33.06	...
Crombie Reservoir	„ „ „	11	3	0	522	901	35.47	...
D Arbroath (Dishland Hill)	Mr. J. Campbell.....	5	1	0	69	602	23.70	175
„ (Muirheads Reservoir)	T. L. Brown, Esq., C.E....	5	1	0	251	702	27.65	...
Forfar (Pitscandly)	W. T. Farquhar, Esq. ...	5	1	9	300	952	37.49	...
Montroseness	Board of Northern Lights	3	1	0	124	692	27.24	159
Montrose (Melville Gardens) ..	S. L. Christie, Esq.	5	9	0	20	688	27.09	...
D Forfar W.W. (Den of Ogil).....	A. Watterston, Esq.	12x4	0	3	633	1089	42.89	186
D Glenogil Waterworks	T. L. Brown, Esq.	5	1	0	700	1091	42.97	188
„ „	„ „ „	5	1	0	700	1096	43.16	...
D Glen Prosen (Pearsie House) ...	Mr. K. McKenzie	5	1	0	600	1054	41.48	198
D „ „ (Lednathie)	Mr. W. G. Lindsay	5	1	0	720	1238	48.74	164
„ „ (Balnaboth Gardens)	Mrs. Ogilvie	5	1	0	965	1372	54.01	...
4.—NORTH ESK & C. 213 sq. mi.								
D Montrose (Sunnyside Asylum)...	Dr. C. J. Shaw	5	0	10	200	784	30.88	177
D „ (Kinnaber W.W.)	S. L. Christie, Esq.	5	1	0	38	702	27.62	160
Logie Pert (Loanhead of Craigo)	Mr. G. D. Cramond	5	0	9	200	738	29.04	...
Brechin (Stracathro Gardens) ...	Mr. A. Dunlop	5	1	0	200	926	36.45	...

DIVISION XVII.—NORTH EASTERN COUNTIES.

KINCARDINE. (Area, 382 sq. mi.)

1.—NORTH ESK & C. 99 sq. mi.								
Laurencekirk (Johnstone Lodge)	Mr. G. Hampton, per S.M.S.	5	1	0	400	968	38.11	...
D† Fettercairn (The Burn)	Col. C. McInroy, C.B.	5	0	11	250	1036	40.78	192
„ (Police Station)	Mr. A. Mackenzie	5	1	0	230	1001	39.40	198
† „ (Fasque Gardens)	Sir J. R. Gladstone, Bart.	5	1	0	320	989	38.95	193
2.—BERVIE, COWIE & C. 139 sq. mi.								
Todhead	Bd. of Northern Lights ..	3	4	0	135	804	31.66	...
D Stonehaven (Mains of Cowie) ..	John Hart, Esq.	5	1	0	93	766	30.15	207
Girdleness	Board of Northern Lights	7	4	0	185	633	24.91	...
3.—DEE. 144 sq. mi.								
† Strachan (Bridge of Dye)	Sir J. R. Gladstone, Bart.	5	1	0	515	1429	56.25	216
Crathes (Spyhill)	Donald Stewart, Esq. ...	5	1	0	510	1260	49.60	...
D† „ (Crossroad, Durris)	A. Macdonald, Esq.	5	1	0	420	1182	46.52	212
— Durris House [Drumoak]	Mr. A. Reid	5	3	6	200	1122	44.16	...
D† Banchory (Invercannie)	Cecil H. Roberts, Esq., C.E.	5	1	0	205	1108	43.63	193
† Crathes (Pinewood)	James Smith, Esq.	5	1	0	145	1120	44.10	203
„ Castle	„ „ „	5	1	0	240	1085	42.70	...
Banchory (Hirn)	Mr. W. Caird	5	1	0	287	1021	40.18	...

ABERDEEN. (Area, 1974 sq. mi.)

1.—DEE. 672 sq. mi.								
† Braemar (Canmore)	M A. M. Shirran, Esq.	8	0	9	1114	1107	43.60	...

DIVISION XVII.—NORTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0·1 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
ABERDEEN—(con.)								
1.—DEE—(con.)								
d† Braemar (Bank).....	A. M. Shirran, Esq.	5	1	0	1114	1093	43·03	191
† „ (Derry Lodge)... No. 6	Cecil H. Roberts, Esq., C.E.	5	1	0	1400	1039	40·90	205
d† Balmoral Castle Gardens	Mr. J. M. Troup, M.V.O.	8	1	0	927	980	38·59	202
d Abergeldie Castle	Mr. R. F. Chalmers	5	1	0	...	995	39·18	211
d Ballater (Irrigation Farm)	Cecil H. Roberts, Esq., C.E.	5	1	0	637	1136	44·73	169
d† Glen Gairn (Gairn Shiel Lo.) No 14	„ „ „	5	1	0	1100	1065	41·93	203
† „ „ (Corndavon Lodge) No 13	„ „ „	5	1	0	1500	1192	46·93	...
d Torphins (School House)	J. W. Williams, Esq. ...	5	1	6	410	975	38·38	180
† Cromar (Logie Coldstone School)..	JB Anderson, Esq. per MOS	5	1	0	608	1088	42·84	227
d† „ „ „ „ Loanhead)	Mr. A. Farquharson pers SMS	5	1	0	743	1084	42·68	231
d Aberdeen (Mannofield Reservoir)	Cecil H. Roberts, Esq., C.E.	5	1	0	171	886	34·89	240
d† „ „ (Cranford House)	Mr. W. C. Smith	5	1	0	120	931	36·65	204
d „ „ (Cornhill Road).....	J. B. Innes, Esq.	5	1	0	150	962	37·86	218
2.—DON. 512 sq. mi.								
† Aberdeen (King's College)	Meteorological Office	11	2	0	44	824	32·45	209
d „ „ „ „ „ „)	„ „ „ „ „ „	8	1	0	43	805	31·70	210
d† Strathdon (Estates Office).....	C. Christie, Esq.	5	1	2	990	1249	49·18	209
d Alford (Lynturk Manse)	Rev. J. B. Duncan.....	5	1	0	600	1110	43·71	217
d Dyce (Parkhill House)	J. E. Crombie, Esq.	8	0	11	200	972	38·25	225
3.—YTHAN & C. 285 sq. mi.								
d Ellon (Esslemont)	Col. J. Wolrige Gordon...	5	1	8	100	889	34·99	223
d Haddo House Gardens	Mr. John McKinnon	5	0	7	180	974	38·34	151
d House of Schivas	Lord Haddo	5	0	9	200	922	36·28	207
d Fyvie Castle	Col. C. R. Burn, M.P.....	5	0	6	200	1126	44·34	173
4.—UGIE & C. 257 sq. mi.								
Buchanness.....	Board of Northern Lights	3	3	0	130	722	28·41	159
d New Deer Schoolhouse	H. Cowie, Esq.	5	1	0	397	946	37·24	218
Peterhead (Thunderton)	Miss Oldman	5	1	1	150	833	32·81	183
d „ „ (Mains of Buthlaw)...	W. Johnston, Esq.....	5	1	6	120	859	33·83	231
Brucklay Castle..... weekly	A Dingwall Fordyce Esq MP	8	1	0	300	1094	43·08	...
Kinnairdhead.....	Board of Northern Lights	3	2	6	120	610	24·00	145
5.—DEVIRON & C. 248 sq. mi.								
Huntly (Union Bank)	Alex. Smith, Esq.	5	1	0	405	1153	45·41	...
d „ „ (Cruchie)	John Joss, Esq.	5	4	0	400	1058	41·65	197
BANFF. (Area, 630 sq. mi.)								
1.—YTHAN. 1 sq. mi.								
2.—DEVIRON & C. 344 sq. mi.								
d Drummuir	T. Gordon Duff, Esq.....	5	1	0	605	1223	48·16	253
d Keith Station	Mr. A. Kennedy	5	1	0	364	1244	48·98	208
Buckie (Rockomie)	W. Hendry, Esq.	5	1	4	385	758	29·84	...
„ „ „ „ „ „)	„ „ „ „ „ „	5	1	4	300	780	30·71	...
„ „ „ „ „ „)	„ „ „ „ „ „	5	1	4	76	820	32·29	...
d Banff (Duff House)	A. J. Leigh, Esq.	5	1	0	5	801	31·55	222
Cullen House Gardens	Mr. F. Low.....	5	0	11	100	862	33·92	...
3.—SPEY—Right Bank Tributaries. 285 sq. mi.								
d Dufftown (Victoria Terrace) ...	Miss Walker	5	2	0	579	1211	47·66	236
d Aberlour Orphanage	J. G. White, Esq.	5	4	0	350	1146	45·10	198
Craigellachie (Cragganspey)	J. Shearer, Esq.....	3	0	1	339	1020	40·17	187

DIVISION XVII.—NORTH EASTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with ·01 in. or more	
		Diam.	Height Above Ground.		Sea Level	1915			
		in.	ft.	in.	feet.	mm.	inches.		
MORAY. (Area, 477 sq. mi.)									
1.— DEVERON & C. 7 sq. mi.									
d	2.— SPEY—Right Bank Tributaries. 35 sq. mi. Gordon Castle.....	Mr. C. Webster	5	1	0	107	950	37·40	232
3.— SPEY—Left Bank Tributaries. 133 sq. mi.									
d†	Grantown-on-Spey	W. Duncan, Esq.	5	1	1	700	893	35·17	232
	Knockando	Charles Watt, Esq.	5	1	0	600	1055	41·52	230
4.— LOSSIE & C. 154 sq. mi.									
	Elgin (The Manse).....	Rev. Dr. R. Macpherson...	6	1	3	38	767	30·21	...
d	Duffus House	Mr. W. Ogg	5	1	0	55	718	28·27	199
	Covesea Skerries	Board of Northern Lights	7	3	6	52	519	20·45?	...
5.— FINDHORN & C. 148 sq. mi.									
	Darnaway Castle Gardens.....	Mr. A. Dow.....	5	1	3	200	805	31·69	...
d	Brodie (Earlsmill House)	James Fenwick, Esq.....	5	0	10	140	811	31·92	220
	Forres (Altyre)	J. Pearson, Esq., <i>per</i> S.M.S.	...	...	...	140	796	31·33	...
	„ (Knockonnie)	W. Fraser, Esq.....	6	0	10	100	682	26·85	...
	Kinloss House	Mrs. Mackessack	5	1	3	23	674	26·55	...
NAIRN. (Area, 163 sq. mi.)									
1.— FINDHORN & C. 102 sq. mi.									
d	Ardelach (Glenferness).....	Mr. A. McKenzie	8	1	6	750	995	39·16	184
2.— NAIRN & C. 61 sq. mi.									
d	Cawdor Castle	Mr. D. Chapman	8	4	3	225	815	32·08	208
d	Nairn (Achareidh).....	H. A. Clarke, Esq.....	8	1	0	59	721	28·39	218
	„ (Delnies)	Meteorological Office.....	8	1	9	84	754	29·70	233

DIVISION XVIII.—NORTH WESTERN COUNTIES.

INVERNESS. (Area, 4146 sq. mi.)								
1.— TAY—Tummel. 28 sq. mi.								
2.— SPEY—Right Bank Tributaries. 437 sq. mi.								
d† Nethy Bridge (U.F. Manse)	Rev. A. Sutherland	5	1	0	750	830	32·67	204
3.— SPEY—Left Bank Tributaries. 257 sq. mi.								
d Cluny Castle	Mr. A. Macdonald	5	1	2	900	988	38·90	197
Kingussie	Dr. W. de W. Watteville <i>per</i> MOS	5	1	0	840	814	32·04	207
„	„ „ „ „	5	1	0	828	695	27·37	...
d Alvie Gardens	Mr. J. G. Fraser.....	5	1	3	800	864	34·00	223
† „, Manse	Rev. Dugald Maclean.....	5	1	0	760	844	33·24	...
d† Aviemore (Rothiemurchus)	W. Dempster, Esq.....	5	1	0	706	914	35·97	220
Carrbridge Manse	Rev. A. Doag, <i>per</i> S.M.S.	5	0	11	850	856	33·69	...
† Muckerach Lodge [Grantown]...	Mr. J. Fraser	5	1	3	760	849	33·41	210
4.— FINDHORN. 164 sq. mi.								
5.— NAIRN & C. 131 sq. mi.								
Croy (Dalcross Castle)	The MacKinnon of MacKinnon	5	0	6	400	912	35·92	181
6.— NESS—Right Bank Tributaries. 252 sq. mi.								
d Fort Augustus (St. Benedict's)...	Rev. C. von Dieckhoff.....	5	1	0	68	835	32·88	211
Loch Ness (Killin, Whitebridge)...	British Aluminium Co....	8	1	0	1200	1267	49·88	...
d „ „ (Garthbeg).....	„ „ „ „	8	1	0	645	851	33·49	177

DIVISION XVIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain		Days with ·01 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
INVERNESS—(con.)								
6.—NESS—Right Bank Tributaries—(con.)								
Loch Ness (Foyers).....	British Aluminium Co....	8	1	6	52	806	31·72	162
„ „ (Aberchalder)	„ „ „ „	8	1	0	700	856	33·68	...
7.—NESS—Garry & c. 185 sq. mi.								
D Glen Kingie (Lochan)	W. N. McLean, Esq., C.E.	5	1	0	520	1762	69·37	213
Loch Quoich (Loan)	W. M. Christy, Esq.	5	1	6	650	3094	121·80	...
D „ „ (Kinlochquoich) ...	Col. D. W. Cameron	5	1	0	560	2363	93·02	215
D „ „ (Glenquoich)	T. MacKenzie, Esq. <i>per</i> SMS	5	1	2	569	2176	85·66	227
Laddie Burn (Greenfield)	W. N. McLean, Esq., C.E.	5	1	0	670	1418	55·81	...
Glen Garry (Inchlaggan)	Mr. M. Matheson	5	1	0	370	1253	49·34?	254
Invergarry Gardens	Mr. G. Robertson	5	1	0	130	1358	53·46	...
D „ „ (Schoolhouse)	W. N. McLean, Esq., C.E.	5	1	0	180	1176	46·30	222
Loch Loyne (Bealach-nah-Imrich)	„ „ „ „	5	1	0	835	1510	59·46	...
Invergarry (Loch Lundie)	„ „ „ „	5	1	3	480	1023	40·28	...
„ „ (Loch a' Bhainne) ...	„ „ „ „	5	1	6	1225	994	39·12	...
8.—NESS—Moriston. 120 sq. mi.								
9.—NESS—Enrick. 131 sq. mi.								
D Drumnadrochit	Mr. Angus Grant	5	1	0	138	885	34·84	206
D Inverness (High School)	W. G. MacConnachie, Esq.	5	1	0	98	706	27·81	167
10.—BEAULY. 341 sq. mi.								
Kirkhill (Moniach)	R. Robertson, Esq., C.E.	5	1	0	65	588	23·15?	...
11.—CROMARTY FIRTH. 13 sq. mi.								
12.—SOUND OF SLEAT. 259 sq. mi.								
Loch Morar (Meoble Lodge).....	E. M. Crosfield, Esq.	8	1	3	140	2123	83·57	...
D Loch Nevis (Inverie Gardens) ...	Mr. J. Huggins	5	0	6	10	1768	69·60	203
D Glenelg Manse	Rev. A. Mactaggart	5	1	0	85	1023	40·26	210
13.—SOUND OF ARISAIG. 126 sq. mi.								
D Moidart (Kinlochmoidart).....	J. C. Stewart, Esq.	5	1	3	13	1544	60·80	194
D „ „ (Roshven)	Mrs. Blackburn	5	1	0	40	1398	55·02	229
Loch Ailort (Inverailort)	John McKerlich, Esq. ...	5	1	6	0	1893	74·54	...
D Arisaig (Point of Rhue)	Mr. D. McVarish	5	1	0	100	1081	42·55	172
„ „ (Faire-na-Sguir)	Miss C. C. Astley	5	1	10	30	1121	44·12	204
D „ „ House	Mr. W. Grant	5	1	0	30	1371	53·98	209
14.—LOCH LINNHE—Right Bank Tributaries. 48 sq. mi.								
15.—LOCHY—Right Bank Tributaries. 143 sq. mi.								
D Loch Arkaig (Achnacarry)	Col. D. W. Cameron	5	1	0	120	1638	64·49	217
D „ „ (Glen Dessary)	„ „ „ „	5	1	0	300	2297	90·45	210
Clunes	Charles Mackenzie, Esq. ...	5	1	0	128	1378	54·24	216
16.—LOCHY—Left Bank Tributaries. 362 sq. mi.								
D Spean Bridge (Spean Lodge) ...	Mr. D. M. Welsh	5	1	5	204	1184	46·63	191
Loch Lochy (Invergloyle)	Major G. I. Bailey	5	1	0	202	1051	41·37	202
17.—LOCH LINNHE—Left Bank Tributaries. 120 sq. mi.								
D North Ballachulish (Alltshellach)	B. Chinnery-Haldane, Esq.	5	2	1	80	1480	58·25	200
D Glenleven (Blackwater Dam, N.)	British Aluminium Co....	8	1	0	1072	1608	63·30	226
D „ „ (Kinlochmore Gardens)	Brian Bibby, Esq.	5	1	0	115	2021	79·57	217
„ „ (Chiaron House) No. 3	British Aluminium Co....	8	1	0	1200	1690	66·53	...
„ „ (Cam Bridge) ... No. 5	„ „ „ „	8	1	0	1260	1214	47·78	...
D Fort William (Atholl Bank)	W. T. Kilgour, Esq.	5	1	0	171	1387	54·62	208

DIVISION XVIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above Ground.			1915		
		in.	ft.	in.	feet.	mm.	inches.	
INVERNESS—(con.)								
18.—INSULAR, INNER HEBRIDES. 786 sq. mi.								
Hyskier	Board of Northern Lights	...	...	...	...	794	31.24	188
Skye (Oronsay)	" " "	...	0	6	58	1088	42.82	196
" (Kyleakin)	" " "	5	4	6	53	924	36.38	210
" (Scalpay Island)	Mr. D. Gunn	5	1	0	4	1487	58.53	206
" (Glendrynoch, L. Harport)	Mr. A. Macaskill	5	1	0	40	1399	55.07	...
" (Neist Point)	Board of Northern Lights	...	...	...	...	850	33.46	163
" (Portree)	D. Dewar, Esq.	5	1	0	65	1300	51.16	225
" (Dunvegan)	Mrs. Mackenzie	5	3	0	47	1339	52.70	207
" (Lynedale)	Lord Napier of Magdala	5	1	0	30	1437	56.57	...
Rona	Board of Northern Lights	3	1	3	212	753	29.63	199
19.—INSULAR, OUTER HEBRIDES. 243 sq. mi.								
Barra (Barrahead)	Board of Northern Lights	7	3	0	683	671	26.41	189
" (Castle Bay)	Meteorological Office	8	1	0	38	912	35.92	234
South Uist (Ushenish)	Board of Northern Lights	3	1	0	178	975	38.40	212
North Uist (Monach)	" " "	8	5	6	20	846	33.31	167
" (Bayhead, Lochmaddy)	J. McInnes, Esq.	...	...	...	...	959	37.76	...
Harris (Island Glass)	Board of Northern Lights	7	4	2	130	739	29.11?	201
" (West Tarbert)	W. J. Cameron, Esq.	5	1	6	33	1379	54.28	227
ROSS & CROMARTY. (Area, 3237 sq. mi.)								
1.—NESS—Moriston. 35 sq. mi.								
2.—BEAULY. 109 sq. mi.								
Achnashellach (Glenuaig)	W. M. Christy, Esq.	5	1	0	1150	2395	94.30	...
3.—MORAY FIRTH COAST STRE AMS. 64 sq. mi.								
Fortrose	A. Thom, Esq.	5	1	0	69	802	31.58	195
4.—CROMARTY FIRTH. 714 sq. mi.								
Achnasheen (Ledgowan)	Mr. D. D. Munro	5	1	0	500	1600	63.00	216
Strathpeffer	H. W. Kaye, Esq., per MOS	8	1	0	210	767	30.19	188
Achterneed (Glenskiach)	Mr. T. Dalling	5	1	6	458	741	29.16?	177
Evanton (Swordale House)	Mrs. Randle Jackson per SMS	10	0	8	520	762	30.00	...
Cromarty House	Brig.-Gen. W. C. Ross, C.B.	5	1	0	60	677	26.65	187
"	Board of Northern Lights	3	1	0	28	640	25.20	181
Alness (Fyrish)	Rev. Oswald B. Cowan	8	1	0	351	844	33.21	193
Invergordon (The Ord)	W. G. Paterson, Esq.	5	0	9	50	690	27.16	183
Alness (Ardross Castle)	Mr. W. L. Minty	5	1	0	450	1097	43.18	213
5.—DORNOCH FIRTH. 355 sq. mi.								
Fearn (Lower Pitkerrie)	R. Gordon, Esq., C.E.	5	1	0	95	485	19.09?	149
Tarbatness	Board of Northern Lights	8	4	0	175	482	18.96?	...
Ardgay (Gledfield House Gardens)	William Morrison, Esq.	8	1	0	120	960	37.78	166
6.—ENARD BAY. 78 sq. mi.								
Inverpollly Lodge	A. Taylor, Esq.	5	4	0	29	918	36.16	...
7.—LOCH BROOM & C. 367 sq. mi.								
8.—LOCH EWE, LOCH TORRIDON & C. 423 sq. mi.								
Loch Torridon (Bendamph)	The Earl of Lovelace	5	0	5	20	1825	71.85	215
Poolewe (Inverewe Gardens) ...	Mr. R. B. Campbell	5	0	6	20	1328	52.30	161
9.—LOCH CARRON, LOCH ALSH & C. 401 sq. mi.								
Glen Shiel (Shiel House)	Mr. Colin Campbell	5	...	...	...	1129	44.46	...
Loch Carron (Plockton)	Mrs. Anstruther Mackay	5	1	0	4	1069	42.09	234

DIVISION XVIII.—NORTH WESTERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with '01 in. or more
		Diam.	Height Above Ground. Sea Level			1915		
		in.	ft.	in.	feet.	mm.	inches.	
ROSS & CROMARTY—(con.)								
9.—LOCH CARRON, LOCH ALSH & C.—(con.)								
D Lochcarron	G.J. Campbell Esq. per SMS	...	...	...	...	1566	61·64	252
Applecross Gardens	Mr. D. McCowan	9	1	0	70	1385	54·54	...
D Glencarron Lodge	Mr. D. D. Munro	5	1	0	504	1736	68·36	247
„ „	M „ „ „	5	1	0	504	2050	80·69	...
10.—INSULAR, OUTER HEBRIDES. 691 sq. mi.								
Stornoway	Meteorological Office	8	1	0	52	1170	46·05	254
„ (Tiumpanhead)	Board of Northern Lights	...	...	...	170	737	29·03?	154
„ (Butt of Lewis)	„ „ „	8	4	6	170	869	34·20	185

DIVISION XIX.—NORTHERN COUNTIES.

SUTHERLAND. (Area, 2080 sq. mi.)

1.—DORNOCH FIRTH. 418 sq. mi.								
D Invershin	G. Young, Esq.	5	4	0	20	797	31·37	178
2.—FLEET, BRORA & C. 309 sq. mi.								
D Dornoch	G. J. Campbell, Esq.	5	1	0	35	723	28·48	176
Golspie (Technical School)	E. W. Read, Esq.	6	1	9	105	930	36·63	...
D Dunrobin Castle.....	Mr. D. Melville	5	1	6	14	834	32·82	164
„ „	M „ „	5	1	0	14	840	33·07	...
3.—HELMSDALE & C. 226 sq. mi.								
4.—NORTH COAST STREAMS. 738 sq. mi.								
Altnaharra	Rev. Malcolm Gillies.....	5	1	0	300	1133	44·62	238
Strath More (Altnacaillich)	Mr. Duncan Fraser	5	1	0	60	1297	51·05	232
D Tongue Manse	Rev. David Lundie	5	1	0	180	1078	42·44	254
D Bettyhill.....	Mr. Evander Mackay.....	5	1	0	100	979	38·55	235
D Melvich Schoolhouse.....	Mr. A. MacIntosh	5	1	0	...	992	39·06	166
Cape Wrath	Board of Northern Lights	7	4	8	400	1096	43·14	212
5.—LOCH LAXFORD & C. 256 sq. mi.								
D Loch More (Achfary).....	Mr. J. Munro	5	1	0	137	1718	67·63	244
6.—ENARD BAY. 138 sq. mi.								
7.—INSULAR. 2 sq. mi.								

CAITHNESS. (Area, 696 sq. mi.)

1.—BERRIEDALE, DUNBEATH & C. 169 sq. mi.								
D Berriedale (Langwell Gardens)...	Mr. M. MacKenzie	5	1	6	100	931	36·65	194
2.—WICK & C. 184 sq. mi.								
Wick	Meteorological Office.....	8	1	9	81	676	26·62	239
Nosshead.....	Board of Northern Lights	7	4	7	175	499	19·64?	165
3.—THURSO & C. 238 sq. mi.								
D Thurso (Buckies)	J. H. M. Davidson, Esq....	5	0	11	240	1066	41·95	236
Castletown (WestGreenlandFm.)	P. Finlayson, Esq.....	5	1	0	150	869	34·20	...
Thurso (Holburn Head)	Board of Northern Lights	3	0	8	75	920	36·24	186
Dunnet Head	„ „ „	3	1	0	246	591	23·26?	...
4.—FORSS & C. 104 sq. mi.								
D Reay (The Manse)	Rev. Dugald Carmichael	8	1	0	50	989	38·95	231

DIVISION XIX.—NORTHERN COUNTIES—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain,		Days with .01 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
CAITHNESS—(con.)								
5. INSULAR. 1 sq. mi.								
Stroma	Board of Northern Lights	...	...		104	588	23·16?	...
Pentland Skerries	„ „ „	7	3	9	170	509	20·03?	...
ORKNEY. (Area, 389 sq. mi.)								
Hoy (Graemsay Sound, High)...	Board of Northern Lights	5	0	4	115	645	25·38	168
„ („ „ Low) ...	„ „ „	8	4	3	55	754	29·68	197
Pomona (Deerness)	Magnus Spence, Esq.	5	4	0	161	801	31·55	217
„ (Kirkwall)	A. G. Spence, Esq.	5	1	0	72	818	32·20	220
Hellyar Holm.....	Board of Northern Lights	3	1	0	60	641	25·23	190
Shapinsay (Balfour Castle)	Mr. W. Liddell	5	0	6	50	746	29·36	...
Auskerry	Board of Northern Lights	3	2	6	10	692	27·26	...
Sanday (Start Point).....	„ „ „	3	1	0	80	741	29·17	182
Westray (Noup Head)	„ „ „	3	1	0	260	757	29·82	187
North Ronaldshay	„ „ „	3	0	4	140	770	30·33	234
Sule Skerry	„ „ „	3	0	6	113	787	31·00	220
SHETLAND. (Area, 558 sq. mi.)								
Bressay	Board of Northern Lights	3	1	0	105	729	28·69	...
Lerwick (Fort Charlotte)	Meteorological Office	8	1	0	54	955	37·60	267
Northmavine (Lochend)	Exors. of late R. C. Haldane, Esq.	5	1	10	10	954	37·55	205
Fetlar (The Manse)	Rev. J. A. Campbell	5	1	0	30	679	26·73	229

DIVISION XX.—MUNSTER.

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
CORK. (Area, 2873 sq. mi.)								
1.—SHANNON—Left Bank Tributaries. 79 sq. mi.								
2.—DINGLE BAY. 4 sq. mi.								
3.—KENMARE & C. 47 sq. mi.								
4.—BANTRY BAY. 197 sq. mi.								
D Garinish Island	Mr. V. Gammon.....	5	1	3	60	1906	75.02	217
5.—DUNMANUS BAY. 57 sq. mi.								
6.—BANDON & C. 694 sq. mi.								
D Castletownshend (Seafield)	Major H. Chavasse.....	5	0	8	40	1267	49.89	214
Skibbereen (Hollybrook)	Col. A. H. Morgan, D.S.O.	8	1	2	60	1593	62.71	191
D Caheragh (The Rectory)	Rev. A. W. Whitley	5	0	11	98	1614	63.53	211
Clonakilty (Shannon Vale House)	T. J. Bennett, Esq.	5	1	3	135	1230	48.43	174
D Dunmanway (The Rectory)	Rev. A. Wilson	5	1	6	205	1717	67.59	221
D „ (Carbery)	Dr. W. H. Fitzmaurice...	5	1	6	204	1747	68.79	211
D Enniskean (Kilcoleman)	Miss E. Longfield	5	3	0	180	1400	55.10	188
D Bandon (Ardnacarrig)	G. A. Armstrong, Esq. ...	5	1	0	126	1182	46.52	178
7.—CORK HARBOUR. 726 sq. mi.								
†Roches Point	Meteorological Office.....	8	1	9	32	1142	44.96	246
D†Midleton (Ballynacurra)	J. H. Bennett, Esq.	8	1	0	24	1066	41.96	207
D†Cork (Corn Market)	D. J. O'Mahony, Esq.....	5	1	0	19	1110	43.69	182
D „ (University College).....	Prof. Isaac Swain	8	1	0	65	1134	44.64	201
D „ („ „) ... (R)	„ „ „ „ „ „	6	2	0	66	1088	42.83	198
D „ (Wellington Road)	R. C. Sikes, Esq., C.E....	5	2	6	120	1070	42.11	181
D†Queenstown (Fota Island)	Mr. E. Beckett	5	1	6	35	1222	48.10	204
D†Glanmire (Lota Lodge).....No. 1	A F Sharman Crawford Esq	5	1	0	200	1126	44.34	203
D „ („ „).....No. 2	„ „ „ „ „ „	5	1	0	100	1092	43.01	201
8.—WOMANAGH & C. 118 sq. mi.								
D Shanagarry (Kinoith)	Miss L. P. Strangman.....	5	1	0	75	968	38.09	167
9.—BLACKWATER. 922 sq. mi.								
D Mallow (Summer Hill)	J. F. Williamson, Esq....	5	1	10	261	1015	39.97	207
D „ (Longueville)	R. E. Longfield, Esq.....	5	1	1	310	1030	40.54	197
Ballyhooley	H. Beddington, Esq.	5	0	9	...	1058	41.65	152
Kanturk (Castlecor)	Mrs. Barry .....	...	...	...	...	976	38.44	202

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain		Days with '01 in. or more	
		Diam.	Height Above Ground SeaLevel		1915			
		in.	ft.	in.	feet.	mm.	inches.	
CORK—(con.)								
9.—BLACKWATER—(con.) d Mitchelstown Castle	W. D. Webber, Esq.....	8	3	0	340	1039	40·91	214
10.—SUIR. 3 sq. mi.								
11.—INSULAR. 26 sq. mi.								
KERRY. (Area, 1851 sq. mi.)								
1.—SHANNON—Left Bank Tributaries. 372 sq. mi.								
2.—TRALEE BAY & C. 221 sq. mi.								
3.—DINGLE BAY. 789 sq. mi.								
† Cahirciveen (Valencia Observatory)	Meteorological Office	11	2	8	30	1593	62·76	242
d † " "	" " " " " "	8	1	0	30	1516	59·67	239
d † Killarney (District Asylum) ...	E. W. Griffin, Esq., M.D.	5	0	10	178	1356	53·40	250
4.—KENMARE & C. 426 sq. mi.								
d † Darrynane Abbey ..	D. O'Connell, Esq.....	5	1	1	13	1606	63·25	248
d Kenmare (Derreen)	Mr. W. H. Arrowsmith...	5	1	0	74	2153	84·78	217
d " (Dunkerron Castle) ...	Miss L. Palmer	5	1	6	70	1530	60·23	237
d " (Dromquinna)	Mr. Robert Reid.....	5	1	0	60	1505	59·25	189
d " (Dromore)	Lt.-Col. E. Hood	5	1	2	90	1577	62·07	195
5.—BLACKWATER. 30 sq. mi.								
6.—INSULAR. 18 sq. mi.								
Valencia (Glanleam)	Meteorological Office	8	1	0	12	1493	58·78	205
WATERFORD. (Area, 715 sq. mi.)								
1.—BLACKWATER. 243 sq. mi.								
d Lismore Castle	J. E. Penrose, Esq.....	5	2	9	115	1081	42·57	164
d Cappoquin House	Capt. Sir J. Keane, Bt....	1060	41·75	215
2.—COLLIGAN & C. 259 sq. mi.								
d Tramore (Midvale).....	E. B. Jacob, Esq.	11	6	0	130	842	33·14	153
3.—SUIR. 213 sq. mi.								
d KnockaderryNo. 1	J. J. Fleming, Esq., C.E.	5	7	7	247	1022	40·22	174
d "No. 2	" " " " " "	5	7	7	247	1030	40·53	174
d † Waterford (Brook Lodge).....	C. P. Bolton, Esq., C.E....	5	1	0	104	1052	41·42	172
d † " (Tycor Waterworks).	J. J. Fleming, Esq., C.E.	5	0	7	171	908	35·75	150
d " (De La Salle College)	Prof. M. J. Healy, per M.O.	8	1	0	17	976	38·41	179
d † " (Coollegrean)	E. A. White, Esq.....	5	1	0	50	959	37·74	148
d † " (Rocklands).....	J. N. White, Esq.	5	2	0	30	1003	39·49	178
d Portlaw (Mayfield).....	J. Anderson, Esq.	5	4	0	70	1070	42·13	195
d " (Curraghmore Gardens)	Mr. D. Crombie	5	1	0	95	1195	47·05	158
d Seskin [Carrick-on-Suir]	J. Ernest Grubb, Esq.....	8	1	4	542	1093	43·02	204
TIPPERARY. (Area, 1660 sq. mi.)								
1.—SHANNON—Left Bank Tributaries. 582 sq. mi.								
d Ballina [Killaloe]	Office of Public Works ...	5	2	0	127	1174	46·22	214
d Templederrey Rectory	Rev. C. W. McDowell....	5	1	0	440	1118	44·01	198
d Nenagh (Traverston)	Miss Norris.....	5	1	0	330	1209	47·60	246
d " (Kilboy)	The Lady Dunalley	8	1	0	326	1221	48·07	219

DIVISION XX.—MUNSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.			Depth of Rain.		Days with .01 in. or more	
		Diam.	Height Above		1915			
			Ground	Sea Level				
TIPPERARY—(con.)		in.	ft.	in.	feet.	mm.	inches.	
1.—SHANNON—Left Bank Tributaries—(con.)								
D Nenagh (Castle Lough)	S. G. J. Parker-Hutchinson, Esq.	5	1	3	120	1060	41.72	201
2.—BLACKWATER. 21 sq. mi.								
3.—SUIR. 965 sq. mi.								
D Clonmel (Bruce Villa)	J. H. Grubb, Esq.	8	1	3	110	912	35.90	197
D „ (Oaklands)	A. E. Rogers, Esq.	5	1	0	220	812	31.98	195
D Cahir (Suirvale)	George Palmer, Esq., C.E.	5	1	0	200	907	35.71	196
D „ (Bengurragh)	R. W. Smith, Esq., junr.	5	1	0	199	1037	40.83	235
D „ Abbey	Mrs. W. Rochfort	5	1	0	160	980	38.60	212
D Cashel (Ballinamona)	E. W. M. Murphy, Esq.	5	1	0	260	966	38.01	226
D Ardmayle	L. H. Grubb, Esq.	5	1	6	260	851	33.49	161
4.—BARROW—Nore. 92 sq. mi.								
Kilcooley Abbey	T. B. Ponsonby, Esq.	5	1	3	500	931	36.65	159
Roscrea (Timoney Park)	S. G. J. Parker-Hutchinson, Esq.	5	1	0	475	897	35.31	175
LIMERICK. (Area, 1040 sq. mi.)								
1.—SHANNON—Right Bank Tributaries. 7 sq. mi.								
2.—SHANNON—Left Bank Tributaries. 944 sq. mi.								
Foynes (Coolnanes)	Lord Montague, per M.O.	5	1	0	50	997	39.28	212
D Limerick (Mungret College)	Rev. R. W. Gallagher, S.J.	5	1	0	49	838	32.99	203
† „ (O'Connell Street)	F. O'Brien, Esq.	5	1	9	52	876	34.47	...
D „ (Roxborough)	W. J. C. Horne, Esq.	5	1	0	50	852	33.56	215
D „ (St. Michael's School)	Mr. J. G. Boyd	5	1	3	43	828	32.58	...
D Glenstal Castle	Mr. J. McBean	8	1	0	400	980	38.58	186
D Castleconnell Rectory	Mrs. Davis	5	1	0	88	1048	41.25	182
Abbeyfeale (Springmount)	J. F. O'Kelly, Esq.	8	1	0	...	1085	42.71	209
3.—BLACKWATER. 64 sq. mi.								
4.—SUIR. 25 sq. mi.								
CLARE. (Area, 1270 sq. mi.)								
1.—GALWAY BAY, SOUTH. 100 sq. mi.								
D Ennistymon (Doolin)	Mr. Michael Flanagan	5	0	10	72	1195	47.05	213
2.—MAL BAY & C. 294 sq. mi.								
D Inagh (Mount Callan)	Lt.-Col. F. Tottenham	5	1	0	479	1618	63.72	227
Lahinch (Moy House)	Dr. C. H. Blood	5	1	0	170	1043	41.07	192
D Ennistymon House	H. V. Macnamara, Esq.	5	1	0	37	1236	48.67	229
3.—SHANNON—Right Bank Tributaries. 854 sq. mi.								
D Carrigaholt Castle	W. C. V. Burton, Esq.	5	1	0	16	1139	44.83	231
D† Derravoher [Limerick]	Sir A. W. Shaw	5	1	0	40	805	31.71	193
D Killadysert (Paradise Hill)	Mrs. F. B. Henn	5	0	11	125	1126	44.33	228
D Newmarket-on-Fergus (Carrigoran)	Mr. A. Barker	5	1	0	86	1079	42.49	206
D „ „ (Fenloe)	late Maj. S. C. Hickman	5	1	2	105	993	39.10	238
D Broadford (Hurdlestown)	Colonel W. A. Bentley	5	1	0	157	1058	41.66	231
D Mountshannon (Woodpark)	R. F. Hibbert, Esq.	5	1	0	170	1105	43.50	202
D „ Rectory	Rev. S. H. Somers	5	1	0	145	1063	41.84	200
4.—INSULAR. 22 sq. mi.								

DIVISION XXI.—LEINSTER.

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0·1 in. or more
		Diam.	Height Above Ground		SeaLevel	1915		
		in.	ft.	in.	feet.	mm.	inches.	
WEXFORD. (Area, 902 sq. mi.)								
1.—BARROW. 43 sq. mi.								
2.—OWENDUFF & C. 240 sq. mi.								
D Fethard-on-Sea Rectory	Rev. W. F. A. Ellison.....	5	1	0	40	832	32·74	197
D Foulkesmill (Longraigue).....	Miss J. Deane.....	5	1	1	220	1054	41·48	162
3.—SLANEY & C. 467 sq. mi.								
D Wexford (Johnstown Castle) ...	Mr. Edward Slavin	8	1	2	200	1045	41·14	158
D Templeudigan (Ballindoney) ...	Janssen Budgen, Esq.....	5	1	0	434	1014	39·94	157
D Enniscorthy (Ballyhyland).....	Mrs. Moffat.....	5	1	0	365	1145	45·08	217
D „ (Summerville).....	W. Waring, Esq.	5	6	10	106	869	34·21	180
D „ (Monksgrange).....	Goddard H. Orpen, Esq....	5	1	0	565	1230	48·44	153
D „ (Woodbrook)	E. C. Blacker, Esq.	5	1	0	370	1260	49·60	164
4.—OWENAVORRAGH & C. 146 sq. mi.								
D Oulart (Wells)	C. M. Doyne, Esq.....	5	1	0	220	970	38·19	179
D Gorey (Courtown House)	Mr. J. Turner.....	5	3	0	60	1030	40·57	168
5.—OVOCA & C. 6 sq. mi.								
KILKENNY. (Area, 798 sq. mi.)								
1.—SUIR. 162 sq. mi.								
D Rockenham [Waterford]	A. E. Graves, Esq.....	5	1	0	140	988	38·91	187
D Piltown (Bessborough)	Mr. T. E. Tomalin.....	8	3	7	60	1000	39·35	202
2.—BARROW—Nore. 527 sq. mi.								
Inistioge (Woodstock, Mount Alto)	E. K. B. Tighe, Esq.	9	3	0	...	1031	40·59	...
D „ („).....	„ „ „	6	1	0	400	849	33·44	...
D Thomastown (Ballyduff)	Lord Teignmouth	5	1	5	65	1042	41·03	191
D „ (Grennan Lodge)...	W. T. Pilsworth, Esq.	5	1	3	98	864	34·00	155
Kilkenny Castle	Mr. E. Sutton, <i>per</i> M.O.	8	1	0	212	833	32·79	213
† „ (Lavistown House) ...	Miss F. E. Butler	5	2	5	170	778	30·61	172
3.—BARROW. 109 sq. mi.								
D Goresbridge (Barragheore House)	H. de M. Fleming, Esq....	5	1	0	130	801	31·55	191
WICKLOW. (Area, 781 sq. mi.)								
1.—BARROW. 12 sq. mi.								
2.—SLANEY. 200 sq. mi.								
D Shillelagh (Coollattin Gardens)...	Duncan Brough, Esq.....	5	0	7	383	1058	41·66	168
3.—OVOCA & C. 241 sq. mi.								
Rathdrum (Avondale)	A. C. Forbes, Esq.....	5	0	6	414	1042	41·03	...
4.—VARTRY & C. 193 sq. mi.								
Arklow (The Sycamores)	Mrs. Udal	5	3	0	40	853	33·57	...
D Wicklow (Wentworth House) ...	E. N. Wynne, Esq., C.E.	5	1	1	23	978	38·49	177
D „ (Leitrim Place)	Rev. H. Ellison	5	0	7	18	975	38·38	174
D Rathnew (Clonmannon)	Rev. W. H. A. Truell.....	5	1	0	27	933	36·75	177
Roundwood (Vartry Lo. Filters)	M. J. Buckley, Esq., C.E.	8	1	6	643	1303	51·31	...
D „ („)	„ „ „	5	1	6	720	1291	50·81	206
D „	„ „ „	5	1	6	800	1305	51·37	198
D „ (Knockatemple).....	„ „ „	5	1	6	760	1297	51·05	205
D Newcastle (Killadreenan)	Dr. J. O'B. Kennedy.....	8	1	2	270	902	35·50	179

DIVISION XXI.—LEINSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0·1 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
WICKLOW—(con.)								
4.—VARTRY & C—(con.)								
Tithewer	M. J. Buckley, Esq., C.E.	5	1	6	1000	1297	51·06	...
Annacarter Schoolhouse	"	5	1	6	750	1322	52·04	...
Greystones (Auburn).....	Sir J. W. Moore, M.D....	5	1	4	30	940	36·99	169
" (Coolagad)	Dr. J. H. M. Armstrong...	5	0	9	190	1123	44·22	188
Kilmacanoge (Carrigoona).....	Sir W. F. Barrett, F.R.S.	5	1	0	460	1149	45·23	...
†Bray (Fassaroe) ...	Mrs. R. M. Barrington...	10	5	0	250	1185	46·65	184
D " (")	Snowdon " " "	5	1	0	250	1148	45·20	182
" (Ardmore).....	Irish Times .....	...	...	...	...	998	39·30	153
5.—LIFFEY & C. 135 sq. mi.								
CARLOW. (Area, 346 sq. mi.)								
1.—BARROW—Nore. 9 sq. mi.								
2.—BARROW. 216 sq. mi.								
Bagnalstown (Fenagh House) ...	D. R. P. Beresford, Esq...	5	1	0	340	843	33·18	169
" "								

DIVISION XXI.—LEINSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
KILDARE—(con.)								
2.—LIFFEY. 246 sq. mi.								
Sallins (Palmerstown)	The Countess of Mayo.....	5	1	0	321	856	33·70	208
D Straffan House	Mr. F. Bedford	5	1	0	240	810	31·87	188
Clongowes Wood College	Rev. P. Kenny, S.J.	8	1	0	246	833	32·81	194
3.—BOYNE. 76 sq. mi.								
DUBLIN. (Area, 354 sq. mi.)								
1.—VARTRY & C. 23 sq. mi.								
Carrikmies (Claremont)	John Read, Esq.	5	0	11	250	898	35·34	149
D Ballybrack (Marino)	Rt. Hon. L. A. Waldron..	5	3	6	...	789	31·05	159
Killiney (Williams Park).....	J. C. Larminie, Esq., C.E.	5	1	3	30	861	33·91	...
2.—LIFFEY & C. 188 sq. mi.								
D Shankill (Rosedale)	H. Fayle, Esq.	5	0	11	59	955	37·60	177
D Glen-na-Smoel (Rathmines W.W.)	W. R. Stephens, Esq., C.E.	5	1	0	510	1354	53·31	246
D Ballyboden (Rathmines W.W.)..	" " " "	5	1	0	344	1028	40·49	190
D Stillorgan (Farmleigh)	T. Jackson, Esq.	5	1	2	250	915	36·01	180
" (Vartry Reservoir)	<i>Irish Times</i> .....	...	...	...	...	900	35·45	166
D† Blackrock (Charleville).....	S. Harold Pim, Esq.	5	1	0	260	888	34·97	161
Dundrum (Manor Mill Lodge)...	Sir J. W. Moore, M.D.	5	1	3	192	977	38·47	209
" (Belfort House)	" " " "	5	...	...	...	935	36·81	201
D Kingstown (Harbour Yard)	Office of Public Works ...	8	1	0	52	937	36·90	174
D Belgard Castle	Capt. A. F. Maude.....	5	1	0	400	897	35·30	232
Rathmines (Terenure)	F. P. Dixon, Esq., C.E.	5	0	6	125	831	32·73	195
D " "	E. H. Cannon, Esq.	5	0	11	125	851	33·49	194
D " (Ormond Road)	W. R. Stephens, Esq., C.E.	5	1	0	99	879	34·62	192
" (Dartrey Road)	T. Mason, Esq.	5	6	0	...	862	33·93	...
Donnybrook (Belmont Avenue)...	Douglas Waring, Esq.	5	0	9	100	956	37·65	199
Dublin (Leeson Park)	Sir J. W. Moore, M.D.	5	1	4	75	828	32·61	187
D† " (FitzWilliam Square) ...	" " " "	8	1	6	54	851	33·52	204
† " (Trinity College)	Prof. W. E. Thrift.....	8	1	0	13	764	30·10	168
D† " (Phoenix Park)	Ordnance Survey Office...	8	1	0	155	842	33·13	204
" (Ringsand Pumping Sta.)	M. J. Buckley, Esq., C.E.	10	1	1	25	849	33·41	176
Clontarf (Pumping Station)	" " " "	5	4	9	22	739	29·08	185
Palmerston (Stewart Institution)	<i>Irish Times</i> .....	...	...	...	...	857	33·75	...
Lucan (Esker Gardens).....	" " " "	...	...	...	...	870	34·26	193
D Glasnevin (Roy. Botanic Gardens)	Sir F. W. Moore	8	1	0	55	826	32·62	202
D Howth Castle	J. G. St. Lawrence, Esq.	5	1	6	25	816	32·12	181
3.—NANNY, DELVIN & C. 142 sq. mi.								
D Malahide (Seamount)	J. G. Jameson, Esq.	5	1	0	150	831	32·72	183
D " (The Green)	T. Bateman, Esq.	5	1	7	25	761	29·97	178
D† Skerries (Milverton Hall).....	Capt. E. G. Woods.....	5	1	6	190	732	28·82	199
D† Balbriggan (Ardgillan) ... No. 1	Capt. E. R. Taylor.....	5	1	0	211	801	31·54	204
† " (") ... No. 3	" " " "	5	1	0	211	805	31·68	...
4.—INSULAR. 1 sq. mi.								
D Lambay Island	Hon. Cecil Baring	5	1	0	20	743	29·24	170
MEATH. (Area, 909 sq. mi.)								
1.—SHANNON—Left Bank Tributaries. 32 sq. mi.								
2.—LIFFEY & C. 72 sq. mi.								
Dunboyne (Stirling, Clonee).....	Mr. J. Pilkington	8	1	0	231	849	33·41	192

DIVISION XXI.—LEINSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
MEATH—(con.)								
3.—NANNY, DELVIN & C. 150 sq. mi.								
D Mullacroghan [Drogheda]	W. Brydon Hill, Esq.....	5	1	6	300	773	30·45	172
4.—BOYNE. 560 sq. mi.								
D Summerhill House.....	Lord Langford	5	1	0	372	882	34·74	185
D Athboy (Mitchelston)	W. J. Hopkins, Esq.....	5	1	0	260	934	36·78	193
D „ (Frankville)	C. P. Coghill, Esq.....	8	1	3	227	1008	39·67	183
D Navan (Durhamstown)	Miss M. Roberts.....	5	0	8	...	1014	39·93	170
D „ (Staffordstown)	R. J. Butler, Esq.....	5	1	0	250	865	34·04	192
D Kells (Headfort).....	The Marquis of Headfort	8	0	6	227	948	37·34	193
5.—DUNDALK BAY. 95 sq. mi.								
D Drumconrath (Aclare House) (R)	Mrs. Singleton	10	1	0	119	790	31·12	191
WESTMEATH. (Area, 712 sq. mi.)								
1.—SHANNON—Left Bank Tributaries. 517 sq. mi.								
D Athlone	Office of Works	5	2	0	128	687	27·05?	180
D „ (Twyford)	J. P. Hodson, Esq.....	5	5	0	188	1095	43·11	215
D Moate (Coolatore)	H. A. S. Upton, Esq.....	5	1	6	369	991	39·01	216
D Mullingar (Belvedere)	Mr. J. Bayliss	5	1	0	367	1055	41·52	210
D „ (Ballynegall Gardens)	Mr. W. Wood.....	5	2	0	300	977	38·48	197
D Rathowen (Cromlyn)	Maj.-Gen. J. P. Battersby	8	1	6	250	894	35·21	228
D Castlepollard (Gillardstown Ho.)	W. Hardy, Esq.	5	1	0	290	891	35·07	162
D „ (Pakenham Hall)...	Mr. G. Bogie	5	1	6	300	948	37·31	215
D Coole (Mayne Rectory)	Rev. R. Butler	5	1	0	300	958	37·71	200
2.—BOYNE. 195 sq. mi.								
LOUTH. (Area, 316 sq. mi.)								
1.—BOYNE. 32 sq. mi.								
2.—DUNDALK BAY & C. 284 sq. mi.								
D Drogheda (Black Hall)	<i>Irish Times</i>	5	1	0	170	745	29·34	160
D Dundalk (Town Hall) ..	M. Sellars, Esq., C.E.....	8	55	0	82	783	30·82	193
D „ (Mount Pleasant)	Telford Macneill, Esq.....	5	1	0	60	865	34·06	227
D „ (Aughneskea Reservoir)	M. Sellars, Esq., C.E.....	5	1	3	207	938	36·95	151
D „ (Ballymacallet)	„ „ „	5	3	6	375	804	31·64	...
3.—CARLINGFORD LOUGH. 20 sq. mi.								
D Greenore.....	T. Chambers, Esq., C.E.	5	1	0	20	758	29·85	186
LONGFORD. (Area, 424 sq. mi.)								
1.—ERNE. 61 sq. mi.								
2.—SHANNON—Left Bank Tributaries. 363 sq. mi.								
D Ballymahon (New Castle).....	Col. W. H. King-Harman	5	2	5	250	984	38·76	223
D Cloondraha	Office of Public Works ...	5	2	0	130	755	29·74	231
D Castle Forbes Gardens	The Earl of Granard.....	8	1	0	168	984	38·73	212

DIVISION XXII.—CONNAUGHT.

GALWAY. (Area, 2377 sq. mi.)

1.—ERIFF & C. 141 sq. mi.								
2.—GALWAY BAY, NORTH. 277 sq. mi.								
D Knockboy House	D. H. Thompson, Esq.....	5	0	10	150	1273	50·13	223

DIVISION XXII.—CONNAUGHT—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 0.1 in. or more
		Diam.	Height Above Ground. Sea Level			1915		
		in.	ft.	in.	feet.	mm.	inches.	
GALWAY—(con.)								
3.—CORRIB. 846 sq. mi.								
D Ballynahinch Castle	R. Berridge, Esq.	5	1	9	41	1613	63.50	232
D Headford (Ower House)	Lt.-Col. C. Beddington...	5	1	0	50	1155	45.46	158
Tuam (Castle Hacket)	Capt. D. K. Bernard	5	1	0	400	991	39.01	...
„ (Gardenfield)	R. J. Kirwan, Esq.	5	1	0	155	1131	44.52	...
„ („)	„ „ „	5	6	0	161	1118	44.02	...
4.—GALWAY BAY, SOUTH. 281 sq. mi.								
D Woodlawn	Mr. C. Farmer	5	3	6	300	1080	42.54	214
5.—SHANNON—Right Bank Tributaries. 803 sq. mi.								
D Ahascragh (Clonbrock)	Lord Clonbrock, K.P.	10	5	6	200	1203	47.37	161
6.—INSULAR. 29 sq. mi								
ROSCOMMON. (Area, 961 sq. mi.)								
1.—SLIGO BAY. 6 sq. mi.								
2.—MOY. 11 sq. mi.								
3.—CORRIB. 16 sq. mi.								
4.—SHANNON—Right Bank Tributaries. 928 sq. mi.								
D Strokestown (Castlenode)	W. J. Walpole, Esq.	5	1	0	160	901	35.49	168
D Albert Lock [Jamestown]	Office of Public Works ...	5	2	0	146	794	31.25	189
MAYO. (Area, 2149 sq. mi.)								
1.—SLIGO BAY. 10 sq. mi.								
2.—MOY & C. 797 sq. mi.								
D Crossmolina (Enniscoe)	J. Pratt, Esq.	5	0	11	74	1393	54.83	254
3.—BLACKSOD BAY & C. 411 sq. mi.								
Blacksod Point	Meteorological Office	8	0	10	253	1084	42.65	253
4.—CLEW BAY. 254 sq. mi.								
D Westport House	Marquis of Sligo	5	1	0	35	1221	48.06	217
D „ (St. Helen's)	Miss Kelly	6	0	11	35	1169	46.04	240
D Newport (Burrishoole House) ...	H. M. Anketell Jones, Esq.	5	1	10	30	1308	51.49	234
5.—ERIFF & C. 121 sq. mi.								
D Aasleagh House	Marquis of Sligo	5	1	0	35	2133	83.99	221
D Delphi Lodge	„ „	5	1	0	...	2430	95.66	247
6.—CORRIB. 432 sq. mi.								
D Cong (The Glebe)	Rev. Canon R. Y. Lynn...	5	1	11	112	1276	50.24	218
7.—SHANNON—Right Bank Tributaries. 35 sq. mi.								
8.—INSULAR. 89 sq. mi.								
D Dugort (Slievemore Hotel)	Mrs. J. R. Sheridan	5	1	0	50	1449	57.03	198
SLIGO. (Area, 716 sq. mi.)								
1.—DROWES & C. 49 sq. mi.								
2.—SLIGO BAY. 444 sq. mi.								
D Collooney (Markree Observatory)	J. R. Armstrong, Esq.	5	1	0	127	1181	46.50	242
„ („ „)	„ „ „	5	16	6	143	1153	45.40	238
D Sligo	R. J. Kirwan, Esq.	5	1	0	90	1117	43.99	220
3.—MOY & C. 166 sq. mi.								
4.—SHANNON—Right Bank Tributaries. 56 sq. mi.								
5.—INSULAR. 1 sq. mi.								

DIVISION XXII.—CONNAUGHT—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with 01 in. or more
		Diam.	Height Above Ground. Sea Level			1915		
		in.	ft.	in.	feet.	mm.	inches.	
LEITRIM. (Area, 615 sq. mi.)								
1.—ERNE. 152 sq. mi.								
Carrigallen	Miss B.M. Beattie, <i>per</i> M.O.	5	0	8	285	923	36·33	...
2.—DROWES & C. 85 sq. mi.								
3.—SLIGO BAY. 135 sq. mi.								
4.—SHANNON—Right Bank Tributaries. 47 sq. mi.								
5.—SHANNON—Left Bank Tributaries. 196 sq. mi.								
D Ruskey	Office of Public Works...	5	2	0	139	678	26·70	193
D Mohill Rectory	Rev. H. Justice	5	1	0	300	1008	39·68	213
Drumshanbo (Lough Allen Sluices)	Office of Works	5	2	0	-169	997	39·26	...

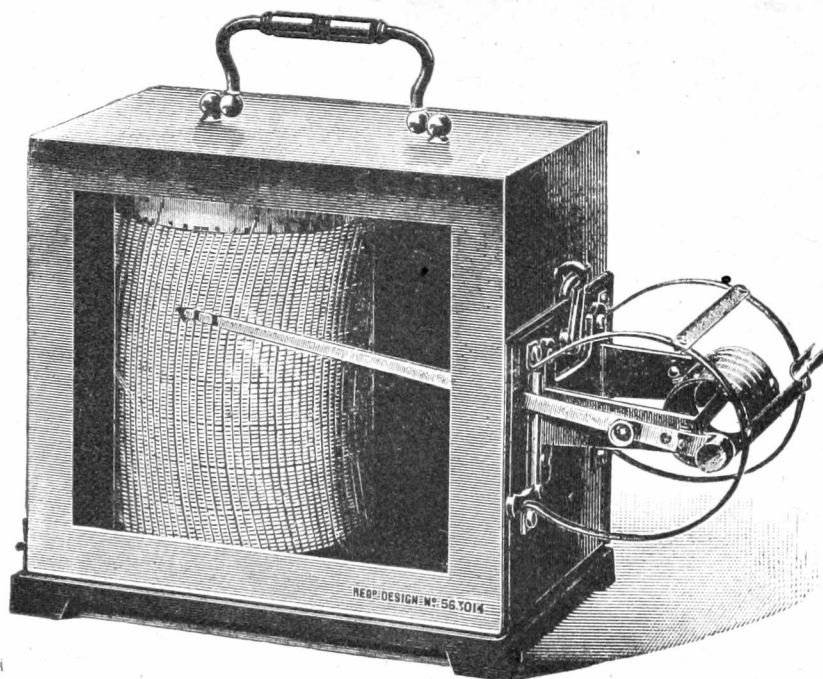
DIVISION XXIII.—ULSTER.

CAVAN.							
(Area, 753 sq. mi.)							
1.—ERNE. 489 sq. mi.							
D	Killeshandra (Drom Mullac)	Miss Prudence M. Lough	5	1	0	280	966 38·02 199
D	Cootehill Workhouse	T. Conolly, Esq.....	5	0	9	306	927 36·49 190
D	" (Errigle)	Dr. T. H. Moorhead	5	0	9	273	838 32·99 208
D	Belturbet (Cloverhill)	Mrs. Sanderson	5	1	0	202	807 31·77 187
2.—SHANNON—Right Bank Tributaries. 34 sq. mi.							
3.—SHANNON—Left Bank Tributaries. 91 sq. mi.							
4.—BOYNE. 122 sq. mi.							
5.—DUNDALK BAY. 17 sq. mi.							
FERMANAGH.							
(Area, 713 sq. mi.)							
1.—ERNE. 667 sq. mi.							
D	Newtownbutler (Crom Castle) ...	Mr. A. Reid	5	0	9	174	927 36·50 268
	Enniskillen (Portora)	W. N. Tetley, Esq.	5	1	0	251	936 36·84 ...
D	Irvinestown (Northern Bank) ...	W. F. S. Wilkinson, Esq.	5	1	0	290	922 36·28 227
	Belleek (Heronshaw).....	J. Beacom, Esq.....	5	1	5	150	1011 39·80 229
2.—DROWES & C. 46 sq. mi.							
MONAGHAN.							
(Area, 498 sq. mi.)							
1.—ERNE. 208 sq. mi.							
D	Dartrey [Cootehill]	The Earl of Dartrey	5	2	6	265	912 35·90 197
2.—DUNDALK BAY. 132 sq. mi.							
3.—BANN—Lough Neagh, West. 158 sq. mi.							
D	Monaghan (Rowantree House)...	Dr. J. Campbell Hall.....	5	5	6	240	745 29·34 196
ARMAGH.							
(Area, 514 sq. mi.)							
1.—DUNDALK BAY. 118 sq. mi.							
2.—CARLINGFORD LOUGH. 23 sq. mi.							
D	Bessbrook (Deramore)	Mr. W. Smith.....	5	1	6	252	896 35·27 165
3.—BANN—Lough Neagh, East. 37 sq. mi.							
D	Lurgan (Belle Vue)	S. A. Bell, Esq.....	5	0	5	200	721 28·37 190
4.—BANN, UPPER. 144 sq. mi.							
D	Tanderagee.....	Dr. J. Taylor	5	1	6	198	816 32·12 185
	"(R)	" " "	8	1	6	198	812 31·96 ...

DIVISION XXIII.—ULSTER—(continued).

STATIONS.	AUTHORITIES.	Rain Gauge.				Depth of Rain.		Days with .01 in. or more
		Diam.	Height Above Ground.		Sea Level	1915		
		in.	ft.	in.	feet.	mm.	inches.	
LONDONDERRY. (Area, 816 sq. mi.)								
1.—LOUGH SWILLY. 6 sq. mi.								
D Londonderry (Dunruadh)	J. H. Welch, Esq.....	5	0	6	130	960	37·81	235
2.—BUSH & C. 9 sq. mi.								
3.—BANN, LOWER. 240 sq. mi.								
4.—BANN—Lough Neagh, West. 196 sq. mi.								
5.—FOYLE & C. 365 sq. mi.								
D Londonderry (Creggan Res.).....	Mr. W. Hutchison.....	8	1	0	320	1024	40·33	270
Limavady (Drenagh).....	M. M. McCausland, Esq.	5	1	6	80	801	31·54	221
D „ (Culmore Ho., Myroe).....	J. B. Martin, Esq.....	8	1	0	13	744	29·27	222
Bellarena.....	Sir F. G. Heygate, Bart..	5	1	3	7	810	31·89	...
TYRONE. (Area, 1257 sq. mi.)								
1.—ERNE. 48 sq. mi.								
2.—BANN—Lough Neagh, West. 442 sq. mi.								
Dungannon (Killyman Rectory).....	Rev. E. F. Campbell	5	0	11	150	810	31·89	...
D Cookstown (Lissan House)	J. H. Staples, Esq.....	5	0	10	310	872	34·33	197
3.—FOYLE. 769 sq. mi.								
D Omagh (Edenfel)	Lt.-Col. J. B. Buchanan...	8	1	0	280	991	39·03	225
D Newtown Stewart (Baron's Court).....	Mr. R. Bell.....	5	1	0	250	959	37·74	215
D Sion Mills (Sion House)	Miss G. I. Herdman	5	3	0	100	989	38·94	223
DONEGAL. (Area, 1875 sq. mi.)								
1.—DONAGH & C. 146 sq. mi.								
2.—LOUGH SWILLY. 273 sq. mi.								
D Letterkenny (District Asylum).....	E. E. Moore, Esq., M.D....	5	1	0	183	1116	43·94	243
Rathmullen House	<i>Press-cutting</i>	5	0	9	75	1030	40·56	...
3.—SHEEPHAVEN & C. 307 sq. mi.								
D Milford (The Manse)	Rev. W. J. Young.....	5	1	6	150	1048	41·24	240
Dunfanaghy (St. Helen's).....	J. J. MacGrath, Esq., M.D.	8	1	0	55	1002	39·43	251
D „ (Horn Head)	C. F. Stewart, Esq.	5	2	0	163	1057	41·61	247
4.—GWEEBARRA & C. 341 sq. mi.								
5.—DONEGAL BAY. 322 sq. mi.								
D Killybegs (Rockmount).....	Comm. G. G. Philipps, R.N.	5	1	0	65	1435	56·50	233
6.—ERNE. 68 sq. mi.								
7.—DROWES & C. 10 sq. mi.								
8.—FOYLE. 396 sq. mi.								
D Convoy	Rev. Preb. K. Thompson	5	0	9	150	1165	45·85	240
9.—INSULAR. 12 sq. mi.								

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